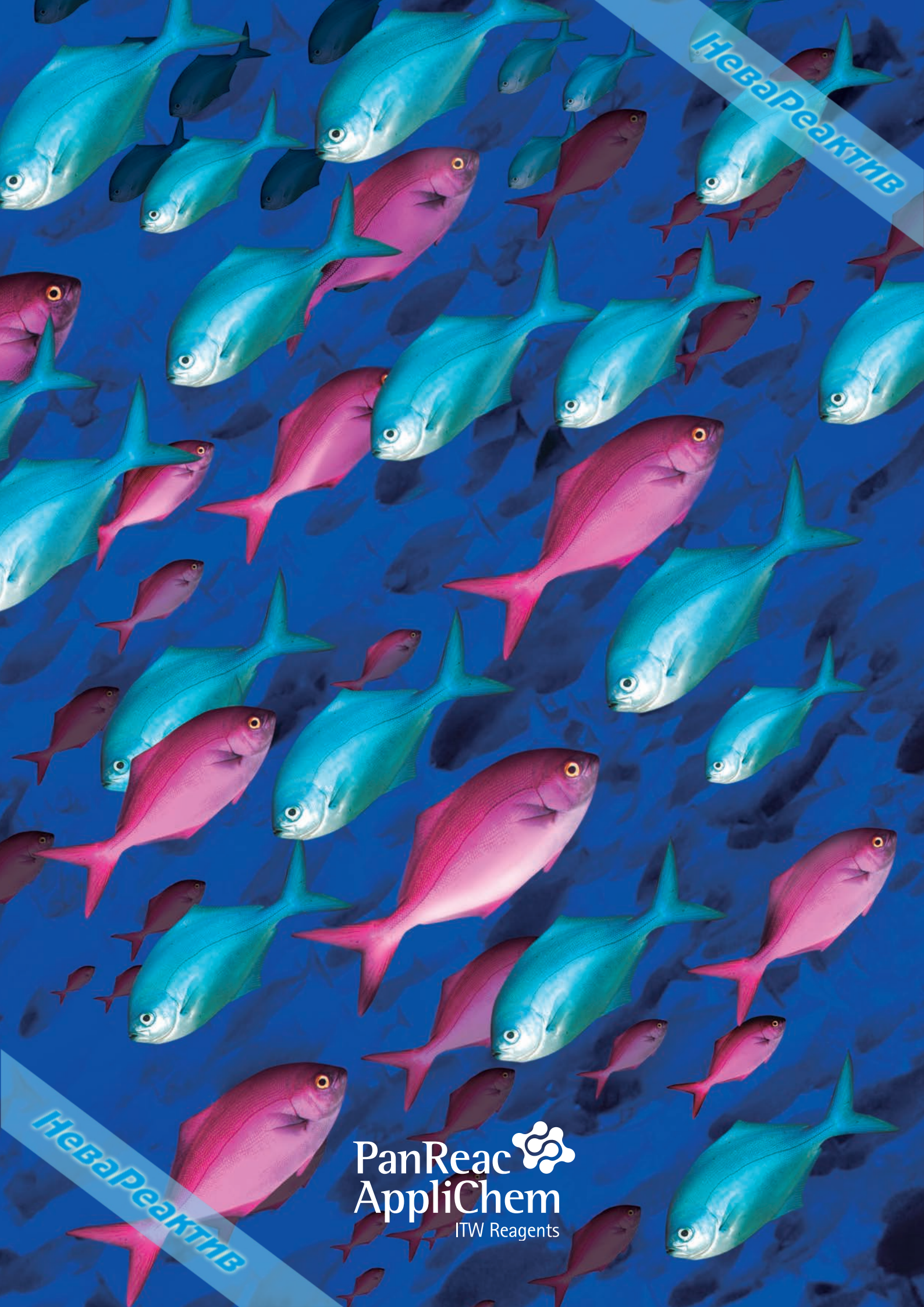
НевяРеактив
НевяРеактив
PanReac
AppliChem
ITW Reagents



Management Team

Dear reader,

We are proud to present our new catalogue. It is the result of the work of all the professionals that form the ITW Reagents family. It would not have been possible without the support of our customers and partners that help us to maintain this catalogue updated with the products you need.

Our products are manufactured under strict quality standards and the latest technology to ensure the health of our employees as well as our customers and the planet.

A highly experienced professional staff and the strategic situation in Europe of our three sites in Darmstadt, Milan and Castellar (Barcelona), guarantee the best service anywhere in the world, under the conditions required by you.

Being a member of the ITW Group, reinforces the industrial character of the division and the path of progress undertaken in recent years towards responsible use of resources and sustainability of our business.

We love what we do and we work to keep improving and growing.

Enjoy our catalogue!

Joan Roget
Vice President / General Manager
ITW Reagents Division

PanReac AppliChem
ITW Reagents

НевАреактив

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НевАреактив

НЕВАРЕАКТИВ

We do chemistry because we want to change the world with you. Share our curiosity about life.



Barcelona/Darmstadt/Milano

We are manufacturers of laboratory reagents and chemicals for industrial use.
Our products cover chemical, biological, pharmaceutical and medical research and production applications.

We have two production plants and three logistics centers in Castellar del Vallès (Barcelona, Spain), Darmstadt (Germany) and Milan (Italy).

НЕВАРЕАКТИВ

Corporate Social Responsibility



PanReac AppliChem offers a highly diversified range of products, maintaining the highest ethical standards and a strong commitment to the health and safety of its customers and employees.

Our stake is on sustainable practices for a healthy planet.

We transform raw materials into environmentally sustainable products. We ensure our products and services are safe across the entire value chain.

Safe the ozone layer!
No more invisible hydrocarbons with our
Tetrachloroethylene
(code 331455)

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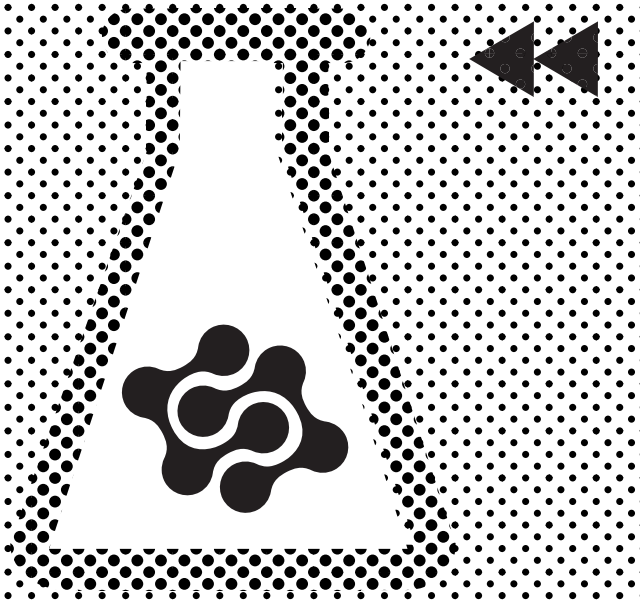
FSC www.fsc.org
MIX
Paper from responsible sources
FSC® C100391

Quality Guarantee



It is more than chemistry. It is an attitude. It is quality in our processes.

Our integrated Management System is implemented in all activities and processes of our company.

We meet the following standards:

- **OHSAS 18001** Occupational health and safety management systems.
- **ISO 14001** Environmental management system.
- **ISO 9001** Quality management systems.
- **IPEC/PQG GMP Guide** For pharmaceutical excipients.

We guarantee the best quality with our Solvents for your Headspace GC:

- **N,N-Dimethylacetamide** (code 753145)
- **N,N-Dimethylformamide** (code 751785)
- **Dimethyl Sulfoxide** (code 751954)

How to use this Catalogue

The products contained in this catalogue are in alphabetical order. The prefixes, before hyphens, such as N-, D-, L-, di-, tri-, etc., are not taken into consideration in the alphabetical ordering.

Where the same product can have several names, the most common can be found listed with the name used by PanReac AppliChem (e.g., Ethyl Alcohol: see Ethanol).

Under the heading of a substance, the list of products according to their quality or application will be found. You can search by CAS No or product code in the final pages of this catalogue, where the abbreviations used and the list of hazard statements (H phrases) or precautionary statements (P phrases) can be found.

Acetonitrile (1)

Cyanomethane, Methyl Cyanide, Ethanenitrile (2)

CH_3CN (4)
M = 41.05 g/mol (5)
CAS 75-05-8
EINECS 200-835-2
CS 29269095
Index Nr. 608-001-00- (11)

Melting Point ..... -46 °C (7)
Boiling Point ..... 81 °C
Density ..... 0.786 kg/l (20 °C)
Refractive Index n20/D 1.3442
Liquid

UN1648
Class/PG 3/II
ADR 3/II · RID 3/II · IATA 3/II (12)
WGK 2 (15)
Storage RT

Danger (10)
(9)
H225 H302+H312+H332 H319 (14)

721881 Acetonitrile for UHPLC Hypergradient (16)

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Density 20/4 ..... 0.779-0.783
Suitability: for pesticide analysis (HPLC UV detection) ..... passes test
Suitability: for PAH analysis (HPLC fluorescence detection) ..... passes test
Suitability: for fluorescence detection (NIST SRM 1647B) ..... passes test

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.0001 %
Base line drift (210 nm) ..... 10 mUA
Water (H_2O) ..... 0.01 %
Gradient at 210 nm ..... 1 mUA
Gradient at 254 nm ..... 0.5 mUA
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 190 nm ..... ≥ 30 %
Transmittance at 193 nm ..... ≥ 60 %
Transmittance at 195 nm ..... ≥ 85 %
Transmittance at 200 nm ..... ≥ 96 %
Transmittance at 215 nm ..... ≥ 98 %
Transmittance at 230-400 nm ..... ≥ 99 %
Data of interest in HPLC:
UV-Cut off ..... 190 nm
Rohrschneider Polarity 5.8
Eluotropic value ε° (Al_2O_3) 0.65
Sol. H_2O in solv. at 20 °C ..... miscible
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
721881.1612	2.5 l

701881 Acetonitrile for LC-MS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Density 20/4 ..... 0.779-0.783
Suitability: for LC-MS ..... passes test

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.0001 %
Base line drift (210 nm) ..... 10 mUA
Water (H_2O) ..... 0.01 %
Gradient at 210 nm ..... 1 mUA
Gradient at 254 nm ..... 0.2 mUA
Fluorescence at 254 nm (as quinine) ..... 1 ppb
Fluorescence at 365 nm (as quinine) ..... 0.5 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 190 nm ..... ≥ 30 %
Transmittance at 193 nm ..... ≥ 60 %
Transmittance at 195 nm ..... ≥ 80 %
Transmittance at 200 nm ..... ≥ 90 %
Transmittance at 230-400 nm ..... ≥ 98 %

Metals [in mg/Kg (ppm)]
Ag 0.05
Al 0.5
Ba 0.1
Ca 0.05
Cd 0.05
Co 0.02
Cr 0.02
Cu 0.02
Fe 0.1
K 0.1
Mg 0.1
Mn 0.02
Na 0.1
Ni 0.02
Pb 0.1
Sn 0.1
Zn 0.1
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
701881.1611	1000 ml
701881.1612	2.5 l
701881.0537	30 l

Albumin

Origin from bovine serum (6)
CAS 9048-46-8 (3)
EINECS 292-322-5
CS 35029070

Solid (8)

Storage 2-8 °C (13)

A0849 Albumin for microbiology

Specifications (17)
Proteases ..... not detectable
Assay (Protein) ..... min. 99 %
Heavy metals ..... max. 0.002 %
Loss on drying ..... max. 5 %
pH (10 %; H_2O; 20 °C) ..... 5.5 - 7.5
Sulfated ash ..... max. 3 %
Fatty acids ..... max. 0.02 %

Code (18)	Packaging
A0849,0050	50 g

Albumin - H1

Origin from bovine serum
CAS 9048-46-8
EINECS 292-322-5
CS 35029070

Solid

Storage 2-8 °C

A0847 Albumin - H1

Specifications
Assay (Protein) ..... min. 98 %
Heavy metals ..... max. 0.2 %
Loss on drying ..... max. 5 %
pH (1 %; 0.15 M NaCl; 20 °C) ..... approx. 7.0
Sulfated ash ..... max. 3 %
Fatty acids ..... max. 0.02 %
Immunoglobulins ..... not detectable

Code	Packaging
A0847,0050	50 g

Albumin - H2

Origin from bovine serum
CAS 9048-46-8
EINECS 292-322-5
CS 35029070

Solid

Storage 2-8 °C

1. Product name
2. Synonyms
3. CAS
4. Molecular formula
5. Molar mass
6. Origin
7. Physical data
8. Physical state at room temperature (solid or liquid)
9. Hazard pictograms
10. Signal word
11. Registry numbers (see chapter Abbreviations)
12. Transport regulations (see chapter Abbreviations)
13. Storage Conditions
14. H-Phrases: Hazard Statements
15. WGK: German classification of water pollution risk degree
16. Product name and quality
17. Product specifications
18. Order code / Package size

HeBaPeaKTMB

Product Range



CHEMICALS
Reagents for Quality Control in the Pharmaceutical and Food industries, Environmental Laboratories and Chemical industries in general.

EXCIPIENTS
Raw materials for the Pharmaceutical, Food, Biopharmaceutical, Veterinary and Cosmetic industries.

BIOCHEMICALS
Reagents for Universities and R&D in Biochemistry, Molecular Biology and Biotechnology industries.

MICROBIOLOGY PRODUCTS
For Environmental water, air and surfaces analysis, and Food, Pharmaceutical and Cosmetic industries.

Be safe in the safest way!
DNA decontamination with
DNA-ExitusPlus® (code A7089)
See page 611

New names for the qualities

We have changed the names of the qualities of our products so it is easier to find the code that best meets your requirements. Instead of the acronyms that came with the product name, the quality is indicated by a more understandable explanation of the field of application, the analysis technique or its intended sector.

For example, "PA" is now "for analysis". "ST" (buffer solution) has no current correspondence because the product name already defines its quality. These changes do not affect the product quality or its code.

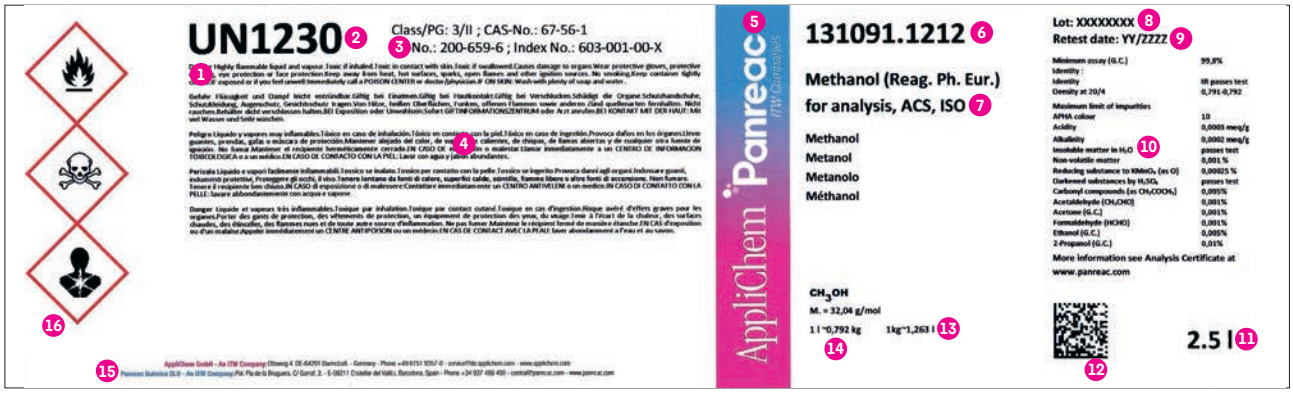
PREVIOUS NOMENCLATURE	CURRENT NOMENCLATURE
AA	for AAS
ADITIO	food grade
Blotting grade	for Western blotting
Buffer grade	for buffer solutions
Cell culture grade	for cell culture
CG	for GC
CODEX	pharma grade
Crystallography grade	for crystallography
CULTIMED	for microbiology
DC	for clinical diagnosis
DNA synthesis and protein sequencing grade	for DNA synthesis and protein sequencing
DNA synthesis grade	for DNA synthesis
DS	-
Electrophoresis grade	for electrophoresis
EM grade	for electron microscopy
EQP	standard for volumetry
extrapure	puro
GC-Headspace PAI	for Headspace GC
GMP (IPEC-PQG 2006 Guide for Pharmaceutical Excipients)	GMP - IPEC grade
Histology grade	for histology
HPLC grade	for HPLC
(HPLC) PAI	for HPLC
(HPLC-GPC) PAI	for HPLC, GPC
(HPLC-gradient grade) PAI	for UHPLC Supergradient
(HPLC-hypergradient grade) HIPERPUR	for UHPLC Supergradient
(HPLC-preparative) PAI	for HPLC preparative
IC	for IC
ICP	for ICP
(IR) PAI	for IR
(LC-MS) PAI	for LC-MS
LS	BioChemica
Microbiology grade	for microbiology
Microscopy grade	for microscopy
Molecular biology grade	for molecular biology
PA	for analysis
p. A.	for analysis
(PAR) PAI	for pesticide analysis
PB	BioChemica
Protein sequencing grade	for protein sequencing
PRS	pure
PRS-CODEX	pure, pharma grade
PS	for synthesis
pure DAB, Ph. Eur., USP	(DAB, Ph. Eur., USP) pure, pharma grade
QP	technical grade
RE	-
RS	-
RV	for volumetric analysis
ST	-
SV	volumetric solution
SVc	-
(TMA) ANALPUR	for trace metal analysis (ppm)
(TMA) HIPERPUR	for trace metal analysis (ppb)
(TMA) HIPERPUR-PLUS	for trace metal analysis (ppt)
(UHPLC-Supergradient) PAI	for UHPLC Supergradient
(UV) PAI	for UV
(UV-HPLC) PAI-ACS	for UV, HPLC, ACS
(UV-IR-HPLC) PAI	for UV, IR, HPLC, ACS
(UV-IR-HPLC-GPC) PAI	for UV, IR, HPLC, GPC
VINIKIT	VINIKIT, for wine analysis

Obtain the best performance of your equipment using our solvents for UHPLC:

- **Acetonitrile for UHPLC Supergradient, ACS** (code 221881)
- **Methanol for UHPLC Supergradient, ACS** (code 221091)
- **Water for UHPLC Supergradient** (code 221074)

See page 610

How to read our label



1. Warning word, hazard statements (H phrases) and precautionary statements (P phrases)
2. UN number
3. EC number
4. Label according to Regulation (EC) no. 1272/2008
5. Registered trade marks
6. Product code
7. Product name, quality and / or application
8. Batch number
9. Expiry date
10. Specifications
11. Pack size
12. Data Matrix code
13. Approximate equivalence l/kg in liquids
14. Formula and molecular weight
15. Manufacturers
16. Hazard symbols

Packaging Conditions

The number of units by complete box varies based on the container size. For containers up to 1 kg or 1 L, the full box will be 6 units. For 2.5 L, 5 L or 5 kg, the full box is 4 units.

The letters that appear at the end of some codes refer to the container material.
CT --- Cubitainer: Flexible polyethylene container with tap in a carton box
GL --- Glass bottle
PE --- Polyethylene bottle

Product Information

Product codes beginning with "A" indicate that the product is for biochemical application. Number codes indicate that the product is for chemical application.

The Product Specifications, Certificates of Analysis and Material Safety Data Sheets for all our products can be found on the **www.applichem.com** and **www.panreac.com** websites.

You can find the GHS statements, H and P phrases, on page 607 and table of hazard symbols on the back cover flap of this catalogue.

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How to place an order

Orders and Customer Services

Germany
Phone +49 6151 9357-0
Fax +49 6151 9357-11
service@applichem.com
www.applichem

Italy
Phone +39 02 66045392
Fax +39 02 66045394
ordini@novachimica.com
www.novachimica.com

Spain
Phone +34 937 489 400
Fax +34 937 489 494
iberia@panreac.com
www.panreac.com

Rest of the countries
Phone +49 6151 9357-0 or +34 937 489 400
Fax: +49 6151 9357-11 or +34 937 489 495
service@applichem.com or export@panreac.com
www.applichem.com or www.panreac.com

Technical Service

Inquiries for specific product and other technical topics.

Germany
Phone +49 6151 9357-0
Fax +49 6151 9357-32
service@applichem.com
www.applichem

Italy
Phone +39 02 66045392
Fax +39 02 66045394
service@novachimica.com
www.novachimica.com

Spain
Phone +34 902 439 439
Fax +34 937 489 492
stecnico@panreac.com
www.panreac.com



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General Sales Conditions

1. Previous considerations.
The buyer recognizes and accepts the content of the present general sales conditions, as supply regulators of AppliChem GmbH, Nova Chimica Srl and Panreac Química SLU. (hereafter denominated "PanReac AppliChem"). Likewise it is understood that the buyer knows and accepts the present general sales conditions as regulating successive orders placed with PanReac AppliChem.
Any modification to the present conditions will only have validity if so convened in writing and by common agreement between PanReac AppliChem and the buyer, no clause or general sales condition included by the buyer in their documentation or correspondence being considered valid.
In the case that any or several of the stipulations of the present general sales conditions or that any others that modify or substitute them are annulled or become unable to be executed due to legal motives, the validity of the other stipulations will not be affected, and under all circumstances remain in force.
In the case of legal or extra judicial insolvency, declaration of bankruptcy or temporary receivership of the buyer as well as cases of total or partial non-compliance of the agreed terms, PanReac AppliChem reserves the right to terminate the contract without need for previous notice and with the possibility of claiming the corresponding indemnity for damages and prejudicial consequences.

2. Orders and supplies.
Orders placed with PanReac AppliChem are not binding unless they contain the following details:
- Complete code, size of the container (according to current tariffs), quantity of product or if applicable, number of units to acquire.
- Order number.
- Product address and delivery system.
- Invoice delivery address.
- Payment conditions agreed and direct bank debit.

On request, PanReac AppliChem can supply products or qualities in uncatalogued measures, and uncatalogued products or qualities, whenever previously negotiated and agreed on by PanReac AppliChem.

3 . Order acceptance.
Acceptance of the order must necessarily be made expressly and in writing. However, the order will be treated as accepted by PanReac AppliChem if it proceeds to process the corresponding application.
In any case it will be understood that the buyer recognizes and accepts the content of the present general sales conditions with the order fulfilment, likewise declaring that the buyer has been able to revise it with sufficient priority to give their total and complete acceptance.
If the buyer does not provide all the information indicated in Condition 2 above and which necessarily must appear on the order, PanReac AppliChem reserves the right not to accept it and/or ask the buyer for the necessary data for correct processing. In this last case, if in the term of 10 days the additional required information has not been provided, PanReac AppliChem may accept the order, processing the corresponding order according to available data, or reject it, remaining in both cases exempt of all responsibility.
Once the order has been processed and accepted expressly or tacitly according to the indicated terms, this will be absolute and legally binding for buyer and PanReac AppliChem, respectively, with cancellation not being possible for the Buyer after PanReac AppliChem has begun any of the procurement processes for raw materials, manufacture and availability of the product in our warehouses.

4 . Prices and Payment conditions.
As a general rule, unless otherwise stated, the prices established in the catalogues, website price lists and current offers are net retail prices, including standard containers and packaging. The cost of non-standard containers or packaging will be charged separately. Prices, offers and price lists may vary. They may be subject to modification consequent to costs of raw materials, production process, exchange rate fluctuations and/or force majeure, and should therefore be considered in any case to be without commitment. All taxes and duties shall be borne by the Buyer, in addition to the corresponding charges and encumbrances for sales and dispatch activity, Products subject to Special Taxes, and any other cost or expense unless expressly assumed by PanReac AppliChem pursuant to the terms of these conditions.
PanReac AppliChem and the Purchaser will agree the payment terms for each order. Products will be payable in advance before shipment, except in case of special arrangement.

5. Delivery.
The products are made available to the buyer in the PanReac AppliChem warehouses, at which time they are deemed delivered to all the effects and purposes.
Export shipments are made according to Incoterms in force, except when this is not possible due to causes outside PanReac AppliChem's control.
Deliveries are made freight forward by the means the buyer indicates. If no means has been specified, PanReac AppliChem can choose the system or means of transport it considers the most ideal.
If freight is paid by PanReac AppliChem, it may use the transport company of its choice. PanReac AppliChem will not be held responsible for delays due to processing prescribed export licences or for restrictions to export, whatever its cause or origin.

In any case, the buyer will be responsible for obtaining licences, permission, etc. necessary for product export and import, exempting PanReac AppliChem of all duties along with any responsibility whatsoever where the corresponding licenses, permission, etc. cannot be obtained.

6. Domain reserve.
PanReac AppliChem reserves the vested property of the products delivered to the buyer while the latter has not credited the entirety of the amount of the corresponding invoice.
Where the buyer has proceeded to resell or alter the products with respect to PanReac AppliChem attempting to exercise their right of domain reserve through payment pending, PanReac AppliChem may freely seize other goods used by the same buyer up to the corresponding amount owing in payment.

7. Insurance.
In freight forward deliveries within European territory, insurance must be contracted and is charged to the buyer. In deliveries to other countries, the buyer must take out insurance, except where expressly requesting PanReac AppliChem in writing to include insurance in the invoice according to sale conditions agreed in each order as per Incoterms in force.

8. Containers and Packaging.
The containers and packaging used by PanReac AppliChem are the most adequate for each product, complying in each case with current legislation, including dangerous goods transport homologation. However, it is the responsibility of the buyer to check whether the containers comply to local product storage conditions along with any another local regulations with the object of ensuring their compliance to which PanReac AppliChem is committed.

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PanReac AppliChem reserves the right to change or amend the type, class or material of the containers to best suit the product/container/material, without prior notice.

PanReac AppliChem agrees to inform the carrier on the fragility and/or dangerous nature of the goods delivered, both through documentation and through delivery and packaging labels. The buyer, on their side, is responsible for inspecting the boxes on reception before sealing them with the conformity of the transport agency.
The packaging and containers cannot be used for other purposes or for storing other products. They shall be used exclusively for transporting goods supplied by PanReac AppliChem.

9. Inspected products.
Products subject to legal provisions are part of the PanReac AppliChem product supply program.
The buyer is liable for compliance with existing legislation in its country in relation to the inspected products.

10. Returns and Claims.
The buyer is obliged to check that the products supplied conform to the contracted characteristics and are adequate to the aims to which they will be applied. The products are considered accepted and agreed upon by the buyer regarding quality and quantity except when, within a five-day maximum term from reception, the buyer notifies in writing of their non-acceptance, indicating the cause.
PanReac AppliChem will not accept product returns except when the products justifiably do not correspond to the characteristics contracted. In this case, in addition to the justification and technical argument, the buyer must indicate the manufacturing batch number that appears on the label and must send PanReac AppliChem one of the sealed containers from the same box together with the claim object.

Once the products object of return have been studied and checked by PanReac AppliChem, the latter will remit a detailed technical answer to the buyer, accepting or rejecting the claim presented. If accepting it, the products will be replaced.
If not, the parties agree to subject the question to the official competent body in the materia, chosen by PanReac AppliChem to carry out an alternative analysis and/or act as mediator. The parts agree that this resolution is of a binding nature, obligating compliance.

The costs will be paid by the party whose claim has not been accepted. In the case of partial acceptance, the costs are split equally.
Containers and packaging may not be an object of return in any case.

11. Use-Responsibilities.
PanReac AppliChem guarantees that their products are manufactured for analytical, research, scientific and industrial uses and always by qualified technicians in accordance with the uses to which they are destined, and cannot be used in relation to people, animals or in other forms of private use. Sale to individuals is prohibited.
The purity specifications of the products can be modified without previous warning to the buyer. The specifications appearing on the container labels and/or certificates of analysis are binding for both parties.
PanReac AppliChem is not responsible for inadequate or negligent use of the products by the end user (including non-observance of the recommendations included in these conditions) nor of the non-observance of the safety instructions printed on each label and material safety data sheet (MSDS), along with the placing of the products within reach of children or minors.

PanReac AppliChem expressly recommends that they are consulted in each case to advise on the most ideal quality to this end, and decline all responsibility in the case of this recommendation not being followed.
PanReac AppliChem is not responsible for damage that can be caused during transport and unloading of products.
According to Occupational Hazard Prevention Law or the equivalent in each country of destination, the buyer must evaluate, instruct and inform their employees about the identified risks on the handling of chemical products, and provide the collective or individual and adequate protection equipments and establish the necessary patterns on carefulness of health indicated for each case.

12. Recommendations.
PanReac AppliChem recommends that the buyer consult the maximum impurity limit, the analysis type and any other specification appearing on the product labels and/or certificates of analysis and, if possible, confirm data fundamental for the use to which the product is destined, so that, without prejudice to catalogue indications, the buyer must verify for themselves whether the products are adequate and answer the needs of the buyer in each case.
The technical data sheets, certificates of analysis and material safety data sheets (MSDS) are available on the website of PanReac AppliChem.

PanReac AppliChem recommends that the buyer consult the legislation applicable at all times on material handling, storage and dangerous goods transport, along with incompatibilities between products that can react violently together.

13. Force Majeure.
PanReac AppliChem will in no case be responsible for delay in product delivery when this is caused by Force Majeure or when the delay is not imputable solely to PanReac AppliChem. In purely informative terms, Force Majeure is considered to be fires, explosions, lightening, sudden incapacity to obtain raw materials, manpower, etc.

14. Litigation
In cases of litigation on the compliance of specifications and quality characteristics, the regulations and verification methods of PanReac AppliChem will prevail. For the resolution of any legal question derived from the present general sales conditions, the parties will submit to the Courts of the city of:
Barcelona (Spain) and Spanish legislation, for sales made by Panreac Química SLU.
Darmstadt (Germany) and the legislation of the Federal Republic of Germany for sales made by AppliChem GmbH.
Milan (Italy) and Italian legislation for sales made by Nova Chimica Srl.
Expressly waiving the right to any other jurisdiction they may be entitled to.

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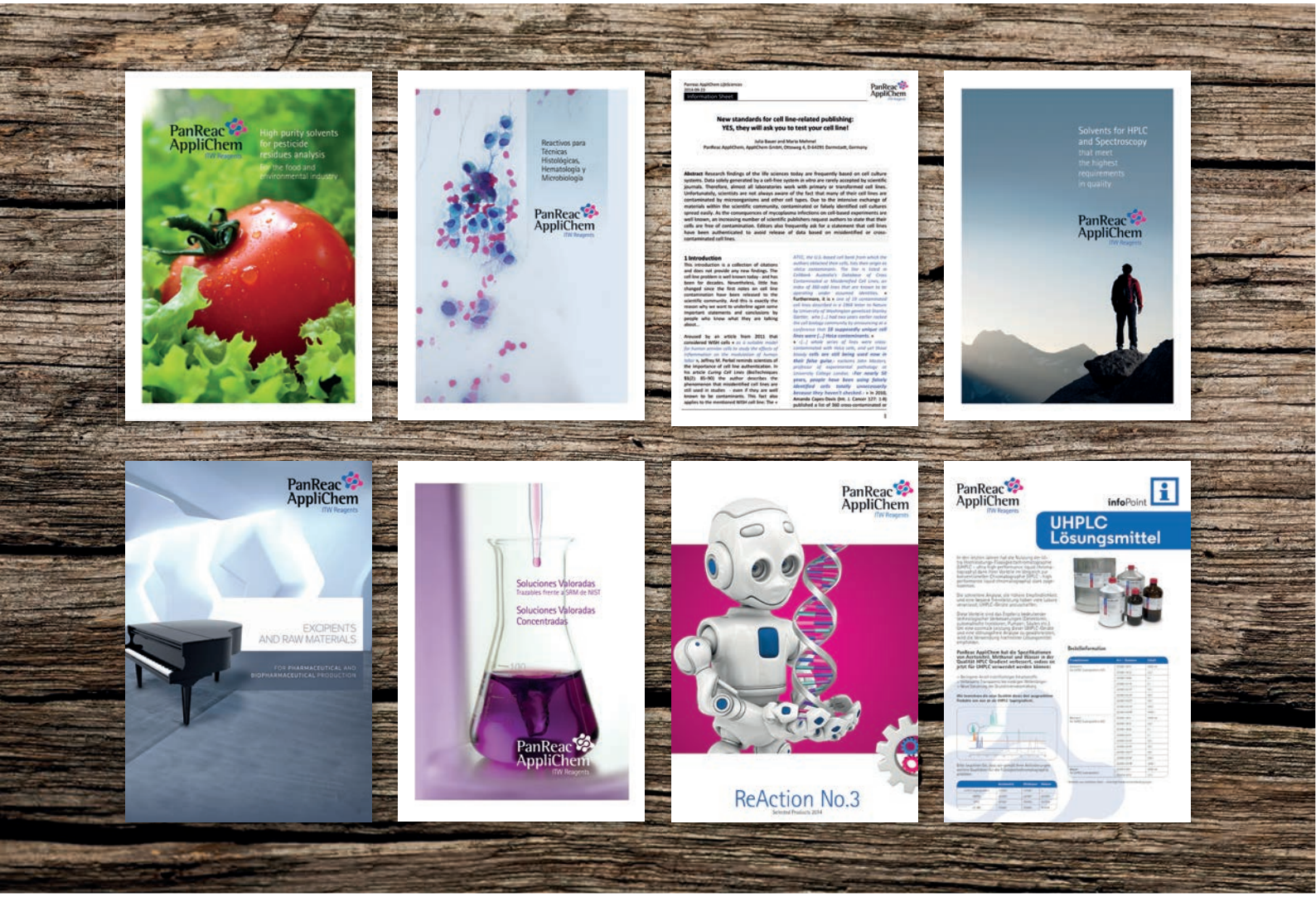
Our publications



We have a wide range of publications with technical information according to the product range. Consult these by visiting www.applichem.com and www.panreac.com, or request them from your regular PanReac AppliChem distributor.

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7AAD see 7-Aminoactinomycin D

ABTS®

2,2'-Azino-bis-(3-Ethylbenzthioazoline-6-Sulfonic Acid) Diammonium Salt

$C_{18}H_{24}N_6O_6S_4$
M = 548.69 g/mol
CAS 30931-67-0
EINECS 250-396-6
CS 29339980

Melting Point .....> 300 °C (dec.)
Solid

WGK 3
Storage 2-8 °C

Warning



H315 H319 H335

A1088 ABTS® BioChemica

® registered trademark of Roche Diagnostics

Specifications
E 0.001 %/1 cm, 340 nm .....min. 38000
Solubility (2 %; H_2O) .....clear, green
TLC ..... passes test
Loss on drying .....max. 6 %

Code	Packaging
A1088,0001	1 g
A1088,0005	5 g
A1088,0010	10 g
A1088,0250	250 g

ACAC see 2,4-Pentanedione

ACES

N-(2-Acetamido)-2-Aminoethanesulfonic Acid

$C_4H_{10}N_2O_4S$
M = 182.20 g/mol
CAS 7365-82-4
EINECS 230-908-4
CS 29241900

Melting Point .....290 °C (dec.)
Solid

Storage RT

A1060 ACES for buffer solutions

Specifications
Assay (titr.) .....min. 99 %
pH (1 %; H_2O; 20 °C) 3.5-4.5
Water (K.F.) .....max. 0.5 %
A (1 cm/5 % in H_2O)
260 nm ..... max. 0.04
280 nm ..... max. 0.02

Code	Packaging
A1060,0250	250 g
A1060,1000	1 kg
A1060,9010	10 kg

Acetaldehyde

Acetic Aldehyde, Acetylaldehyde, Ethanal, Ethyl Aldehyde

C_2H_4O
M = 44.05 g/mol
CAS 75-07-0
EINECS 200-836-8
CS 29121200
Index Nr. 605-003-00-6

Melting Point .....-123.5 °C
Boiling Point ..... 21 °C
Density .....0.780 kg/l
Refractive Index n20/D 1.3316
Liquid

UN1089
Class/PG 3/I
ADR 3/I · IMDG 3/I · IATA 3/I
WGK 1
Storage between 2-8 °C

Danger



H224 H319 H335 H351

15A656 Acetaldehyde, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity .....IR passes test
Density 16/4 ..... 0.786-0.790

Code	Packaging
15A656.1609	250 ml
15A656.1611	1000 ml
15A656.0616	25 l

Acetamide

Acetic Acid Amide

C_2H_5NO
M = 59.07 g/mol
CAS 60-35-5
EINECS 200-473-5
CS 29241900
Index Nr. 616-022-00-4

Melting Point ..... 81 °C
Boiling Point ..... 222 °C
Solid

WGK 1
Storage RT

Warning



H351

141004 Acetamide pure

Specifications
Assay (G.C.) ..... 99 %
Identity .....IR passes test
Melting range ..... 78-81 °C
Acidity (as CH_3COOH) ..... 0.1 %
Insoluble matter in H_2O .....0.025 %
Chloride (Cl) .....0.005 %
Sulfate (SO_4) .....0.01 %
Water (H_2O) .....0.5 %
Cu .....0.002 %
Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141004.1211	1000 g

2-Acetamido-2-deoxy-D-Glucose see N-Acetyl-D-Glucosamine

Acetanilide

N-Phenylacetamide

C_8H_9NO
M = 135.17 g/mol
CAS 103-84-4
EINECS 203-150-7
CS 29242998

Melting Point ..... 115 °C
Boiling Point ..... 302 °C
Solubility ..... water 5 g/l at 25 °C
Solid

WGK 1
Storage RT

Warning



H302

141005 Acetanilide pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Melting range ..... 113-116 °C
Insoluble matter in C_2H_5OH ..... passes test
Loss on drying ..... 0.8 %
Residue on ignition (as SO_4) ..... 0.2 %

Code	Packaging
141005.1210	500 g
141005.1211	1000 g
141005.0914	5 kg

Acetic Acid glacial

Mathanecarboxylic acid, Ethanoic Acid

CH_3COOH
M = 60.05 g/mol
CAS 64-19-7
EINECS 200-580-7
CS 29152100
Index Nr. 607-002-00-6

Liquid

UN2789
Class/PG 8(3)/II
ADR 8(3)/II · IMDG 8(3)/II · IATA 8(3)/II
WGK 1
Storage RT

Danger



H226 H314

361008 Acetic Acid glacial for HPLC

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test

Maximum limit of impurities
APHA colour 10
Non-volatile matter ..... 0.001 %
Water (H_2O) ..... 0.1 %
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 253 nm (Cut off) ..... ≥ 10 %
Transmittance at 254 nm ..... ≥ 25 %
Transmittance at 280 nm ..... ≥ 95 %
Transmittance at 300-450 nm ..... ≥ 98 %

Data of interest in HPLC:
Rohrschneider Polarity 6.0
Sol. H_2O in solv. at 20 °C ..... miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361008.1611	1000 ml
361008.1612	2.5 l

721008 Acetic Acid glacial for trace metal analysis (ppb)

Specifications
Minimum assay ..... 99 %

Maximum limit of impurities
APHA colour 10
Reducing substance to $KMnO_4$ .... passes test
Chloride (Cl) ..... 0.0001 %
Phosphate (PO_4) ..... 0.0001 %
Sulfate (SO_4) ..... 0.00005 %

Reducing substances
to $K_2Cr_2O_7$ ..... passes test

Metals by ICP (ppb)

Ag	1	Al	1
As	0.5	Ba	0.5
Be	0.1	Bi	0.1
Ca	1	Cd	0.5
Ce	0.1	Co	0.1
Cr	1	Cs	0.1
Cu	0.5	Dy	0.1
Er	0.1	Eu	0.1
Fe	1	Ga	0.1
Gd	0.1	Ge	0.5
Hf	0.1	Hg	1
Ho	0.1	In	0.1
K	1	La	0.1
Li	0.1	Lu	0.1
Mg	0.5	Mn	0.5
Mo	0.5		

Code	Packaging
721008.0011	1000 ml

131008 Acetic Acid glacial (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.7 %
Density 20/20 ..... 1.050-1.052
Freezing point ..... ≥ 16.0 °C

Maximum limit of impurities
APHA colour 10
Alkalinity ..... 0.0004 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$ .... passes test
Residue on ignition (as SO_4) ..... 0.0005 %
Chloride (Cl) ..... 0.00004 %
Phosphate (PO_4) ..... 0.00004 %
Sulfate (SO_4) ..... 0.0001 %
Reducing substances
to $K_2Cr_2O_7$ ..... passes test
Acetaldehyde (CH_3CHO) ..... 0.0002 %
Acetic anhydride [$(CH_3CO)_2O$]
(G.C.) ..... 0.01 %
Formate (HCOO) ..... 0.01 %
Nitrate (NO_3) ..... 0.0001 %
Water (H_2O) ..... 0.2 %
Heavy metals (as Pb) ..... 0.00005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.01	Al	0.05
As	0.5	Au	0.1
B	0.05	Ba	0.1
Be	0.01	Bi	0.05
Ca	0.5	Cd	0.01
Co	0.01	Cr	0.02
Cu	0.01	Fe	0.1
Ga	0.05	Ge	0.02
Hg	0.1	In	0.05
K	0.1		

Code	Packaging
131008.1211	1000 ml
131008.1611	1000 ml
131008.1212	2.5 l
131008.1612	2.5 l
131008.1214	5 l
131008.0715	10 l
131008.0716	25 l

141008 Acetic Acid glacial (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 99.5-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
Freezing point ..... ≥ 15.6 °C

Maximum limit of impurities
Appearance of the substance ..... passes test
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.005 %
Reducing substances ..... passes test
Easily oxidable substances ..... passes test
Chloride (Cl) ..... 0.001 %
Sulfate (SO_4) ..... 0.001 %
Residual solvents (Ph. Eur./USP) . passes test
Aldehydes (as CH_3CHO) ..... 0.05 %
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0001 %
Fe ..... 0.0005 %

Code	Packaging
141008.1211	1000 ml
141008.1611	1000 ml
141008.1212	2.5 l
141008.1612	2.5 l
141008.1214	5 l
141008.0716	25 l

201008 Acetic Acid glacial (E-260, F.C.C.) food grade

Specifications
Assay (as $C_2H_4O_2$) by weight .... 99.8-100.5 %
Non-volatile residue, not more than .. 0.005 %
Easily oxidable substances ..... passes test

Formic Acid, Formates and other oxidizable substances (as Formic Acid),
not more than ..... 0.1 %
Arsenic (as As), not more than ..... 1 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 0.5 ppm

Heavy metals (as Pb),
not more than ..... 10 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201008.0716	25 l

161008 Acetic Acid glacial, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Density 20/4 ..... 1.048-1.050
Non-volatile matter ..... 0.001 %
Water (H_2O) ..... 0.2 %

Code	Packaging
161008.1611	1000 ml
161008.1212	2,5 l
161008.1612	2.5 l
161008.1214	5 l

211008 Acetic Acid glacial technical grade

Specifications
Assay (G.C.) ..... 99.5 %
Density 20/4 ..... 1.048-1.052
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Fe ..... 0.005 %
..... 0.005 %

Code	Packaging
211008.1211	1000 ml
211008.1212	2.5 l
211008.1214	5 l
211008.0716	25 l

НеВаРеАКТИВ

A3686 Acetic Acid 100 % for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.7 %
Heavy metals (as Pb) ..... max. 0.0005 %
Non-volatile matter ..... max. 0.001 %
Anhydride ..... max. 0.05 %
Formic acid ..... max. 0.01 %
Water (K.F.) ..... max. 0.2 %
Chloride ..... max. 0.0002 %
Sulfate ..... max. 0.0005 %

Code	Packaging
A3686,1000	1 L
A3686,2500	2.5 L

A3701 Acetic Acid 100 % BioChemica

Specifications
Assay (titr.) ..... min. 99.7 %
Heavy metals (as Pb) ..... max. 0.0005 %
Non-volatile matter ..... max. 0.001 %
Anhydrides ..... max. 0.05 %
Formic acid ..... max. 0.01 %
Water (K.F.) ..... max. 0.2 %
Chloride ..... max. 0.0002 %
Sulfate ..... max. 0.0005 %

Code	Packaging
A3701,1000GL	1 L
A3701,1000PE	1 L
A3701,2500PE	2.5 L

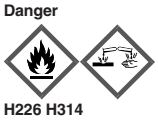
Acetic Acid 96 %

CH_3COOH
M = 60.05 g/mol
CAS 64-19-7
EINECS 200-580-7
CS 29152100
Index Nr. 607-002-00-6

Liquid

UN2789
Class/PG 8(3)/II
ADR 8(3)/II · IMDG 8(3)/II · IATA 8(3)/II
WGK 1
Storage RT

Danger



H226 H314

122703 Acetic Acid 96 % for analysis

Specifications
Minimum assay (Acidim.) ..... 96.0 %

Maximum limit of impurities
APHA colour 10
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$ ..... passes test
Residue on ignition (as SO_4) ..... 0.0005 %
Chloride (Cl) ..... 0.0001 %
Sulfate (SO_4) ..... 0.0001 %
Reducing substances
to $K_2Cr_2O_7$ ..... passes test
Acetaldehyde (CH_3CHO) ..... 0.0002 %
Formate (HCOO) ..... 0.01 %
Nitrate (NO_3) ..... 0.0001 %
Ag ..... 0.000001 %
Al ..... 0.000005 %
As ..... 0.00005 %
Ba ..... 0.00001 %
Be ..... 0.000001 %
Ca ..... 0.00005 %
Cd ..... 0.000001 %
Co ..... 0.000001 %
Cr ..... 0.000002 %
Cu ..... 0.000001 %
Fe ..... 0.00001 %
K ..... 0.00001 %
Li ..... 0.000001 %
Mg ..... 0.00001 %
Mn ..... 0.000001 %
Na ..... 0.00005 %
Ni ..... 0.000005 %
Pb ..... 0.000002 %
Sr ..... 0.000005 %
Zn ..... 0.000005 %

Code	Packaging
122703.1211	1000 ml
122703.1611	1000 ml
122703.1212	2,5 l
122703.1612	2.5 l
122703.0716	25 l

142703 Acetic Acid 96 % pure

Specifications
Assay (titr.) ..... min. 96 %
Formic acid ..... max. 0.05 %
Chloride ..... max. 0.0005 %
Sulfate ..... max. 0.0005 %
As ..... max. 0.0003 %
Cu ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %
Zn ..... max. 0.0005 %

Code	Packaging
142703.1212	2.5 L
142703.0715	10 L
142703.0716	25 L

Acetic Acid 80 %

CH_3COOH
M = 60.05 g/mol
CAS 64-19-7
EINECS 200-580-7
CS 29152100
Index Nr. 607-002-00-6

Density ..... 1.07 kg/l
Liquid

UN2789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

121556 Acetic Acid 80 % for analysis

Specifications
Minimum assay (Acidim.) ..... 80.0 %

Maximum limit of impurities
APHA colour 10
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$ ..... passes test
Residue on ignition (as SO_4) ..... 0.0005 %
Chloride (Cl) ..... 0.0001 %
Sulfate (SO_4) ..... 0.0001 %
Peroxides ..... 0.0002 %
Reducing substances
to $K_2Cr_2O_7$ ..... passes test
Acetaldehyde (CH_3CHO) ..... 0.0002 %
Formate (HCOO) ..... 0.01 %
Nitrate (NO_3) ..... 0.0001 %
Heavy metals (as Pb) ..... 0.0001 %
Ag ..... 0.000001 %
Al ..... 0.000005 %
As ..... 0.00005 %
Ba ..... 0.00001 %
Be ..... 0.000001 %
Ca ..... 0.00005 %
Cd ..... 0.000001 %
Co ..... 0.000001 %
Cr ..... 0.000002 %
Cu ..... 0.000001 %
Fe ..... 0.00001 %
K ..... 0.00001 %
Li ..... 0.000001 %
Mg ..... 0.00001 %
Mn ..... 0.000001 %
Na ..... 0.00005 %
Ni ..... 0.000005 %
Pb ..... 0.000002 %
Sr ..... 0.000005 %
Zn ..... 0.000005 %

Code	Packaging
121556.1611	1000 ml

Acetic Acid 60 %

CH_3COOH
M = 60.05 g/mol
CAS 64-19-7
CS 29152100
Index Nr. 607-002-00-6

Liquid

UN2790
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

127076 Acetic Acid 60 % for analysis

Specifications
Assay (titr.) ..... min. 60 %
Non-volatile matter ..... max. 10 ppm
Total N ..... max. 0.0001 %
Total Si ..... max. 0.0001 %
Anhydride ..... max. 0.05 %
Formic acid ..... max. 0.01 %
Chloride ..... max. 0.0001 %
Phosphate ..... max. 0.0001 %
Sulfate ..... max. 0.0001 %
Cr ..... max. 0.00001 %
Fe ..... max. 0.00001 %
K ..... max. 0.00001 %
Mg ..... max. 0.00001 %
Na ..... max. 0.0002 %
Ni ..... max. 0.00001 %
Pb ..... max. 0.00001 %
Zn ..... max. 0.00001 %

Code	Packaging
127076.0716	25 L

217076 Acetic Acid 60 % technical grade

Specifications
Assay (titr.) ..... approx. 60 %

Code	Packaging
217076.0716	25 L

НеВаРеактив

Acetic Acid 30 %

CH_3COOH
M = 60.05 g/mol
CAS 64-19-7
CS 29152100
Index Nr. 607-002-00-6

Liquid

UN2790
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314

127136 Acetic Acid 30 % for analysis

Specifications

Assay (titr.)	min. 30 %	Formic acid	max. 0.01 %	K	max. 0.00001 %
Non-volatile matter	max. 10 ppm	Chloride	max. 0.0001 %	Mg	max. 0.00001 %
Total N	max. 0.0001 %	Phosphate	max. 0.0001 %	Na	max. 0.0002 %
Total Si	max. 0.0001 %	Sulfate	max. 0.0001 %	Ni	max. 0.00001 %
Anhydride	max. 0.05 %	Cr	max. 0.00001 %	Pb	max. 0.00001 %
		Fe	max. 0.00001 %	Zn	max. 0.00001 %

Code	Packaging
127136.0715	10 L

Acetic Acid 25 %

CH_3COOH
M = 60.05 g/mol
CAS 64-19-7
CS 29152100
Index Nr. 607-002-00-6

Liquid

UN2790
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314

196884 Acetic Acid 25 % w/w pharma grade

Specifications

Assay (Acidim.)	23-27 %	Sulfate (SO_4)	0.001 %	Class 1B (Ir, Rh, Ru, Os)	10 ppm
Identity according to Pharmacopoeias:	passes test	Residual solvents (Ph. Eur./USP)	passes test	Class 1C (Mo, Cr, V)	25 ppm
		Aldehydes (as CH_3CHO)	0.05 %	Class 2 (Mn)	250 ppm
Maximum limit of impurities		Total aerobic microbial count (TAMC)	100 cfu /g	Class 3 (Zn)	1,300 ppm
Appearance	passes test	Total combined yeast and moulds (TYMC)	100 cfu /g	As	0.0001 %
Insoluble matter in H_2O	passes test	Heavy metals (as Pb)	0.0005 %	Cu	0.0005 %
Non-volatile matter	0.005 %			Fe	0.0005 %
Reducing substances	passes test	**Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):**		Ni	0.0005 %
Easily oxidable substances	passes test			Pb	0.0005 %
Chloride (Cl)	0.001 %	Class 1A (Pt, Pd)	10 ppm	This product has been manufactured with a raw material which passes the RFE, USP-NF, BP, Ph. Eur. specifications.	

Code	Packaging
196884.1215	10 l

216884 Acetic Acid 25 % technical grade

Specifications
Assay (titr.) approx. 25 %

Code	Packaging
216884.1212	2.5 L
216884.0716	25 L

Acetic Acid 10 %

CH_3COOH
M = 60.05 g/mol
CAS 64-19-7
EINECS 200-580-7
CS 29152100
Index Nr. 607-002-00-6

Liquid

WGK 1
Storage RT

Warning



H315 H319

147055 Acetic Acid 10 % pure

Specifications

Assay (titr.)	min. 10 %	Sulfate	max. 0.0005 %	Pb	max. 0.0005 %
Formic acid	max. 0.05 %	As	max. 0.0003 %	Zn	max. 0.0005 %
Chloride	max. 0.0005 %	Cu	max. 0.0005 %		
		Fe	max. 0.0005 %		

Code	Packaging
147055.0715	10 L

Acetic Acid 1 mol/l (1N)

CH_3COOH
M = 60.05 g/mol
CAS 64-19-7
EINECS 200-580-7
CS 29152100

Density 1.009 kg/l
Liquid

WGK 1
Storage RT

181009 Acetic Acid 1 mol/l (1N) volumetric solution

Indicator: Phenolphthalein

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty See certificate
Traceability NIST

Code	Packaging
181009.1211	1000 ml

Acetic Acid 0.1 mol/l (0.1N)

CH_3COOH
M = 60.05 g/mol
CAS 64-19-7
EINECS 200-580-7
CS 29152100

Density 1.002 kg/l
Liquid

WGK 1
Storage RT

181011 Acetic Acid 0.1 mol/l (0.1N) (Reag. Ph. Eur.) volumetric solution

Standardised against Sodium Hydroxide 0.1 M
Indicator: Phenolphthalein

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty See certificate
Traceability NIST

Code	Packaging
181011.1211	1000 ml

Acetic Acid : Chloroform 3 : 2 - Mixture (v/v)

CS 38220000

Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
WGK 3
Storage RT

Danger



H302 H314 H351 H373

145365 Acetic Acid : Chloroform 3 : 2 - Mixture v/v pure

Composition:
Acetic acid (A0662) .....3 parts (v/v)
Chloroform (A2640) .....2 parts (v/v)

Code	Packaging
145365.1212	2.5 L

Acetic Acid Calcium Salt Hydrate see Calcium Acetate x-hydrate

Acetic Acid Cobalt(II) Salt see Cobalt(II) Acetate 4-hydrate

Acetic Acid Dimethylamide see N,N-Dimethylacetamide

Acetic Acid Magnesium Salt 4-hydrate see Magnesium Acetate 4-hydrate

Acetic Aldehyde see Acetaldehyde

Acetic Anhydride

$(CH_3CO)_2O$
M = 102.09 g/mol
CAS 108-24-7
EINECS 203-564-8
CS 29152400
Index Nr. 607-008-00-9

Melting Point .....-73 °C
Boiling Point .....136-142 °C
Density .....1.08 kg/l
Solubility Reacts violently with water and ethanol. Miscible with ether, chloroform or benzene
Refractive Index n20/D 1.3903
Liquid

UN1715
Class/PG 8(3)/II
ADR 8(3)/II · IMDG 8(3)/II · IATA 8(3)/II
WGK 1
Storage RT

Danger



H226 H332 H302 H314

131147 Acetic Anhydride (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay ..... 99 %

Maximum limit of impurities
Non-volatile matter ..... 0.003 %
Reducing substance to $KMnO_4$ .... passes test
Chloride (Cl) ..... 0.0005 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.0005 %
Heavy metals (as Pb) ..... 0.0002 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.1	Al	0.05	Li	0.02
As	0.1	Au	0.1	Mn	0.02
B	0.05	Ba	0.1	Na	0.5
Bi	0.05	Ca	5	Pb	0.1
Cd	0.02	Co	0.02	Sb	0.02
Cr	0.02	Cu	0.02	Sn	0.05
Fe	0.1	Ga	0.05	Ti	0.05
Ge	0.02	Hg	0.1		
In	0.05	K	0.1		

Mg	0.1
Mo	0.02
Ni	0.02
Pt	0.1
Si	0.1
Sr	0.05

Code	Packaging
131147.1611	1000 ml
131147.1612	2.5 l
131147.0716	25 l

141147 Acetic Anhydride pure

Specifications
Assay (Morpholine meth.) ..... 98 %
Non-volatile matter ..... 0.01 %
Chloride (Cl) ..... 0.005 %

Phosphate (PO_4) .....0.005 %
Sulfate (SO_4) .....0.005 %
Cu .....0.001 %
Fe .....0.001 %

Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141147.1611	1000 ml
141147.1612	2.5 l

161147 Acetic Anhydride, 98 % for synthesis

Specifications
Minimum assay (Morpholine meth.) ..... 98 %

Code	Packaging
161147.1211	1000 ml

Acetone

Dimethyl Ketone, Pyroacetic Ether, 2-Propanone, β-Ketopropane

CH_3COCH_3
M = 58.08 g/mol
CAS 67-64-1
EINECS 200-662-2
CS 29141100
Index Nr. 606-001-00-8

Melting Point .....-95 °C
Boiling Point .....56 °C
Density .....0.791 kg/l (20 °C)
Refractive Index n20/D 1.3588
Liquid

UN1090
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



EUH066 H225 H319 H336

361007 Acetone for UV, IR, HPLC, GPC, ACS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 0.787-0.791

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.0003 %

Reducing substance to $KMnO_4$ (as O) .....0.0002 %
2-Propanol (G.C.) .....0.05 %
Aldehydes (as HCHO) .....0.002 %
Methanol (G.C.) .....0.05 %
Water (H_2O) .....0.2 %
Suitability for IR spectrometry: .....passes test
Fluorescence at 365 nm (as quinine) ..... 2 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 329 nm (Cut off) .....≥ 10 %
Transmittance at 330 nm .....≥ 15 %

Transmittance at 335 nm .....≥ 60 %
Transmittance at 340 nm .....≥ 85 %
Transmittance at 345 nm .....≥ 95 %
Transmittance at 350-450 nm .....≥ 98 %
Data of interest in HPLC:
Rohrschneider Polarity 5.1
Eluotropic value e° (Al_2O_3) 0.56
Sol. H_2O in solv. at 20 °C .....miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361007.1611	1000 ml
361007.1612	2.5 l
361007.0537	30 l

321007 Acetone for pesticide analysis

Specifications
Minimum assay (G.C.) ..... 99.8 %
IR .....IR passes test
Density 20/4 ..... 0.787-0.791

Maximum limit of impurities
APHA colour 10
Acidity .....0.0003 meq/g
Alkalinity .....0.0005 meq/g
Non-volatile matter .....0.0005 %

Water (H_2O) .....0.2 %
Signal ECD of pesticide (Lindane a DDT) (as Lindane) .....5 ng/l
Signal FID of 2-Octanol to Tetradecanol (as 2-Octanol) ..... passes test

Code	Packaging
321007.1611	1000 ml
321007.1612	2.5 l

HeBaPeaKTMB

481007 Acetone dry (max. 0.01 % water)

Specifications
Minimum assay (G.C.) .....99 %
Identity .....IR passes test
Density 20/4 ..... 0.787-0.791

Maximum limit of impurities
APHA colour 10
Acidity .....0.0003 meq/g
Alkalinity .....0.0005 meq/g
Insoluble matter in H_2O ..... passes test
Reducing substance to $KMnO_4$
(as O) ..... 0.0002 %
1-Propanol (G.C.) .....0.05 %
2-Propanol (G.C.) .....0.05 %
Aldehydes (as HCHO) .....0.005 %
Ethanol (G.C.) .....0.01 %
Mesityl oxide (G.C.) .....0.05 %
Methanol (G.C.) .....0.05 %
Water (H_2O) .....0.01 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As 0.05
B 0.02
Be 0.02
Ca 0.5
Al 0.5
Au 0.05
Ba 0.1
Bi 0.05
Cd 0.05
Co 0.02
Cu 0.02
Ga 0.02
Hg 0.05
K..... 0.1
Mg 0.1
Mo 0.02
Cr..... 0.02
Fe..... 0.1
Ge..... 0.05
In..... 0.05
Li..... 0.05
Mn..... 0.02

Code	Packaging
481007.1611	1000 ml

131007 Acetone (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) .....99.5 %
Identity .....IR passes test
Density 20/20 ..... 0.790-0.793
Range of Boiling .....≤ 1.5 °C

Maximum limit of impurities
APHA colour 10
Acidity .....0.0003 meq/g
Alkalinity .....0.0005 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$
(as O) ..... 0.0002 %
1-Propanol (G.C.) .....0.05 %
2-Propanol (G.C.) .....0.05 %
4-Hydroxy-4-Methyl-2-Pentanone
(G.C.) .....0.05 %
Aldehydes (as HCHO) .....0.002 %
Ethanol (G.C.) .....0.01 %
Mesityl oxide (G.C.) .....0.05 %
Methanol (G.C.) .....0.05 %
Water (H_2O) .....0.2 %

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.05
As..... 0.05
B..... 0.02
Be..... 0.02
Ca 0.5
Co 0.02
Cu 0.02
Ga 0.02
Hg 0.05
K..... 0.1
Al..... 0.5
Au 0.05
Ba 0.1
Bi..... 0.05
Cd 0.05
Cr..... 0.02
Fe..... 0.1
Ge..... 0.05
In..... 0.05
Li..... 0.05

Code	Packaging
131007.1211	1000 ml
131007.1611	1000 ml
131007.1212	2.5 l
131007.1612	2.5 l
131007.1214	5 l
131007.0515	10 l
131007.0715	10 l
131007.0516	25 l
131007.0716	25 l
131007.0537	30 l

631007 Acetone (Ph. Eur, BP, USP-NF) GMP - IPEC grade

Specifications
Minimum assay (G.C.) .....99.0 %
Identity according to Pharmacopoeias:
(A Ph. Eur / USP) ..... passes test
(B Ph. Eur / USP) ..... passes test
(C Ph. Eur) ..... passes test
Density 25/25 .....≤ 0.789
Density 20/20 ..... 0.790-0.793

Maximum limit of impurities
Appearance of solution
Appearance Clear < formazin I ..... passes test
Appearance Colourless ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.004 %
Reducing substances ..... passes test
Easily oxidable substances ..... passes test
Related substances (G.C.)
Impurity A (CH_3OH) ..... 0.05 %
Impurity B (2-propanol) ..... 0.05 %
Impurity C (benzene) .....0.0002 %
Residual solvents (Ph. Eur./USP) .passes test
Other impurities .....0.05 %
Water (H_2O) .....0.3 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm

Code	Packaging
631007.1214	5 l
631007.9774	1000 l

141007 Acetone (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Minimum assay (G.C.) .....99.5 %
Identity according to
Pharmacopoeias: ..... passes test
Density 25/25 .....≤ 0.789
Density 20/20 ..... 0.790-0.793

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity ..... passes test
Alkalinity ..... passes test
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.004 %
Reducing substance to $KMnO_4$ .... passes test
Related substances (G.C.)
Residual solvents (Ph. Eur./USP) . passes test
Methanol .....0.05 %
2-Propanol .....0.05 %
Benzene .....0.0002 %
Other impurities .....0.05 %
Ethanol (G.C.) .....500 ppm
Water (H_2O) .....0.3 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm

Code	Packaging
141007.1211	1000 ml
141007.1611	1000 ml
141007.1212	2.5 l
141007.1612	2.5 l
141007.1214	5 l
141007.0715	10 l
141007.0716	25 l
141007.0816	25 l
141007.0519	200 l
141007.0719	200 l

161007 Acetone, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) .....99.5 %
Identity .....IR passes test
Density 20/4 ..... 0.787-0.791
Non-volatile matter ..... 0.002 %
Water (H_2O) .....0.3 %

Code	Packaging
161007.1211	1000 ml
161007.1212	2.5 l
161007.1214	5 l
161007.1714	5 l
161007.0616	25 l

211007 Acetone technical grade

Specifications
Assay (G.C.) .....99.5 %
Density 20/4 ..... 0.787-0.791
Acidity .....0.008 meq/g
Alkalinity .....0.006 meq/g
Water (H_2O) .....0.3 %

Code	Packaging
211007.1211	1000 ml
211007.1212	2.5 l
211007.1214	5 l
211007.0715	10 l
211007.0616	25 l
211007.0716	25 l
211007.9774	1000 l

A3855 Acetone BioChemica

Specifications
Assay (G.C.) .....min. 99.5 %
Acidity/Alkalinity .....max. 0.0005 meq/g
Heavy metals (as Pb) ..... max. 0.0001 %
Non-volatile matter ..... max. 0.001 %
Aldehydes ..... max. 0.002 %
Ethanol ..... max. 0.01 %
Methanol .....max. 0.05 %
Water (K.F.) .....max. 0.25 %

Code	Packaging
A3855,1000	1 L
A3855,2500	2.5 L

Acetone Chloroform see 1,1,1-Trichloro-2-Methyl-2-Propanol 1/2-hydrate

Acetonitrile

Cyanomethane, Methyl Cyanide, Ethanenitrile

CH_3CN
M = 41.05 g/mol
CAS 75-05-8
EINECS 200-835-2
CS 29269095
Index Nr. 608-001-00-3

Melting Point ..... -46 °C
Boiling Point ..... 81 °C
Density ..... 0.786 kg/l (20 °C)
Refractive Index n20/D 1.3442
Liquid

UN1648
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H225 H302+H312+H332 H319

721881 Acetonitrile for UHPLC Hypergradient

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Density 20/4 ..... 0.779-0.783
Suitability: for pesticide analysis
(HPLC UV detection) ..... passes test
Suitability: for PAH analysis
(HPLC fluorescence detection) ..... passes test
Suitability: for fluorescence detection
(NIST SRM 1647B) ..... passes test

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.0001 %
Water (H_2O) ..... 0.01 %
Gradient at 210 nm ..... 1 mUA
Gradient at 254 nm ..... 0.5 mUA
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 190 nm ..... ≥ 30 %
Transmittance at 193 nm ..... ≥ 60 %
Transmittance at 195 nm ..... ≥ 85 %
Transmittance at 200 nm ..... ≥ 96 %
Transmittance at 215 nm ..... ≥ 98 %
Transmittance at 230-400 nm ..... ≥ 99 %
Data of interest in HPLC:
UV-Cut off ..... 190 nm
Rohrschneider Polarity 5.8
Eluotropic value e° (Al_2O_3) 0.65
Sol. H_2O in solv. at 20 °C ..... miscible
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
721881.1612	2.5 l

701881 Acetonitrile for LC-MS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Density 20/4 ..... 0.779-0.783
Suitability: for LC-MS ..... passes test

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.0001 %
Base line drift (210 nm) ..... 10 mUA
Water (H_2O) ..... 0.01 %
Gradient at 210 nm ..... 1 mUA
Gradient at 254 nm ..... 0.2 mUA
Fluorescence at 254 nm (as quinine) ..... 1 ppb
Fluorescence at 365 nm
(as quinine) ..... 0.5 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 190 nm ..... ≥ 30 %
Transmittance at 193 nm ..... ≥ 60 %
Transmittance at 195 nm ..... ≥ 80 %
Transmittance at 200 nm ..... ≥ 90 %
Transmittance at 230-400 nm ..... ≥ 98 %

Metals [in mg/Kg (ppm)]

Ag	0.05	Al	0.5
Ba	0.1	Ca	0.05
Cd	0.05	Co	0.02
Cr	0.02	Cu	0.02
Fe	0.1	K	0.1
Mg	0.1	Mn	0.02
Na	0.1	Ni	0.02
Pb	0.1	Sn	0.1
Zn	0.1		

Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
701881.1611	1000 ml
701881.1612	2.5 l
701881.0537	30 l

221881 Acetonitrile for UHPLC Supergradient, ACS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Density 20/4 ..... 0.779-0.783
Suitability: for gradient
acc. to ACS ..... passes test

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.0001 %
Base line drift (210 nm) ..... 10 mUA
Water (H_2O) ..... 0.015 %
Gradient at 210 nm ..... 1 mUA
Gradient at 254 nm ..... 0.5 mUA
Fluorescence at 254 nm (as quinine) ..... 1 ppb
Fluorescence at 365 nm
(as quinine) ..... 0.5 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 190 nm (Cut off) ..... ≥ 30 %
Transmittance at 193 nm ..... ≥ 60 %
Transmittance at 195 nm ..... ≥ 80 %
Transmittance at 200 nm ..... ≥ 90 %
Transmittance at 230-400 nm ..... ≥ 98 %
Data of interest in HPLC:
Rohrschneider Polarity 5.8
Eluotropic value e° (Al_2O_3) 0.65
Sol. H_2O in solv. at 20 °C ..... miscible
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
221881.1611	1000 ml
221881.1612	2.5 l
221881.1646	4 l
221881.0314	5 l
221881.0515	10 l
221881.0516	25 l
221881.0537	30 l
221881.0519	200 l
221881.0574	1000 l

361881 Acetonitrile for UV, IR, HPLC, ACS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 0.779-0.783

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.0004 %
Base line drift (210 nm) ..... 10 mUA
Suitability for gradient
according to ACS ..... passes test
Water (H_2O) ..... 0.02 %
Suitability for IR spectrometry: ..... passes test
Gradient at 210 nm ..... 1 mUA
Gradient at 254 nm ..... 0.5 mUA
Fluorescence at 254 nm (as quinine) ..... 1 ppb
Fluorescence at 365 nm (as quinine) ..... 1 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 190 nm (Cut off) ..... ≥ 10 %
Transmittance at 193 nm ..... ≥ 55 %
Transmittance at 195 nm ..... ≥ 70 %
Transmittance at 200 nm ..... ≥ 90 %
Transmittance at 230-400 nm ..... ≥ 98 %
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361881.1611	1000 ml
361881.1612	2.5 l
361881.0314	5 l

261881 Acetonitrile for HPLC preparative

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 0.779-0.783

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.05 %
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 210 nm ..... ≥ 80 %
Transmittance at 220 nm ..... ≥ 90 %
Transmittance at 240-400 nm ..... ≥ 98 %
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
261881.1612	2.5 l
261881.0314	5 l
261881.0537	30 l

321881 Acetonitrile for pesticide analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 0.779-0.783

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.0003 %
Water (H_2O) ..... 0.02 %
Signal ECD of pesticide (Lindane a DDT)
(as Lindane) ..... 5 ng/l
Signal FID of 2-Octanol to Tetradecanol
(as 2-Octanol) ..... passes test

Code	Packaging
321881.1612	2.5 l

481881 Acetonitrile dry (max. 0.005 % water), ACS

Specifications
Minimum assay (G.C.) ..... 99.7 %
Identity ..... IR passes test
Density 20/4 ..... 0.779-0.783

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0001 meq/g
Insoluble matter ..... passes test
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$ ..... passes test
Acrylonitrile (G.C.) ..... 0.05 %
Allyl Alcohol (G.C.) ..... 0.05 %
Benzene (G.C.) ..... 0.05 %
Hydrogen Cyanide (HCN) ..... 0.005 %
Propionitrile (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5
As	0.05	Au	0.05
B	0.02	Ba	0.1
Be	0.02	Bi	0.05
Ca	0.05	Cd	0.05
Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Ga	0.02	Ge	0.05
Hg	0.05	In	0.05
K	0.1	Li	0.05
Mg	0.1	Mn	0.02
Mo	0.02		

Code	Packaging
481881.1611	1000 ml
481881.1612	2,5 l

131881 Acetonitrile (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) .....99.7 %
Identity .....IR passes test
Density 20/4 ..... 0.779-0.783

Maximum limit of impurities
APHA colour 10
Acidity .....0.0005 meq/g
Alkalinity .....0.0001 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$ .... passes test
Acrylonitrile (G.C.) ..... 0.05 %
Allyl Alcohol (G.C.) ..... 0.05 %
Benzene (G.C.) ..... 0.05 %
Hydrogen Cyanide (HCN) ..... 0.005 %
Propionitrile (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As 0.05
B 0.02
Be 0.02
Al 0.5
Au 0.05
Ba 0.1
Bi 0.05
Ca 0.05
Co 0.02
Cu 0.02
Ga 0.02
Hg 0.05
K..... 0.1
Mg 0.1
Mo 0.02
Cd 0.05
Cr 0.02
Fe..... 0.1
Ge 0.05
In..... 0.05
Li 0.05
Mn..... 0.02

Code	Packaging
131881.1611	1000 ml
131881.1612	2.5 l

161881 Acetonitrile, 99.7 % for synthesis

Specifications
Minimum assay (G.C.) .....99.7 %
Identity .....IR passes test
Density 20/4 ..... 0.779-0.783
Non-volatile matter ..... 0.003 %
Water (H_2O) ..... 0.05 %

Code	Packaging
161881.1612	2.5 l
161881.0716	25 l
161881.0619	200 l

A0934 Acetonitrile for DNA synthesis and protein sequencing

Specifications
Assay (G.C.) .....min. 99.9 %
Acidity/Alkalinity .....max. 0.0001 meq/g
Non-volatile matter ..... max. 0.0002 %
Water (K.F.) ..... max. 0.005 %

Code	Packaging
A0934,1000	1 L

Acetoxy Valerenic Acid

Origin from *Valeriana officinalis*

$C_{17}H_{24}O_4$
M = 292.37 g/mol
CAS 81397-67-3
CS 29420000

Liquid

Storage 2-8 °C

A2051 Acetoxy Valerenic Acid for HPLC

Specifications
Assay (HPLC) .....min. 99 %

Code	Packaging
A2051,0025	25 mg
A2051,0025DOC	25 mg

3-Acetyl-11-keto-β-Boswellic Acid

3α-Acetoxy-urs-12-en-11-keto-23-oic Acid

Origin from *Boswellia serrata*

$C_{32}H_{48}O_5$
M = 512.73 g/mol
CAS 67416-61-9
CS 29420000

Solid

WGK 1
Storage 2-8 °C

A5262 3-Acetyl-11-keto-β-Boswellic Acid for HPLC

Specifications
Assay .....min. 99 %

Code	Packaging
A5262,0020	20 mg

3-Acetyl-9-11-dehydro-β-Boswellic Acid

(3α, 4β)-3-Acetoxyurs-1,12-dien-23-oic Acid

Origin from *Boswellia serrata*

$C_{32}H_{48}O_4$
M = 496.71 g/mol
CAS 122651-20-1
CS 29420000

Storage 2-8 °C

A9541 3-Acetyl-9-11-dehydro-β-Boswellic Acid for HPLC

Specifications
Assay (HPLC) .....min. 98 %

Code	Packaging
A9541,0005	5 mg
A9541,0010	10 mg

Acetyl-Coenzym A Trilithium Salt

Acetyl-S-CoA

$C_{23}H_{35}Li_3N_7O_{17}P_3S$
M = 827.37 g/mol
CAS 75520-41-1
EINECS 278-233-4
CS 29349990

Solid

Storage -20 °C

Warning



H315 H319 H335

A3753 Acetyl-Coenzym A Trilithium Salt BioChemica

Specifications
Assay (enzym.) .....min. 83 %
Assay (HPLC) ..... approx. 95 %
Loss on drying ..... max. 5 %
Solubility (1 %; H_2O) ..... clear, colorless

Code	Packaging
A3753,0050	50 mg
A3753,0100	100 mg

НеваРеактив

N-Acetyl-D-Galactosamine

N-Acetylchondrosamine, 2-Acetamido-2-deoxy-D-Galactose, D-GalNAc

$C_8H_{15}NO_6$
M = 221.21 g/mol
CAS 1811-31-0
EINECS 217-321-9
CS 29329900

Melting Point ..... 140-165 °C
Solid

WGK 3
Storage 2-8 °C

A7451 N-Acetyl-D-Galactosamine

Specifications
Assay (HPLC) ..... min. 98 %

Appearance of solution
(10 %; H_2O) ..... clear, colorless
Carbon ..... 42.6-44.3 %

Nitrogen ..... 6.1-6.5 %
Spec. Rotation (1 %; H_2O; 5 h) ..... 80-90°
Water (K.F.) ..... max. 5 %

Code	Packaging
A7451,0005	5 g

N-Acetyl-D-Glucosamine

2-Acetamido-2-deoxy-D-Glucose, D-GlcNAc

$C_8H_{15}NO_6$
M = 221.21 g/mol
CAS 7512-17-6
EINECS 231-368-2
CS 29329900

Solid

WGK 3
Storage 2-8 °C

A2554 N-Acetyl-D-Glucosamine BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 2 %, H_2O ..... 39-45°

Heavy metals (as Pb) ..... max. 0.0005 %
Loss on drying ..... max. 0.5 %
Sulfated ash ..... max. 0.1 %

Code	Packaging
A2554,0250	250 g

N-Acetyl-L-Cysteine

2-Acetamido-3-Mercaptopropionic Acid, L-a-Acetamido-b-Mercaptopropionic Acid, Mercapturic Acid

$C_5H_9NO_3S$
M = 163.19 g/mol
CAS 616-91-1
EINECS 210-498-3
CS 29309016

Solid

WGK 1
Storage RT

A4207 N-Acetyl-L-Cysteine BioChemica

Specifications
Assay ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Loss on drying ..... max. 1 %

Solubility (5 %; H_2O) ..... clear, colorless
Sulfated ash ..... max. 0.2 %

Code	Packaging
A4207,0025	25 g
A4207,0100	100 g
A4207,0500	500 g

N-Acetyl-L-Cysteine (non animal origin)

2-Acetamido-3-Mercaptopropionic Acid, L-a-Acetamido-b-Mercaptopropionic Acid, Mercapturic Acid

$C_5H_9NO_3S$
M = 163.19 g/mol
CAS 616-91-1
EINECS 210-498-3
CS 29309016

Solid

WGK 1
Storage RT

15A167 N-Acetyl-L-Cysteine, 98 % for synthesis

Specifications
Minimum assay ..... 98 %

Code	Packaging
15A167.1607	50 g

A8174 N-Acetyl-L-Cysteine BioChemica (non animal origin)

Specifications
Assay (HPLC) ..... min. 98 %
Assay (titr.) ..... min. 95 %
Heavy metals (as Pb) ..... max. 0.001 %

Loss on drying ..... max. 1 %
pH (1 %; H_2O) 2.0-2.8

Code	Packaging
A8174,0500	500 g
A8174,5000	5 kg
A8174,9010	10 kg

Acetyl-S-CoA see Acetyl-Coenzym A Trilithium Salt

Acetylacetone see 2,4-Pentanedione

Acetylene Tetrachloride see 1,1,2,2-Tetrachloroethane

N-Acetylneuraminic Acid see Sialic Acid

Acetylthiocholine Iodide

S-Acetylthiocholine Iodide

$C_7H_{16}INOS$
M = 289.18 g/mol
CAS 1866-15-5
EINECS 217-474-1
CS 29309099

Melting Point ..... 205-210 °C
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage 2-8 °C

Danger



H301+H311 H315 H319

A3754 Acetylthiocholine Iodide BioChemica

Specifications
Assay (titr.) ..... min. 99.5 %

IR-Spectrum ..... passes test
Solubility (10 %; H_2O) ..... clear, colorless

Code	Packaging
A3754,0025	25 g

Achromycine Hydrochloride see Tetracycline Hydrochloride

Acid Blue 22 see Aniline Blue WS (C.I. 42755)

Acid Blue 74 see Indigo Carmine (C.I. 73015)

Acid Blue 9 Disodium Salt see Brilliant Blue FCF (C.I.42090)

Acid Orange 52 see Methyl Orange (C.I. 13025)

Acid Red 18 see Cochenille Red (C.I. 16255)

Acid Red 2 see Methyl Red (C.I. 13020)

Acid Red 51 see Erythrosin B (C.I. 45430)

Acid Red 87 see Eosin Yellowish (C.I. 45380)

Acid Red 94 see Rose Bengal (C.I. 45440)

Acid Violet 19 see Fuchsin Acidic Disodium Salt (C.I. 42685)

Acid Yellow 73 see Fluorescein Sodium (C.I. 45350)

Acidimetric Liquor titrated

CS 38220000

Density .....1.010 kg/l
Liquid

UN1719
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H315

281381 Acidimetric Liquor titrated for volumetric analysis

for determination of oils and fats acidity in commercial grades. For 10 g of oil, 1 ml corresponds to 1° of acidity (= 0,1 g of oleic acid)

Composition:
Sodium Hydroxide 50 % sol. w/w ..... 2.06 ml
Water (s.q.m) ..... 100 ml

Code	Packaging
281381.1211	1000 ml

Acidimetric Liquor titrated

CS 38220000

Density .....1.006 kg/l
Liquid

WGK 1
Storage RT

281384 Acidimetric Liquor titrated for volumetric analysis

for determination of acidity in milk. 1 ml corresponds to 0,01g of lactic acid (=1° Dornic)

Specifications
Titer at 20 °C .....1.000 ± 0.005
Sodium Hydroxide ..... 0.111 mol/l

Code	Packaging
281384.1211	1000 ml
281384.1212	2.5 l
281384.1214	5 l

Acidimetric Liquor titrated

CS 38220000

Density .....1.002 kg/l
Liquid

UN1719
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H315

281380 Acidimetric Liquor titrated for volumetric analysis

for determination of oils and fats acidity. 1 ml corresponds to 0,028245 g of oleic acid

Composition:
Potassium Hydroxide 50 % w/w ..... 1.4 g
Water (s.q.m) ..... 100 ml

Code	Packaging
281380.1211	1000 ml

Acridine Orange (C.I. 46005)

Acridine Orange Zinc Chloride double Salt

$C_{17}H_{19}N_3 \cdot HCl \cdot 0{,}5ZnCl_2$
M = 369.96 g/mol
CAS 10127-02-3
EINECS 233-353-6
CS 32041300

Solubility ..... 28 g/L (H_2O)
Solid

WGK 3*
Storage RT

Warning



H341

A1398 Acridine Orange (C.I. 46005)

Specifications
λ_{max} (H_2O) ..... 490-495 nm

E 3 %/1 cm, λ_{max} .....> 1200 (H_2O)
Loss on drying ..... max. 10 %

Code	Packaging
A1398,0025	25 g

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Acriflavine Hydrochloride

3,6-Diamino-10-Methyl-Acridiniumchloride Hydrochloride, Euflavine

CAS 8063-24-9
CS 32041300

Solid

Storage RT

Danger



H302 H318

A2952 Acriflavine Hydrochloride BioChemica

Specifications
Assay (titr.) .....min. 97 %
Melting point ..... approx. 260 °C (dec.)

Code	Packaging
A2952,0250	250 g

Acrylamide crystalline

Acrylic Acid Amide

C_3H_5NO
M = 71.08 g/mol
CAS 79-06-1
EINECS 201-173-7
CS 29241900
Index Nr. 616-003-00-0

Melting Point .....82-85 °C
Solid

UN2074
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage 2-8 °C

Danger



H301 H312+H332 H315 H317 H319 H340 H350 H361f H372

A3812 Acrylamide for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
Assay (titr.) .....min. 99.9 %
Conductivity (40 %) ..... max. 10.0 µS/cm
Loss on drying .....max. 0.5 %
pH (10 %; 0.1 M NaCl; 20 °C) 5.0-7.0
Acrylic acid (titr.) .....max. 0.001 %
Fe .....max. 0.0001 %
Pb .....max. 0.0001 %
A (1 cm/10 % in H_2O)
300 nm .....max. 0.15
320 nm .....max. 0.05
430 nm .....max. 0.005

Code	Packaging
A3812,0250	250 g
A3812,0500	500 g
A3812,1000	1 kg

A1090 Acrylamide 4K ultrapure

Specifications
Assay (titr.) .....min. 99.9 %
Conductivity (40 %) ..... max. 10.0 µS/cm
Loss on drying .....max. 0.5 %
pH (10 %; 0.1 M NaCl; 20 °C) 5.0-7.0
Acrylic acid (titr.) .....max. 0.001 %
Fe .....max. 0.0001 %
Pb .....max. 0.0001 %
A (1 cm/10 % in H_2O)
300 nm ..... max. 0.15
320 nm .....max. 0.05
430 nm .....max. 0.005

Code	Packaging
A1090,0100	100 g
A1090,0500	500 g
A1090,1000	1 kg

A1089 Acrylamide 2K Standard grade, extrapure

Specifications
Assay (titr.) .....min. 98 %
Conductivity (40 %) ..... max. 100 µS/cm
Loss on drying .....max. 0.5 %
pH (10 %; 0.1 M NaCl; 20 °C) 5.0-7.0
Acrylic acid (titr.) ..... max. 0.05 %
Cu ..... max. 0.001 %
A (1 cm/10 % in H_2O)
300 nm ..... max. 0.3
320 nm ..... max. 0.1
430 nm ..... max. 0.01

Code	Packaging
A1089,0500	500 g
A1089,1000	1 kg
A1089,5000	5 kg
A1089,9025	25 kg

Acrylamide solution (30 %)

CS 38220000
Index Nr. 616-003-00-0
Aqueous solutions

Liquid

UN3426
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301 H312+H332 H315 H317 H319 H340 H350 H361f H372

A1154 Acrylamide 4K solution (30 %)

Specifications
Acrylic Acid (titr.) ..... max. 0.001 %

Composition:
Acrylamide 4K ..... 300 g/L

Code	Packaging
A1154,1000	1 L

Acrylamide solution (30 %) - Mix 29 : 1

CS 38220000
Index Nr. 616-003-00-0
Aqueous solutions

Liquid

UN3426
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301 H312+H332 H315 H317 H319 H340 H350 H361f H372

A4983 Acrylamide solution (30 %) - Mix 29 : 1 for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
Acrylic Acid (titr.) ..... max. 0.001 %

Composition:
Acrylamide .....290.0 g/L
Bisacrylamide ..... 10.0 g/L

Code	Packaging
A4983,0250	250 ml
A4983,0500	500 ml
A4983,1000	1 L

A0951 Acrylamide 4K solution (30 %) - Mix 29 : 1

Specifications
Acrylic Acid (titr.) ..... max. 0.001 %

Composition:
Acrylamide 4K .....290.0 g/L
Bisacrylamide 4K ..... 10.0 g/L

Code	Packaging
A0951,0500	500 ml
A0951,1000	1 L

Acrylamide solution (30 %) - Mix 37.5 : 1

CS 38220000
Index Nr. 616-003-00-0
Aqueous solutions

Liquid

UN3426
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301 H312+H332 H315 H317 H319 H340 H350 H361f H372

A3626 Acrylamide solution (30 %) - Mix 37.5 : 1 for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Acrylic acid (titr.) .....max. 0.001 %

Composition:
Acrylamide ..... 292.2 g/L
Bisacrylamide ..... 7.8 g/L

Code	Packaging
A3626,0250	250 ml
A3626,0500	500 ml
A3626,1000	1 L

A1672 Acrylamide 4K solution (30 %) - Mix 37.5 : 1

Specifications
Acrylic Acid (titr.) .....max. 0.001 %

Composition:
Acrylamide 4K ..... 292.2 g/L
Bisacrylamide 4K ..... 7.8 g/L

Code	Packaging
A1672,0500	500 ml
A1672,1000	1 L

Acrylamide solution (40 %)

CS 38220000
Index Nr. 616-003-00-0
Aqueous solutions

Liquid

UN3426
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301 H312+H332 H315 H317 H319 H340 H350 H361f H372

A3632 Acrylamide solution (40 %) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Acrylic acid (titr.) .....max. 0.001 %

Composition:
Acrylamide ..... 400 g/L

Code	Packaging
A3632,0500	500 ml
A3632,1000	1 L

A0962 Acrylamide 4K solution (40 %)

Specifications
Acrylic Acid (titr.) .....max. 0.001 %

Composition:
Acrylamide 4K ..... 400 g/L

Code	Packaging
A0962,1000	1 L

Acrylamide solution (40 %) - Mix 19 : 1

CS 38220000
Index Nr. 616-003-00-0
Aqueous solutions

Liquid

UN3426
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301 H312+H332 H315 H317 H319 H340 H350 H361f H372

A3658 Acrylamide solution (40 %) - Mix 19 : 1 for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Acrylic Acid (titr.) .....max. 0.001 %

Composition:
Acrylamide ..... 380.0 g/L
Bisacrylamide ..... 20.0 g/L

Code	Packaging
A3658,0500	500 ml
A3658,1000	1 L

A1640 Acrylamide 4K solution (40 %) - Mix 19 : 1

Specifications
Acrylic Acid (titr.) .....max. 0.001 %

Composition:
Acrylamide 4K ..... 380.0 g/L
Bisacrylamide 4K ..... 20.0 g/L

Code	Packaging
A1640,0500	500 ml
A1640,1000	1 L

Acrylamide solution (40 %) - Mix 29 : 1

CS 38220000
Index Nr. 616-003-00-0
Aqueous solutions

Liquid

UN3426
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301 H312+H332 H315 H317 H319 H340 H350 H361f H372

A0385 Acrylamide solution (40 %) - Mix 29 : 1 for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Acrylic acid (titr.) .....max. 0.001 %

Composition:
Acrylamide ..... 38.67 %
Bisacrylamide ..... 1.33 %

Code	Packaging
A0385,0500	500 ml
A0385,1000	1 L

A0950 Acrylamide 4K solution (40 %) - Mix 29 : 1

Specifications
Acrylic Acid (titr.) .....max. 0.001 %

Composition:
Acrylamide 4K ..... 386.7 g/L
Bisacrylamide 4K ..... 13.3 g/L

Code	Packaging
A0950,0500	500 ml
A0950,1000	1 L

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www.applichem.com or www.panreac.es

Acrylamide solution (40 %) - Mix 32 : 1

CS 38220000
Index Nr. 616-003-00-0
Aqueous solutions

Liquid

UN3426
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301 H312+H332 H315 H317 H319 H340 H350 H361f H372

A0946 Acrylamide 4K solution (40 %) - Mix 32 : 1

Specifications
Acrylic Acid (titr.) ..... max. 0.001 %

Composition:
Acrylamide 4K ..... 387.9 g/L
Bisacrylamide 4K ..... 12.1 g/L

Code	Packaging
A0946,1000	1 L

Acrylamide solution (40 %) - Mix 37.5 : 1

CS 38220000
Index Nr. 616-003-00-0
Aqueous solutions

Liquid

UN3426
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301 H312+H332 H315 H317 H319 H340 H350 H361f H372

A4989 Acrylamide solution (40 %) - Mix 37.5 : 1 for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Acrylic Acid (titr.) ..... max. 0.001 %

Composition:
Acrylamide ..... 389.6 g/L
Bisacrylamide ..... 10.4 g/L

Code	Packaging
A4989,0500	500 ml
A4989,1000	1 L

A1577 Acrylamide 4K solution (40 %) - Mix 37.5 : 1

Specifications
Acrylic Acid (titr.) ..... max. 0.001 %

Composition:
Acrylamide 4K ..... 389.6 g/L
Bisacrylamide 4K ..... 10.4 g/L

Code	Packaging
A1577,0500	500 ml
A1577,1000	1 L

Acrylamide solution (40 %) - Mix 49 : 1

CS 38220000
Index Nr. 616-003-00-0
Aqueous solutions

Liquid

UN3426
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301 H312+H332 H315 H317 H319 H340 H350 H361f H372

A9546 Acrylamide 4K solution (40 %) - Mix 49 : 1 for SSCP

SSCP..."single-strand conformation polymorphism"

Specifications
Acrylic Acid (titr.) ..... max. 0.05 %

Composition:
Acrylamide 4K ..... 392.0 g/L
Bisacrylamide 4K ..... 8.0 g/L

Code	Packaging
A9546,0500	500 ml

Actein

Origin from *Cimicifuga racemosa*

$C_{37}H_{56}O_{11}$
M = 676.84 g/mol
CAS 18642-44-9
CS 29420000

Solid

Storage 2-8 °C

A5263 Actein for HPLC

Specifications
Assay ..... min. 99 %

Code	Packaging
A5263,0020	20 mg

Acteoside

Vebascoside

Origin from *Paulownia tormentosa*

$C_{29}H_{36}O_{15}$
M = 624.59 g/mol
CAS 61276-17-3
CS 29420000

Solid

Storage 2-8 °C

A5265 Acteoside for HPLC

Specifications
Assay ..... min. 98 %

Code	Packaging
A5265,0020	20 mg

Actidion see Cycloheximide

HebaPeaKTMB

Actinomycin D

Actinomycin C_1

$C_{62}H_{86}N_{12}O_{16}$
M = 1255.45 g/mol
CAS 50-76-0
EINECS 200-063-6
CS 29419000

Melting Point .....241-243 °C (dec.)
Solid

UN2811
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 3
Storage RT
Storage protected from light

Danger



H300

A1489 Actinomycin D BioChemica

Specifications
Assay (HPLC) .....min. 92 %
Loss on drying .....max. 5.0 %

Code	Packaging
A1489,0005	5 mg

Adenine

6-Aminopurine

$C_5H_5N_5$
M = 135.13 g/mol
CAS 73-24-5
EINECS 200-796-1
CS 29335995

Melting Point ..... approx. 350 °C
Solid

WGK 1
Storage RT

Danger



H301

A0939 Adenine BioChemica

Specifications
Assay (HPLC) .....min. 99 %
λ_{max} ..... 259-265 nm
E 1 %/1 cm, λ_{max}; 0.1 M HCl 950-1050

Heavy metals (as Pb) ..... max. 0.001 %
As ..... max. 0.0001 %

Code	Packaging
A0939,0025	25 g
A0939,0100	100 g

Adenine Deoxyriboside see 2'-Deoxyadenosine 1-hydrate

Adenine Sulfate

$(C_5H_5N_5)_2 \cdot H_2SO_4$
M = 368.34 g/mol
CAS 321-30-2
EINECS 206-286-5
CS 29335995

Melting Point .....205-215 °C
Solid

Storage RT

A1596 Adenine Sulfate BioChemica

Specifications
Assay (TLC) .....min. 99 %
Appearance ..... white - light yellow powder
Pb .....max. 0.001 %

Code	Packaging
A1596,0025	25 g
A1596,0100	100 g

Adenine-9- see Adenosine

Adenosine

Adenine-9-β-D-Ribofuranoside

$C_{10}H_{13}N_5O_4$
M = 267.25 g/mol
CAS 58-61-7
EINECS 200-389-9
CS 29349990

Melting Point .....234-236 °C
Solid

WGK 1
Storage RT

A0833 Adenosine BioChemica

Specifications
Assay (HPLC) .....min. 99 %

E 1 %/1 cm, λ_{max} .....560-580 (phosphate ..... buffered at pH 7.0)
Heavy metals (as Pb) ..... max. 0.001 %

Code	Packaging
A0833,1000	1 kg

Adenosine 5'-Diphosphoric Acid Disodium Salt 2-hydratet

ADP Disodium Salt 2-hydrate, ADP-Na_2

$C_{10}H_{13}N_5Na_2O_{10}P_2 \cdot 2H_2O$
M = 507.20 g/mol
CAS 16178-48-6
EINECS 240-314-7
CS 29349990

Solid

Storage -20 °C

A0948 Adenosine 5'-Diphosphoric Acid Disodium Salt 2-hydrate BioChemica

Specifications
Assay (HPLC) .....min. 95 %
AMP .....max. 2 %

ATP ..... max. 1 %
Loss on drying (105 °C; 2 h) ..... max. 10 %

Code	Packaging
A0948,0001	1 g
A0948,0005	5 g

Adenosine 5'-Monophosphoric Acid Disodium Salt

AMP Disodium Salt 2-hydrate, AMP-Na_2

$C_{10}H_{12}N_5Na_2O_7P \cdot 2H_2O$
M = 427.22 g/mol
CAS 34369-07-8
EINECS 224-961-2
CS 29349990

Solid

Storage 2-8 °C

A1622 Adenosine 5'-Monophosphoric Acid Disodium Salt BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 1 %, H_2O ..... -44°--47°
Heavy metals (as Pb) ..... max. 0.001 %
Water (K.F.) ..... max. 26 %

Code	Packaging
A1622,0010	10 g

Adenosine 5'-Triphosphoric Acid Disodium Salt

ATP Disodium Salt, ATP-Na_2

$C_{10}H_{14}N_5Na_2O_{13}P_3$
M = 551.10 g/mol
CAS 987-65-5
EINECS 213-579-1
CS 29349990

Solid

WGK 1
Storage -20 °C

A1348 Adenosine 5'-Triphosphoric Acid Disodium Salt BioChemica

Specifications
Assay (HPLC) ..... min. 98 %
Heavy metals (as Pb) ..... max. 0.001 %
ADP ..... max. 1 %
AMP ..... max. 0.5 %
Water (K.F.) ..... approx. 10 %

Code	Packaging
A1348,0005	5 g
A1348,0010	10 g
A1348,0025	25 g
A1348,0100	100 g
A1348,1000	1 kg

S-(5'-Adenosyl)-L-Methionine Iodide

SAM

$C_{15}H_{23}IN_6O_5S$
M = 526.35 g/mol
CAS 3593-13-8
EINECS 222-486-5
CS 29349990

Solid

Storage -20 °C

A3761 S-(5'-Adenosyl)-L-Methionine Iodide BioChemica

Specifications
Assay (HPLC) ..... approx. 80 %

Code	Packaging
A3761,0005	5 mg

Adipic Acid

Hexanedioic Acid

$(CH_2CH_2COOH)_2$
M = 146.14 g/mol
CAS 124-04-9
EINECS 204-673-3
CS 29171200
Index Nr. 607-144-00-9

Solubility ..... 15 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H319

142342 Adipic Acid (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 99.0-101.0 %
Identity according to Pharmacopoeias: ..... passes test
Melting range ..... 151-154 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.05 %
Loss on drying at 105 °C ..... 0.2 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Related substances:
Individual ..... 0.1 %
Total ..... 0.5 %
Nitrate (NO_3) ..... 0.003 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0002 %
Cu ..... 0.002 %
Fe ..... 0.001 %
Ni ..... 0.002 %
Pb ..... 0.002 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): Vanadium and Copper compounds as metal catalyst (class 1C and 2 respectively classification) can be present. It is below to 1 ppm. It is fully in compliance with the EMEA guideline.

Code	Packaging
142342.0416	25 kg

152342 Adipic Acid for synthesis

Specifications
Assay (titr.) ..... min. 99 %
Identity (IR) ..... passes test
Melting range ..... 150-154 °C

Code	Packaging
152342.0416	25 kg

Adonitol

Ribitol, Adonite

$C_5H_{12}O_5$
M = 152.15 g/mol
CAS 488-81-3
EINECS 207-685-7
CS 29054900

Solid

WGK 1
Storage RT

A4337 Adonitol BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 10 %, H_2O ..... 0.0° ± 0.2°
Heavy metals (as Pb) ..... max. 0.001 %
Loss on drying ..... max. 0.1 % (65 °C)
Sulfated ash ..... max. 0.1 %
As ..... max. 0.00005 %
Fe ..... max. 0.0005 %

Code	Packaging
A4337,0100	100 g

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ADP Disodium Salt 2-hydrate see Adenosine 5'-Diphosphoric Acid Disodium Salt 2-hydratet

ADP-Na see Adenosine 5'-Diphosphoric Acid Disodium Salt 2-hydratet

AEBSF Hydrochloride

4-(2-Aminoethyl)-benzenesulfonyl Fluoride Hydrochloride

$C_8H_{10}FNO_2S \cdot HCl$
M = 239.69 g/mol
CAS 30827-99-7
CS 29214900

Melting Point ..... 181-185 °C
Solubility ..... 50 g/L (H_2O)
Solid

WGK 1
Storage 2-8 °C

Danger



H314

A1421 AEBSF Hydrochloride BioChemica

Specifications
Assay (HPLC) ..... min. 98 %
Assay (titr., calc. on dried substance) ..... min. 98 %
Loss on drying ..... max. 1.0 %

Code	Packaging
A1421,0100	100 mg
A1421,0250	250 mg
A1421,0500	500 mg
A1421,0001	1 g
A1421,0005	5 g
A1421,9025	25 g

Agar

Agar-Agar

CAS 9002-18-0
EINECS 232-658-1
CS 13023100

Solid

Storage RT

141792 Agar (USP-NF) pure, pharma grade

Specifications
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 1.0 %
Loss on drying at 105 °C ..... 20.0 %
Residue on ignition (as SO_4) (a.d.s.) ..... 6.5 %
Residue on ignition (Acid insoluble) (a.d.s.) ..... 0.5 %
Water absorption ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Foreign starch ..... passes test
Gelatine ..... passes test
Foreign organic matter ..... 1.0 %
Microbial limits:
Total aerobic microbial count (TAMC) ..... 1000 cfu/g
Total combined yeast and moulds (TYMC) ..... 100 cfu /g
Salmonella absence/10g
Escherichia coli ..... absence/g
Heavy metals (as Pb) ..... 0.004 %
As ..... 0.0003 %
Pb ..... 0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141792.1208	100 g
141792.1209	250 g
141792.1211	1000 g
141792.0914	5 kg

A3477 Agar for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Ash ..... max. 4 %
Gel point ..... 30-36 °C
Gel strength (1.5 %) ..... 750-1000 g/cm²
pH (1.5 %; H_2O) ..... 6.0-8.0 (60 °C)
Gelatin ..... not detectable
Starch ..... not detectable
Water ..... max. 7 %

Code	Packaging
A3477,0500	500 g

A2112 Agar, Purified Bacteriology grade

Specifications
Electroendoosmosis ..... ≤ 0.450 (EEO)
Gel point (1.5 %) ..... 32-37.5 °C
Gel strength (1.5 %) ..... 700-1200 g/cm²
Melting point ..... 80-95 °C
pH (1.5 %) 5.8-7.0

Code	Packaging
A2112,0500	500 g
A2112,1000	1 kg

A0949 Agar Bacteriology grade

suitable for the preparation of LB agar plates; very low mineral content

Specifications
Ash ..... max. 4.0 %
Gel point ..... 30-36 °C
Gel strength (1.5 %) ..... 750-1000 g/cm²
pH (1.5 %; H_2O; 60 °C) 6.0-8.0
Gelatin ..... not detectable
Starch ..... not detectable
Water (K.F.) ..... max. 7.0 %
Ca ..... max. 0.2 %
Mg ..... max. 0.1 %

Code	Packaging
A0949,0100	100 g
A0949,0250	250 g
A0949,0500	500 g
A0949,1000	1 kg
A0949,5000	5 kg

A2111 Agar Plant tissue culture grade

Specifications
Contamination with spores ..... negative
Gel point (1.5 %) ..... 35 ± 5 °C
Gel strength (1.5 %) ..... 800-1000 g/cm²
Insoluble particles ..... negative
Melting point ..... 85° ± 5 °C
pH after autoclaving ..... 6.5 ± 0.5
pH before autoclaving ..... 7.0 ± 0.5

Code	Packaging
A2111,0500	500 g
A2111,1000	1 kg

A2113 Agar Kobe I

Specifications
Ash ..... max. 1.5 %
Gel point (1.5 %) ..... 37-41 °C
Gel strength (1.5 %) ..... 800-1000 g/cm²
Heavy metals (as Pb) ..... max. 0.002 %
Loss on drying ..... max. 15 %
pH (1.5 %; H_2O) 6.0-8.0

Code	Packaging
A2113,0500	500 g
A2113,1000	1 kg

A0917 Agar powdered pure, food grade

Specifications
E. coli ..... negative
Ash (calc on dried subst.) ..... max. 6.5 %
Colony count (yeasts & moulds) ..... max. 300 CFU/g
Gel point ..... < 50 °C
Gel strength (1.5 %) ..... ≥ 750 g/cm²
Gelatine and other protein ..... passes test
Gelatine ..... passes test
H_2O-insoluble matter ..... max. 1.0 %
HCl-insoluble matter (calc. on dried subst.) ..... max. 0.5 %
Identity ..... passes test
Loss on drying (5 h; 105 °C) ..... max. 20.0 %
pH (1.5 %; H_2O) 4.0-8.0
Salmonella ..... negative
Starch ..... passes test
Threshold gel concentration ..... max. 0.25 %
Total aerobic microbial counts ..... max. 5000 CFU/g
Water absorption ..... passes test
As ..... max. 0.0003 %
Cd ..... max. 0.0001 %
Hg ..... max. 0.0001 %
Pb ..... max. 0.0005 %

Code	Packaging
A0917,0500	500 g
A0917,1000	1 kg
A0917,5000	5 kg
A0917,9025	25 kg

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

Agar Listeria Ottaviani & Agosti see Listeria Chromogenic Agar (ISO 11290-1:2004) (Prepared Plate (∅ 90 mm)) for microbiology

Agar substitute gelling agent see Gellan gum

Agaroses for Gel electrophoresis

CAS 9012-36-6
EINECS 232-731-8
CS 39139000

Solid

Storage RT

A8963 Agarose Basic

Specifications
DNases/RNases/Proteases ..... not detectable
Ash ..... ≤ 0.45 %
Clarity ..... max. 4 NTU
Electroendoosmosis (EEO) 0.14-0.16
Gel point ..... 36 ± 1.5 °C
Gel strength (1 %) ..... ≥ 1000 g/cm²
Gel strength (1.5 %) ..... ≥ 2200 g/cm²
Melting point ..... 88 ± 1.5 °C
Sulfate ..... ≤ 0.1 %

Code	Packaging
A8963,0100	100 g
A8963,0250	250 g
A8963,0500	500 g
A8963,1000	1 kg

A2114 Agarose low EEO (Agarose Standard)

Specifications
DNases/RNases/
Proteases ..... not detectable
Ash ..... ≤ 0.5 %
Electroendoosmosis (EEO) 0.09-0.13
Gel point (1.5 %) ..... 36 ± 1.5 °C
Gel strength (1 %) ..... ≥ 1200 g/cm²
Gel strength (1.5 %) ..... ≥ 2300 g/cm²
Melting point ..... 88 ± 1.5 °C
Moisture ..... ≤ 10 %
Sulfate ..... ≤ 0.2 %

Code	Packaging
A2114,0100	100 g
A2114,0250	250 g
A2114,0500	500 g
A2114,1000	1 kg

A2116 Agarose medium EEO

Specifications
DNases/RNases/Proteases ..... not detectable
Ash ..... ≤ 0.5 %
Electroendoosmosis (EEO) 0.16-0.19
Gel point (1.5 %) ..... 36 ± 1.5 °C
Gel strength (1 %) ..... ≥ 750 g/cm²
Gel strength (1.5 %) ..... ≥ 2000 g/cm²
Melting point ..... 88 ± 1.5 °C
Moisture ..... ≤ 7 %
Sulfate ..... ≤ 0.25 %

Code	Packaging
A2116,0100	100 g
A2116,0500	500 g

A2115 Agarose high EEO

Specifications
DNases/RNases/Proteases ..... not detectable
Ash ..... ≤ 1.1 %
Electroendoosmosis (EEO) 0.23-0.26
Gel point (1.5 %) ..... 36 ± 1.5 °C
Gel strength (1 %) ..... ≥ 750 g/cm²
Gel strength (1.5 %) ..... ≥ 1000 g/cm²
Melting point ..... 88 ± 1.5 °C
Moisture ..... ≤ 7 %
Sulfate ..... ≤ 0.25 %

Code	Packaging
A2115,0500	500 g

A3762 Agarose Low Melt Large DNA grade

Specifications
DNases/RNases/Proteases ..... not detectable
Ash ..... ≤ 0.4 %
Digestion by agarase ..... passes test
Electroendoosmosis (EEO) ..... ≤ 0.12
Gel point (1.5 %) ..... 24-28 °C
Gel strength (1 %) ..... ≥ 250 g/cm²
Melting point (1.5 %) ..... ≤ 65.5 °C
Moisture ..... ≤ 7 %
Sulfate ..... ≤ 0.1 %

Code	Packaging
A3762,0025	25 g

A1091 Agarose MP

Specifications
DNases/RNases/Proteases ..... not detectable
Ash ..... ≤ 0.25 %
Electroendoosmosis (EEO) ..... ≤ 0.12
Gel point ..... 36 ± 1.5 °C
Gel strength (1 %) ..... ≥ 1800 g/cm²
Gel strength (1.5 %) ..... ≥ 3200 g/cm²
Melting point ..... 88 ± 1.5 °C
Moisture ..... ≤ 7 %
Sulfate ..... ≤ 0.12 %

Code	Packaging
A1091,0100	100 g
A1091,0250	250 g
A1091,0500	500 g

Agnusid

1-p-Hydroxybenzoylaucubin

Origin from *Vitex agnus castus*

$C_{22}H_{26}O_{11}$
M = 466.38 g/mol
CAS 11027-65-7
CS 29420000

Solid

Storage 2-8 °C

A6904 Agnusid HPLC grade

Specifications
Assay ..... min. 98 %

Code	Packaging
A6904,0020	20 mg

ALA see 5-Aminolevulinic Acid Hydrochloride

β-Alanine

3-Aminopropionic Acid

$C_3H_7NO_2$
M = 89.09 g/mol
CAS 107-95-9
EINECS 203-536-5
CS 29224920

Melting Point ..... 200 °C (dec.)
Density ..... 1.44 g/cm³
Solubility ..... 545 g/L (H_2O)
Solid

WGK nwg
Storage RT

A2123 β-Alanine BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
pH (1 M; H_2O; 20 °C) 6.0-7.5
Solubility (1 M; H_2O; 20 °C) ..... clear, colorless

Code	Packaging
A2123,1000	1 kg

L-Alanine

2-Aminopropionic Acid, (2S)-Aminopropionic Acid, (S)-(+)-Alanine

$CH_3CH(NH_2)COOH$
M = 89.09 g/mol
CAS 56-41-7
EINECS 200-273-8
CS 29224985

Solubility ..... 166.5 g/L (H_2O)
Solid

Storage RT

142043 L-Alanine (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Perchl. Ac.)
calc. a.d.s. ..... 98.5-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 5.5-7.0
T.L.C. ..... passes test
Specific rotation α n20/D c=10
(in HCl 6 mol/l) ..... 13.7-15.1°

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... passes test
Loss on drying at 105 °C ..... 0.2 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.02 %
Ammonium (NH_4) ..... 0.02 %
Sulfate (SO_4) ..... 0.03 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1.300 ppm
As ..... 0,00015 %
Fe ..... 0,001 %

Code	Packaging
142043.0914	5 kg

A3690 L-Alanine BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 10 %, 6 M HCl ..... 13.7-15.1°
Heavy metals (as Pb) ..... max. 0.001 %

Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %

Code	Packaging
A3690,0100	100 g
A3690,1000	1 kg

A1688 L-Alanine (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc
on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 10 %, HCl 250 g/L, calc
on dried subst. ..... 13.5-15.5°
α25 °C/D; 10 %, 6 M HCl ..... 13.7-15.1°

Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.2 %
pH (5 %; H_2O; 25 °C) 5.5-7.0
Sulfated ash ..... max. 0.1 %

Ninhydrin-positive substances ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.001 %

Code	Packaging
A1688,0100	100 g

L-Alanyl-L-Glutamine

$C_8H_{15}N_3O_4$
M = 217.23 g/mol
CAS 39537-23-0
CS 29241900

Solid

Storage RT

A3198 L-Alanyl-L-Glutamine for cell culture

• This product is of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... min. 98 %
α20 °C/D; 1 %; H_2O ..... 8-12°

Heavy metals (as Pb) ..... max. 0.001 %
Loss on drying ..... max. 1.0 %
pH (5 %; H_2O) ..... 5.0-6.0 (20 °C)
Residue on ignition ..... max. 0.1 %

Chloride ..... max. 0.02 %
As ..... max. 0.0002 %

Code	Packaging
A3198,0100	100 g
A3198,1000	1 kg
A3198,2000	2 kg

Albumin

Origin from bovine serum

CAS 9048-46-8
EINECS 292-322-5
CS 35029070

Solid

Storage 2-8 °C

A0849 Albumin for microbiology

Specifications
Proteases ..... not detectable
Assay (Protein) ..... min. 99 %

Heavy metals ..... max. 0.002 %
Loss on drying ..... max. 5 %
pH (10 %; H_2O; 20 °C) 5.5-7.5

Sulfated ash ..... max. 3 %
Fatty acids ..... max. 0.02 %

Code	Packaging
A0849,0050	50 g

Albumin - H1

Origin from bovine serum

CAS 9048-46-8
EINECS 292-322-5
CS 35029070

Solid

Storage 2-8 °C

A0847 Albumin - H1

Specifications
Assay (Protein) ..... min. 98 %
Heavy metals ..... max. 0.2 %

Loss on drying ..... max. 5 %
pH (1 %; 0.15 M NaCl; 20 °C) ..... approx. 7.0
Sulfated ash ..... max. 3 %

Fatty acids ..... max. 0.02 %
Immunoglobulins ..... not detectable

Code	Packaging
A0847,0050	50 g

Albumin - H2

Origin from bovine serum

CAS 9048-46-8
EINECS 292-322-5
CS 35029070

Solid

Storage 2-8 °C

A0848 Albumin - H2

Specifications
Assay (Protein) ..... min. 98 %
Heavy metals ..... max. 0.001 %
Loss on drying ..... max. 5 %
pH (10 %; H_2O; 20 °C) 6.5-7.5
Fatty acids ..... not detectable
Immunoglobulins ..... not detectable

Code	Packaging
A0848,0050	50 g

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

НевАреактив

Albumin crystallized

Origin from bovine serum

CAS 9048-46-8
EINECS 292-322-5
CS 35029020

Solid

Storage 2-8 °C

A0846 Albumin crystallized

Specifications
Assay (Protein) .....min. 98 %
Heavy metals ..... max. 0.0005 %
pH (7 %; H_2O; 20 °C) 5.0-5.4
Sulfated ash ..... max. 0.5 %
Water (K.F.) ..... max. 5 %
Carbohydrates ..... not detectable
Fatty acids ..... not detectable
Globulins ..... not detectable

Code	Packaging
A0846,0001	1 g
A0846,0005	5 g

Albumin EIA and RIA grade

Origin from bovine serum

CAS 9048-46-8
EINECS 292-322-5
CS 35029070

Solid

Storage 2-8 °C

A0850 Albumin EIA and RIA grade

Specifications
Proteases .....not detectable
Assay (Protein) .....min. 98 %
Heavy metals ..... max. 0.0001 %
Loss on drying ..... max. 3 %
pH (10 %; H_2O; 20 °C) ..... approx. 7.2
Sulfated ash ..... max. 2 %
Fatty acids .....max. 0.01 %
Immunoglobulins ..... not detectable

Code	Packaging
A0850,0050	50 g
A0850,0500	500 g

Albumin Fraction V (pH 5.2)

Origin from bovine serum

M = approx. 68000 g/mol
CAS 9048-46-8
EINECS 292-322-5
CS 35029070

Solid

Storage 2-8 °C

A2244 Albumin Fraction V (pH 5.2)

Specifications
Assay (Protein) .....min. 96 %
pH (10 %; H_2O; 20 °C) 4.8-5.6
Protein (Albumin) .....min. 98 %
NaCl ..... max. 5 %
Water ..... max. 5 %

Code	Packaging
A2244,0050	50 g
A2244,0100	100 g
A2244,0500	500 g

Albumin Fraction V (pH 7.0)

BSA

Origin from bovine serum

M = approx. 68000 g/mol
CAS 9048-46-8
EINECS 292-322-5
CS 35029070

Solid

Storage 2-8 °C

A6588 Albumin Fraction V (pH 7.0) for Western blotting

Specifications
Proteases .....not detectable
Assay (Protein) .....min. 96 %
Heavy metals ..... max. 0.001 %
pH (7 %; H_2O) ..... 6.5-7.4 (20 °C)
Immunoglobulins ..... not detectable
NaCl ..... max. 2 %
Water (K.F.) ..... max. 5 %

Code	Packaging
A6588,0050	50 g
A6588,0100	100 g

A1391 Albumin Fraction V (pH 7.0)

Specifications
Assay (Protein) .....min. 98 %
Heavy metals ..... max. 0.001 %
Loss on drying (105 °C; 4 h) .....max. 3 %
pH (2 %; H_2O; 20 °C) 6.6-7.5
Sulfated ash .....max. 3 %
Fat .....max. 1.0 %

Code	Packaging
A1391,0025	25 g
A1391,0050	50 g
A1391,0100	100 g
A1391,0250	250 g
A1391,0500	500 g
A1391,1000	1 kg
A1391,5000	5 kg

Albumin from chicken egg

Origin from chicken egg white; Ovalbumin

M = approx. 45000 g/mol
CAS 9006-59-1
EINECS 232-692-7
CS 35021190

Solid

Storage 2-8 °C

A2245 Albumin from chicken egg

lyophilized, salt-free

Specifications
Assay (Protein) .....min. 90.5 %
Ash .....max. 4 %
Purity (Albumin) .....approx. 90 %
Water ..... max. 3 %

Code	Packaging
A2245,0005	5 g
A2245,0010	10 g

НеваРеактив

Albumin from chicken egg (crode)

Origin from chicken egg white; Ovalbumin

M = approx. 45000 g/mol
CAS 9006-59-1
EINECS 232-692-7
CS 35021190

Solid

Storage 2-8 °C

A4344 Albumin crude from chicken egg

Specifications
Assay ..... approx. 80 %
Ash .....max. 4 %
Loss on drying .....max. 8 %

Code	Packaging
A4344,0250	250 g
A4344,0500	500 g
A4344,1000	1 kg

Albumin, human

Origin from human serum

CAS 70024-90-7
EINECS 274-272-6
CS 35029070

Solid

Storage 2-8 °C

A6611 Albumin, human

Specifications
Assay (SDS-PAGE) .....min. 96 %

Code	Packaging
A6611,0001	1 g
A6611,0050	50 g

Alcian Blue 8 (C.I. 74240)

Alcian blue 8 GX, Ingrain Blue 1

$C_{56}H_{68}Cl_4CuN_{16}S_4$
M = approx. 1300 g/mol
CAS 33864-99-2
EINECS 278-333-8
CS 32041600

Solid

WGK 2
Storage RT

254584 Alcian Blue 8 GX (C.I. 74240) for clinical diagnosis

for histology. Certified by the Biological Stain Commission

Specifications
Identity .....IR passes test

Ratio λ_{max} P +/- 15 nm 0.95-1.05
A 1 %, 1 cm, λ_{max} ..... > 200
λ_{max} ABS in H_2O .....615-619 nm

Maximum limit of impurities
Loss on drying at 105 °C .....15 %

Code	Packaging
254584.1604	5 g
254584.1606	25 g

A2124 Alcian Blue 8 GS (C.I. 74240)

Specifications
λ_{max} (100 % DMSO) ..... 674-682 nm
E 1 %/1 cm, λ_{max}, (100 % DMSO) .....min. 700
Loss on drying .....max. 15 %

Code	Packaging
A2124,0005	5 g
A2124,0010	10 g
A2124,0025	25 g
A2124,0100	100 g
A2124,5000	5 kg

Alcohol Diacetone see 4-Hydroxy-4-Methyl-2-Pentanone

Alcohol-Acetone 7:3

CS 29141100

Density .....0.795 kg/l
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H319 EUH066 H336

251803 Alcohol-Acetone 7:3 for clinical diagnosis

Bleach for Gram staining

Composition:
Ethanol absolute .....70 ml
Acetone .....30 ml

Code	Packaging
251803.1209	250 ml
251803.1211	1000 ml

Alcohol-Hydrochloric 8:2

CS 28061000

Density .....0.890 kg/l
Liquid

UN2924
Class/PG 3(8)/II
ADR 3(8)/II · IMDG 3(8)/II · IATA 3(8)/II
WGK 1
Storage RT

Danger



H225 H319 H335 H315

251804 Alcohol-Hydrochloric 8:2 for clinical diagnosis

for microscopy, according to Ziehl-Neelsen

Composition:
Ethanol absolute .....80 ml
Hydrochloric Acid 35 % .....20 ml

Code	Packaging
251804.1210	500 ml

Alcohol:Ether 1:1 see Ethanol-Diethyl Ether 1:1

[illegible]ic Acid Sodium Salt

Sodium [illegible]nate

CAS 9005-38-3

CS 39131000

Solid

Storage RT

Printed on FSC® certified paper from well managed forests

A3249 Alginic Acid Sodium Salt BioChemica

Specifications
Heavy metals (as Pb) ..... max. 0.002 %
Loss on drying .....max. 15 %
pH (1 %; H_2O) 5.5-8.0
Sulfated ash .....18-27 %
Viscosity (1 %; 20 °C) .....350-550 mPas
As .....max. 0.0003 %
Pb .....max. 0.0005 %

Code	Packaging
A3249,0250	250 g
A3249,1000	1 kg
A3249,9025	25 kg

Alizarin Red S (C.I. 58005)

Alizarinsulphonic Acid Sodium Salt, Mordant Red 3, Sodium Alizarinsulphonate

$C_{14}H_7NaO_7S$
M = 342.26 g/mol
CAS 130-22-3
EINECS 204-981-8
CS 32041200
Solubility ..... water 20 g/l at 20 °C
Solubility .....alcohol 1 g/l
Solid
Storage RT

121605 Alizarin Red S (C.I. 58005) for analysis

pH and adsorption indicator 3,7 yellow; 5,2 purple red

Specifications
Identity ..... IR passes test
λ_{max} ABS in NaOH 0.1 mol/l .....553-558 nm
T.L.C. .....passes test

Maximum limit of impurities
pH transition interval: yellow 3.7
pH transition interval: red-purple 5.2
Insoluble matter in H_2O ..... passes test
Loss on drying at 135 °C .....5 %
Sensitivity as Al reagent ..... passes test

Code	Packaging
121605.1606	25 g
121605.1608	100 g

Alizarinsulfonic Acid Sodium Salt see Alizarin Red S (C.I. 58005)

Alkali Blue 6B solution

CS 38220000
Liquid
UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225

287101 Alkali Blue 6B solution for volumetric analysis

Ready-to-use indicator solution in ethanol (96 %)

Composition:
Alkali Blue 6B (A2310) .....0.1 %

Code	Packaging
287101.1610	500 ml

Alkylbenzyldimethylammonium Chloride

Benirol, Benzalkonium Chloride, Benzyldimethylalkylammonium Chloride, BTC

M = 354 -360,0 g/mol
CAS 8001-54-5
EINECS 264-151-6
CS 34021200
Index Nr. 612-140-00-5
Melting Point .....34 °C
Solubility ..... water 4,000 g/l at 20 °C
Solid
UN3259
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 2
Storage RT

Danger



H312 H302 H314 H400

191959 Alkylbenzyldimethylammonium Chloride (USP-NF) pharma grade

Specifications
Assay (Iodom.) (calc. a.a.s) .....97.0-103.0 %
Relation of alkyl compounds
Homologous C12 (min) (calc. a.a.s) .... 40.0 %
Homologous C14 (min) (calc. a.a.s) .... 20.0 %
Homologous add of C12 and C14 (min) ..... 70.0 %
Identity according to Pharmacopoeias: .....passes test

Maximum limit of impurities
Acidity or alkalinity .....passes test
Insoluble matter in H_2O .....passes test
Residue on ignition .....2.0 %
Amine and amine salts ..... passes test
Benzilic alcohol .....0.5 %
Benzaldehyde ..... 0.15 %
Chloromethylbenzene ..... 0.05 %
Water (H_2O) .....15 %

Code	Packaging
191959.1211	1000 g

141959 Alkylbenzyldimethylammonium Chloride pure

Specifications
Assay (Iodom.) (calc. a.a.s) .....97.0-103.0 %
Relation of alkyl compounds
Homologous C12 (min) (calc. a.a.s) .... 40.0 %
Homologous C14 (min) (calc. a.a.s) .... 20.0 %
Homologous add of C12 and C14 (min) .....70.0 %
Insoluble matter in H_2O .....passes test
Residue on ignition .....2.0 %
Amine and amine salts .....passes test
Benzilic alcohol .....0.5 %
Benzaldehyde ..... 0.15 %
Chloromethylbenzene ..... 0.05 %
Water (H_2O) .....15 %

Code	Packaging
141959.1210	500 g
141959.1214	5 kg

Alkyltrimethylammonium Bromide see Dodecyltrimethylammonium Bromide

Allyl Glucosinolate see Sinigrin 1-hydrate

Allylthiourea solution (1 g/L)

CS 38220000
Liquid
Storage RT

177137 Allylthiourea solution (1 g/L) for BOD determination

Aqueous solution according to DEV H 51 5.11

Code	Packaging
177137.1209	250 ml

Aloa, Agar see Listeria Chromogenic Agar (ISO 11290-1:2004) (Prepared Plate (∅ 90 mm)) for microbiology

Alphazurine FG see Brilliant Blue FCF (C.I.42090)

Iron Ammonium saturated solution

Iron Ammonium Iron(III) Ammonium Sulfate

$NH_4Fe(SO_4)_2 \cdot 12H_2O$
M = 482.19 g/mol
CAS 7783-83-7
EINECS 233-382-4
CS 28333000
Density .....1.178 kg/l
Liquid
WGK 3
Storage RT

281366 Alum Iron Ammonium saturated solution for volumetric analysis

indicator for determination of chloride according to Volhard

Composition:
Ammonium Iron(III) Sulfate 12-hydrate ..... 50 g
Sulfuric Acid 96 % ..... 0.1 ml
Water (s.q.m) ..... 100 ml

Code	Packaging
281366.1209	250 ml

Alumina see Aluminium Oxide Basic

Aluminium Ammonium Sulfate 12-hydrate

Ammonium Alum, Ammonium Aluminium Sulfate

$NH_4Al(SO_4)_2 \cdot 12H_2O$
M = 453.33 g/mol
CAS 7784-26-1
EINECS 232-055-3
CS 28333000

Melting Point ..... 93 °C
Boiling Point ..... 200 °C
Solubility ..... water 150 g/l at 20 °C
Solid

WGK 1
Storage RT

141102 Aluminium Ammonium Sulfate 12-hydrate (USP) pure, pharma grade

Specifications
Assay (Compl.) calc. a.d.s. ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test
pH of 5 % solution ..... ≥ 3.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.02 %
Loss on drying at 300 °C ..... 45.0-48.0 %

Chloride (Cl) ..... 0.005 %
Phosphate (PO_4) ..... 0.005 %
Residual solvents (Ph. Eur./USP) . passes test
Alkali and alkaline-earth salts ..... 0.5 %
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
As ..... 0.0002 %
Fe ..... 0.002 %

Code	Packaging
141102.0416	25 kg

Aluminium Chloride 6-hydrate

$AlCl_3 \cdot 6H_2O$
M = 241.45 g/mol
CAS 7784-13-6
EINECS 231-208-1
CS 28273200

Solubility ..... water 1,330 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H319 H315

141097 Aluminium Chloride 6-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) ..... 95.0-101.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.02 %
Ammonium (NH_4) ..... 0.05 %

Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur./USP) . passes test
Alkali and alkaline-earth metals ..... 0.5 %
Water (H_2O) ..... 42.0-48.0 %
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
As ..... 0.0003 %
Fe ..... 0.001 %

Code	Packaging
141097.1210	500 g
141097.1211	1000 g
141097.0914	5 kg
141097.0416	25 kg

Aluminium Hydroxide

Hydrargillite, Hydrated Alumina

$Al(OH)_3$
M = 78.00 g/mol
CAS 21645-51-2
EINECS 244-492-7
CS 28183000

Solubility ..... Insoluble in water
Solid

WGK nwg
Storage RT

141812 Aluminium Hydroxide pure

Specifications
Assay (Compl.) ..... 90 %
Loss on ignition ..... 32-35 %

As ..... 0.0003 %
Cu ..... 0.002 %
Fe ..... 0.01 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141812.1211	1000 g

Aluminium metal

Al
M = 26.98 g/mol
CAS 7429-90-5
EINECS 231-072-3
CS 76011000
Index Nr. 013-002-00-1

Melting Point ..... 660 °C
Boiling Point ..... 2,467 °C
Solubility ..... Insoluble in water
Solid
Grey lustrous metal

UN1396
Class/PG 4.3/II
ADR 4.3/II · IMDG 4.3/II · IATA 4.3/II
WGK nwg
Storage RT

Danger



H228 H260

141098 Aluminium metal, powder pure

Specifications
Nitrogen compounds (as N) ..... 0.005 %
Fats ..... 1 %

Cu ..... 0.05 %
Fe ..... 1.0 %

Code	Packaging
141098.1609	250 g

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Aluminium Nitrate 9-hydrate

$Al(NO_3)_3 \cdot 9H_2O$
M = 375.13 g/mol
CAS 7784-27-2
EINECS 236-751-8
CS 28342980

Melting Point ..... 73 °C
Solubility ..... water 419 g/l at 20 °C
Solid

UN1438
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage RT

Danger



H272 H319 H315

131099 Aluminium Nitrate 9-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Compl.) ..... 98.0-102.0 %
pH of 5 % solution ..... ≥ 2.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Ammonium (NH_4) ..... 0.03 %
Sulfate (SO_4) ..... 0.005 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0001 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.002 %
K ..... 0.002 %
Mg ..... 0.001 %
Mn ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131099.1210	500 g

141099 Aluminium Nitrate 9-hydrate pure

Specifications
Assay (Compl.) ..... 98.0-102.0 %
pH of 5 % solution 2.5-3.5
Insoluble matter in H_2O ..... 0.02 %
Chloride (Cl) ..... 0.005 %
Ammonium (NH_4) ..... 0.05 %
Sulfate (SO_4) ..... 0.005 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0001 %
Ca ..... 0.02 %
Cu ..... 0.001 %
Fe ..... 0.01 %
K ..... 0.05 %
Mg ..... 0.005 %
Na ..... 0.01 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141099.1211	1000 g
141099.0914	5 kg

Aluminium Oxide 90 active neutral

Al_2O_3
M = 101.94 g/mol
CAS 1344-28-1
EINECS 215-691-6
CS 28182000

Melting Point ..... 2050 °C
Density ..... 3.94 g/cm (20 °C)
Solid

Storage RT

177060 Aluminium Oxide 90 active neutral Chromatography grade

0.063-0.200 mm (70-230 mesh)

Code	Packaging
177060.1210	500 g
177060.1245	2 kg

Aluminium Oxide Basic

Alumina

Al_2O_3
M = 101.96 g/mol
CAS 1344-28-1
EINECS 215-691-6
CS 28182000

Melting Point ..... 2,070 °C
Solubility ..... Insoluble in water
Solid

WGK nwg
Storage RT

121100 Aluminium Oxide Basic (Reag. Ph. Eur.) for analysis

for chromatography in column

Specifications
pH of aqueous suspension 9-10

Maximum limit of impurities
Soluble matter in H_2O ..... 0.5 %
Loss on ignition ..... 8 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Adsorption power ..... passes test
Cu ..... 0.005 %
Fe ..... 0.005 %
Ni ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
121100.1210	500 g
121100.1211	1000 g

Aluminium Potassium Sulfate dry

Potassium Alum, Potassium and Aluminium Sulfate

$AlK(SO_4)_2$
M = 258.24 g/mol
CAS 10043-67-1
EINECS 233-141-3
CS 28333000

Solubility ..... water 50 g/l at 20 °C
Solid

WGK 1
Storage RT

211087 Aluminium Potassium Sulfate dry, powder technical grade

Specifications
Assay [as $AlK(SO_4)2$] (Compl.) ..... 70 %
pH of 5 % solution 3.0-3.5
Insoluble matter in H_2O ..... 0.05 %
Chloride (Cl) ..... 0.1 %
Ammonium (NH_4) ..... 0.03 %
As ..... 0.0002 %
Cu ..... 0.005 %
Fe ..... 0.005 %
Ni ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
211087.0416	25 kg

Aluminium Potassium Sulfate 12-hydrate

Potassium Alum, Potassium Aluminium Sulfate

$AlK(SO_4)_2 \cdot 12H_2O$
M = 474.39 g/mol
CAS 7784-24-9
EINECS 233-141-3
CS 28333000

Melting Point ..... 92 °C
Solubility ..... water 110 g/l at 20 °C
Solid

WGK 1
Storage RT

131103 Aluminium Potassium Sulfate 12-hydrate for analysis, ACS

Specifications
Assay (Compl.) ..... 98.0-102.0 %
pH of 5 % solution ..... ≥ 3.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride ..... 0.0005 %
Ammonium (NH_4) ..... 0.005 %
Phosphate (PO_4) ..... 0.0005 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0002 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.02 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131103.1211	1000 g
131103.0416	25 kg

НеВаРеАКТИВ

141103 Aluminium Potassium Sulfate 12-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 10 % solution 3.0-3.5

Maximum limit of impurities
Appearance of solution ..... passes test
Loss on drying at 400 °C ..... 43.0-46.0 %
Chloride (Cl) ..... 0.01 %
Ammonium (NH_4) ..... 0.01 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1,300 ppm
As .....0.0002 %
Fe .....0.002 %

Code	Packaging
141103.1211	1000 g
141103.0416	25 kg

Aluminium Sulfate 18-hydrate

$Al_2(SO_4)_3 \cdot 18H_2O$
M = 666.42 g/mol
CAS 7784-31-8
EINECS 233-135-0
CS 28332200

Melting Point ..... 90 °C
Solubility ..... water 600 g/l at 20 °C
Solid

WGK 1
Storage RT

191101 Aluminium Sulfate 18-hydrate (BP, Ph. Eur.) pharma grade

Specifications
Assay ($Al2(SO_4)_3$) (Compl.) ..... 51.0-59.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH sol. 2 % 2.5-4.0

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... passes test
Chloride (Cl) ..... 0.05 %
Ammonium (NH_4) ..... 0.05 %
Alkali and alkaline-earth salts ..... 0.4 %
Residual solvents (Ph. Eur.) ..... passes test
Heavy metals (as Pb) ..... 0.004 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1,300 ppm
As .....0.0003 %
Fe .....0.01 %

Code	Packaging
191101.1211	1000 g
191101.0914	5 kg
191101.0416	25 kg

141101 Aluminium Sulfate 18-hydrate pure

Specifications
Assay ($Al2(SO_4)_3$) (Compl.) ..... 51.0-59.0 %
pH sol. 2 % 2.5-4.0

Maximum limit of impurities
Chloride (Cl) ..... 0.05 %
Ammonium (NH_4) ..... 0.05 %
Alkali and alkaline-earth salts ..... 0.4 %
Heavy metals (as Pb) ..... 0.004 %
As .....0.0003 %
Cu .....0.002 %
Fe .....0.01 %
Ni .....0.002 %
Pb .....0.002 %

Code	Packaging
141101.1211	1000 g

α-Amanitine

Origin from *Amanita phalloides*

$C_{39}H_{54}N_{10}O_{14}S$
M = 918.98 g/mol
CAS 23109-05-9
EINECS 245-432-2
CS 29339980

Solid

UN3462
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage 2-8 °C

Danger



H300+H310+H330 H373

A1485 α-Amanitine

Specifications
Assay (HPLC) .....min. 95 %

Code	Packaging
A1485,0001	1 mg
A1485,0005	5 mg
A1485,0025	25 mg
A1485,0100	100 mg

Amarogentin

Origin from *Gentiana lutes*

$C_{29}H_{30}O_{13}$
M = 586.54 g/mol
CAS 21018-84-8
CS 29420000

Storage 2-8 °C

Warning



H302+H332 H319 H335

A9543 Amarogentin for HPLC

Specifications
Assay (HPLC) .....min. 99 %

Code	Packaging
A9543,0010	10 mg
A9543,0020	20 mg

Amido Black 10 B (C.I. 20470)

Naphthol blue black B

$C_{22}H_{14}N_6Na_2O_9S_2$
M = 616.50 g/mol
CAS 1064-48-8
EINECS 213-903-1
CS 32041200

Solubility ..... 30 g/L (H_2O)
Solid

Storage RT

A1399 Amido Black 10 B (C.I. 20470)

Specifications
Assay (photometr.) .....min. 70 %
λ_{max} (pH 9.0) .....615-620 nm
Loss on drying ..... max. 10 %

Code	Packaging
A1399,0100	100 g

НеваРеактив

Amido Black 10 B solution

CS 38220000

Density .....1.007 kg/l
Liquid

WGK 1
Storage RT

126352 Amido Black 10B solution for the determination of protein content in milk for analysis

according to NF V 04-216 and ISO 5542:1984

Specifications
pH at 20 °C 2.30-2.50
ABS λ_{max} 620 nm 1 % sol. in H_2O 0.705-0.725

Code	Packaging
126352.1214	5 l

Sulfamidic Acid see Amidosulfuric Acid

Amidosulfuric Acid

Sulfaminic Acid, Amidosulfonic Acid, Sulfamidic Acid

H_3NO_3S
M = 97.09 g/mol
CAS 5329-14-6
EINECS 226-218-8
CS 28111980
Index Nr. 016-026-00-0

Melting Point .....205 °C (dec.)
Solubility ..... 213 g/L (H_2O)
Solid

UN2967
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H315 H319 H412

131056 Amidosulfuric Acid (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Assay (Acidim.) (a.d.s.) ..... 99.5-100.3 %
Identity .....IR passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Residue on ignition ..... 0.01 %
Chloride (Cl) .....0.001 %
Sulfate (SO_4) .....0.05 %
Heavy metals (as Pb) .....0.001 %
Cu .....0.001 %
Fe .....0.0005 %
Ni .....0.001 %
Pb .....0.001 %

Code	Packaging
131056.1210	500 g
131056.1211	1000 g
131056.1214	5 kg
131056.0416	25 kg

141056 Amidosulfuric Acid pure

Specifications
Assay (titr.) .....min. 99 %
Chloride ..... max. 0.005 %
Sulfate .....max. 0.05 %
Fe .....max. 0.001 %
Pb .....max. 0.05 %

Code	Packaging
141056.0416	25 kg

161056 Amidosulfuric Acid for synthesis

Specifications
Minimum assay (Acidim.) ..... 99 %
Identity .....IR passes test

Code	Packaging
161056.1211	1000 g

Amikacin Sulfate

$C_{22}H_{43}N_5O_{13} \cdot 2H_2SO_4$
M = 781.76 g/mol
CAS 39831-55-5
CS 29419000

Solid

Storage 2-8 °C

A8694 Amikacin Sulfate BioChemica

Specifications
Assay (on dried basis) ..... 674-786 µg/mg
α20 °C/D; 2 %; H_2O .....76-84°
Sulfated ash .....max. 1.0 %
Loss on drying .....max. 13.0 %

Code	Packaging
A8694,0005	5 g

4-Amino-1-Hydroxybenzene see 4-Aminophenol

1-Amino-2-Hydroxy-4-Naphthalenesulfonic Acid see 1-Amino-2-Naphthol-4-Sulfonic Acid

2-Amino-2-Methyl-1-Propanol

2-Aminoisobutanol

$C_4H_{11}NO$
M = 89.14 g/mol
CAS 124-68-5
EINECS 204-709-8
CS 29221985
Index Nr. 603-070-00-6

Boiling Point ..... 165 °C
Density .....0.935 kg/l (20 °C)
Refractive Index n20/D 1.4480
Liquid

WGK 1
Storage RT

Warning



H315 H319 H412

A0838 2-Amino-2-Methyl-1-Propanol for buffer solutions

Specifications
Assay (titr.) .....min. 96 %
pH (0.1 M; H_2O; 25 °C) 11.0-12.0
Water (K.F.) .....max. 0.8 %

Code	Packaging
A0838,9010	10 kg

1-Amino-2-Naphthol-4-Sulfonic Acid

1-Amino-2-Hydroxy-4-Naphthalenesulphonic Acid, 4-Amino-3-Hydroxy-1-Naphthalenesulphonic Acid

$C_{10}H_9NO_4S$
M = 239.25 g/mol
CAS 116-63-2
EINECS 204-147-3
CS 29222100

Melting Point ..... 290 °C
Solubility .....Insoluble in water
Solid

Storage RT

132670 1-Amino-2-Naphthol-4-Sulfonic Acid (Reag. USP) for analysis, ACS

...determination of phosphorus

Specifications
Minimum assay (Acidim.) ..... 98.0 %
Identity ..... IR passes test

Maximum limit of impurities
Insoluble matter in $Na2CO_3$ .....passes test
Residue on ignition .....0.1 %
Sulfate (SO_4) .....0.2 %
Sensitivity to phosphate ..... passes test

Code	Packaging
132670.1206	25 g

НеваРеактив

2-Amino-3-Methylbutyric Acid see DL-Valine

L-2-Amino-4-ethylmercaptobutyric Acid see L-Methionine

7-Aminoactinomycin D

7AAD

Origin semisynthetic derivative of Actinomycin D

$C_{62}H_{87}N_{13}O_{16}$
M = 1270.43 g/mol
CAS 7240-37-1
CS 29419000

Melting Point ..... 245-254 °C
Solubility ..... clear, red
Solid

UN3462
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
Storage 2-8 °C
Storage protected from light

Danger



H300+H310+H330 H315 H319 H335

A7850 7-Aminoactinomycin D BioChemica

Specifications
Assay (HPLC) ..... approx. 96 %

Code	Packaging
A7850,0001	1 mg

4-Aminoantipyrine

4-Amino-2,3-Dimethyl-1-Phenyl-3-Pyrazolin-5-one,4-Aminophenazone, Ampyrone

$C_{11}H_{13}N_3O$
M = 203.25 g/mol
CAS 83-07-8
EINECS 201-452-3
CS 29331190

Solid

WGK 3
Storage RT

Warning



H302

15A371 4-Aminoantipyrine, 98 % for synthesis

Specifications
Assay ..... 98 %
Identity ..... IR passes test

Code	Packaging
15A371.1208	100 g

A1523 4-Aminoantipyrine BioChemica

Specifications
Assay (titr.) ..... min. 98 %

Loss on drying ..... max. 1.5 %
Melting point ..... 105° - 110 °C

Code	Packaging
A1523,0100	100 g

p-Aminobenzamidine Dihydrochloride

4-Aminobenzamidine Dihydrochloride

$C_7H_9N_3 \cdot 2HCl$
M = 208.09 g/mol
CAS 2498-50-2
EINECS 219-692-2
CS 29252900

Solid

WGK 2
Storage 2-8 °C

Warning



H315 H319 H335

A2126 *p*-Aminobenzamidine Dihydrochloride BioChemica

Specifications
Assay (titr.) ..... 98.0-101.0 %
Loss on drying (105 °C) ..... max. 1.0 %

Code	Packaging
A2126,0010	10 g
A2126,1000	1 kg

4-Aminobenzenesulfonic Acid see Sulfanilic Acid

4-Aminobenzoic Acid

PABA, Vitamin H_1

$C_7H_7NO_2$
M = 137.14 g/mol
CAS 150-13-0
EINECS 205-753-0
CS 29224985

Solubility ..... 8 g/L (H_2O)
Solid

WGK 2
Storage RT

14B626 4-Aminobenzoic Acid (USP) pure, pharma grade

Specifications
Assay (HPLC, calc on dried subst.) ..... 98.0-102.0 %
Aniline ..... max. 0.001 %

Heavy metals (as Pb) ..... max. 0.002 %
Identity ..... passes test
Loss on drying (2 h; 105 °C) ..... max. 0.2 %
Organic impurities ..... passes test

p-Toluidine ..... max. 0.001 %
Sulfated ash ..... max. 0.1 %

Code	Packaging
14B626.1211	1 kg

A0966 4-Aminobenzoic Acid BioChemica

Specifications
Assay (titr.) ..... min. 98.5 %

Heavy metals (as Pb) ..... max. 0.002 %
Loss on drying ..... max. 1 %

Code	Packaging
A0966,0050	50 g

НеваРеактив

3-Aminobenzoic Acid Ethyl Ester Methanesulfonate

Ethyl 3-aminobenzoate Methanesulfonate Salt

$C_9H_{11}NO_2 \cdot CH_4SO_3$
M = 261.30 g/mol
CAS 886-86-2
EINECS 212-956-8
CS 29224985

Solid

Storage RT

Warning



H315 H319 H335

A6415 3-Aminobenzoic Acid Ethyl Ester Methanesulfonate BioChemica

Specifications
Assay (titr.) ..... min. 98.0 %
Identity (IR) ..... passes test
Melting point ..... approx. 148 °C
Solubility (1 %; H_2O) ..... clear, colorless
Water (K.F.) ..... approx. 1.0 %

Code	Packaging
A6415,0250	250 g

2-Aminoethanesulfonic Acid see Taurine

2-Aminoethanol see Ethanolamine

4-(2-Aminoethyl)-benzenesulfonyl Fluoride Hydrochloride see AEBSF Hydrochloride

6-Aminohexanoic Acid

EACA, 6-Amino-n-Hexanoic Acid, ε-Aminocaproic Acid

$C_6H_{13}NO_2$
M = 131.18 g/mol
CAS 60-32-2
EINECS 200-469-3
CS 29224985

Melting Point ..... 207-209 °C (dec.)
Solid

WGK 1
Storage RT

63B764 6-Aminohexanoic Acid (Ph. Eur., BP, USP) GMP - IPEC grade

Specifications
Assay (Perchl. Ac.) calc. a.d.s. ..... 98.5-101.0 %
Assay (HPLC.) calc. a.d.s. ..... 98.5-101.5 %
Identity according to Pharmacopoeias:
IR ..... passes test
(B Ph. Eur) ..... passes test
(C Ph. Eur) ..... passes test
(D Ph. Eur) ..... passes test
pH sol. 20 % 7.5-8.0

Maximum limit of impurities
ABS λ_{max} 287 nm 20 % sol. 0.10
ABS λ_{max} 450 nm 20 % sol. 0.03
ABS λ_{max} 287 nm (98-102 °C, 72 h, 20 % sol.) 0.15
ABS λ_{max} 450 nm (98-102 °C, 72 h, 20 % sol.) 0.03
Appearance of solution
Appearance Colourless (initial, 24h) ..... passes test
Appearance Clear (initial, 24h) (< formazin I) ..... passes test
Loss on drying at 105 °C ..... 0.5 %
Residue on ignition (as SO_4) ..... 0.1 %
Residual solvents (Ph. Eur./USP) . passes test
Ninhydrin positive substances ..... 0.5 %
Water (H_2O) ..... 0.5 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
63B764.0914	5 kg

A2266 6-Aminohexanoic Acid BioChemica

Protease inhibitor

Specifications
Assay (titr.) ..... min. 99.0 %
Loss on drying ..... max. 0.2 %

Code	Packaging
A2266,0100	100 g
A2266,0250	250 g
A2266,0500	500 g

2-Aminoisobutanol see 2-Amino-2-Methyl-1-Propanol

5-Aminolevulinic Acid Hydrochloride

ALA

$C_5H_{10}ClNO_3$
M = 167.61 g/mol
CAS 5451-09-2
EINECS 226-679-5
CS 29224985

Melting Point ..... 150-156 °C
Solubility ..... 100 g/L (H_2O)
Solid

WGK 2
Storage 2-8 °C

A1731 5-Aminolevulinic Acid Hydrochloride BioChemica

Specifications
Assay (titr.) ..... min. 98 %
Heavy metals (as Pb) ..... max. 0.001 %
Identity (IR) ..... passes test
Water ..... max. 1 %
Sulfate ..... max. 0.005 %

Code	Packaging
A1731,0001	1 g
A1731,0005	5 g

1-Aminonaphthalene see 1-Naphthylamine

4-Aminophenol

4-Amino-1-Hydroxybenzene, 4-Hydroxyaniline

C_6H_7NO
M = 109.12 g/mol
CAS 123-30-8
EINECS 204-616-2
CS 29222900
Index Nr. 612-128-00-X

Melting Point ..... 188 °C
Boiling Point ..... 284 °C
Solubility ..... in water at 20 °C

UN2512
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Warning



H332 H302 H410 H341

15A475 4-Aminophenol, 98 % for synthesis

Specifications
Minimum assay ..... 98 %

Code	Packaging
15A475.1609	250 g

Ammonia solution 32 %

Ammonium Hydroxide

NH_3
M = 17.03 g/mol
CAS 1336-21-6
EINECS 215-647-6
CS 28142000
Index Nr. 007-001-01-2

Density .....0.88 kg/l
Liquid

UN2672
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage below 20 °C

Danger



H314 H400

146012 Ammonia 32 % (as NH_3) pure

Specifications
Assay (Acidim.) as NH_3 ..... 32 %*
Identity ..... passes test
Reducing substance to $KMnO_4$ (as O) ..... 0.0008 %

Residue on ignition (as SO_4) ..... 0.003 %
Chloride (Cl) ..... 0.002 %
Sulfate (SO_4) ..... 0.003 %
Heavy metals (as Pb) ..... 0.0001 %

Fe .....0.0005 %
* At the moment of the batch analysis.

Code	Packaging
146012.1611	1000 ml
146012.1612	2.5 l
146012.0716	25 l

Ammonia solutions 30 %

Ammonium Hydroxide

NH_3
M = 17.03 g/mol
CAS 1336-21-6
EINECS 215-647-6
CS 28142000
Index Nr. 007-001-01-2

Density .....0.897 kg/l
Liquid

UN2672
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage below 20 °C

Danger



H314 H400 H335

131130 Ammonia 30 % (as NH_3) for analysis, ACS

Specifications
Assay (Acidim.) .....28.0-30.0 %*
Density 20/4 .....0.892-0.898*

Maximum limit of impurities
APHA colour 10
Non-volatile matter ..... 0.002 %
Reducing substance to $KMnO_4$ (as O) ..... 0.0008 %
Residue on ignition ..... 0.002 %
Chloride (Cl) ..... 0.00005 %
Sulfur compounds (as SO_4) ..... 0.0002 %
Phosphate (PO_4) ..... 0.0001 %
Sulfide (S) ..... 0.00001 %

Carbonate (as CO_2) .....0.002 %
Nitrate (NO_3) .....0.0002 %
Pyridine and homologues .....0.0002 %
As .....0.000005 %
Heavy metals (as Pb) .....0.00005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.02	Al	0.1
Au	0.1	B	0.5
Ba	0.1	Be	0.1
Bi	0.05	Ca	1
Cd	0.1	Co	0.1
Cr	0.05	Cu	0.1
Fe	0.1	Ga	0.05
Ge	0.02	Hg	0.1
In	0.05	K	1
Li	0.02	Mg	0.5
Mn	0.1	Mo	0.02
Na	2		

Code	Packaging
131130.1611	1000 ml
131130.1612	2.5 l
131130.1214	5 l
131130.0716	25 l
131130.0719	200 l

141130 Ammonia 30 % (as NH_3) (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) .....27.0-30.0 %*
Identity according to Pharmacopoeias: ..... passes test
Density 20/20 .....0.892-0.901*

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.002 %
Reducing substance to $KMnO_4$ .... passes test
Residue on ignition .....0.01 %

Chloride (Cl) .....0.0001 %
Sulfur compounds (as SO_4) .....0.0005 %
Phosphate (PO_4) .....0.0005 %
Carbonate (as CO_3) .....0.005 %
Residual solvents (Ph. Eur./USP) . passes test
Pyridine and homologues (as C_6H_5N) .....0.0002 %
Heavy metals (as Pb) .....0.0001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1,300 ppm
As ..... 0.00004 %
Ca .....0.001 %
Fe ..... 0.000025 %
Mg .....0.001 %
Pb .....0.0001 %
* At the moment of the batch analysis.

Code	Packaging
141130.1611	1000 ml
141130.1612	2.5 l
141130.1214	5 l
141130.0719	200 l

Ammonia solutions 25 %

Ammonium Hydroxide solutions

NH_3
M = 17.03 g/mol
CAS 1336-21-6
EINECS 215-647-6
CS 28142000
Index Nr. 007-001-01-2

Liquid

UN2672
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Danger



H314 H335 H400

A2128 Ammonia solution 25 % DNA for DNA synthesis

Specifications
Assay (titr.) ..... 24.0-26.0 %
Non-volatile matter .....max. 0.002 %

Carbonate ..... max. 0.001 %
Chloride ..... max. 0.00001 %
Phosphate ..... max. 0.00001 %

Cu .....max. 0.00001 %
Fe .....max. 0.00001 %
Pb .....max. 0.000005 %

Code	Packaging
A2128,0500	500 ml

121129 Ammonia 25 % (as NH_3) (Reag. USP, Ph. Eur.) for analysis

Specifications
Assay (Acidim.) .....25.0-27.0 %*
Density 20/4 .....0.901-0.907*

Maximum limit of impurities
APHA colour 10
Non-volatile matter ..... 0.002 %
Reducing substance to $KMnO_4$ (as O) ..... 0.0008 %
Chloride (Cl) ..... 0.00005 %
Sulfur compounds (as SO_4) ..... 0.0002 %

Phosphate (PO_4) .....0.0001 %
Sulfide (S) .....0.00001 %
Carbonate (as CO_2) .....0.002 %
Pyridine and homologues .....0.0002 %
As .....0.000005 %
Heavy metals (as Pb) .....0.00005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.02	Al	0.1
Au	0.1	B	0.5
Ba	0.1	Be	0.1
Bi	0.05	Ca	1
Cd	0.1	Co	0.1
Cr	0.05	Cu	0.1
Fe	0.1	Ga	0.05
Ge	0.02	Hg	0.1
In	0.05	K	1
Li	0.02	Mg	0.5
Mn	0.1	Mo	0.02
Na	2	Ni	0.05
Pb	0.05		

Code	Packaging
121129.1611	1000 ml
121129.1612	2.5 l
121129.1214	5 l
121129.0716	25 l

НеваРеактив

141129 Ammonia 25 % (as NH_3) (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) (w/w) .....25.0-27.0 %*
Identity according to Pharmacopoeias: ..... passes test
Density 20/20 .....0.901-0.907*

Maximum limit of impurities
Appearance of solution ..... passes test
Non-volatile matter ..... 0.002 %
Reducing substance to $KMnO_4$ .... passes test
Chloride (Cl) ..... 0.0001 %
Sulfur compounds (as SO_4) .....0.0005 %
Phosphate (PO_4) .....0.0005 %
Carbonate .....0.005 %
Residual solvents (Ph. Eur.) .....passes test
Pyridine and homologues (as C_6H_5N) .....0.0002 %
Heavy metals (as Pb) .....0.0001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1,300 ppm
Ca ..... 0.001 %
Fe ..... 0.000025 %
Mg ..... 0.001 %
Pb ..... 0.0001 %
* At the moment of the batch analysis.

Code	Packaging
141129.1611	1000 ml
141129.1612	2.5 l
141129.1214	5 l
141129.0716	25 l

161129 Ammonia solution 25 % for synthesis

Specifications
Assay (titr.) .....24.0-26.0 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %
Cu ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
161129.1611	1 L
161129.1612	2.5 L
161129.1214	5 L
161129.0716	25 L

211129 Ammonia 25 % (as NH_3) technical grade

Specifications
Assay (Acidim.) .....24-27 %*
Density 20/4 .....0.900-0.910*
Chloride (Cl) ..... 0.005 %
Sulfur compounds (as SO_4) .....0.005 %
Fe .....0.005 %
Pb .....0.005 %
* At the moment of the batch analysis.

Code	Packaging
211129.1214	5 l
211129.0716	25 l

Ammonia solutions 20 %

Ammonium Hydroxide

NH_3
M = 17.03 g/mol
CAS 1336-21-6
EINECS 215-647-6
CS 28142000
Index Nr. 007-001-01-2

Density .....0.920 kg/l
Liquid

UN2672
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Danger



H314 H335 H400

711128 Ammonia 20 % (as NH_3) for trace metal analysis (ppt)

Specifications
Assay (Acidim.) ..... 20-22 %

Maximum limit of impurities
Metals by ICP (in ppt)

Ag	10	Al	20	Bi	10	Ca	10	Ho	10	In	10
As	10	Au	10	Cd	10	Ce	10	K	10	La	10
Ba	10	Be	10	Co	10	Cr	10	Li	10	Lu	10
				Cs	10	Cu	10	Mg	10	Mn	10
				Dy	10	Er	10	Mo	10	Na	20
				Eu	10	Fe	10	Nb	10	Nd	10
				Ga	10	Gd	10	Ni	10	Pb	10
				Ge	10	Hg	200	Pr	10		

Code	Packaging
711128.0009	250 ml

721128 Ammonia 20 % (as NH_3) for trace metal analysis (ppb)

Specifications
Assay (Acidim.) ..... 20-22 %

Maximum limit of impurities
APHA colour 10
Chloride (Cl) ..... 0.00005 %
Phosphate (PO_4) ..... 0.000001 %
Sulfate (SO_4) ..... 0.0001 %

Metals by ICP (ppb)

Ag	0.5	Al	1	As	1	Au	0.5	K	1	La	0.1
				Ba	0.1	Be	0.1	Li	0.1	Lu	0.1
				Bi	0.1	Ca	1	Mg	1	Mn	0.5
				Cd	0.5	Ce	0.1	Mo	0.5	Na	1
				Co	0.5	Cr	0.5	Nb	0.1		
				Cs	0.1	Cu	0.5				
				Dy	0.1	Er	0.1				
				Eu	0.1	Fe	1				
				Ga	0.1	Gd	0.1				
				Ge	0.1	Hg	0.2				
				Ho	0.1	In	0.1				

Code	Packaging
721128.0010	500 ml

121128 Ammonia 20 % (as NH_3) for analysis

Specifications
Minimum assay (Acidim.) .....20 %*
Density 20/4 .....0.917-0.923*

Maximum limit of impurities
APHA colour 10
Non-volatile matter ..... 0.002 %
Reducing substance to $KMnO_4$ (as O) ..... 0.0008 %
Chloride (Cl) ..... 0.00005 %
Sulfur compounds (as SO_4) ..... 0.0002 %
Phosphate (PO_4) .....0.0001 %
Sulfide (S) .....0.00001 %
Carbonate (as CO_2) .....0.002 %
Pyridine and homologues .....0.0002 %
Heavy metals (as Pb) .....0.00005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.02	Al	0.5	Ca	1	Cd	0.1
As	0.000005 %	Au	0.1	Co	0.1	Cr	0.05
B	0.5	Ba	0.1	Cu	0.1	Fe	0.1
Be	0.1	Bi	0.05	Ga	0.05	Ge	0.02
				Hg	0.1	In	0.05
				K	1	Li	0.02
				Mg	0.5	Mn	0.1
				Mo	0.02	Na	2
				Ni	0.05	Pb	0.05

Code	Packaging
121128.1611	1000 ml

141128 Ammonia 20 % (as NH_3) pure

Specifications
Minimum assay (Acidim.) .....20 %*
Density 20/4 .....0.917-0.923*
Non-volatile matter ..... 0.01 %
Chloride (Cl) ..... 0.0005 %
Sulfur compounds (as SO_4) ..... 0.001 %
Phosphate (PO_4) .....0.0005 %
Carbonate (as CO_2) .....0.005 %
Ca .....0.001 %
Cu .....0.0001 %
Fe .....0.0001 %
Mg .....0.001 %
Ni ..... 0.0001 %
Pb ..... 0.0001 %
Zn ..... 0.0001 %
* At the moment of the batch analysis.

Code	Packaging
141128.1611	1000 ml

Ammonia solution 10 %

NH_3
M = 17.03 g/mol
CAS 1336-21-6
EINECS 215-647-6
CS 28142000
Index Nr. 007-001-01-2

Liquid

UN2672
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Danger



H314 H335

144924 Ammonia solution 10 % pure

Specifications
Assay (titr.) ..... min. 10 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %
Cu ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
144924.1214	5 L
144924.0716	25 L

Ammonia Fixative solution 1 %

CS 38220000

Density ..... 1.002 kg/l
Liquid

WGK 2
Storage RT

283334 Ammonia Fixative solution 1 % for volumetric analysis

for automatic analysis

Composition:
Boric Acid ..... 1 g
Methyl Red ..... 0.75 mg
Bromocresol Green ..... 1 mg
Ethanol absolute ..... 1.5 ml
Water (s.q.m) ..... 100 ml

Code	Packaging
283334.1214	5 l
283334.0716	25 l

Ammonium Acetate

Acetic Acid Ammonium salt

CH_3COONH_4
M = 77.08 g/mol
CAS 631-61-8
EINECS 211-162-9
CS 29152900

Melting Point ..... 114 °C
Solubility ..... 1480 g/L (H_2O)
Solid

WGK 1
Storage RT

131114 Ammonium Acetate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Acidim.) ..... 98 %
pH of 5 % solution 6.7-7.3

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Reducing substance to $KMnO_4$ .... passes test
Residue on ignition (as SO_4) ..... 0.01 %
Chloride (Cl) ..... 0.0005 %
Sulfate (SO_4) ..... 0.001 %
Nitrate (NO_3) ..... 0.001 %
Water (H_2O) ..... 2.0 %
Heavy metals (as Pb) ..... 0.0005 %
Al ..... 0.0005 %
Ca ..... 0.001 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Mg ..... 0.001 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
131114.1210	500 g
131114.1211	1000 g
131114.0914	5 kg
131114.0416	25 kg

141114 Ammonium Acetate pure

Specifications
Assay (Acidim.) ..... 96 %
pH of 5 % solution 6.5-7.5
Insoluble matter in H_2O ..... 0.01 %
Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.003 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.003 %
Nitrate (NO_3) ..... 0.003 %
Water (H_2O) ..... 2.5 %
Cu ..... 0.002 %
Fe ..... 0.001 %
Ni ..... 0.002 %
Pb ..... 0.001 %

Code	Packaging
141114.1210	500 g
141114.1211	1000 g
141114.0914	5 kg
141114.0416	25 kg

A2936 Ammonium Acetat for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 98 %
Heavy metals (as Pb) ..... max. 0.0002 %
pH (5 %; H_2O; 25 °C) 6.5-7.3

Code	Packaging
A2936,0500	500 g

A3674 Ammonium Acetate BioChemica

Specifications
Assay (titr.) ..... min. 98 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O) ..... 6.5-7.3 (25 °C)
Water ..... max. 2.5 %
Chloride ..... max. 0.002 %
Sulfate ..... max. 0.005 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.03
280 nm ..... max. 0.02

Code	Packaging
A3674,1000	1 kg

Ammonium Acetate solution (5 M)

CS 38220000

Liquid

Storage RT

A4716 Ammonium Acetate solution (5 M) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Heavy metals (as Pb) ..... max. 0.001 %

Composition:
Ammonium Acetate ..... 385.4 g/L

Code	Packaging
A4716,0250	250 ml

Ammonium Acetate 1M buffered to pH=7, extractant solution

CH_3COONH_4
M = 77.08 g/mol
CAS 631-61-8
EINECS 211-162-9
CS 29152900

Density ..... 1.015 kg/l
Liquid

WGK 1
Storage RT

175429 Ammonium Acetate 1M buffered to pH=7. extractantsolution

extractant reagent for soil analysis

Specifications
Titer at 20 °C ..... 1.00 ± 0.05

Code	Packaging
175429.1211	1000 ml

Printed on FSC® certified paper from well managed forests

Ammonium Alum see Aluminium Ammonium Sulfate 12-hydrate

Ammonium Aluminium Sulfate see Aluminium Ammonium Sulfate 12-hydrate

Ammonium Bicarbonate see Ammonium Hydrogen Carbonate

Ammonium Bifluoride see Ammonium Hydrogen di-Fluoride

Ammonium Carbonate

~ $(NH_4)_3(CO_3)_2H+NH_2COONH_4$
CAS 10361-29-2
EINECS 233-786-0
CS 28369917

Solubility ..... 1000 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H302

131119 Ammonium Carbonate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (as NH_3) (Acidim.) ..... 30.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Non-volatile matter ..... 0.01 %
Chloride (Cl) ..... 0.0005 %
Sulfur compounds (as SO_4) ..... 0.002 %
Phosphate (PO_4) ..... 0.0005 %
Nitrate (NO_3) ..... 0.001 %
As ..... 0.00004 %

Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	5	Al	5	Mg	10
Au	5	B	5	Mo	5
Ba	5	Be	5	Ni	5
Bi	5	Cd	5	Pt	5
Co	5	Cr	5	Se	5
Cu	1	Fe	1	Sn	5
Ga	5	Ge	5	Ti	5
In	5	K	10	Mn	5
				Na	20
				Pb	5
				Sb	5
				Si	10
				Sr	5

Code	Packaging
131119.1210	500 g

141119 Ammonium Carbonate (USP-NF) pure, pharma grade

Specifications
Assay (as NH_3) (Acidim.) ..... 30.0-34.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Residue on ignition (as SO_4) ..... 0.1 %

Chloride (Cl) ..... 0.0035 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
Residual solvents (Ph. Eur./USP) .passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0004 %

Code	Packaging
141119.1211	1000 g

201119 Ammonium Carbonate food grade

Mixture of variable quantities of Ammonium carbonate and Ammonium carbamate

Specifications
Assay (titr.; NH_3) ..... 30 -34 %

Identity ..... passes test
Non-volatile matter ..... max. 0.05 %
Chloride ..... max. 0.003 %
Sulfate ..... max. 0.003 %

As ..... max. 0.0003 %
Hg ..... max. 0.0001 %
Pb ..... max. 0.0002 %

Code	Packaging
201119.1211	1 kg

Ammonium Cerium(IV) Sulfate 2-hydrate

Cerium(IV) and Ammonium Sulfate, tetra-Ammoniumtetra-Sulfatecerate (IV)

$(NH_4)_4Ce(SO_4)_4 \cdot 2H_2O$
M = 632.55 g/mol
CAS 10378-47-9
EINECS 231-567-4
CS 28469000

Solubility .....in water at 20 °C:breaks down.
Solid

WGK 1
Storage RT

132748 Ammonium Cerium(IV) Sulfate 2-hydrate (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay ..... 99.0 %

Maximum limit of impurities
Insoluble matter in H_2SO_4 ..... 0.02 %

Chloride (Cl) ..... 0.01 %
Phosphate (PO_4) ..... 0.01 %
Heavy metals (as Pb) ..... 0.005 %
Cu ..... 0.003 %
Fe ..... 0.005 %

K ..... 0.01 %
Na ..... 0.01 %
Ni ..... 0.003 %
Pb ..... 0.003 %

Code	Packaging
132748.1208	100 g
132748.1209	250 g
132748.1214	5 kg

142748 Ammonium Cerium(IV) Sulfate 2-hydrate pure

Specifications
Assay (Iodom.) ..... 98 %
Chloride (Cl) ..... 0.025 %

Phosphate (PO_4) ..... 0.03 %
Cu ..... 0.01 %
Fe ..... 0.02 %

Ni ..... 0.01 %
Pb ..... 0.01 %

Code	Packaging
142748.1209	250 g

Ammonium Chloride

NH_4Cl
M = 53.49 g/mol
CAS 12125-02-9
EINECS 235-186-4
CS 28271000
Index Nr. 017-014-00-8

Boiling Point ..... 520 °C
Solubility ..... 370 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H302 H319

131121 Ammonium Chloride for analysis, ACS, ISO

Specifications
Minimum assay (Arg.) ..... 99.5 %
pH of 5 % solution 4.5-5.5

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4) ..... 0.01 %
Phosphate (PO_4) ..... 0.0002 %
Sulfate (SO_4) ..... 0.002 %

Iodide (I) ..... 0.001 %
Nitrate (NO_3) ..... 0.001 %
Pyridine and homologues ..... 0.001 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00005 %
Ca ..... 0.0005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %

Cu ..... 0.0001 %
Fe ..... 0.0002 %
K ..... 0.005 %
Mg ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0001 %
Zn ..... 0.0002 %

Code	Packaging
131121.1210	500 g
131121.1211	1000 g
131121.0914	5 kg
131121.0416	25 kg

141121 Ammonium Chloride (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Arg.) calc. a.d.s. ..... 99.5-100.5 %
Identity according to Pharmacopoeias: ..... passes test
pH of 5 % solution 4.6-6.0

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Loss on drying at 100 °C ..... 0.5 %
Residue on ignition (as SO_4) ..... 0.1 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %
Residual solvents (Ph. Eur./USP) . passes test
Bromide and iodide ..... passes test
Thiocyanate ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0001 %
Ca ..... 0.02 %
Fe ..... 0.002 %

Code	Packaging
141121.1210	500 g
141121.1211	1000 g
141121.1214	5 kg
141121.0416	25 kg

A3260 Ammonium Chloride for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.5 %
pH (5 %; H_2O; 25 °C) 4.5-5.5
Nitrate ..... max. 0.0005 %
Phosphate ..... max. 0.0002 %
Sulfate ..... max. 0.002 %
Ca ..... max. 0.0005 %
Cu ..... max. 0.0001 %
Fe ..... max. 0.0002 %
Mg ..... max. 0.0005 %
Na ..... max. 0.01 %
Pb ..... max. 0.0001 %
Zn ..... max. 0.0002 %

Code	Packaging
A3260,0500	500 g

A3661 Ammonium Chloride BioChemica

Specifications
Assay (titr.) ..... min. 99.5 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 25 °C) 4.5-5.5
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.03
280 nm ..... max. 0.02

Code	Packaging
A3661,1000	1 kg

Ammonium Citrate di-Basic see di-Ammonium Hydrogen Citrate

Ammonium di-Hydrogen Phosphate

Ammonium Phosphate Monobasic, Primary Ammonium Phosphate

$(NH_4)H_2PO_4$
M = 115.03 g/mol
CAS 7722-76-1
EINECS 231-764-5
CS 31054000
Melting Point ..... 190 °C
Solubility ..... water 370 g/l at 20 °C
Solid
WGK 1
Storage RT

131126 Ammonium di-Hydrogen Phosphate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Acidim.) ..... 99 %
pH of 5 % solution 3.8-4.4

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Sulfur compounds (as SO_4) ..... 0.005 %
Nitrate (NO_3) ..... 0.001 %
As ..... 0.00005 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Au 5
Ba 5
Ca 10
Co 5
Cu 5
Ga 5
Al 5
B 5
Be 5
Cd 5
Cr 5
Fe 5
Ge 5
Hg 5
K 50
Mg 5
Mo 5
Ni 5
Pt 5
Se 5
Sn 5
In 5
Li 5
Mn 5
Na 50
Pb 5
Sb 5
Si 5
Sr 5

Code	Packaging
131126.1210	500 g
131126.1211	1000 g
131126.0416	25 kg

141126 Ammonium di-Hydrogen Phosphate pure

Specifications
Assay (Acidim.) ..... 96.0-102.0 %
pH of 5 % solution 3.8-4.4
Insoluble matter in H_2O ..... 0.02 %
Chloride (Cl) ..... 0.003 %
Nitrate (NO_3) ..... 0.005 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0001 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141126.1211	1000 g
141126.1214	5 kg
141126.0416	25 kg

Ammonium Dichromate

$(NH_4)_2Cr_2O_7$
M = 252.07 g/mol
CAS 7789-09-5
EINECS 232-143-1
CS 28415000
Index Nr. 024-003-00-1
Solubility ..... water 360 g/l at 20 °C
Solid
UN1439
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 3
Storage RT

Danger



H272 H350 H340 H360FD H330 H301 H372 H312 H314 H334 H317 H410

141125 Ammonium Dichromate moistened with 0.5-3.0 % of H_2O pure

Specifications
Assay (Iodom.) (a.d.s.) ..... 99 %
Loss on drying at 105 °C ..... 3 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.05 %
Cu ..... 0.005 %
Fe ..... 0.005 %
Pb ..... 0.01 %

Code	Packaging
141125.1210	500 g
141125.0416	25 kg

Ammonium Fluoride

NH_4F
M = 37.04 g/mol
CAS 12125-01-8
EINECS 235-185-9
CS 28261910
Index Nr. 009-006-00-8
Solubility ..... water 820 g/l at 20 °C
Solid
UN2505
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage RT

Danger



H331 H311 H301

142351 Ammonium Fluoride pure

Specifications
Assay (Acidim.) ..... 95 %
Insoluble matter in H_2O ..... 0.01 %
Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Nitrate (NO_3) ..... 0.005 %
As ..... 0.0005 %
Cu ..... 0.002 %
Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
142351.1210	500 g
142351.1211	1000 g

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Ammonium Hydrogen Carbonate

Ammonium Bicarbonate

$(NH_4)HCO_3$
M = 79.06 g/mol
CAS 1066-33-7
EINECS 213-911-5
CS 28369917

Melting Point ..... 105 °C
Solubility ..... water 176 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H302

121116 Ammonium Hydrogen Carbonate (Reag. Ph. Eur.) for analysis

Specifications
Minimum assay (Acidim.) ..... 99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.0005 %
Sulfur compounds (as SO_4) ..... 0.002 %
Phosphate (PO_4) ..... 0.0005 %
Sulfide ..... 0.001 %
Nitrate (NO_3) ..... 0.001 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.0001 %
Ca ..... 0.001 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0001 %
Fe ..... 0.0005 %
K ..... 0.001 %
Na ..... 0.002 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
121116.1210	500 g
121116.0416	25 kg

141116 Ammonium Hydrogen Carbonate (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 98.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.005 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.007 %
Sulfide ..... passes test
Residual solvents (Ph. Eur.) ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
As ..... 0.0002 %
Ca ..... 0.01 %
Fe ..... 0.001 %

Code	Packaging
141116.0416	25 kg

di-Ammonium Hydrogen Citrate

Ammonium Citrate Dibasic, Secondary Ammonium Citrate

$C_6H_5O_7(NH_4)_2H$
M = 226.19 g/mol
CAS 3012-65-5
EINECS 221-146-3
CS 29181500

Solubility ..... water 1,000 g/l at 20 °C
Solid

WGK 1
Storage RT

131120 di-Ammonium Hydrogen Citrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Acidim.) ..... 98.0-103.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4) ..... 0.01 %
Chloride (Cl) ..... 0.0005 %
Sulfur compounds (SO_4) ..... 0.005 %
Phosphate (PO_4) ..... 0.0005 %
Oxalate (C_2O_4) ..... 0.05 %
Water (H_2O) ..... 1 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00001 %
Ca ..... 0.002 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.005 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131120.1210	500 g
131120.0416	25 kg

141120 di-Ammonium Hydrogen Citrate pure

Specifications
Assay (Acidim.) ..... 98 %
Insoluble matter in H_2O ..... 0.02 %
Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.002 %
Sulfur compounds (SO_4) ..... 0.005 %
Phosphate (PO_4) ..... 0.005 %
Water (H_2O) ..... 2 %
Heavy metals (as Pb) ..... 0.005 %
As ..... 0.00005 %
Ca ..... 0.005 %
Cd ..... 0.005 %
Co ..... 0.005 %
Cu ..... 0.005 %
Fe ..... 0.005 %
K ..... 0.01 %
Na ..... 0.01 %
Ni ..... 0.005 %
Pb ..... 0.005 %
Zn ..... 0.005 %

Code	Packaging
141120.1210	500 g
141120.1211	1000 g
141120.0914	5 kg

Ammonium Hydrogen di-Fluoride

Ammonium Bifluoride

$(NH_4)HF_2$
M = 57.04 g/mol
CAS 1341-49-7
EINECS 215-676-4
CS 28261990
Index Nr. 009-009-00-4

Melting Point ..... 125 °C
Solubility ..... water 630 g/l at 20 °C
Solid

UN1727
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H301 H314

141911 Ammonium Hydrogen di-Fluoride pure

Specifications
Assay (Acidim.) ..... 98 %
pH sol.5 % 4.0-6.5
Insoluble matter in H_2O ..... 0.02 %
Chloride (Cl) ..... 0.003 %
Sulfate (SO_4) ..... 0.05 %
Water (H_2O) ..... 1 %
Heavy metals (as Pb) ..... 0.002 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141911.1210	500 g
141911.1211	1000 g

di-Ammonium Hydrogen Phosphate

Ammonium Phosphate di-Basic, Secondary Ammonium Phosphate

$(NH_4)_2HPO_4$
M = 132.06 g/mol
CAS 7783-28-0
EINECS 231-987-8
CS 31053000

Solubility ..... water 690 g/l at 20 °C
Solid

WGK 1
Storage RT

131127 di-Ammonium Hydrogen Phosphate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Acidim.) .....98.0 %
pH of 5 % solution 7.7-8.1

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Sulfur compounds (as SO_4) .....0.004 %
Nitrate (NO_3) .....0.003 %
Heavy metals (as Pb) .....0.001 %
As .....0.0001 %
Ca .....0.001 %
Cu .....0.001 %
Fe .....0.001 %
K .....0.005 %
Mg .....0.0005 %
Na .....0.005 %
Ni .....0.001 %
Pb .....0.001 %

Code	Packaging
131127.1211	1000 g
131127.0416	25 kg

141127 di-Ammonium Hydrogen Phosphate (USP-NF) pure, pharma grade

Specifications
Assay (Acidim.) ..... 96.0-102.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH sol. 1 % 7.6-8.2

Maximum limit of impurities
Insoluble matter in H_2O .....0.01 %
Chloride (Cl) .....0.005 %
Sulfate (SO_4) .....0.01 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) .....0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
As ..... 0.00015 %
Cd ..... 0.00005 %
Hg ..... 0.00015 %
Pb ..... 0.00005 %

Code	Packaging
141127.1211	1000 g
141127.0416	25 kg

Ammonium Hydroxide solutions see Ammonia solution 32 %

Ammonium Iron(II) Sulfate 6-hydrate

Iron(II) Ammonium Sulfate, Mohr's Salt

$(NH_4)_2Fe(SO_4)_2 \cdot 6H_2O$
M = 392.14 g/mol
CAS 7783-85-9
EINECS 233-151-8
CS 28429080

Melting Point ..... 100 °C
Solubility ..... water 269 g/l at 20 °C
Solid

WGK 1
Storage RT

131368 Ammonium Iron(II) Sulfate 6-hydrate (Reag. Ph. Eur.) for analysis, ISO

Specifications
Assay (Perm.) ..... 99.0-101.0 %
pH of 5 % solution 3-5

Maximum limit of impurities
Insoluble matter in H_2SO_4 ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Phosphate (PO_4) ..... 0.002 %
Non-precipitated by NH_4OH .....0.1 %
Fe(III) .....0.01 %

Metals by ICP [in mg/Kg (ppm)]
Al 50
Cd 10
Cu 10
K 100
Mn.....200
Ca.....100
Co.....50
Hg.....10
Mg 50
Na.....100
Pb..... 10
Zn..... 30
Sr 10

Code	Packaging
131368.1255	20 g
131368.12140	64 g
131368.1210	500 g
131368.1211	1000 g
131368.1214	5 kg
131368.0416	25 kg

121368 Ammonium Iron(II) Sulfate 6-hydrate for analysis

for Swan silicometers

Specifications
Assay (Perm.) ..... 99.0-101.0 %
pH of 5 % solution 3-5

Maximum limit of impurities
Insoluble matter in H_2SO_4 ..... 0.005 %
Chloride (Cl) .....0.001 %
Phosphate (PO_4) .....0.002 %
Non-precipitated by NH_4OH .....0.1 %
Fe(III) .....0.02 %

Metals by ICP [in mg/Kg (ppm)]
Al 50
Ca..... 100
Cd 10
Cu 10
K..... 100
Mn 200
Pb..... 10
Zn..... 30
Co 50
Hg 10
Mg..... 50
Na 100
Sr 10

Code	Packaging
121368.1255	20 g
121368.12140	64 g

141368 Ammonium Iron(II) Sulfate 6-hydrate pure

Specifications
Assay (Perm.) ..... 98-101 %
pH of 5 % solution .....≥ 3.5
Insoluble matter in H_2SO_4 .....0.01 %
Chloride (Cl) ..... 0.005 %
Phosphate (PO_4) ..... 0.005 %

Code	Packaging
141368.1210	500 g
141368.1211	1000 g
141368.1214	5 kg
141368.0415	10 Kg
141368.0416	25 kg

Ammonium Iron(II) Sulfate 0.12 mol/l (0.12N)

Iron(II) Ammonium Sulfate, Mohr's Salt

$(NH_4)_2Fe(SO_4)_2 \cdot 6H_2O$
M = 392.14 g/mol
CAS 7783-85-9
EINECS 233-151-8
CS 28332980

Density .....1.055 kg/l
Liquid

WGK 1
Storage RT

185227 Ammonium Iron(II) Sulfate 0.12 mol/l (0.12N) volumetric solution

for determination of COD according to NFT 90-101/ISO 6060:1989/UNE 77-004-02. Indicator: Ferroin

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
185227.1611	1000 ml

Ammonium Iron(II) Sulfate 0.1 mol/l (0.1N)

Iron(II) Ammonium Sulfate

$(NH_4)_2Fe(SO_4)_2$
M = 284.05 g/mol
CAS 7783-85-9
EINECS 233-151-8
CS 28429080

Density ..... 1.045 kg/l
Liquid

WGK 1
Storage RT

181369 Ammonium Iron(II) Sulfate 0.1 mol/l (0.1N) volumetric solution

for determination of COD. Indicator: Ferroin

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181369.1611	1000 ml
181369.1214	5 l

Ammonium Iron(III) Sulfate 12-hydrate

Iron Alum, Iron(III) Ammonium Sulfate

$NH_4Fe(SO_4)_2 \cdot 12H_2O$
M = 482.19 g/mol
CAS 7783-83-7
EINECS 233-382-4
CS 28333000

Melting Point ..... 39 °C
Solubility ..... water 1,240 g/l at 25 °C
Solid

WGK 1
Storage RT

131365 Ammonium Iron(III) Sulfate 12-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Assay (Iodom.) ..... 98.5-102.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Non-precipitated by NH_4OH ..... 0.05 %
Fe(II) ..... 0.001 %
Nitrate (NO_3) ..... 0.01 %
Ca ..... 0.01 %
Cu ..... 0.002 %
K ..... 0.005 %
Mg ..... 0.001 %
Mn ..... 0.005 %
Na ..... 0.01 %
Pb ..... 0.001 %
Zn ..... 0.003 %

Code	Packaging
131365.1210	500 g
131365.1211	1000 g
131365.0416	25 kg

141365 Ammonium Iron(III) Sulfate 12-hydrate pure

Specifications
Assay (Iodom.) ..... 97-102 %
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.01 %
Ca ..... 0.03 %
Cu ..... 0.005 %
Mg ..... 0.03 %
Pb ..... 0.005 %
Zn ..... 0.01 %

Code	Packaging
141365.1211	1000 g

Ammonium meta-Vanadate

Ammonium Metavanadate, Ammonium mono-Vanadate

NH_4VO_3
M = 116.98 g/mol
CAS 7803-55-6
EINECS 232-261-3
CS 28419030

Solubility ..... water 6.2 g/l at 15 °C
Solid

UN2859
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H301 H319 H335 H315

132352 Ammonium meta-Vanadate (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Redox.) ..... 99.0 %

Maximum limit of impurities
Insoluble matter in NH_4OH ..... 0.01 %
Chloride (Cl) ..... 0.005 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Carbonate (CO_3) ..... 0.3 %
Cu ..... 0.002 %
Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
132352.1209	250 g
132352.1211	1000 g

142352 Ammonium meta-Vanadate pure

Specifications
Assay (Redox.) ..... 98 %
Insoluble matter in NH_4OH ..... 0.02 %
Chloride (Cl) ..... 0.05 %
Sulfate (SO_4) ..... 0.05 %
Cu ..... 0.005 %
Fe ..... 0.005 %
Ni ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
142352.1209	250 g

Ammonium Metavanadate see Ammonium meta-Vanadate

Ammonium Molybdate 4-hydrate

Ammonium Heptamolybdate 4-hydrate, Ammonium Molybdate (VI)

$(NH_4)_6\ Mo_7O_{24} \cdot 4H_2O$
M = 1235.86 g/mol
CAS 12054-85-2
EINECS 234-722-4
CS 28417000

Solubility ..... 400 g/L (H_2O)
Solid

WGK 1
Storage RT

131134 Ammonium Molybdate 4-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (Compl.) ..... 99.0 %
Assay (as MoO_3) (Compl.) ..... 81.0-83.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.002 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.02 %
Arsenates, phosphates and silicates (as SiO_2) ..... 0.001 %
Nitrate (NO_3) ..... 0.003 %
Heavy metals (as Pb) ..... 0.001 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.002 %
Mg ..... 0.005 %
Mn ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131134.1208	100 g
131134.1209	250 g
131134.1210	500 g
131134.1211	1000 g

141134 Ammonium Molybdate 4-hydrate (USP) pure, pharma grade

Specifications
Assay (Compl.) ..... 99.3-101.8 %
Identity according to Pharmacopeias: ..... passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.002 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.02 %
Residual solvents (Ph. Eur./USP) ..... passes test
Arsenates, phosphates and silicates (as SiO_2) ..... 0.001 %
Magnesium and other alkaline-earths ..... 0.02 %
Nitrate (NO_3) ..... passes test
Heavy metals (as Pb) ..... 0.001 %
Ca ..... 0.01 %
Cu ..... 0.001 %
Fe ..... 0.001 %
K ..... 0.01 %
Mg ..... 0.01 %
Na ..... 0.01 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141134.1208	100 g
141134.1209	250 g
141134.1211	1000 g
141134.1214	5 kg

НеВаРеактив

A2246 Ammonium Molybdate 4-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (0.05 M; H_2O; 20 °C) 4.0-5.5
Chloride ..... max. 0.001 %
Nitrate ..... max. 0.002 %
Phosphate ..... max. 0.001 %
Sulfate ..... max. 0.005 %
Fe ..... max. 0.001 %

Code	Packaging
A2246,0100	100 g
A2246,0500	500 g

Ammonium Molybdate 4-hydrate solution

Ammonium Heptamolybdate, Ammonium Molybdate (VI)

$(NH_4)_6Mo_7O_{24} \cdot 4H_2O$
M = 1,235.86 g/mol
CS 38220000

Density ..... 1.100 kg/l
Liquid

WGK 1
Storage RT

174351 Ammonium Molybdate 4-hydrate solution 5 % in dil.sulfuric acid

Specifications
Assay (Compl.) ..... ~ 5 %

Code	Packaging
174351.1214	5 l

Ammonium Molybdate 4-hydrate solution 14 g/l

Ammonium Heptamolybdate, Ammonium Molybdate(IV)

$(NH_4)_6Mo_7O_{24}$
M = 1,163.80 g/mol
EINECS 234-722-4
CS 28417000

Density ..... 1.011 kg/l
Liquid

WGK 1
Storage RT

286450 Ammonium Molybdate 4-hydrate solution 14 g/l for volumetric analysis

for Swan silicometers

Composition:
Ammonium Molybdate 4-hydrate ..... 14.0 g
Sodium Hydroxide ..... 3.68 g
Water (s.q.m) ..... 1000 ml

Code	Packaging
286450.1215	10 l

Ammonium mono-Vanadate see Ammonium meta-Vanadate

Ammonium Nitrate

NH_4NO_3
M = 80.04 g/mol
CAS 6484-52-2
EINECS 229-347-8
CS 31023090

Melting Point ..... 169 °C (dec.)
Solubility ..... 1183 g/L (H_2O)
Solid

UN1942
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage RT

Warning



H272

131135 Ammonium Nitrate for analysis

Specifications
Assay (titr.) ..... min. 99 %
pH (5 %; H_2O; 20 °C) 4.5-6.0
Chloride ..... max. 0.0005 %
Nitrite ..... max. 0.001 %
Sulfate ..... max. 0.002 %
As ..... max. 0.0003 %
Ca ..... max. 0.003 %
Cu ..... max. 0.0005 %
Fe ..... max. 0.0002 %
Na ..... max. 0.005 %
Pb ..... max. 0.0005 %
Zn ..... max. 0.0002 %

Code	Packaging
131135.1211	1 kg
131135.0914	5 kg

141135 Ammonium Nitrate pure

Specifications
Assay (titr.) ..... min. 98.5 %
pH (5 %; H_2O; 20 °C) 4.5-6.0
Chloride ..... max. 0.002 %
Sulfate ..... max. 0.01 %
As ..... max. 0.0003 %
Ca ..... max. 0.005 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %
Zn ..... max. 0.002 %

Code	Packaging
141135.0914	5 kg
141135.0416	25 kg

211135 Ammonium Nitrate technical grade

Specifications
Assay (titr.) ..... min. 98.5 %
Heavy metals (as Pb) ..... max. 0.005 %
Chloride ..... max. 0.005 %
Fe ..... max. 0.002 %

Code	Packaging
211135.1214	5 kg
211135.0416	25 kg

di-Ammonium Oxalate 1-hydrate

$(NH_4)_2(COO)_2 \cdot H_2O$
M = 142.11 g/mol
CAS 6009-70-7
EINECS 214-202-3
CS 29171100
Index Nr. 607-007-00-3

Melting Point ..... 133 °C
Solubility ..... water 45 g/l at 20 °C
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage RT

Warning



H312 H302

131136 di-Ammonium Oxalate 1-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Perm.) ..... 99.5-101.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4) ..... 0.02 %
Chloride (Cl) ..... 0.001 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.002 %
Nitrate (NO_3) ..... 0.001 %

As ..... 0.00002 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Al	5	B	5	Hg	5
Be	5	Bi	5	K	10
Ca	10	Cd	5	Mn	5
Co	5	Cr	5	Na	10
Cu	5	Fe	2	Pb	5
Ga	5	Ge	5	Sb	5
				Si	5
				Sr	5
				Tl	5
				In	5
				Mg	5
				Mo	5
				Ni	5
				Pt	5
				Se	5
				Sn	5
				Ti	5

Code	Packaging
131136.1210	500 g
131136.1211	1000 g

141136 di-Ammonium Oxalate 1-hydrate pure

Specifications
Assay (Perm.) ..... 99 %
Insoluble matter in H_2O ..... 0.02 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.005 %
Phosphate (PO_4) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Nitrate (NO_3) ..... 0.005 %
As ..... 0.00005 %
Cu ..... 0.002 %
Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141136.1210	500 g
141136.1211	1000 g

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

Ammonium Peroxodisulfate see Ammonium Persulfate

Ammonium Persulfate

APS, Ammonium Peroxodisulfate

$(NH_4)_2S_2O_8$
M = 228.20 g/mol
CAS 7727-54-0
EINECS 231-786-5
CS 28334000
Index Nr. 016-060-00-6

Melting Point ..... 120 °C (dec.)
Solubility ..... 582 g/L (H_2O)
Solid

UN1444
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage RT

Danger



H319 H334 H335 H272 H302 H315 H317

131138 Ammonium Persulfate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay ..... 98.0 %*

Maximum limit of impurities
Acidity ..... 0.04 meq/g
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4) ..... 0.05 %
Chloride and Chlorate (as Cl) ..... 0.001 %

Heavy metals (as Pb) ..... 0.005 %
Ca ..... 0.01 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.001 %
K ..... 0.005 %

Mg ..... 0.005 %
Mn ..... 0.00005 %
Na ..... 0.01 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %
* At the moment of the batch analysis.

Code	Packaging
131138.1610	500 g
131138.1211	1000 g
131138.1611	1000 g
131138.0416	25 kg

141138 Ammonium Persulfate pure

Specifications
Assay (Iodom.) ..... 98 %*
Insoluble matter in H_2O ..... 0.02 %
Residue on ignition (as SO_4) ..... 0.1 %

Chloride and Chlorate (as Cl) ..... 0.005 %
Heavy metals (as Pb) ..... 0.005 %
Cu ..... 0.005 %
Fe ..... 0.003 %

Ni ..... 0.005 %
Pb ..... 0.001 %
* At the moment of the batch analysis.

Code	Packaging
141138.1610	500 g
141138.1611	1000 g

A2941 Ammonium Persulfate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 98 %
Free acid ..... max. 0.1 %

pH (5 %; H_2O; 20 °C) 3.0-4.0
Residue on ignition ..... max. 0.05 %
Chlorate ..... max. 0.001 %
Chloride ..... max. 0.001 %

Fe ..... max. 0.001 %
Mn ..... max. 0.00005 %
Pb ..... max. 0.005 %

Code	Packaging
A2941,0100	100 g

A1142 Ammonium Persulfate BioChemica

Specifications
Assay (titr.) ..... min. 98 %
Free acid ..... max. 0.1 %
pH (5 %; H_2O; 20 °C) 3.0-4.0

Residue on ignition ..... max. 0.05 %
Chlorate ..... max. 0.001 %
Chloride ..... max. 0.001 %
Fe ..... max. 0.001 %

Mn ..... max. 0.00005 %
Pb ..... max. 0.005 %

Code	Packaging
A1142,0250	250 g

Ammonium Phosphate di-Basic see di-Ammonium Hydrogen Phosphate

Ammonium Phosphate mono-Basic see Ammonium di-Hydrogen Phosphate

Ammonium Purpurate see Murexide (C.I. 56085)

Ammonium Sodium Hydrogen Phosphate 4-hydrate

Sodium Ammonium Hydrogen Phosphate

$NaNH_4HPO_4 \cdot 4H_2O$
M = 209.07 g/mol
CAS 13011-54-6
EINECS 235-860-8
CS 28352990

Melting Point ..... 79 °C
Solubility ..... water 167 g/l at 20 °C
Solid

WGK 3
Storage RT

121727 Ammonium Sodium Hydrogen Phosphate 4-hydrate (Reag. USP) for analysis

Specifications
Minimum assay (Acidim.) ..... 99 %

Maximum limit of impurities
Insoluble matter in NH_4OH ..... 0.01 %

Chloride (Cl) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %
Nitrate (NO_3) ..... 0.002 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0001 %

Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
121727.0416	25 kg

Ammonium Sulfate

$(NH_4)_2SO_4$
M = 132.14 g/mol
CAS 7783-20-2
EINECS 231-984-1
CS 31022100

Melting Point ..... 280 °C (dec.)
Solubility ..... 760 g/L (H_2O)
Solid

WGK 1
Storage RT

131140 Ammonium Sulfate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (Acidim.) ..... 99.0 %
pH of 5 % solution 5.0-6.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 100 °C ..... 0.1 %
Residue on ignition (as SO_4) ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Phosphate (PO_4) ..... 0.0005 %
Nitrate (NO_3) ..... 0.001 %

As ..... 0.00002 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Al 5
Au 5
B 5
Be 5
Bi 5
Ca 10
Cd 5
Co 5
Cr 5
Cu 5
Fe 5
Ga 5
Ge 5
Hg 5
K 20
Mn 5
Na 20
Pb 5
Sb 5
Sn 5
In 5
Mg 5
Mo 5
Ni 5
Pt 5
Si 5
Sr 5

Code	Packaging
131140.1210	500 g
131140.1211	1000 g
131140.1214	5 kg
131140.0416	25 kg

141140 Ammonium Sulfate pure

Specifications
Assay (Acidim.) ..... 99 %
pH of 5 % solution 5.0-6.0
Residue on ignition (as SO_4) ..... 0.25 %
Chloride (Cl) ..... 0.002 %

Nitrate (NO_3) ..... 0.002 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0005 %
Ca ..... 0.002 %
Cu ..... 0.002 %

Fe ..... 0.001 %
K ..... 0.002 %
Na ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.001 %

Code	Packaging
141140.1211	1000 g
141140.1214	5 kg
141140.0416	25 kg

A3485 Ammonium Sulfate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.5 %
pH (5 %; H_2O) ..... 5.0-6.0 (20 °C)
Chloride ..... max. 0.001 %
Nitrate ..... max. 0.001 %
Phosphate ..... max. 0.0005 %
As ..... max. 0.0001 %
Ca ..... max. 0.001 %
Cu ..... max. 0.0005 %
Fe ..... max. 0.0005 %
K ..... max. 0.002 %
Mg ..... max. 0.0005 %
Na ..... max. 0.002 %
Pb ..... max. 0.0005 %
Zn ..... max. 0.0002 %

Code	Packaging
A3485,1000	1 kg
A3485,5000	5 kg

A1032 Ammonium Sulfate BioChemica

Specifications
Assay (titr.) ..... min. 99.5 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 20 °C) 5.0-6.0
Chloride ..... max. 0.001 %
Nitrate ..... max. 0.001 %
Phosphate ..... max. 0.0005 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.4
280 nm ..... max. 0.4

Code	Packaging
A1032,1000	1 kg
A1032,5000	5 kg

Ammonium Sulfide solution 20 % w/w

Ammonium Sulphydrate

$(NH_4)_2S$
M = 68.14 g/mol
CAS 12135-76-1
EINECS 235-223-4
CS 28309085

Boiling Point ..... 40 °C
Density ..... 1.000 kg/l
Solubility ..... Soluble in water.
Liquid

UN2683
Class/PG 8(3)(6.1)/II
ADR 8(3)(6.1)/II · IMDG 8(3)(6.1)/II · IATA 8(3)(6.1)/II
WGK 3
Storage RT

Danger



EUH031 H314

143299 Ammonium Sulfide solution 20 % w/w pure

Specifications
Assay (Iodom.) ..... 20 %
Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.05 %
Ca ..... 0.003 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.001 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
143299.1611	1000 ml

Ammonium Thiocyanate

Ammonium Rhodanide, Ammonium Sulphocyanide

NH_4SCN
M = 76.12 g/mol
CAS 1762-95-4
EINECS 217-175-6
CS 28429080
Index Nr. 615-004-00-3

Melting Point ..... 150 °C
Solubility ..... water 1,650 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H332 H312 H302 EUH032 H412

131143 Ammonium Thiocyanate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (Arg.) ..... 99.0 %
pH of 5 % solution 4.5-6.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4) ..... 0.025 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %
Sulfide (S) ..... 0.001 %
Iodine-reducing substances ..... 0.002 meq/g
Heavy metals (as Pb) ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0001 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
131143.1210	500 g
131143.1211	1000 g
131143.0416	25 kg

141143 Ammonium Thiocyanate pure

Specifications
Assay (Arg.) ..... 99 %
pH of 5 % solution 4.5-6.0
Insoluble matter in H_2O ..... 0.02 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Sulfide (S) ..... 0.005 %
Heavy metals (as Pb) ..... 0.002 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141143.1210	500 g
141143.1211	1000 g

Ammonium Thiocyanate 0.1 mol/l (0.1N)

Ammonium Rhodanide, Ammonium Sulphocyanide

NH_4SCN
M = 76.12 g/mol
CAS 1762-95-4
EINECS 217-175-6
CS 28429080

Density ..... 1.001 kg/l
Liquid

WGK 1
Storage RT

181144 Ammonium Thiocyanate 0.1 mol/l (0.1N) (Reag. USP, Ph. Eur.) volumetric solution

Standardised against Silver Nitrate 0.1M Indicator: Ammoniacal Iron Alum

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181144.1211	1000 ml

AMP Disodium Salt 2-hydrate see Adenosine 5'-Monophosphoric Acid Disodium Salt

AMP-Na see Adenosine 5'-Monophosphoric Acid Disodium Salt

HebaPeaKTMB

Amphotericin B

Origin from *Streptomyces ssp.*

$C_{47}H_{73}NO_{17}$
M = 924.10 g/mol
CAS 1397-89-3
EINECS 215-742-2
CS 29419000

Solid

WGK 3
Storage 2-8 °C
Storage protected from light

Warning



H315 H319 H335

A1907 Amphotericin B BioChemica

Specifications
Activity ..... min. 750 I.U./mg
Loss on drying (60 °C; 0.7 kPa) ..... max. 5 %
Solubility ..... clear, orange
(10 %, DMF/1 M HCl 3 : 1)
Sulfated ash ..... max. 3 %
UV spectrum ..... passes test
Amphotericin A ..... max. 15 %

Code	Packaging
A1907,0050	50 mg
A1907,0250	250 mg
A1907,0500	500 mg
A1907,0001	1 g
A1907,9025	25 g
A1907,9100	100 g

A7009 Amphotericin B (Ph. Eur.) pure, pharma grade

Specifications
Activity (dried subst.) ..... min. 750 IU/mg
Identity ..... passes test
Loss on drying (60 °C; 0.7 kPa) .... max. 5.0 %
Related subst. (HPLC) ..... passes test
Sulfated ash ..... max. 3.0 %

Code	Packaging
A7009,0001	1 g

Ampicillin 3-hydrate

D(-)-α-Aminobenzylpenicillin, p-Hydroxyampicillin

$C_{16}H_{19}N_3O_4S \cdot 3H_2O$
M = 403.45 g/mol
CAS 7177-48-2
EINECS 200-709-7
CS 29411000

Solid

WGK 2
Storage 2-8 °C

Danger



H315 H317 H319 H334 H335

A7492 Ampicillin 3-hdrate for molecular biology

Specifications
Assay (titr.) ..... min. 96 %
α20 °C/D; 0.25 %, H_2O ..... 280-305°
Loss on drying ..... 12.0-15.0 %
pH (0.25 %; H_2O) 3.5-5.5

Code	Packaging
A7492,0010	10 g
A7492,0025	25 g
A7492,0100	100 g

Ampicillin Sodium Salt

D(-)-α-Aminobenzylpenicillin Sodium Salt

$C_{16}H_{18}N_3NaO_4S$
M = 371.39 g/mol
CAS 69-52-3
EINECS 200-708-1
CS 29411000

Melting Point ..... 212-215 °C (dec.)
Solid

Storage RT

Danger



H317 H334

A0839 Ampicillin Sodium Salt BioChemica

Specifications
Assay (HPLC) ..... 91.0-102.0 %
α20 °C/D; 0.2 %, H_2O ..... 258-287°
Heavy metals ..... max. 0.002 %
pH (10 %; H_2O; 20 °C) 8.0-10.0
Water (K.F.) ..... max. 2 %

Code	Packaging
A0839,0010	10 g
A0839,0025	25 g
A0839,0100	100 g
A0839,0250	250 g
A0839,1000	1 kg

A6352 Ampicillin Sodium Salt (Ph. Eur.) pure, pharma grade

Specifications
Assay
(HPLC, anhydrous subst.) ..... 91.0-102.0 %
α20 °C/D; 0.25 %, Potassium hydrogen phthalate sol. 4 g/L, anhydrous subst. ..... 258-287°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.002 %
Identity ..... passes test
pH (10 %; H_2O) 8.0-10.0
Related subst. (HPLC) ..... passes test
2-Ethylhexanoic acid ..... max. 0.8 % (w/w)
Dichloromethane (G.C.) ..... max. 0.2 % (w/w)
N,N-Dimethylaniline ..... max. 0.002 %
Water (K.F.) ..... max. 2.0 %

Code	Packaging
A6352,0025	25 g
A6352,0100	100 g
A6352,0250	250 g

n-Amyl Alcohol see 1-Pentanol

Amyl Alcohol according to NF V 04-210

$C_5H_{12}O$
M = 88.15 g/mol
EINECS 204-633-5
CS 29051900
Index Nr. 603-006-00-7

Boiling Point ..... 130 °C
Density ..... 0.813 kg/l
Solubility ..... Soluble in water.
Liquid

UN1105
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Warning



H226 H332 H335 EUH066

125715 Amyl Alcohol according to NF V 04-210 for analysis

Determination of fat in milk

Specifications
Minimum Assay (G.C.) (as 3-Methyl-1-Butanol / 2-Methyl-1-Butanol) ..... 98 %
Assay (as 3-Methyl-1-Butanol)
(G.C.) ..... 7-11 %
Assay (as 3-Methyl-1-Butanol)
(G.C.) ..... 89-93 %
Density 20/4 ..... 0.808-0.818
Range of Distillation ..... 128-132 °C

Maximum limit of impurities
Non-volatile matter ..... 0.005 %
Furfuraldehyde and other
organic impurities ..... passes test
Fat ..... passes test
Water (H_2O) ..... 0.5 %

Code	Packaging
125715.1611	1000 ml

α-Amylase from Pancreas, human

1,4-α-D-Glucan-Glucanohydrolase

Origin from human pancreas

CAS 9000-90-2
CS 35079090
Index Nr. 647-015-00-4

Storage 2-8 °C

Danger



H334

A6949 α-Amylase from pancreas, human

[EC 3.2.1.1]

Solution in 100 mM Tris · HCl, 150 mM NaCl, 1 mM $CaCl_2$, pH 7.5

Specifications
Activity (37 °C) ..... approx. 400 U/ml
Protein ..... min. 1 mg/ml

Code	Packaging
A6949,0010	10 U

α-Amylase from Saliva, human

1,4-α-D-Glucan-Glucanohydrolase

Origin from human saliva

CAS 9000-90-2
CS 35079090
Index Nr. 647-015-00-4

Solid

Storage -20 °C

Danger



H334

A6948 α-Amylase from Saliva, human

[EC 3.2.1.1]

lyophilized from 150 mM NaCl, 20 mM Tris, 1 mM $CaCl_2$, pH 7.2

Specifications
Assay ..... Control Grade
Activity (37 °C) ..... typ. min. 100 U/mg
Appearance ..... off-white powder

Code	Packaging
A6948,0500	500 U
A6948,5000	5000 U

7-Angelyleuropine see Lasiocarpine-N-oxide

Aniline

Benzenamine, Phenylamine

$C_6H_5NH_2$
M = 93.13 g/mol
CAS 62-53-3
EINECS 200-539-3
CS 29214100
Index Nr. 612-008-00-7

Melting Point ..... -6.3 °C
Boiling Point ..... 184 °C
Density ..... 1.022 kg/l
Solubility ..... water 34 g/l at 20 °C
Refractive Index n20/D 1.5863
Liquid

UN1547
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage RT

Danger



H331 H311 H301 H351 H318 H317 H372 H341 H400

131156 Aniline (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 1.021-1.023

Maximum limit of impurities
APHA colour 250
Residue on ignition ..... 0.005 %
Chlorobenzene (G.C.) ..... 0.01 %
Hydrocarbons ..... passes test
Nitrobenzene (G.C.) ..... 0.001 %
Water (H_2O) ..... 0.1 %
Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.000002 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
131156.1609	250 ml

141156 Aniline pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 1.021-1.023
Residue on ignition ..... 0.01 %
Nitrobenzene (G.C.) ..... 0.01 %
Water (H_2O) ..... 0.2 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141156.1611	1000 ml

151156 Aniline, 99 % for synthesis

Specifications
Assay ..... 99 %
Identity ..... IR passes test

Code	Packaging
151156.1611	1000 ml

Aniline Blue WS (C.I. 42755)

Acid Blue 22, Porriers Blue, Water Blue

$C_{32}H_{25}N_3Na_2O_9S_3$
M = 737.74 g/mol
CAS 28631-66-5
EINECS 249-113-9
CS 32041200

Solubility ..... Miscible with alcohol and glycerol
Solubility ..... alcohol 0.4 g/l
Solid

WGK 2
Storage RT

253708 Aniline Blue WS (C.I. 42755) for clinical diagnosis

for microscopy, collagen staining

Specifications
Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 1.00-1.03
λ_{max} ABS in H_2O ..... 585-595 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 110 °C ..... 10 %

Code	Packaging
253708.1606	25 g

Printed on FSC® certified paper from well managed forests

8-Anilinonaphthalene-1-Sulfonic Acid Ammonium Salt

8-Quinolinol, ANS-NH_4

$C_{16}H_{16}N_2O_3S$
M = 316.37g/mol
CAS 28836-03-5
EINECS 249-265-6
CS 29214900

Solid

WGK 3
Storage RT

Warning



H315 H319 H335

A5350 8-Anilinonaphthalene-1-Sulfonic Acid Ammonium Salt BioChemica

Specifications
Assay (HPLC) .....min. 98 %
^{1}H-NMR spectrum ..... passes test
$A_{546\,nm}$ (0.3 % in H_2O) ..... max. 0.06
Solubility (1 %; H_2O) ..... clear
UV spectrum ..... passes test
Water (K.F.) .....max. 5 %

Code	Packaging
A5350,5000	5 kg

Anisomycin

Flagecidin, (2R,3S,4S)-2-(4-Methoxybenzyl)-3,4-Pyrolidinediol-3-Acetate

Origin from *Streptomyces griseolus*

$C_{14}H_{19}NO_4$
M = 265.30 g/mol
CAS 22862-76-6
EINECS 245-269-7
CS 29419000

Melting Point .....139-141 °C
Solid

UN3462
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage 2-8 °C
Storage protected from light

Danger



H301

A7650 Anisomycin BioChemica

Specifications
Assay (HPLC) .....min. 98 %
Elemental analysis .....result must conform

Code	Packaging
A7650,0025	25 mg

Anthracenedione see Anthraquinone

Anthraquinone

9,10-Anthracenedione, 9,10-Dioxoanthracene

$C_{14}H_8O_2$
M = 208.22 g/mol
CAS 84-65-1
EINECS 201-549-0
CS 29146100

Melting Point ..... 286 °C
Boiling Point ..... 377 °C
Solubility ..... Insoluble in water
Solid

Storage RT

15A718 Anthraquinone, 98 % for synthesis

Specifications
Minimum assay (Spectrophotometric) .... 98 %
Identity ..... IR passes test
Melting range .....283-286 °C

Code	Packaging
15A718.0415	10 Kg

Anthrone

9(10H)-Anthracenone, 9,10-Dihydro-9-Oxoanthracene, Carbothrone

$C_{14}H_{10}O$
M = 194.22 g/mol
CAS 90-44-8
EINECS 201-994-0
CS 29143900

Melting Point ..... 155 °C
Solubility ..... Insoluble in water
Solid

WGK 2
Storage RT

132441 Anthrone (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 98 %
Identity .....IR passes test
Melting range ..... 154.5-157.5 °C

Maximum limit of impurities
Insoluble matter in $CH_3COOC_2H_5$. passes test
Insoluble matter in toluene .....passes test
Loss on drying at 105 °C ..... 0.5 %
Sensitivity to carbohydrates .....passes test
Absorbance .....passes test
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %
Sn ..... 0.005 %

Code	Packaging
132441.1605	10 g

Antibiotic A3 see Trichostatin A

Antibiotic AM-2282 see Staurosporine

Antibiotic AY 22989 see Rapamycin

Antibiotic K178 see Nigericin Sodium Salt

Antibiotic Medium 13 see Glucose Sabouraud Broth (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Antibody Labeling Kit Colorada 550 see Colorada 550 Antibody Labeling Kit

Antibody Labeling Kit Colorada 645 see Colorada 645 Antibody Labeling Kit

Antibody Labeling Kit Colorada 678 see Colorada 678 Antibody Labeling Kit

HeBaPeaKTMB

Antibody Stabilizer-PBS

9,10-Dioxoanthracene, Antibody stabilizer (PBS-based)

CS 38220000

Storage 2-8 °C
Storage Avoid freezing!

A7148 Antibody Stabilizer-PBS

Specifications
stabilizes the structure of proteins during storage in the refrigerator
suited for storage of coated ELISA plates

ready-to-use; stabilised with 0.1 % ProClin® 300; pH 7.4
PBS-based stabilization buffer for long-term storage of antibodies and proteins

Code	Packaging
A7148,0050	50 ml

Antichlor see Sodium Thiosulfate anhydrous

Antimycin see Citrinin

Antipain Dihydrochloride

$C_{27}H_{44}N_{10}O_6 \cdot 2HCl$
M = 677.63 g/mol
CAS 37682-72-7
CS 29419000

Solid

Storage -20 °C

A2129 Antipain Dihydrochloride BioChemica

Specifications
Inhibitory activity (Trypsin, L-BAPA) .....> 30 U/mg (pH 7.8, 25 °C)

Code	Packaging
A2129,0010	10 mg
A2129,0025	25 mg

(+)-Aphidicolin

Origin from *Nigrospora oryzae*

$C_{20}H_{34}O_4$
M = 338.48 g/mol
CAS 38966-21-1
CS 29061900

Melting Point .....226-233 °C
Solid

Storage 2-8 °C
Storage protected from light

A7633 (+)-Aphidicolin BioChemica

Specifications
Assay (TLC) .....min. 98 %
Solubility (10 mg/ml MeOH) .....clear, colorless

Code	Packaging
A7633,0001	1 mg

Apigenin

4',5,7-Trihydroxyflavone

Origin from *Chamomillae romana*

$C_{15}H_{10}O_5$
M = 270.23 g/mol
CAS 520-36-5
CS 29329900

Solid

Storage 2-8 °C

Warning



H315 H319 H335

A3388 Apigenin for HPLC

Specifications
Assay .....min. 99 %

Code	Packaging
A3388,0020	20 mg

Apigenin-7-Glucoside

Cosmosiin, 7-Glucosylapigenin, Apigetrin

Origin from *Chamomillae romana*

$C_{21}H_{20}O_{10}$
M = 432.38 g/mol
CAS 578-74-5
CS 29389090

Solid

Storage 2-8 °C

A6744 Apigenin-7-Glucoside pure

Specifications
Assay .....min. 97 %

Code	Packaging
A6744,0100	100 mg

APMSF Hydrochloride

4-Amidinophenylmethanesulfonyl Fluoride Hydrochloride, p-APMSF

$C_8H_9FN_2O_2S \cdot HCl$
M = 252.69 g/mol
CAS 74938-88-8
CS 29252900

Melting Point .....190-192 °C (dec.)
Solid

Storage -20 °C

A0998 APMSF Hydrochloride BioChemica

Specifications
Assay (NMR) .....min. 95 %

Code	Packaging
A0998,0050	50 mg
A0998,0100	100 mg

HeBaPeaKTMB

AppliClear (Xylene substitute)

Xylene substitute

CAS 64742-49-0
EINECS 265-151-9
CS 27101121
Index Nr. 649-328-00-1

Liquid

UN3295
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Danger



H225 H304 H336 H411

A4632 AppliClear (Xylene substitute)

Specifications
Boiling range ..... 140-165 °C
Density (15 °C) ..... 0.746-0.765 g/cm³
n20 °C/D 1.413-1.471
Aromates ..... max. 0.01 %
Benzene ..... max. 0.0002 %

Code	Packaging
A4632,2500	2.5 L

AppliClear-Water

Water bath disinfection

CS 38220000

Storage RT

A7004 AppliClear-Water

Biocide is a quaternary ammonium compound.

Specifications
germ-killing effect on microorganisms
1 ml sufficient for 1 liter

with color indicator (blue to colorless)
biodegradable, nontoxic
Concentrate for the prevention of growth of algae and moulds in water baths

Code	Packaging
A7004,0100	100 ml
A7004,0250	250 ml

AppliCoat Plate Stabilizer

Stabilizer for coated surfaces in immunoassays

CS 38220000

Storage 2-8 °C

A7708 AppliCoat Plate Stabilizer

Specifications
Preservation of coated microtiter plates, polystyrene beads or glass slides

preserves coated plates for 3 months up to 3 years depending on application
free of proteins

Solution for stabilizing coated surfaces in immunoassays
pH ..... approx. 6.5

Code	Packaging
A7708,0500	500 ml

AppliFect

Transfection reagent AppliFect

CS 38220000

Storage 2-8 °C

A8886 AppliFect

Reagent for transfection of eukaryotic cells with nucleic acids

Specifications
for adherent or suspension cells
no serum inhibition
applicable for sensitive cells

polycationic reagent
sufficient for approx. 200 (6-well) transfections per ml
for transient or stable transfection

Code	Packaging
A8886,0001	1 ml

AppliFect LowTox

Transfection reagent for very sensitive cells

CS 38220000

Storage -20 °C

A9027 AppliFect LowTox

Reagent for transfection of very sensitive, eukaryotic cells.

Specifications
very high expression rate
approx. 500 (24-well) or approx. 200 (6-well)

transfections per 1 ml
lowest toxicity

Code	Packaging
A9027,0001	1 ml

AppliXchange-G25 F

Size-exclusion chromatography matrix, Gel filtration matrix based on dextran composite

CAS 9041-35-4
CS 39139000

Solid

Storage RT

A9384 AppliXchange-G25 F

Specifications
Properties
Fractionation range: M_r 1000-5000 (globular proteins)
Size exclusion cut-off: 10 kD/10 bp

Autoclavable, at 121 °C, pH 7 for 30 minutes
Appearance ..... white solid
Dry particle size ..... 20-80 µm (> 80 %)

Code	Packaging
A9384,0100	100 g
A9384,0250	250 g
A9384,0500	500 g

AppliXchange-G25 M

Size-exclusion chromatography matrix, Gel Filtration Matrix Dextran-based

CAS 9041-35-4
CS 39139000

Storage RT
Storage Do not freeze!

A8507 AppliXchange-G25 M

Specifications
Properties
Fractionation range: M_r 1000-5000 (globular proteins)

Fractionation range (dextrans) - M_r 100-5000
pH stability 2.0 to 13.0
Autoclavable at 121 °C, pH 7 for 30 minutes

Dry particle size ..... 50-150 µm
Wet particle size ..... 82-260 µm

Code	Packaging
A8507,0100	100 g
A8507,5000	5 kg

НеВаРеактив

НеваРеактив

AppliXchange-G25 SF

Gel filtration matrix based on dextran composite, Size-exclusion chromatography matrix

CAS 9041-35-4
CS 39139000

Storage 2-8 °C

A9425 AppliXchange-G25 SF

Specifications
Properties
Fractionation range: M_r 1000-5000 (globular proteins)
Size exclusion cut-off: 10 kD/10 bp

Autoclavable, at 121 °C, pH 7 for 30 minutes
Appearance ..... white solid
Dry particle size .....20-50 µm (> 80 %)

Code	Packaging
A9425,0100	100 g
A9425,0250	250 g
A9425,0500	500 g

AppliXchange-G50 F

Size-exclusion chromatography matrix, Gel filtration matrix based on dextran composite

CAS 9048-71-9
CS 39139000

Storage RT

A9401 AppliXchange-G50 F

Specifications
Properties
Fractionation range: M_r 1500-30000 (globular proteins)
Size exclusion cut-off: 25 kD/20 bp

Autoclavable, at 121 °C, pH 7 for 30 minutes
pH stability: 2-10
Appearance ..... white solid
Dry particle size .....20-80 µm (> 80 %)

Swelling behavior .....9-11 ml/g
Water absorption .....4.8-5.2 ml/g

Code	Packaging
A9401,0100	100 g
A9401,0250	250 g
A9401,0500	500 g

AppliXchange-G50 M

Size-exclusion chromatography matrix, Gel filtration matrix based on dextran composite

CAS 9048-71-9
CS 39139000

Storage RT

A9415 AppliXchange-G50 M

Specifications
Properties
Fractionation range: M_r 1500-30000 (globular proteins)
Size exclusion cut-off: 25 kD/20 bp

Autoclavable, at 121 °C, pH 7 for 30 minutes
pH stability: 2-10
Appearance ..... white solid
Dry particle size .....50-150 µm (> 80 %)

Swelling behavior .....9-11 ml/g
Water absorption .....4.95-5.05 ml/g

Code	Packaging
A9415,0100	100 g
A9415,0250	250 g
A9415,0500	500 g

AppliXchange-G50 SF

Gel filtration matrix based on dextran composite, Size-exclusion chromatography matrix

CAS 9048-71-9
CS 39139000

Solid

Storage RT

A9292 AppliXchange-G50 SF

Specifications
Properties
Fractionation range: M_r 1500-30000 (globular proteins)
Size exclusion cut-off: 25 kD/20 bp

Autoclavable, at 121 °C, pH 7 for 30 minutes
pH stability: 2-10
Appearance ..... white solid
Dry particle size .....20-50 µm (> 80 %)

Swelling behavior .....9-11 ml/g
Water absorption .....4.80-5.20 ml/g

Code	Packaging
A9292,0100	100 g
A9292,0250	250 g
A9292,0500	500 g

Apramycin Sulfate

Nebramycin II

$C_{21}H_{41}N_5O_{11}$
M = 637.66 g/mol
CAS 65710-07-8
EINECS 265-890-7
CS 29419000

Solid

WGK 3
Storage 2-8 °C
Storage protected from light

Danger



H315 H319 H360D

A7682 Apramycin Sulfate BioChemica

Specifications
Assay (calc on dried subst.) ..... min. 550 U/mg

Solubility (1 %; H_2O) .....clear
Loss on drying ..... max. 10.0 %

Code	Packaging
A7682,0005	5 g

Aprotinin

Trasylol®

Origin from bovine lung

$C_{284}H_{432}N_{84}O_{79}S_7$
M = 6511.52 g/mol
CAS 9087-70-1
CS 35040090

Solid

WGK 1
Storage 2-8 °C

A2132 Aprotinin BioChemica

® registered trademark of Bayer AG

Specifications
Assay (protein) .....min. 90 %
Activity (KIU/mg) .....min. 5500

pH (1 %; H_2O) 5.0-7.5
Water (K.F.) ..... max. 6 %

Code	Packaging
A2132,0010	10 mg
A2132,0025	25 mg
A2132,0100	100 mg

НеваРеактив

Aquabator-Clean™

CS 38220000

Storage protected from light
Storage 2-8 °C

A9390 Aquabator-Clean™ (100X)

• Aquabator-Clean™ is a registered trademark of AppliChem GmbH

Specifications
for the prevention of microbial growth in water baths

100X concentrated solution (Use 10 ml per 1 liter of water.)
Disinfectant solution for ordinary water baths

(not for CO_2-incubators!)

Code	Packaging
A9390,0250	250 ml

AQUAMETRIC, Karl Fischer Reagents without Pyridine

285813 AQUAMETRIC Composite 2 for volumetric analysis

for volumetric Karl Fischer titrations. One-component reagent. 1 ml corresponds to 2 mg of H_2O

CS 38220000

Boiling Point ..... 194 °C
Density .....1.110 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314 H319 H360D H302 H332

Specifications
1 ml corresponds to: ..... min. 2,0 mg of H_2O*

Protect from moisture.
* At the moment of the batch analysis.

Code	Packaging
285813.1611	1000 ml

285812 AQUAMETRIC Composite 5 for volumetric analysis

for volumetric Karl Fischer titrations. One-component reagent. 1 ml corresponds to ~ 5 mg of H_2O

CS 38220000

Boiling Point ..... 194 °C
Density .....1.170 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314 H319 H360D H372 H302 H332

Specifications
1 ml corresponds
to: .....min. 5,0 mg of H_2O (20 °C)*
Protect from moisture.
* At the moment of the batch analysis.

Code	Packaging
285812.1610	500 ml
285812.1611	1000 ml
285812.1612	2.5 l

171091 Methanol according to Karl Fischer

for aquametry

Carbinol, Methyl Alcohol

CH_3OH
M = 32.04 g/mol
CAS 67-56-1
EINECS 200-659-6
CS 29051100
Index Nr. 603-001-00-X

Melting Point .....-97.8 °C
Boiling Point .....64-65 °C
Density .....0.792 kg/l
Refractive Index n20/D 1.3292
Liquid

UN1230
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 1
Storage RT

Danger



H225 H331 H311 H301 H370

Specifications
Minimum assay (G.C.) ..... 99.5 %
Density 20/4 ..... 0.791-0.792

Maximum limit of impurities
Water (H_2O) .....0.01 %

Code	Packaging
171091.1611	1000 ml
171091.1612	2.5 l

281956 Formamide AQUAMETRIC KF dry for volumetric analysis

for volumetric Karl Fischer titrations

Carbamaldehyde, Formic Acid Amide, Methanamide

$HCONH_2$
M = 45.04 g/mol
CAS 75-12-7
EINECS 200-842-0
CS 29241900
Index Nr. 616-052-00-8

Melting Point ..... 2.5 °C
Boiling Point ..... 210.5 °C
Density .....1.134 kg/l
Liquid

WGK 1
Storage RT

Danger



H360D

Specifications
Minimum assay (G.C.) ..... 99.5 %
Density 20/4 ..... 1.132-1.135

Maximum limit of impurities
Water (H_2O) .....0.03 %

Code	Packaging
281956.1611	1000 ml

286154 AQUAMETRIC Solvent Oil B for volumetric analysis

for volumetric Karl Fischer titrations in used industrial oils. Use with AQUAMETRIC Composite 5

CS 38220000

Density .....0.967 kg/l
Liquid

UN1992
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 1
Storage RT

Danger



H225 H331 H311 H301 H315 H351 H370 H373 H411 H361f H304 H336

Specifications
Suitability: for H_2O determination . passes test

Close the bottle immediately after use.
Protect from moisture.

Code	Packaging
286154.1611	1000 ml

285814 AQUAMETRIC Composite 5K for volumetric analysis

for volumetric Karl Fischer titrations in ketones and aldehydes. One-component reagent. 1 ml corresponds to ~ 5 mg of H_2O

CS 38220000

Boiling Point ..... 194 °C
Density .....1.170 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314 H319 H360D H372 H302 H332

Specifications
1 ml corresponds
to: .....mg of H_2O (20 °C)*
Protect from moisture.
* At the moment of the batch analysis.

Code	Packaging
285814.1611	1000 ml

HebaPeakTMB

285821 AQUAMETRIC Working Medium for volumetric analysis

for volumetric Karl Fischer titrations in ketones and aldehydes. Use with AQUAMETRIC Composite 5K

CS 38220000

Boiling Point ..... 60 °C
Density .....1.356 kg/l
Liquid

UN2810
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 1
Storage RT

Danger



H330 H310 H300 H315 H351 H373

Specifications
Suitability: for H_2O determination ..... passes test
Protect from moisture.

Code	Packaging
285821.1611	1000 ml

285816 AQUAMETRIC Titrant 2 for volumetric analysis

for volumetric Karl Fischer titrations. 1 ml corresponds to min. 2,0 mg of H_2O (20 °C). Use with AQUAMETRIC Solvent

CS 38220000

Density .....0.80 kg/l
Liquid

UN1992
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 1
Storage RT

Danger



H225 H331 H311 H301 H370 H411

Specifications
1 ml corresponds to: .....min. 2,0 mg of H_2O (20 °C)*

Protect from moisture.
* At the moment of the batch analysis.

Code	Packaging
285816.1611	1000 ml

285815 AQUAMETRIC Titrant 5 for volumetric analysis

for volumetric Karl Fischer titrations. 1 ml corresponds to min. 5,0 mg of H_2O (20 °C). Use with AQUAMETRIC Solvent

CS 38220000

Density .....0.85 kg/l
Liquid

UN1992
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 1
Storage RT

Danger



H225 H331 H311 H301 H370 H411

Specifications
1 ml corresponds to: .....min. 5,0 mg of H_2O (20 °C)*

Protect from moisture.
* At the moment of the batch analysis.

Code	Packaging
285815.1611	1000 ml
285815.1612	2.5 l

285817 AQUAMETRIC Solvent for volumetric analysis

for volumetric Karl Fischer titrations. Use with AQUAMETRIC Titrant

CS 38220000

Boiling Point ..... 65 °C
Density .....0.877 kg/l
Liquid

UN3286
Class/PG 3(6.1)(8)/II
ADR 3(6.1)(8)/II · IMDG 3(6.1)(8)/II · IATA 3(6.1)(8)/II
WGK 1
Storage RT

Danger



H225 H331 H311 H301 H314 H370

Specifications
Suitability: for H_2O determination . passes test
Close the bottle immediately after use.
Protect from moisture.

Code	Packaging
285817.1611	1000 ml
285817.1612	2.5 l

285819 AQUAMETRIC Solvent CM for volumetric analysis

for volumetric Karl Fischer titrations in oils and fats. Use with AQUAMETRIC Titrant

CS 38220000

Boiling Point .....60-65 °C
Density .....1.277 kg/l
Liquid

UN1992
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 1
Storage RT

Danger



H226 H301 H331 H319 H373 H315 H370 H360D H351 H311

Specifications
Suitability: for H_2O determination . passes test
Close the bottle immediately after use.
Protect from moisture.

Code	Packaging
285819.1611	1000 ml
285819.1612	2,5 l

286181 AQUAMETRIC Coulomat A for volumetric analysis

anolyte for the coulometric determination of water. Use with AQUAMETRIC Coulomat C

CS 38220000

Density .....1.105 kg/l
Solubility ..... Very slightly soluble in water.
Liquid

UN2924
Class/PG 3(8)/III
ADR 3(8)/III · IMDG 3(8)/III · IATA 3(8)/III
WGK 1
Storage RT

Danger



H225 H331 H311 H301 H314 H370 H351 H373 H371

Specifications
Suitability: for H_2O determination . passes test
Contains: Methanol, Trichloromethane, Imidazole, Sulfur Dioxide, Iodine.

Code	Packaging
286181.1610	500 ml

286182 AQUAMETRIC Coulomat C for volumetric analysis

catholyte for the coulometric determination of water. Use with AQUAMETRIC Coulomat A

CS 29031400

Density .....1.004 kg/l
Solubility ..... Very slightly soluble in water.
Liquid

UN3286
Class/PG 3(6.1)(8)/II
ADR 3(6.1)(8)/II · IMDG 3(6.1)(8)/II · IATA 3(6.1)(8)/II
WGK 1
Storage RT

Danger



H225 H331 H311 H301 H314 H370 H351 H361d H372 H420

Specifications
Suitability: for H_2O determination . passes test
Contains: Methanol, Iodine, Sulfur Dioxide, Ethanolamine, Carbon Tetrachloride.

Code	Packaging
286182.1606	25 ml

HeBaPeaKTMB

D-Arabinose

$C_5H_{10}O_5$
M = 150.13 g/mol
CAS 10323-20-3
EINECS 233-708-5
CS 29400000

Solid

Storage RT

A5025 D-Arabinose BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 10 %, H_2O, 24 h ..... -104° ± 2°
Heavy metals (as Pb) ..... max. 0.001 %
Residue on ignition ..... max. 0.1 %
Water (K.F.) ..... max. 0.5 %

Code	Packaging
A5025,0025	25 g

L(+)-Arabinose

$C_5H_{10}O_5$
M = 150.13 g/mol
CAS 5328-37-0
EINECS 226-214-6
CS 29400000

Melting Point ..... 160 °C
Solubility ..... Soluble in water.
Solid

Storage RT

A9728 L(+)-Arabinose BioChemica

Specifications
Minimum assay ..... 98 %

Maximum limit of impurities
Residue on ignition (as SO_4) ..... 0.2 %
Water (H_2O) ..... 2 %

Code	Packaging
A9728,0100	25 g
A9728,0500	500 g

L-Arginine base

2-Amino-5-Guanidinopentanoic Acid, 2(S)-Amino-5-Guanidinovaleric Acid

$C_6H_{14}N_4O_2$
M = 174.20 g/mol
CAS 74-79-3
EINECS 200-811-1
CS 29224985

Melting Point ..... > 225 °C (dec.)
Solubility ..... 150 g/L (H_2O)
Solid

WGK nwg
Storage RT

Warning



H319

A3653 L-Arginine base Cell culture grade

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... min. 99 %
α20 °C/D; 8 %, 6 M HCl ..... 26.3-27.7°
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
As ..... max. 0.0001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A3653,1000	1 kg

A3675 L-Arginine base BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 8 %, 6 M HCl ..... 26.3-27.7°
Heavy metals (as Pb) ..... max. 0.001 %
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
A (1 cm/0.5 M in H_2O)
260 nm ..... max. 0.2
280 nm ..... max. 0.1

Code	Packaging
A3675,0100	100 g
A3675,0500	500 g
A3675,1000	1 kg

A1345 L-Arginine base (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 8 %, HCl 250 g/L, calc on dried subst. ..... 25.5-28.5°
α25 °C/D; 8 %, 6 M HCl ..... 26.3-27.7°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.5 %
Sulfated ash ..... max. 0.1 %
Ninhydrin positive substances ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.001 %

Code	Packaging
A1345,0500	500 g
A1345,1000	1 kg
A1345,9010	10 kg

L-Arginine Hydrochloride

L-2-Amino-5-Guanidino-n-Valerianic Acid Hydrochloride

$C_6H_{14}N_4O_2 \cdot HCl$
M = 210.66 g/mol
CAS 1119-34-2
EINECS 214-275-1
CS 29224985

Melting Point ..... 220 °C (dec.)
Solubility ..... 900 g/L (H_2O)
Solid

WGK nwg
Storage RT

A3680 L-Arginine Hydrochloride for cell culture

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... min. 99 %
α20 °C/D; 8 %, 6 M HCl ..... 21.4-23.5°
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Sulfate ..... max. 0.02 %
As ..... max. 0.0001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A3680,1000	1 kg

A3709 L-Arginine Hydrochloride BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 8 %, 6 M HCl ..... 21.4-23.5°
Heavy metals (as Pb) ..... max. 0.001 %
Ammonia ..... max. 0.1 %
Other amino acids ..... max. 0.5 %
Sulfate ..... max. 0.02 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.2
280 nm ..... max. 0.1

Code	Packaging
A3709,1000	1 kg

НеВаРеактив

A1700 L-Arginine Hydrochloride (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 8 %, 250 g/L HCl, calc on dried subst. ..... 21.0-23.5°
α20 °C/D; 8 %, 6 M HCl ..... 21.4-23.6°
Appearance of solution ..... passes test
Heavy metals (As Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (2 h; 105 °C) ..... max. 0.2 %
Sulfated ash ..... max. 0.1 %
Ninhydrin-positive substances ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... 16.5-17.1 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.001 %

Code	Packaging
A1700,0500	500 g
A1700,1000	1 kg
A1700,9010	10 kg
A1700,9015	15 kg

L(+)-Ascorbic Acid

(R)-5-[(S)-1,2-Dihydroxyethyl]-3,4-Dihydroxy-5-(H)-Furan-2-one, Vitamin C

$C_6H_8O_6$
M = 176.13 g/mol
CAS 50-81-7
EINECS 200-066-2
CS 29362700

Melting Point ..... 192 °C (dec.)
Solubility ..... 333 g/L (H_2O)
Solid

WGK 1
Storage RT

131013 L(+)-Ascorbic Acid for analysis, ACS

Specifications
Minimum assay (Iodom.) ..... 99.0 %
Identity ..... IR passes test
Melting range ..... 188-192 °C
Specific rotation α n20/D c=10 (in H_2O) ..... 20.5-21.5°

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Loss on drying at 105 °C ..... 0.1 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.002 %
Heavy metals (as Pb) ..... 0.001 %
Cu ..... 0,0002 %
Fe ..... 0,0002 %
Ni ..... 0,001 %
Pb ..... 0,001 %

Code	Packaging
131013.1208	100 g
131013.1209	250 g
131013.1211	1000 g

141013 L(+)-Ascorbic Acid (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Iodom.) ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test
Specific rotation α n20/D c=10 (in H_2O) ..... 20.5-21.5°

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... passes test
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.025 %
Sulfate (SO_4) ..... 0.01 %
Related substances: ..... passes test
D-Sorbosonic Acid ..... 0.1 %
Methyl-D-Sorbosonate ..... 0.15 %
Other impurities ..... 0.10 %
Total impurities ..... 0.2 %
Residual solvents (Ph. Eur./USP) . passes test
Oxalic acid ..... 0.2 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Mn) ..... 250 ppm
Class 3 (Zn) ..... 1.300 ppm
Cu ..... 0,0005 %
Fe ..... 0,0002 %

Code	Packaging
141013.1208	100 g
141013.1209	250 g
141013.1210	500 g
141013.1211	1000 g
141013.1214	5 kg

201013 L(+)-Ascorbic Acid (E-300, F.C.C.) food grade

Specifications
Assay (as $C_6H_{14}O_6$) (after drying) ..... 99.0-100.5 %
pH of 2 % 2.4-2.8
Melting range ..... 189-193 °C
Specific rotation α n20/D ..... 20.5-21.5°
Insoluble matter in H_2O at 20 °C, not more than ..... 0.003 %
Loss on drying, not more than ..... 0.4 %
Residue on ignition, not more than ..... 0.1 %
Arsenic (as As), not more than ..... 3 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Heavy metals (as Pb), not more than ..... 0.001 %
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201013.1208	100 g
201013.1209	250 g
201013.1210	500 g
201013.1211	1 kg
201013.1214	5 kg
201013.0415	10 Kg
201013.0416	25 kg

A1052 L(+)-Ascorbic Acid powdered BioChemica

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 10 %, H_2O ..... 20.5-21.5°
Heavy metals (as Pb) ..... max. 0.0005 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 20 °C) 2.2-2.5
Oxalic acid ..... max. 0.2 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.002 %

Code	Packaging
A1052,0100	100 g
A1052,0250	250 g
A1052,1000	1 kg

L-Asparagine 1-hydrate

L-2-Aminosuccinic Acid 4-Amide, (S)-2-Aminosuccinic Acid 4-Amide, Asn

$C_4H_8N_2O_3 \cdot H_2O$
M = 150.14 g/mol
CAS 5794-13-8
EINECS 200-735-9
CS 29241900

Melting Point ..... 235 °C
Solubility ..... 30 g/L (H_2O)
Solid

WGK 1
Storage RT

A3669 L-Asparagine 1-hydrate for cell culture

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... min. 99 %
α20 °C/D; 10 %, 3 M HCl ..... +33.7° - +36°
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
As ..... max. 0.0001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A3669,0100	100 g
A3669,0500	500 g
A3669,1000	1 kg

A3721 L-Asparagine 1-hydrate BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 10 %, 3 M HCl ..... +33.7° - +36°
Heavy metals (as Pb) ..... max. 0.001 %
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
A (1 cm/0.1 M in HCl)
260 nm ..... max. 0.2
280 nm ..... max. 0.1

Code	Packaging
A3721,0100	100 g
A3721,1000	1 kg
A3721,9025	25 kg

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

A1668 L-Asparagine 1-hydrate (Ph. Eur.) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., dried subst.) ..... 99.0-101.0 %
α20 °C/D; 10 %, 3 N HCl, dried subst. ..... 33.7-36.0°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying ..... 10.5-12.5 %
Ninhydrin positive substances ..... max. 0.5 %
pH (2 %; H_2O) 4.0-6.0
Sulfated ash ..... max. 0.1 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
Fe ..... max. 0.001 %

Code	Packaging
A1668,0100	100 g
A1668,1000	1 kg
A1668,9025	25 kg

L-Aspartic Acid

L-2-Aminosuccinic Acid, (S)-2-Aspartic Acid

$C_4H_7NO_4$
M = 133.10 g/mol
CAS 56-84-8
EINECS 200-291-6
CS 29224985

Melting Point ..... 270 °C
Solubility ..... 5 g/L (H_2O)
Solid

WGK nwg
Storage RT

A3715 L-Aspartic Acid BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 8 %, 6 M HCl ..... 24-26°
Heavy metals (as Pb) ..... max. 0.001 %
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
A (1 cm/0.1 M in 1 M HCl)
260 nm ..... max. 0.2
280 nm ..... max. 0.1

Code	Packaging
A3715,0250	250 g

A1701 L-Aspartic Acid (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.5 %
α20 °C/D; 8 %, 250 g/L HCl, calc on dried subst. ..... 24.0-26.0°
α20 °C/D; 8 %, 6 M HCl ..... 24.0-26.0°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.5 %
Sulfated ash ..... max. 0.1 %
Ninhydrin-positive substances ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.001 %

Code	Packaging
A1701,1000	1 kg
A1701,5000	5 kg
A1701,9025	25 kg

L-Aspartic Acid Magnesium Salt

L-2-Aminosuccinic Acid, (S)-2-Aspartic Acid

$C_8H_{12}MgN_2O_8$
M = 324.54 g/mol
CAS 2068-80-6
EINECS 218-191-6
CS 29224985

Solid

Storage RT

A4738 L-Aspartic Acid Magnesium Salt (Ph. Eur.) pure, pharma grade

Specifications
Assay (titr., calc. anhydrous subst.) 98.0-102.0 %
α20 °C/D; 2 %, approx. 5 M HCl, calc on dried subst. ..... +22.0° - + 24.0°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Ninhydrin positive substances ..... max. 0.5 %
pH (2.5 %; H_2O) 6.0-8.0
Water (K.F.) ..... 10.0-14.0 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.05 %
Fe ..... max. 0.005 %

Code	Packaging
A4738,9010	10 kg

Astragalin see Kaempferol-3-Glucoside

ATCC Medium 1065 see Luria Broth Base (Dehydrated Culture Media) for microbiology

ATCC Medium 1082 see Luria Broth Base (Dehydrated Culture Media) for microbiology

ATP Disodium Salt see Adenosine 5'-Triphosphoric Acid Disodium Salt

ATP-Na see Adenosine 5'-Triphosphoric Acid Disodium Salt

Aucubin

Rhinanthin, Aucubosid

Origin from *Aucuba japonica*

$C_{15}H_{22}O_9$
M = 346.33 g/mol
CAS 479-98-1
CS 29389090

Solid

Storage 2-8 °C

A2054 Aucubin for HPLC

Specifications
Assay (HPLC) ..... min. 99 %

Code	Packaging
A2054,0050	50 mg

Aureine see Senecionin

Autoclave-ExitusPlus™

Nucleic Acid decontamination in autoclaves

CS 38220000

Storage RT

A7600 Autoclave-ExitusPlus™

• Autoclave-ExitusPlus™ is a registered trademark of AppliChem GmbH

Specifications
Additive for autoclaving
removes DNA and RNA contaminations from culture media waste
for cleaning of culture vessels (e.g. Mini and Maxi prep)
bottled *ready-to-use*
delivered as powder mixture

special, new features
nonenzymatic degradation of DNA and RNA by catalytic and cooperative effects of the components
All components of Autoclave-ExitusPlus™ are readily biodegradable and not harmful or toxic for humans.
Does not contain aggressive chemicals

Code	Packaging
A7600,1000	6 x 1 L

Avidin

Origin from eggs, lyophilized

M = approx. 68000 g/mol
CAS 1405-69-2
EINECS 296-516-0
CS 29420000

Storage 2-8 °C

A2568 Avidin BioChemica

purified by chromatography, low content of nucleotides

Loss on drying ..... max. 5 %
Sulfated ash ..... max. 2 %

Specifications
Activity ..... approx. 12 U/mg

Code	Packaging
A2568,0010	10 mg
A2568,0050	50 mg

Azadirachtin

Origin from *Azadirachta indica* semen (Neem tree seeds)

$C_{35}H_{44}O_{16}$
M = 720.72 g/mol
CAS 11141-17-6
CS 29329900

Solid

Storage 2-8 °C

A3419 Azadirachtin

Specifications
Assay ..... min. 97 %

Code	Packaging
A3419,0005	5 mg

Azalomycin M see Nigericin Sodium Salt

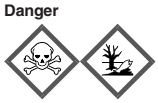
Azidiol

CS 38220000

Density ..... 1.035 kg/l
Liquid

UN3287
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 2
Storage RT

Danger



H301 H413

176131 Azidiol

for preserving milk samples

Composition:
Chloramphenicol ..... 0.75 g
Ethanol absolute ..... 10 ml
Bromophenol Blue ..... 0.35 g
Sodium Azide ..... 18 g
tri-Sodium Citrate 5,5-hydrate ..... 45 g
Water (s.q.m) ..... 1000 ml

Code	Packaging
176131.1611	1000 ml

Azomethine H

4-Hydroxy-5-(2-Hydroxybenzylidenamine)-Naphtalene-2,7-Disulphonic Acid

$C_{17}H_{13}NO_8S_2$
M = 423.42 g/mol
CAS 32266-60-7
EINECS 250-975-3
CS 29252900

Solubility ..... Soluble in water.
Solid

WGK 1
Storage RT

123581 Azomethine H (Reag. Ph. Eur.) for analysis

boron reagent

Specifications
Identity ..... IR passes test
A 1 %, 1 cm, 236 nm at pH 5.1 ..... > 1200

Maximum limit of impurities
Sensitivity to B ..... passes test

Code	Packaging
123581.1604	5 g
123581.1605	10 g

Azur II (C.I. 52010 + 52015)

CAS 37247-10-2
CS 32041300

Solubility ..... Soluble in water.
Solid

WGK 2
Storage RT

251178 Azur II (C.I. 52010 + 52015) for clinical diagnosis

for microscopy, blood smears staining

Specifications
A 1 %, 1 cm, λ_{max} ..... > 800
λ_{max} ABS in H_2O ..... 652-658 nm

Code	Packaging
251178.1606	25 g

6-BA see 6-Benzylaminopurine

Bacitracin

Origin from *Bacillus licheniformis*

$C_{66}H_{103}N_{17}O_{16}S$
M = 1422.72 g/mol
CAS 1405-87-4
EINECS 215-786-2
CS 29419000

Melting Point ..... approx. 222 °C
Solid

Storage 2-8 °C

A0623 Bacitracin BioChemica

Specifications
Activity ..... min. 60 IU/mg
Loss on drying ..... max. 5 %
pH (1 %; H_2O; 20 °C) 6.0-7.0
Solubility (1 %; H_2O) ..... clear, yellow

Code	Packaging
A0623,0005	5 g
A0623,0025	25 g
A0623,0500	500 g

HeBaPeaKTMB

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BAEE see Nα-Benzoyl-L-Arginine Ethyl Ester Hydrochloride (BAEE)

Bafilomycin A1

NSC 381866

Origin from *Streptomyces griseus*

$C_{35}H_{58}O_9$
M = 622.83 g/mol
CAS 88899-55-2
CS 29419000

Solubility ..... clear, yellow
Solid

Storage -20 °C
Storage protected from light

Warning



H315 H319 H335

A7823 Bafilomycin A1 BioChemica

Specifications
Assay (HPLC) .....min. 95 %

Code	Packaging
A7823,0001	1 mg

BAP see 6-Benzylaminopurine

L-BAPA see N-α-Benzoyl-DL-Arginine p-Nitroanilide Hydrochlorid hydrochloride

Barium Acetate

$Ba(CH_3COO)_2$
M = 255.43 g/mol
CAS 543-80-6
EINECS 208-849-0
CS 29152900
Index Nr. 056-002-00-7

Melting Point ..... 450 °C
Solubility ..... water 720 g/l at 20 °C
Solid

UN1564
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage RT

Warning



H332 H302

141180 Barium Acetate pure

Specifications
Minimum assay (Compl.) ..... 98 %
pH of 5 % solution 7.0-8.5

Maximum limit of impurities
Insoluble matter in H_2O .....0.02 %
Chloride (Cl) .....0.005 %
Cu .....0.002 %
Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141180.1210	500 g
141180.0416	25 kg

Barium Chloride 2-hydrate

$BaCl_2 \cdot 2H_2O$
M = 244.28 g/mol
CAS 10326-27-9
EINECS 233-788-1
CS 28273985
Index Nr. 056-004-00-8

Melting Point ..... 962 °C
Solubility ..... water 357 g/l at 20 °C
Solid

UN1564
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage RT

Danger



H332 H301

131182 Barium Chloride 2-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (Compl.) ..... 99.0 %
pH of 5 % solution 5.2-8.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 150 °C ..... 14.0-16.0 %
Nitrogen compounds (as N) ..... 0.002 %
Oxidizing substances .....0.005 %
Heavy metals (as Pb) .....0.0005 %
Ca .....0.005 %
Cd .....0.0005 %
Co .....0.0005 %
Cr .....0.0005 %
Cu .....0.0005 %
Fe .....0.0002 %
K ..... 0.0025 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Sr ..... 0.01 %
Zn ..... 0.0005 %

Code	Packaging
131182.1210	500 g
131182.1211	1000 g
131182.1214	5 kg
131182.0416	25 kg

141182 Barium Chloride 2-hydrate pure

Specifications
Assay (Compl.) ..... 99-102 %
pH of 5 % solution 5.2-8.0

Maximum limit of impurities
Insoluble matter in H_2O .....0.02 %
Nitrogen compounds (as N) .....0.003 %
Ca .....0.2 %
Cu .....0.002 %
Fe ..... 0.001 %
Ni ..... 0.002 %
Pb ..... 0.002 %
Sr .....0.2 %

Code	Packaging
141182.1210	500 g
141182.1211	1000 g
141182.0416	25 kg

Barium Chloride solution 10 % w/v

$BaCl_2 \cdot 2H_2O$
M = 244.28 g/mol
CAS 10361-37-2
EINECS 233-788-1
CS 28273985
Index Nr. 056-004-00-8

Density .....1.087 kg/l
Liquid

UN3287
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage RT

Warning



H332 H302

171183 Barium Chloride solution 10 % w/v

for identification and quantitative determination of sulphates

Composition:
Barium Chloride 2-hydrate ..... 12 g
Water (s.q.m) ..... 100 ml

Assay .....10.0 ± 0.1 % w/v
Identity ..... passes test

Code	Packaging
171183.1210	500 ml
171183.1214	5 l

Barium Hydroxide 8-hydrate

$Ba(OH)_2 \cdot 8H_2O$
M = 315.48 g/mol
CAS 12230-71-6
EINECS 241-234-5
CS 28164000
Index Nr. 056-002-00-7

Melting Point ..... 78 °C
Solubility ..... water 56 g/l at 15 °C
Solid

UN1564
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage RT

Warning



H332 H302 H319 H315

131188 Barium Hydroxide 8-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (Acidim.) ..... 98.0 %

Maximum limit of impurities
Insoluble matter in HCl ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Sulfide (S) ..... 0.001 %
Carbonate (as $BaCO_3$) ..... 2.0 %
Heavy metals (as Pb) ..... 0.0005 %
Ca ..... 0.05 %
Cu ..... 0.0005 %
Fe ..... 0.001 %
K ..... 0.005 %
Na ..... 0.01 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Sr ..... 0.8 %

Code	Packaging
131188.1210	500 g
131188.1211	1000 g

141188 Barium Hydroxide 8-hydrate pure

Specifications
Minimum assay (Acidim.) ..... 97 %

Maximum limit of impurities
Insoluble matter in HCl ..... 0.02 %
Chloride (Cl) ..... 0.05 %
Sulfide (S) ..... 0.005 %
Cu ..... 0.002 %
Fe ..... 0.003 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141188.1210	500 g
141188.1211	1000 g

Barium Sulfate

$BaSO_4$
M = 233.40 g/mol
CAS 7727-43-7
EINECS 231-784-4
CS 28332700

Melting Point ..... 1,580 °C
Solubility ..... Insoluble in water
Solid

Storage RT

142465 Barium Sulfate for radiology (BP, Ph. Eur.) pure, pharma grade

Specifications
Minimum assay ..... 85.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Acidity or alkalinity ..... passes test
Loss on ignition ..... 1.5 %
Phosphate (PO_4) ..... 0.005 %
Sulfide ..... 0.00005 %
Oxidable sulfur compounds ..... passes test
Sedimentation ..... passes test
Soluble salts in acid ..... 0.3 %
Soluble barium salts (as Ba)
according to Ph. Eur. ..... 0.001 %
Soluble barium salts (as Ba)
according to BP ..... passes test
Soluble barium salts (as Ba)
according to USP ..... 0.001 %
Residual solvents (Ph. Eur.) ..... passes test
Heavy metals (Pb) ..... 0.001 %
As ..... 0.00008 %

Code	Packaging
142465.0416	25 kg

Basic Blue 17 see Toluidine Blue O (C.I. 52040)

Basic Fuchsin see Fuchsin basic (C.I. 42510)

Basic Green 1 see Brilliant Green (C.I. 42040)

Basic Green 4 see Malachite Green Oxalate (C.I. 42000)

Basic Red 2 see Safranine O (C.I. 50240)

Basic Red 5 see Neutral Red (C.I. 50040)

Basic Violet 1 see Rhodamine B (C.I. 45170)

Basic Violet 14 see Fuchsin basic (C.I. 42510)

Basic Violet 3 see Crystal Violet (C.I. 42555)

Basic Violet 4 see Ethyl Violet (C.I. 42600)

BCECF-AM

2',7'-Bis-(Carboxyethyl)-5(6)-Carboxy-Fluorescein Acetoxymethylester

$C_{42}H_{40}O_{19}$
M = 848.77 g/mol
CAS 117464-70-7
CS 29329900

Liquid

Storage -20 °C
Storage protected from light

Warning



H315 H319 H335

A1003 BCECF-AM BioChemica

Specifications
Assay (HPLC) ..... min. 90 %
Solubility (1 %; DMSO) clear (yellow - orange)

Code	Packaging
A1003,0001	1 mg

BCIP

X-Phos p-Toluidine Salt, X-Phos-pT, 5-Bromo-4-Chloro-3-Indolyl Phosphate p-Toluidine Salt

$C_8H_6BrClNO_4P \cdot C_7H_9N$
M = 433.64 g/mol
CAS 6578-06-9
EINECS 229-506-1
CS 29339980

Solubility ..... 20 mg/ml (DMF)
Solid

Storage -20 °C
Storage protected from light

Warning



H315 H319 H335

A1117 BCIP BioChemica

Specifications
λ_{max} (buffer pH 7.0) ..... 286-294 nm
E 1 %,1 cm (buffer pH 7.0) ..... min. 5800 (pH 7.0)
Water (K.F.) ..... max. 1 %

Code	Packaging
A1117,0500	500 mg
A1117,0001	1 g
A1117,0005	5 g

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

BCP see 1-Bromo-3-Chloropropane

Benedict's Reagent qualitative

CS 38220000

Density .....1.153 kg/l
Liquid

Storage RT
H412

251550 Benedict's Reagent qualitative for clinical diagnosis

for determination of glucose in urine

Composition:
Sodium Carbonate anhydrous ..... 153.6 g
Citric Acid 1-hydrate ..... 70.9 g
Copper(II) Sulfate 5-hydrate .....15.6 g
Water (s.q.m) .....1 l

Code	Packaging
251550.1211	1000 ml

Benzaldehyde

Benzoic Aldehyde

C_6H_5CHO
M = 106.13 g/mol
CAS 100-52-7
EINECS 202-860-4
CS 29122100
Index Nr. 605-012-00-5

Melting Point .....-56 °C
Boiling Point ..... 179 °C
Density .....1.045 kg/l
Solubility ..... water 4 g/l at 20 °C
Refractive Index n20/D 1.545
Liquid

UN1990
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H302

161887 Benzaldehyde, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity .....IR passes test
Density 20/4 ..... 1.044-1.046
Water (H_2O) ..... 0.1 %

Code	Packaging
161887.1211	1000 ml
161887.1611	1000 ml
161887.1212	2,5 l

Benzalkonium Chloride see Alkylbenzyldimethylammonium Chloride

Benzamidine Hydrochloride

$C_7H_8N_2 \cdot HCl$
M = 156.62 g/mol
CAS 1670-14-0
EINECS 216-795-4
CS 29252900

Solid

WGK 1
Storage 2-8 °C

A1380 Benzamidine Hydrochloride BioChemica

Specifications
Assay (titr.) .....min. 99 %
Water (K.F.) .....max. 15 %

Code	Packaging
A1380,0025	25 g

Benzamine Blue see Trypan Blue (C.I. 23850)

Benzene

Benzol, Cyclohexatriene

C_6H_6
M = 78.11 g/mol
CAS 71-43-2
EINECS 200-753-7
CS 29022000
Index Nr. 601-020-00-8

Melting Point ..... 5.5 °C
Boiling Point ..... 80.1 °C
Density .....0.879 kg/l
Solubility ..... water 0.7 g/l at 20 °C
Refractive Index n20/D 1.5011
Liquid

UN1114
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 3
Storage RT

Danger



H350 H340 H225 H319 H315 H372 H304

361192 Benzene for UV, IR, HPLC, GPC, ACS

Specifications
Minimum assay (G.C.) ..... 99.8 %
Density 20/4 ..... 0.877-0.878

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.0003 %
Darkened substances
by H_2SO_4 ..... passes test

Sulfur compounds (as CS_2) .....0.0003 %
Thiophene (C_4H_4S) .....0.0001 %
Water (H_2O) .....0.01 %
Suitability for IR spectrometry: ..... passes test
Fluorescence at 365 nm (as quinine) ..... 2 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 278 nm (Cut off) ..... ≥ 10 %
Transmittance at 280 nm ..... ≥ 25 %
Transmittance at 285 nm ..... ≥ 70 %
Transmittance at 290 nm ..... ≥ 80 %
Transmittance at 300 nm ..... ≥ 90 %

Transmittance at 320 nm .....≥ 95 %
Transmittance at 340-450 nm .....≥ 98 %
Data of interest in HPLC:
P' + 0.25 E 3.6
Rohrschneider Polarity 2.7
Eluotropic value e° (Al_2O_3) 0.32
Sol. H_2O in solv. at 20 °C 0.058
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361192.1611	1000 ml
361192.1612	2.5 l

131192 Benzene (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity .....IR passes test
Density 20/4 ..... 0.877-0.878
Freezing point .....≥ 5.2 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0001 meq/g

Non-volatile matter .....0.001 %
Darkened substances by H_2SO_4 ... passes test
Sulfur compounds (as CS_2) .....0.0003 %
Thiophene (C_4H_4S) .....0.0001 %
Water (H_2O) .....0.03 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As.....0.05
B 0.02
Al 0.5
Au 0.05
Ba 0.1

Be..... 0.02
Ca..... 0.5
Co..... 0.02
Cu..... 0.02
Ga 0.02
Hg..... 0.05
K..... 0.1
Mg 0.1
Mo 0.02
Ni..... 0.02
Bi..... 0.05
Cd 0.05
Cr 0.02
Fe..... 0.1
Ge 0.05
In 0.05
Li 0.05
Mn..... 0.02
Na 0.5
P..... 0.2

Code	Packaging
131192.1611	1000 ml
131192.1612	2.5 l
131192.0616	25 l

141192 Benzene pure

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity .....IR passes test
Density 20/4 ..... 0.877-0.878
Acidity ..... 0.0003 meq/g

Alkalinity .....0.00025 meq/g
Non-volatile matter .....0.005 %
Toluene (G.C.) .....0.1 %
Water (H_2O) .....0.1 %
Cu .....0.00002 %

Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141192.1611	1000 ml
141192.1612	2.5 l

НеВаРеАКТИВ

НеВаРеАКТИВ

Benzene Chloride see Chlorobenzene

Benzenecarbonyl Chloride see Benzoyl Chloride

1,3-Benzenediol see Resorcinol

Benzethonium Chloride

Di-iso-Butylphenoxyethoxyethyldimethylbencylammonium Chloride, Hyamine 1622, Diisobutylphenoxyethoxyethyldimethylbenzyl Ammonium Chloride

$C_{27}H_{42}ClNO_2$
M = 448.08 g/mol
CAS 121-54-0
EINECS 204-479-9
CS 29239000

Solid

UN2923
Class/PG 8(6.1)/III
ADR 8(6.1)/III · IMDG 8(6.1)/III · IATA 8(6.1)/III
WGK 2
Storage RT

Danger



H302 H314 H410

143083 Benzethonium Chloride (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (calc. a.d.s.) ..... 97.0-103.0 %
Identity according to Pharmacopoeias: ..... passes test
Melting range ..... 158-163 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Loss on drying at 105 °C ..... 5.0 %
Residue on ignition (as SO_4) ..... 0.1 %
Volatile bases and salts of volatile bases ..... 0.005 %
Residual solvents (Ph. Eur./USP) . passes test

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
143083.1209	250 g
143083.1211	1000 g

A6834 Benzethonium Chloride BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals ..... max. 0.001 %

Loss on drying ..... max. 5 %
pH (1 %; H_2O) 5.0-6.0
Sulfate ..... max. 0.01 %

Code	Packaging
A6834,0100	100 g

Benzethonium Chloride 0.004 mol/l (0.004M)

Di-iso-Butylphenoxyethoxyethyldimethylbenzylammonium Chloride, Hyamine 1622

$C_{27}H_{42}ClNO_2$
M = 448.18 g/mol
CAS 121-54-0
EINECS 204-479-9
CS 29239000

Density ..... 1.00 kg/l
Liquid

WGK 2
Storage RT

183141 Benzethonium Chloride 0.004 mol/l (0.004M) volumetric solution

for titration of anionic surfactants

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate

Code	Packaging
183141.1611	1000 ml

Benzo [b] Pyridine see Quinoline

Benzoic Acid

Benzenecarboxylic acid, Phenylformic acid

C_6H_5COOH
M = 122.12 g/mol
CAS 65-85-0
EINECS 200-618-2
CS 29163100

Melting Point ..... 122.4 °C (Handbook)
Boiling Point ..... 249.2 °C (Handbook)
Solubility ..... in water at 20 °C
Solid

WGK 1
Storage RT

Danger



H318 H335

131014 Benzoic Acid for analysis, ACS

Specifications
Minimum assay (Acidim.) ..... 99.5 %
Identity ..... IR passes test
Melting range ..... 122-123 °C

Maximum limit of impurities
Insoluble matter in CH_3OH ..... 0.005 %
Reducing substance to $KMnO_4$ ..... passes test
Residue on ignition (as SO_4) ..... 0.005 %
Sulfur compounds (as S) ..... 0.002 %
Chlorine compounds (as Cl) ..... 0.005 %
Water (H_2O) ..... 0.5 %

Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.0003 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
131014.1209	250 g
131014.1211	1000 g
131014.0914	5 kg

141014 Benzoic Acid (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 99.5-100.5 %
Identity according to Pharmacopoeias: ..... passes test
Melting range ..... 121-123 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in Cl_3CH ..... 0.01 %
Insoluble matter in C_2H_5OH ..... passes test
Residue on ignition (as SO_4) ..... 0.05 %
Sulfate (SO_4) ..... 0.005 %
Halogenated compounds and halides (as Cl) ..... 0.03 %
Residual solvents (Ph. Eur./USP) . passes test
Oxidisable substances ..... passes test
Darkened substances ..... passes test
Water (H_2O) ..... 0.7 %

Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0003 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141014.1210	500 g
141014.1211	1000 g
141014.0914	5 kg
141014.0416	25 kg

Benzoic Acid Benzyl Ester see Benzyl Benzoate

Benzoic Acid Sodium Salt see Sodium Benzoate

НеВаРеАКТИВ

Benzoyl Chloride

Benzenecarbonyl Chloride

C_6H_5COCl
M = 140.57 g/mol
CAS 98-88-4
EINECS 202-710-8
CS 29163200
Index Nr. 607-012-00-0

Melting Point ..... -1 °C
Boiling Point ..... ~ 197 °C
Density ..... 1.212 kg/l
Solubility Reacts violently with water and ethanol. Miscible with ether, chloroform or benzene
Refractive Index n20/D 1.5537
Liquid

UN1736
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H332 H312 H302 H314 H317

162720 Benzoyl Chloride, 99 % for synthesis

Specifications
Minimum assay (Acidim.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 1.210-1.214

Code	Packaging
162720.1611	1000 ml
162720.0816	25 l

Benzoyl Peroxide humidified with ~ 25 % of H_2O

Benzoyl Superoxide, Dibenzoyl Peroxide

$(C_6H_5CO)_2O_2$
M = 242.23 g/mol
CAS 94-36-0
EINECS 202-327-6
CS 29163200
Index Nr. 617-008-00-0

Melting Point ..... 105 °C
Solubility ..... Very slightly soluble in water.
Solid

UN3104
Class/PG 5.2/ -
ADR 5.2/ - · IMDG 5.2/ - · IATA 5.2/ -
WGK 1
Storage between 2-8 °C

Danger



H201 H319 H317

142357 Benzoyl Peroxide humidified with ~ 25 % of H_2O (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Iodom.) ..... 70.0-77.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Acidity ..... passes test
Chloride (Cl) ..... 0.4 %
Related substances ..... passes test

Residual solvents (Ph. Eur./USP) passes test
Water (H_2O) ..... > 20 %
Complies Ph. Eur. 7.6 specifications

Code	Packaging
142357.1210	500 g

162357 Benzoyl Peroxide, 98 % humidified with ~ 25 % of H_2O for synthesis

Specifications
Minimum assay (Iodom.) calc. a.d.s. ..... 98 %

Identity ..... IR passes test
Melting range (a.d.s.) ..... 102-105 °C

Code	Packaging
162357.1210	500 g

Benzoyl Superoxide see Benzoyl Peroxide humidified with ~ 25 % of H_2O

N-α-Benzoyl-DL-Arginine p-Nitroanilide Hydrochlorid

L-BAPA

$C_{19}H_{22}N_6O_4 \cdot HCl$
M = 434.89 g/mol
CAS 911-77-3
EINECS 213-011-2
CS 29252900

Melting Point ..... 268-275 °C (dec.)
Solid

Storage -20 °C

A5030 N-α-Benzoyl-DL-Arginine p-Nitroanilide Hydrochloride BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
IR spectrum ..... passes test

Code	Packaging
A5030,0005	5 g
A5030,0100	100 g

N-α-Benzoyl-L-Arginine Ethyl Ester Hydrochloride (BAEE)

BAEE

$C_{15}H_{22}N_4O_3 \cdot HCl$
M = 342.83 g/mol
CAS 2645-08-1
EINECS 220-157-0
CS 29252900

Melting Point ..... 128-130 °C
Solid

WGK 1
Storage RT

A3770 N-α-Benzoyl-L-Arginine Ethyl Ester Hydrochloride (BAEE) BioChemica

Specifications
Assay (TLC) ..... min. 98 %

α20 °C/D; 2 %, H_2O ..... -18 to -15°
Water (K.F.) ..... max. 1 %

Code	Packaging
A3770,0005	5 g

Benzyl Alcohol

α-Hydroxytoluene, Benzenemethanol, Phenylcarbinol

$C_6H_5CH_2OH$
M = 108.14 g/mol
CAS 100-51-6
EINECS 202-859-9
CS 29062100
Index Nr. 603-057-00-5

Melting Point ..... -15.2 °C
Boiling Point ..... 204.7 °C
Density ..... 1.046 kg/l
Solubility ..... water 40 g/l at 20 °C
Refractive Index n20/D 1.5396
Liquid

WGK 1
Storage between 2-8 °C

Warning



H332 H302

131081 Benzyl Alcohol for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 1.043-1.049

Maximum limit of impurities
APHA color 10
Residue on ignition (H_2SO_4) ..... 0.005 %

Acetophenone (G.C.) ..... 0.02 %
Benzaldehyde (G.C.) ..... 0.01 %
Water (H_2O) ..... 0.1 %
Al ..... 0.0005 %
Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %

Cu ..... 0.000002 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %
Product bottled under nitrogen atmosphere.

Code	Packaging
131081.1611	1000 ml

Printed on FSC® certified paper from well managed forests

141081 Benzyl Alcohol (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 98.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test
Density 20/20 ..... 1.043-1.049
Refractive Index n20/D 1.539-1.541

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity ..... passes test
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.05 %
Residue on ignition (as SO_4) ..... 0.005 %
Peroxide value 5
Clarity of solution ..... passes test
Colour of solution ..... passes test
Halogenated compounds and halides (as Cl) ..... 0.03 %
Related substances (G.C.)
Benzaldehyde (G.C.) ..... 0.15 %
Cyclohexylmethanol ..... 0.10 %
Total imp. Tr < Benzyl Alcohol ..... 0.04 %
Total imp. Tr > Benzyl Alcohol ..... 0.3 %
Residual solvents (Ph. Eur./USP) . passes test
Water (H_2O) ..... 0.2 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
Product bottled under nitrogen atmosphere.

Code	Packaging
141081.1611	1000 ml
141081.1612	2.5 l
141081.1214	5 l
141081.0816	25 l
141081.0719	200 l

Benzyl Benzoate

Benzoic Acid Benzyl Ester, Benzoic Acid Phenylmethyl ester, Benzyl benzenecarboxylate

$C_{14}H_{12}O_2$
M = 212.26 g/mol
CAS 120-51-4
EINECS 204-402-9
CS 29163100
Index Nr. 607-085-00-9

Melting Point ..... 21 °C
Boiling Point ..... 324 °C
Density ..... 1.119 kg/l
Solubility Insoluble in water. Soluble in alcohol.
Refractive Index n20/D 1.5681
Liquid

WGK 2
Storage away from direct light.

Warning



H302 H411

144720 Benzyl Benzoate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test
Density 25/25 ..... 1.116-1.120
Density 20/20 ..... 1.118-1.122
Freezing point ..... ≥ 18.0 °C
Refractive Index n20/D 1.568-1.570

Maximum limit of impurities
Acidity ..... passes test
Residue on ignition (as SO_4) ..... 0.1 %
Residual solvents (Ph. Eur./USP) . passes test
Aldehydes (as C_7H_6O) ..... 0.05 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
144720.0716	25 l

N6-Benzyladenine see 6-Benzylaminopurine

6-Benzylaminopurine

Benzyladenine

$C_{12}H_{11}N_5$
M = 225.25 g/mol
CAS 1214-39-7
EINECS 214-927-5
CS 29335995

Melting Point ..... 230-233 °C
Solid

WGK 1
Storage RT

Warning



H302 H315 H319 H335

A7685 6-Benzylaminopurine BioChemica

Specifications
Plant cell culture ..... tested
Assay (HPLC) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.005 %

Code	Packaging
A7685,0001	1 g
A7685,0025	25 g

Benzylglucosinolate see Glucotropaeolin

Benzylsulfonyl Fluoride see PMSF

BES

N,N-Bis-(2-Hydroxyethyl)-2-Aminoethane Sulfonic Acid

$C_6H_{15}NO_5S$
M = 213.26 g/mol
CAS 10191-18-1
EINECS 233-465-5
CS 29221985

Melting Point ..... 152-156 °C
Solid

WGK 1
Storage RT

A1062 BES for buffer solutions

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.0005 %
pH (1 %; H_2O) 4.1-4.5
Water ..... max. 1 %
A (1 cm/10 % in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.03

Code	Packaging
A1062,1000	1 kg

Bestatin Hydrochloride

N-[(2S,3R)-3-Amino-2-Hydroxy-4-Phenylbutyryl]-L-Leucine Hydrochloride

$C_{16}H_{24}N_2O_4 \cdot HCl$
M = 344.84 g/mol
CAS 65391-42-6
CS 29242998

Melting Point ..... 216-218 °C
Solid

Storage -20 °C

A2137 Bestatin Hydrochloride BioChemica

Specifications
Assay (HPLC) ..... min. 98 %
Solubility (2 %; H_2O) ..... clear, colorless

Code	Packaging
A2137,0025	25 mg

BGBL Broth see Brilliant Green Bile 2 % Broth (ISO 4831, ISO 4832) (Dehydrated Culture Media) for microbiology

BHA see Butylhydroxylanisole

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

BHT see Butylhydroxytoluene

Bicinchoninic Acid Protein Assay

Quantitation of proteins, Protein determination with Bicinchoninsic acid

CS 38220000

Storage RT



H411

A7787 Bicinchoninic Acid Protein Assay

Specifications
Application
for photometric protein determination in the range of 20-2000 µg/ml protein

sufficient for determination in either 500 test tubes or 5000 micro plate assays
Kit components

Reagent A 1 L (BCA/tartrate in alkaline carbonate buffer)
Reagenz B 25 ml (4 % $CuSO_4 \cdot 5H_2O$)

Code	Packaging
A7787,0500	500 Tests

Bicinchoninic Acid Protein Assay Micro

Quantitation of proteins, Protein determination with Bicinchoninic acid Micro Scale

CS 38220000

Storage RT

A7845 Bicinchoninic Acid Protein Assay Micro

Specifications
Application
for photometric protein determination in the micro range of 0.5-20 µg/ml protein

sufficient for determination in either 480 test tubes or 3200 micro plate assays
Kit components
Reagent A 240 ml (tartrate in alkaline carbonate buffer)

Reagent B 240 ml (4 % BCA in H_2O)
Reagent C 12 ml (4 % $CuSO_4 \cdot 5H_2O$ in H_2O)

Code	Packaging
A7845,0480	480 Tests

Bicine

N,N-Bis-(2-Hydroxyethyl)-Glycine

$C_6H_{13}NO_4$
M = 163.17 g/mol
CAS 150-25-4
EINECS 205-755-1
CS 29225000

Solubility ..... 100 g/L (H_2O)
Solid

WGK 1
Storage RT

A1024 Bicine for buffer solutions

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) ..... max. 0.0005 %
pH (1 %; H_2O; 20 °C) 4.0-5.0
Water .....max. 1 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.08
280 nm ..... max. 0.05

Code	Packaging
A1024,0100	100 g
A1024,0250	250 g
A1024,0500	500 g
A1024,1000	1 kg

Biflorine see Protopine

Bilirubin

Origin from porcine

$C_{33}H_{36}N_4O_6$
M = 584.68 g/mol
CAS 635-65-4
EINECS 211-239-7
CS 29337900

Solid

WGK 1
Storage -20 °C

A1392 Bilirubin BioChemica

Specifications
Assay (photometr.) .....min. 98 %

Mol. Extinction coefficient
(453 nm) ..... min. 61000 cm^{-1} L mol^{-1} ($CHCl_3$)

Solubility (H_2O; 20 °C) .....nearly insoluble
Water (K.F.) .....max. 1 %

Code	Packaging
A1392,0010	10 g

A1561 Bilirubin pure

Specifications
Ash .....max. 0.2 %
Loss on drying .....max. 2 %

Solubility (H_2O; 20 °C) ..... nearly insoluble
Total N .....8.5-9.8 %

Code	Packaging
A1561,0100	100 g

Binding silane see 3-Methacryloxypropyl Trimethoxysilane

D(+)-Biotin

Coenzyme R, Hexahydro-2-Oxo-1H-Thieno (3,4-d)Imidazole-4-Pentanoic Acid, Vitamin H

$C_{10}H_{16}N_2O_3S$
M = 244.31 g/mol
CAS 58-85-5
EINECS 200-399-3
CS 29369000

Melting Point .....229-233 °C
Solubility ..... 0.2 g/L (H_2O)
Solid

WGK 1
Storage 2-8 °C

143977 D(+)-Biotin (USP) pure, pharma grade

Specifications
Assay .....98.5-101.0 %
Identity according to pharmacopoeias: ..... passes test
Specific rotation α 25/D c= 2 (in N ... mol/l) .....89-93°

Maximum limit of impurities
Residual solvents (Ph. Eur./USP) .passes test
Related substances
Individual impurity .....1.0 %
Total impurities .....2.0 %

Code	Packaging
143977.1602	0.5 g
143977.1603	1 g
143977.1605	10 g
143977.1607	50 g
143977.1208	100 g

НеВаРеАКТИВ

A0969 D(+)-Biotin BioChemica

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 1 %, 0.1 N NaOH ..... 89-93°
Heavy metals (as Pb) ..... max. 0.001 %
Loss on drying ..... max. 1 %

Code	Packaging
A0969,0250	250 mg
A0969,0001	1 g

Biotin-11-dUTP

Biotin-11-Deoxyuridine 5'-Triphosphate Tetralithium Salt

$C_{28}H_{39}Li_4N_6O_{17}P_3S$
M = 884.39 g/mol
CS 38220000

Storage -20 °C

A5227 Biotin-11-dUTP

Aqueous solution

Specifications
Assay (NMR) ..... min. 96 %
Concentration ..... 1 mM

Code	Packaging
A5227,0100	100 µl

Biotinamidohexanoic Acid N-Hydroxysuccinimide Ester

(+)-Biotinamidocaproate N-Hydroxysuccinimidyl Ester, NHS-LC-Biotin, Succinimidyl 6-(Biotinamido)-Hexanoate

$C_{20}H_{30}N_4O_6S$
M = 454.54 g/mol
CAS 72040-63-2
CS 29349990

Melting Point ..... 173-176 °C
Solubility ..... DMSO, DMF
Solid

Storage -20 °C

A7836 Biotinamidohexanoic Acid N-Hydroxysuccinimide Ester

Specifications
Assay ..... min. 98 %
Identity (NMR) ..... passes test

Code	Packaging
A7836,0025	25 mg

9-Biotinylamino-4,7-Dioxanonanoic Aicd N-Hydroxysuccinimidyl Ester

NHS-PEO3-Biotin

$C_{21}H_{32}N_4O_8S$
M = 500.58 g/mol
CS 29349990

Solubility ..... Water, DMSO, DMF
Solid

Storage -20 °C

A7867 9-Biotinylamino-4,7-Dioxanonanoic Acid N-Hydroxysuccinimidyl Ester

Specifications
Assay ..... min. 95 %
Identity (NMR) ..... passes test

Code	Packaging
A7867,0010	10 mg

2,2'-Bipyridine

2,2'-Dipyridine, 2,2'-Dipyridyl, a -a'-Bipyridine, a -a'-Dipyridyl

$(C_5H_4N)_2$
M = 156.19 g/mol
CAS 366-18-7
EINECS 206-674-4
CS 29333999

Melting Point ..... 72 °C
Boiling Point ..... 273 °C
Solubility ..... water 5 g/l at 20 °C
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Warning



H312 H302

132371 2,2'-Bipyridine (Reag. USP) for analysis, ISO

Specifications
Minimum assay (Perchl. Ac.) ..... 99.5 %
Identity ..... IR passes test
Melting range ..... 69.0-72.0 °C

Maximum limit of impurities
Insoluble matter in HCl ..... passes test
Residue on ignition (as SO_4) ..... 0.1 %
Sensitivity to Fe ..... passes test

Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
132371.1606	25 g

N,O-Bis-(trimethylsilyl)-trifluoroacetamide

2,2,2-Trifluoro-N,O-Bis (Trimethylsilyl) Acetamide, BSTFA

$C_8H_{18}F_3NOSi_2$
M = 257.41 g/mol
CAS 25561-30-2
EINECS 247-103-9
CS 29310095

Melting Point ..... -10 °C
Boiling Point ..... 145 °C
Density ..... 0.974 kg/l
Solubility ..... Insoluble in water
Refractive Index n20/D 1.384
Liquid

UN1993
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 2
Storage RT

Warning



H226

355588 Bis-(trimethylsilyl)-trifluoroacetamide for GC

for derivatization (G.C.)

Specifications
Minimum assay (G.C.) ..... 98.0 %
Identity ..... IR passes test
Product bottled under nitrogen atmosphere.

Code	Packaging
355588.1604	5 ml
355588.1905	10 ml
355588.1606	25 ml

НеваРеактив

Bis-Tris

Bis-(2-Hydroxyethyl)-Imino-tris-(Hydroxy Methyl)-Methane

$C_8H_{19}NO_5$
M = 209.24 g/mol
CAS 6976-37-0
EINECS 230-237-7
CS 29221985

Melting Point ..... 102-105 °C
Solid

Storage RT

A3992 Bis-Tris for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.0005 %
Loss on drying ..... max. 1 %
pH (1 %; H_2O) 8.7-9.7
Fe ..... max. 0.0005 %

Code	Packaging
A3992,0250	250 g

A1025 Bis-Tris for buffer solutions

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.0003 %
pH (1 %; H_2O) 8.8-9.6
Loss on drying ..... max. 1 %
Fe ..... max. 0.0005 %
A (1 cm/0.1 M in H_2O)
280 nm ..... max. 0.04
340 nm ..... max. 0.02

Code	Packaging
A1025,0100	100 g
A1025,0250	250 g
A1025,0500	500 g
A1025,1000	1 kg

Bis-Tris-Propane

1,3-Bis-[tris-(Hydroxymethyl)-Methyl-Amino]-Propane

$C_{11}H_{26}N_2O_6$
M = 282.34 g/mol
CAS 64431-96-5
EINECS 264-899-3
CS 29221985

Melting Point ..... 164-165 °C
Solid

Storage RT

A1135 Bis-Tris-Propane for buffer solutions

Specifications
Assay (titr.) ..... min. 98 %
Heavy metals (as Pb) ..... max. 0.001 %
pH (1 %; H_2O) 10.4-11.2
Water (K.F.) ..... max. 1 %
A (1 cm/0.1 M in H_2O)
280 nm ..... max. 0.04

Code	Packaging
A1135,0100	100 g
A1135,0500	500 g

Bisacrylamide

Bis, M-Bis, N,N-Methylenebisacrylamide

$C_7H_{10}N_2O_2$
M = 154.17 g/mol
CAS 110-26-9
EINECS 203-750-9
CS 29241900

Melting Point ..... > 300 °C
Solid

WGK 2
Storage 2-8 °C

Warning



H302

A3636 Bisacrylamide for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (HPLC) ..... min. 99 %
pH (1 %; H_2O) ..... 5.5-7.0 (20 °C)
Water (K.F.) ..... max. 0.25 %
A (1 cm/1 % in H_2O)
290 nm ..... max. 0.25
310 nm ..... max. 0.05
400 nm ..... max. 0.005

Code	Packaging
A3636,0050	50 g
A3636,0100	100 g
A3636,0250	250 g
A3636,1000	1 kg

A1095 Bisacrylamide 4K ultrapure

Specifications
Assay (HPLC) ..... min. 99 %
pH (1 %; H_2O; 20 °C) 5.5-7.0
Water (K.F.) ..... max. 0.5 %
A (1 cm/1 % in H_2O)
290 nm ..... max. 0.25
310 nm ..... max. 0.10
400 nm ..... max. 0.01

Code	Packaging
A1095,0050	50 g
A1095,0100	100 g
A1095,0250	250 g
A1095,9010	10 kg
A1095,9025	25 kg

A1096 Bisacrylamide 2K Standard, pure

Specifications
Assay (HPLC) ..... min. 98 %
Water (K.F.) ..... max. 1 %
A (1 cm/1 % in H_2O)
290 nm ..... max. 0.5
310 nm ..... max. 0.25

Code	Packaging
A1096,0050	50 g
A1096,0100	100 g
A1096,0500	500 g
A1096,1000	1 kg
A1096,9010	10 kg

Bisacrylamide solutions

CS 38220000

Liquid

WGK 3*
Storage RT

A3657 Bisacrylamide solution (2 %) for molecular biology

Ready-to-use aqueous solution for the preparation of polyacrylamide gels

Specifications
DNases/RNases/Proteases ..... not detectable

Composition:
Bisacrylamide ..... 20 g/L

Code	Packaging
A3657,1000	1 L

A1574 Bisacrylamide 4K - Solution (2 %)

Ready-to-use aqueous solution for the preparation of polyacrylamide gels

Composition:
Bisacrylamide 4K ..... 20 g/L

Code	Packaging
A1574,1000	1 L

Bisbenzimide H33258

Hoechst 33258

$C_{25}H_{24}N_6O \cdot 3HCl \cdot 5H_2O$
M = 623.97 g/mol
CAS 23491-45-4
EINECS 245-690-6
CS 29339980

Melting Point ..... > 300 °C
Solid

Storage 2-8 °C

Warning



H302 H315 H319

A0740 Bisbenzimide H33258 BioChemica

Specifications
Assay (HPLC) .....min. 98 %

Code	Packaging
A0740,0100	100 mg

Bisbenzimide H33342

Hoechst 33342

$C_{27}H_{28}N_6O \cdot 3HCl \cdot 3H_2O$
M = 615.99 g/mol
CAS 23491-52-3
EINECS 245-691-1
CS 29339980

Solid

WGK 3
Storage 2-8 °C

Warning



H302 H315 H335

A0741 Bisbenzimide H33342 BioChemica

Specifications
Assay (HPLC) .....min. 98 %

Code	Packaging
A0741,0050	50 mg

Bismut(III) Nitrate 5-hydrate

$Bi(NO_3)_3 \cdot 5H_2O$
M = 485.07 g/mol
CAS 10035-06-0
EINECS 233-791-8
CS 28342980

Solubility Reacts violently with water and ethanol. Miscible with ether, chloroform or benzene
Solid

UN1477
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 2
Storage RT

Danger



H272 H319 H335 H315

131196 Bismuth(III) Nitrate 5-hydrate for analysis, ACS

Specifications
Minimum assay (Compl.) .....98.0 %

Maximum limit of impurities
Insoluble matter in HNO_3 ..... 0.005 %
Chloride (Cl) ..... 0.001 %

Ammonium (NH_4) .....0.005 %
Sulfate (SO_4) .....0.005 %
Ag .....0.001 %
As .....0.0001 %
Ca .....0.005 %
Cu .....0.002 %

Fe .....0.001 %
K .....0.005 %
Mg .....0.001 %
Na .....0.01 %
Pb .....0.002 %

Code	Packaging
131196.1208	100 g
131196.1210	500 g

141196 Bismuth(III) Nitrate 5-hydrate pure

Specifications
Assay (Compl.) .....98 %
Insoluble matter in HNO_3 ..... 0.025 %
Chloride (Cl) .....0.05 %

Sulfate (SO_4) ..... 0.1 %
Ca .....0.01 %
Cu .....0.005 %

Fe .....0.005 %
Pb .....0.005 %

Code	Packaging
141196.1209	250 g
141196.1210	500 g

Bis(sulfosuccinimidyl)suberate Disodium Salt see BS3

Biuret's Reagent

CS 38220000

Density .....1.059 kg/l
Liquid

WGK nwg
Storage RT
H412

251820 Biuret's Reagent for clinical diagnosis

for determination of proteins

Composition:
Copper(II) Sulfate 5-hydrate ..... 1.5 g
Sodium and Potassium Tartrate 4-hydrate ..... 4.5 g

Potassium Iodide .....0.5 g
Sodium Hydroxide pellets .....0.8 g
Water (s.q.m) .....100 ml

Code	Packaging
251820.1208	100 ml

Blasticidin S Hydrochloride

$C_{17}H_{26}N_8O_5 \cdot HCl$
M = 458.91 g/mol
CAS 3513-03-9
CS 29419000
Index Nr. 607-155-00-9

Melting Point .....222-225 °C (dec.)
Solid

UN2811
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage 2-8 °C

Danger



H300

A3784 Blasticidin S Hydrochloride BioChemica

Specifications
Assay (HPLC) .....min. 98 %

Code	Packaging
A3784,0005	5 mg
A3784,0010	10 mg
A3784,0025	25 mg

HeBaPeakTMB

Printed on FSC® certified paper from well managed forests

Bleomycin see Bleomycin Sulfate

Bleomycin Sulfate

Bleomycin

CAS 9041-93-4
EINECS 232-925-2
CS 29419000

Solid

Storage 2-8 °C

Danger



H351

A3773 Bleomycin Sulfate BioChemica

Mixture of Bleomycin sulfate salts

Specifications
Biological activity .....1.4-2.1 U/mg

Code	Packaging
A3773,0001	1 mg
A3773,0005	5 mg

Blocking Buffer I

Immunoassay Buffer (Blocking Buffer I)

CS 38220000

Storage -20 °C
Storage shipment at ambient temperature

A7099 Blocking Buffer I

Specifications
Application in ELISA, EIA, RIA, Western Blot, Protein chips, Immuno-PCR and Immuno histochemistry

efficiently blocks free protein binding sites on ELISA plates and transfer membranes based on chemically modifed, low-molecular weight casein

ready-to-use; stabilised with 0.1 % ProClin® 300; pH 7.2
Solution for blocking unspecific binding sites in ELISA, EIA & Western blots

Code	Packaging
A7099,0125	125 ml
A7099,0500	500 ml

Blocking Buffer III BSA

Immunoassay Buffer (Blocking Buffer III BSA)

CS 38220000

Storage shipment at ambient temperature
Storage -20 °C

A7252 Blocking Buffer III BSA

Specifications
Application in ELISA, EIA, Western Blot, Protein arrays, and Immuno-PCR
efficiently blocks free protein binding sites on plastics and other protein-binding surfaces based on bovine serum albumin (BSA) and Tween®
ready-to-use; stabilised with 0.1 % ProClin®

300; pH 7.4
THE Standard blocking reagent for many applications

Code	Packaging
A7252,0500	500 ml

Blocking Reagent CA

CS 38220000

Storage RT

A3409 *Blocking* Reagent CA

Blocking Reagent for Hybridization assays and Western blots

Specifications
used for blocking buffers and dilution of antibodies
Biotin-free! suited for streptavidin-biotin systems
based on Casein from bovine (Origin: New Zealand)

Code	Packaging
A3409,0010	10 g

Blue for fast staining (Panoptic No. 3)

CS 38220000

Density .....1.007 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

253998 Blue for fast staining (Panoptic No. 3) for clinical diagnosis

blood smear staining or medullary smear staining

Composition:
Azur B ..... 2 g
Buffer solution pH 7 (s.q.m.) ..... 1000 ml

Code	Packaging
253998.1210	500 ml
253998.1212	2.5 l

Blue-Green-Red Protein Marker see Protein Marker VI (10-245) prestained

Borax see di-Sodium tetra-Borate 10-hydrate

Boric Acid

Boracic Acid, ortho-Boric Acid

H_3BO_3
M = 61.83 g/mol
CAS 10043-35-3
EINECS 233-139-2
CS 28100090

Melting Point .....185 °C (dec.)
Solubility ..... 50 g/L (H_2O)
Solid

WGK 1
Storage RT

Danger



H360FD

131015 Boric Acid for analysis, ACS, ISO

Specifications
Minimum assay (Acidim.) ..... 99.8 %

Maximum limit of impurities
Insoluble matter in CH_3OH ..... 0.005 %
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4)
(CH_3OH · HCl) ..... 0.05 %
Chloride (Cl) ..... 0.0005 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) .....0.002 %
Heavy metals (as Pb) .....0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	5	Al	5	Fe	1	Ga	5
As	0.5	Au	5	Ge	5	In	5
Ba	5	Be	5	K	50	Li	5
Bi	5	Ca	20	Mg	5	Mn	5
Cd	5	Co	5	Mo	5	Na	20
Cr	5	Cu	5	Ni	5	Pb	5
				Pt	5	Sb	5
				Si	5	Sn	5
				Sr	5	Ti	5

Code	Packaging
131015.1210	500 g
131015.1211	1000 g
131015.1214	5 kg
131015.0415	10 Kg
131015.0416	25 kg

141015 Boric Acid (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 99.5-100.5 %
Identity according to Pharmacopoeias: ..... passes test
pH of 3.3 % solution 3.8-4.8

Maximum limit of impurities
Appearance of solution ..... passes test
Loss on drying .....0.5 %
Residue on ignition (as SO_4) .....0.1 %
($CH_3OH \cdot HCl$) .....0.1 %
Chloride (Cl) .....0.002 %
Phosphate (PO_4) .....0.002 %
Sulfate (SO_4) .....0.045 %
Organic substances .....passes test
Residual solvents (Ph. Eur./USP) .passes test
Solubility in C_2H_5OH .....passes test
Heavy metals (as Pb) .....0.0015 %
As .....0.0005 %
Cu .....0.001 %
Fe .....0.001 %
Mg .....0.005 %
Ni .....0.001 %
Pb .....0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.
It is not for internal use.

Code	Packaging
141015.1210	500 g
141015.1211	1000 g
141015.0914	5 kg
141015.0416	25 kg

A2940 Boric Acid for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
Assay (titr.) .....min. 99.8 %
pH (5 %; H_2O; 20 °C) 3.5-4.8
Water .....max. 0.3 %
Chloride .....max. 0.001 %
Phosphate .....max. 0.0002 %
Sulfate .....max. 0.02 %
As .....max. 0.0001 %
Ca .....max. 0.002 %
Cu .....max. 0.0005 %
Fe .....max. 0.0002 %
Mg .....max. 0.0005 %
Na .....max. 0.002 %
Pb .....max. 0.0005 %

Code	Packaging
A2940,0500	500 g
A2940,1000	1 kg
A2940,9025BW	25 kg

A1097 Boric Acid BioChemica

Specifications
Assay (titr.) .....min. 99.8 %
Heavy metals (as Pb) .....max. 0.001 %
pH (5 %; H_2O; 20 °C) 3.5-4.8
Water .....max. 0.3 %
Chloride .....max. 0.001 %
Phosphate .....max. 0.0002 %
Sulfate .....max. 0.02 %
A (1 cm/0.05 M in water)
260 nm .....max. 0.01
280 nm .....max. 0.01

Code	Packaging
A1097,1000	1 kg

A0768 Boric Acid for buffer solutions

Specifications
Assay (titr.) .....min. 99.5 %
Heavy metals (as Pb) .....max. 0.001 %
pH (5 %; H_2O; 20 °C) 3.5-4.8
Water .....max. 0.5 %
Chloride .....max. 0.005 %
Sulfate .....max. 0.02 %

Code	Packaging
A0768,1000	1 kg

Boric Acid solution 4 %

Boracic Acid solution, ortho-Boric Acid solution

H_3BO_3
M = 61.84 g/mol
CAS 10043-35-3
EINECS 233-139-2
CS 28100090
Density .....1.015 kg/l
Solubility .....Miscible with water
Liquid
WGK 1
Storage RT

282222 Boric Acid solution 4 % for volumetric analysis

for ammonia titration

Specifications
Assay (Acidim.) ..... 3.9-4.1 %

Code	Packaging
282222.1211	1000 ml
282222.1214	5 l
282222.0716	25 l

Boric Acid solution 3 %

Boracic Acid solution, ortho-Boric Acid solution

H_3BO_3
M = 61.84 g/mol
CAS 10043-35-3
EINECS 233-139-2
CS 28100090
Density .....1.010 kg/l
Solubility .....Miscible with water
Liquid
WGK 1
Storage RT

282928 Boric Acid solution 3 % for volumetric analysis

for ammonia titration

Specifications
Assay (Acidim.) .....2.95-3.05 %

Code	Packaging
282928.1211	1000 ml

Boric Acid solution 2 %

EINECS 233-139-2
CS 38220000
Liquid
WGK 1
Storage RT

287096 Boric Acid solution 2 % for volumetric analysis

Composition:
Boric acid (A3581) .....20 g/L

Code	Packaging
287096.1214	5 L
287096.0716	25 L

Boric Acid solution 1 %

Boracic Acid solution, ortho-Boric Acid solution

H_3BO_3
M = 61.84 g/mol
CAS 10043-35-3
EINECS 233-139-2
CS 28100090
Solubility .....Miscible with water
Liquid
Storage RT

282972 Boric Acid solution 1 % for volumetric analysis

Specifications
Assay (Acidim.) ..... 0.9-1.1 %

Code	Packaging
282972.1214	5 l

НеваРеактив

Boron Nitride

BN
M = 24.82 g/mol
CAS 10043-11-5
EINECS 233-136-6
CS 28500020

Melting Point .....2700-3000 °C
Solubility ..... almost insoluble
Solid

Storage RT

147119 Boron Nitride pure

Specifications
Assay (N) .....min. 98 %

Code	Packaging
147119.1207	50 g

Boron Trifluoride 14 % in methanol

CH_4BF_3O
M = 99.85 g/mol
CAS 16045-88-8
EINECS 206-766-4
CS 38220000

Density .....0.92 kg/l
Solubility Reacts violently with water and ethanol. miscible with ether, chloroform or benzene
Liquid

UN1992
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 1
Storage RT

Danger



H225 H331 H311 H301 H370

15A734 Boron Trifluoride 14 % in methanol for synthesis

Specifications
Minimum assay (Acidim.) ..... 14 %

Code	Packaging
15A734.1610	500 ml

Bouin Liquor

CS 38220000

Density .....1.029 kg/l
Liquid

WGK 1
Storage RT

Danger



H331 H311 H301 H317 H314

254102 Bouin Liquor for clinical diagnosis

Composition:
Picric Acid moistened with ~ 33 % of H_2O .....1.125 g
Acetic Acid glacial ..... 5 ml
Formaldehyde 35-40 % ..... 25 ml
Water ..... 77 ml

Code	Packaging
254102.1611	1000 ml

BPLS Agar see Brilliant Green Agar (Dehydrated Culture Media) for microbiology

Bradford - Solution

CS 38220000

Liquid

WGK 1
Storage 2-8 °C

Warning



H315 H319

A6932 Bradford - Solution for Protein Determination

Code	Packaging
A6932,0100	100 ml
A6932,0250	250 ml
A6932,0500	500 ml

Brain Heart Infusion Agar

BHI

CS 38220000

Solid

Storage RT

A5655 Brain Heart Infusion Agar

Specifications
pH before autoclaving ..... approx. 7.4 (20 °C)

Composition:
Agar ..... 13.0 g/L
Buffers ..... 2.5 g/L
Glucose .....2.0 g/L
Peptones .....27.5 g/L
Sodium Chloride .....5.0 g/L

Code	Packaging
A5655,0500	500 g

BrdU see 5-Bromo-2'-Deoxyuridine

Brefeldin A

Origin from *Eupenicillium brefeldianum*

$C_{16}H_{24}O_4$
M = 280.40 g/mol
CAS 20350-15-6
CS 29419000

Melting Point .....200-202 °C
Solid

WGK 1
Storage 2-8 °C

Warning



H302+H312+H332

A2138 Brefeldin A BioChemica

Specifications
Assay (HPLC) .....min. 99 %
Solubility (0.5 %; MeOH) .... clear, colorless to .....slightly yellowish

Code	Packaging
A2138,0005	5 mg
A2138,0025	25 mg

Brij® 35

Laureth-23, Dodecylpoly-(ethyleneglycolether)$_{23}$

$C_{58}H_{118}O_{24}$
M = 1198.56 g/mol
CAS 9002-92-0
CS 34021300

Solid

WGK 2
Storage RT

A1381 Brij® 35 BioChemica

® registered trademark of Atlas Chemical Co.

Specifications
Water .....max. 4 %

Code	Packaging
A1381,0250	250 g
A1381,1000	1 kg

Brij® 35 aqueous solution 30 % w/v

Polydocanol, Polyethyleneglycol mono-Dodecyl Ether, Polyoxyethylenelauric Ether

CAS 9002-92-0
CS 34021300

Density .....1.025 kg/l

WGK 2
Storage RT

252317 Brij® 35 aqueous solution 30 % w/v for clinical diagnosis

(® Registered trade-mark of ICI)surfactants for automatical analysis

Composition:
Brij ® 35 ..... 30 g
Water (s.q.m) ..... 100 ml
Heat to ~ 35 °C before use.

Code	Packaging
252317.1611	1000 ml

Brij® 35 solution 10 % peroxide-free

CS 38220000

Liquid

WGK 2
Storage 2-8 °C
protected from light
under argon

A1286 Brij® 35 solution 10 % peroxide-free

Aqueous solution
® registered trademark of Atlas Chemical Co.

Specifications
Peroxides (as H_2O_2) ..... max. 0.0001 %

Code	Packaging
A1286,0100	100 ml

Brij® 58

Polyethylene Glycol Hexadecylether

$C_{56}H_{114}O_{21}$
M = 1123.51 g/mol
CAS 9004-95-9
CS 34021300

Solid

WGK 3*
Storage RT

A1669 Brij® 58 BioChemica

® registered trademark of Atlas Chemical Co.

Specifications
Water (K.F.) ..... max. 3 %

Code	Packaging
A1669,1000	1 kg

Brillant-Green Phenol-Red Lactose Saccharose Agar see Brilliant Green Agar (Dehydrated Culture Media) for microbiology

Brilliant Blue FCF see Brilliant Blue FCF (C.I.42090)

Brilliant Blue FCF (C.I.42090)

Acid Blue 9 Disodium Salt, Brilliant Blue FCF, Alphazurine FG

$C_{37}H_{34}N_2Na_2O_9S_3$
M = 792.85 g/mol
CAS 3844-45-9
EINECS 223-339-8
CS 32041200

Solid

WGK 3
Storage RT

A5564 Erioglaucine (C.I.42090)

Specifications
$\lambda_{max\,1}$ ..... 406-410 nm
$\lambda_{max\,2}$ .....627-631 nm
TLC .....passes test

Code	Packaging
A5564,0025	25 g

Brilliant Blue G see Coomassie® Brilliant Blue G-250 (C.I. 42655)

Brilliant Blue R see Coomassie® Brilliant Blue R-250 (C.I. 42660)

Brilliant Cresyl Blue (C.I. 51010)

Oxazine mixture (Aminodimethyl Aminomethyl Diphenoxazonium Chlorides)

$C_{17}H_{20}ClN_3O$
M = 317.79 g/mol
CAS 81029-05-2
EINECS 279-675-0
CS 32041300

Solubility ..... Soluble in water.
Solid

Storage RT

251169 Brilliant Cresyl Blue (C.I. 51010) for clinical diagnosis

for microscopy, platelets and thrombocytes staining

Specifications
Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 1.03-1.20
λ_{max} ABS in ethanol 50 % .....622-635 nm
T.L.C. .....passes test
Maximum limit of impurities
Loss on drying at 135 °C .....10 %

Code	Packaging
251169.1604	5 g

HeBaPeaKTMB

Brilliant Green Bile Broth see Brilliant Green Bile 2 % Broth (ISO 4831, ISO 4832) (Dehydrated Culture Media) for micro

Brilliant Green (C.I. 42040)

Basic Green 1, Emerald Green, Malachite Green G, N-[4-[[4-(Diethylamino)Phenyl]Phenylmethylene]-2,5-Cyclohexadiene-1-Ylidene]-N-Ethyl

$C_{27}H_{34}N_2O_4S$
M = 482.64 g/mol
CAS 633-03-4
EINECS 211-190-1
CS 32041300

Melting Point ..... 210 °C
Solubility ..... water 40 g/l at 20 °C
Solubility ..... alcohol 50 g/l
Solid

WGK 2
Storage RT

Warning



H302 H319 H315

251758 Brilliant Green (C.I. 42040) for clinical diagnosis

for microscopy, vegetal tissue staining

Specifications
Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 0.94-1.14

A 1 %, 1 cm, λ_{max} ..... > 1750
λ_{max} ABS in C_2H_5OH 50 % ..... 628-632 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 135 °C ..... 5 %

Code	Packaging
251758.1606	25 g
251758.1608	100 g

Brilliant Green Hydrogensulfate see Brilliant Green (C.I. 42040)

Brilliantrose see Rhodamine B (C.I. 45170)

Brolacin Agar see CLED Medium (Dehydrated Culture Media) for microbiology

Bromelain from pineapple stem

Bromelin

M = approx. 33000 g/mol
CAS 37189-34-7
EINECS 232-575-4
CS 35079090

Solid

WGK 3
Storage 2-8 °C

Danger



H315 H319 H334 H335

A1548 Bromelain from pineapple stem BioChemica

Specifications
Assay ..... ~ 0.5 DMC-U/mg

Code	Packaging
A1548,0025	25 g
A1548,0100	100 g
A1548,0500	500 g
A1548,9010	10 Kg

Bromine

Br_2
M = 159.82 g/mol
CAS 7726-95-6
EINECS 231-778-1
CS 28013090
Index Nr. 035-001-00-5

Melting Point ..... -7.25 °C
Boiling Point ..... 58.78 °C
Density ..... 3.190 kg/l
Solubility ..... water 42 g/l at 20 °C
Liquid
volatile

UN1744
Class/PG 8(6.1)/I
ADR 8(6.1)/I · IMDG 8(6.1)/I · IATA 8(6.1)/I
WGK 2
Storage RT

Danger



H330 H314 H400

131199 Bromine (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (Iodom.) ..... 99.5 %

Maximum limit of impurities
Non-volatile matter ..... 0.005 %
Chlorine (Cl) ..... 0.05 %
Sulfur compounds (as S) ..... 0.001 %
Organic brominated compounds ..... passes test
Iodine (I) ..... 0.0005 %

Heavy metals (as Pb) ..... 0.0002 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.1	Al	0.5	Ga	0.1
As	0.5	Au	0.1	Ge	0.1
B	0.2	Ba	0.5	Hg	0.1
Be	0.5	Bi	0.1	In	0.1
Ca	5	Cd	0.2	K	5
Co	0.2	Cr	0.2	Li	0.2
Cu	0.2	Fe	0.5	Mg	5
				Mn	0.2
				Mo	0.1
				Na	5
				Ni	0.2
				Pb	0.5
				Pt	0.1
				Sb	0.1
				Si	0.4
				Sn	0.1
				Sr	5

Code	Packaging
131199.2209	250 ml

141199 Bromine pure

Specifications
Assay (Iodom.) ..... 99 %
Non-volatile matter ..... 0.05 %
Chlorine (Cl) ..... 0.3 %

Sulfate (SO_4) ..... 0.003 %
Iodine (I) ..... 0.001 %
As ..... 0.0001 %
Cu ..... 0.0005 %

Ni ..... 0.0005 %
Pb ..... 0.00005 %

Code	Packaging
141199.2208	100 ml
141199.2209	250 ml

161199 Bromine, 99 % for synthesis

Specifications
Minimum assay (Iodom.) ..... 99 %

Code	Packaging
161199.2209	250 ml
161199.2211	1000 ml

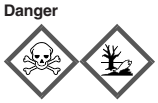
Bromine Water saturated solution

Br_2
M = 159.92 g/mol
CAS 7726-95-6
CS 38220000

Density ..... 1.03 kg/l
Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
WGK 2
Storage RT

Danger



H331 H319 H315 H411

171 Bromine Water saturated solution

Composition
Bromine ..... 1.5 ml
Water ..... 100 ml

Code	Packaging
171072.1610	500 ml

Bromine (Bromate-Bromide) 0.05 mol/l (0.1N)

CS 38220000

Density .....1.011 kg/l
Liquid

WGK 3
Storage RT

182000 Bromine (Bromate-Bromide) 0.05 mol/l (0.1N) volumetric solution

Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182000.1211	1000 ml

Bromine Index AMDS solution

CS 28070000

Density .....1.062 kg/l
Liquid

UN1760
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 2
Storage RT

Danger



H225 H314 H332 H312 H302 H351

125535 Bromine Index AMDS solution for analysis

Specifications
Composition according to ASTM D2710-99 and ASTM D1159-07.

Acetic Acid glacial ..... 714 ml
Sulfuric Acid (1+5) .....18 ml

Methanol .....134 ml
Dichloromethane .....134 ml

Code	Packaging
125535.1612	2.5 l

Bromine Iodide see Iodine mono-Bromide

Bromine solution 1 %, in hydrobromic acid

CS 38220000

Density .....1.500 kg/l
Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
WGK 2
Storage RT

Danger



H330 H314 H319 H315 H335 H411

126294 Bromine solution 1 %, in hydrobromic acid for analysis

Specifications
Assay (as Br_2) w/w ..... 1.0 ± 0.2 %

Code	Packaging
126294.1611	1000 ml

5-Bromo-2'-Deoxyuridine

BrdU

$C_9H_{11}BrN_2O_5$
M = 307.11 g/mol
CAS 59-14-3
EINECS 200-415-9
CS 29349990

Melting Point .....193-197 °C
Solid

WGK 2
Storage 2-8 °C
Storage protected from light

Danger



H340 H361

A2139 5-Bromo-2'-Deoxyuridine BioChemica

Specifications
Assay (HPLC) .....min. 99 %
α20 °C/D; 1 %, H_2O .....22-24°

Heavy metals (as Pb) ..... max. 0.001 %
Water (K.F.) ..... max. 1 %

Code	Packaging
A2139,0005	5 g

2-Bromo-2-Nitro-1,3-Propanediol

Bronopol

$C_3H_6BrNO_4$
M = 199.99 g/mol
CAS 52-51-7
EINECS 200-143-0
CS 29055998
Index Nr. 603-085-00-8

Melting Point .....128-132 °C
Solubility ..... Soluble in water.
Solid

UN3241
Class/PG 4.1/III
ADR 4.1/III · IMDG 4.1/III · IATA 4.1/III
WGK 2
Storage RT

Danger



H312 H302 H335 H315 H318 H400

144747 2-Bromo-2-Nitro-1,3-Propanediol (BP) pure, pharma grade

Specifications
Assay ($C_3H_6BrNO_4$)
calc. a.d.s. .....99.0-101.0 %
Identity according to Pharmacopoeias: ..... passes test
pH sol. 1 % 5.0-7.0

Maximum limit of impurities
Insoluble matter in H_2O .....0.01 %
Residue on ignition (as SO_4) .....0.1 %
Related substances .....passes test
Water (H_2O) .....0.5 %
Cu .....0.001 %

Fe .....0.001 %
Ni .....0.001 %
Pb .....0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
144747.1208	100 g
144747.1211	1000 g

1-Bromo-3-Chloropropane

BCP, 1-Chloro-3-Bromopropane

C_3H_6BrCl
M = 157.44 g/mol
CAS 109-70-6
EINECS 203-697-1
CS 29034980

Melting Point .....-58 °C
Boiling Point .....141-143 °C
Density .....1.595-1.597 kg/l (20 °C)
Liquid

UN2688
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H302 H331 H412

A2107 1-Bromo-3-Chloropropane BioChemica

Specifications
Assay .....min. 98 %

Code	Packaging
A2107,0250	250 ml

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

5-Bromo-4-Chloro-3-Indolyl-beta-D-glucuronide Sodium salt see X-Gal

5-Bromo-4-Chloro-3-Indolyl-beta-D-glucuronide Sodium salt see X-Glucuro CHA Salt

Bromocresol Green

3,3',5,5'-Tetrabromo m-Cresolsulphonphthalein, BCG

$C_{21}H_{14}Br_4O_5S$
M = 698.04 g/mol
CAS 76-60-8
EINECS 200-972-8
CS 29349990

Melting Point ..... 225 °C
Solubility ..... water 6 g/l at 20 °C
Solubility ..... alcohol 40 g/l
Solid

WGK 2
Storage RT

131759 Bromocresol Green for analysis, ACS

pH indicator: 3,8 yellow; 5,4 blue

Specifications
Identity ..... IR passes test
Range of Transition interval according to ACS ..... passes test
T.L.C. ..... passes test

Maximum limit of impurities
pH transition interval: yellow 3.8
pH transition interval: blue 5.4
Insoluble matter in C_2H_5OH ..... passes test
Loss on drying at 110 °C ..... 5 %
Residue on ignition (as SO_4) ..... 0.5 %

Code	Packaging
131759.1603	1 g
131759.1604	5 g
131759.1606	25 g

Bromocresol Green solution 0.04 %

3,3',5,5'-Tetrabromo m-Cresolsulphonphthalein, BCG

$C_{21}H_{14}Br_4O_5S$
M = 698.04 g/mol
CAS 76-60-8
CS 38220000

Density ..... 0.979 kg/l
Liquid

WGK 1
Storage RT

281760 Bromocresol Green solution 0.04 % for volumetric analysis

pH indicator: 3,6 yellow; 5,4 blue

Composition:
Bromocresol Green ..... 40 mg
Ethanol absolute ..... 17 ml
Sodium Hydroxide 0.1 mol/l ..... 0.58 ml
Water (s.q.m) ..... 100 ml

Identity ..... passes test
Maximum limit of impurities
pH transition interval: yellow 3.6
pH transition interval: blue 5.4
Sensitivity test ..... passes test

Code	Packaging
281760.1208	100 ml

Bromocresol Purple

5',5''-Dibromo-o-Cresolsulphonephthalein

$C_{21}H_{16}Br_2O_5S$
M = 540.24 g/mol
CAS 115-40-2
EINECS 204-087-8
CS 29349990

Melting Point ..... 240 °C
Solubility ..... water 20 g/l at 20 °C
Solubility ..... alcohol 80 g/l
Solid

WGK 2
Storage between 2-8 °C

121546 Bromocresol Purple for analysis

pH indicator: 5,2 greenish yellow; 6,8 bluish purple

Specifications
Identity ..... IR passes test
A 1 %, 1 cm, λ_{max} 1 (calc. a.d.s.) ..... > 400
A 1 %, 1 cm, λ_{max} 2 (calc. a.d.s.) ..... > 950
λ_{max} ABS ..... 588-590 nm
λ_{max} ABS ..... 427-433 nm
T.L.C. ..... passes test

Maximum limit of impurities
pH transition interval: greenish yellow 5.2
pH transition interval: bluish purple 6.8
Insoluble matter in C_2H_5OH ..... passes test
Loss on drying at 110 °C ..... 1 %
Residue on ignition (as SO_4) ..... 0.5 %

Code	Packaging
121546.1606	25 g

Bromocresol Purple solution 0.025 %

5',5''-Dibromo-o-Cresolsulphonephthalein

$C_{21}H_{16}Br_2O_5S$
M = 540.24 g/mol
CAS 115-40-2
EINECS 204-087-8
CS 29349990

Density ..... 1.000 kg/l
Solubility ..... Miscible with water
Liquid

WGK 2
Storage RT

282861 Bromocresol Purple solution 0.025 % for volumetric analysis

pH indicator: 5,2 greenish yellow; 6,8 bluish purple

Specifications
pH transition interval: greenish yellow 5.2
pH transition interval: bluish purple 6.8

Code	Packaging
282861.1211	1000 ml

Bromoform

Tribromomethane

Br_3CH
M = 252.75 g/mol
CAS 75-25-2
EINECS 200-854-6
CS 29033919
Index Nr. 602-007-00-X

Melting Point ..... 8 °C
Boiling Point ..... 149 °C
Density ..... 2.825 kg/l
Solubility ..... water 3.2 g/l at 20 °C
Refractive Index n20/D 1.5976
Liquid

UN2515
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H302 H331 H315 H319 H411

141201 Bromoform stabilized with ethanol pure

Specifications
Assay (G.C.) ..... 98 %
Density 20/4 ..... 2.810-2.830
Acidity ..... passes test
Foreign odorous substances ..... passes test
Free bromine ..... passes test
Ethanol (G.C.) ..... 1.0 %
Water (H_2O) ..... 0.1 %

Code	Packaging
141201.1611	1000 g

1-Bromonaphthalene

1-Naphthyl Bromide, a-Bromonaphthalene

$C_{10}H_7Br$
M = 207.08 g/mol
CAS 90-11-9
EINECS 201-965-2
CS 29036990

Melting Point ..... 1 °C
Boiling Point ..... 281 °C
Density ..... 1.485 kg/l
Refractive Index n20/D 1.6576
Liquid

WGK 2
Storage RT

15A603 1-Bromonaphthalene, 96 % for synthesis

Specifications
Minimum assay (G.C.) ..... 96 %
Identity ..... IR passes test
Density 20/4 ..... 1.483-1.486

Code	Packaging
15A603.1610	500 ml
15A603.1612	2.5 l

Bromophenol Blue

3',3'',5',5''-Tetrabromophenolsulfonephthalein

$C_{19}H_{10}Br_4O_5S$
M = 669.96 g/mol
CAS 115-39-9
EINECS 204-086-2
CS 29349990

Solid

Storage RT

131165 Bromophenol Blue for analysis, ACS

pH indicator 3,0 greenish yellow; 4,6 blue

Specifications
Identity ..... IR passes test
Range of Transition interval according to ACS ..... passes test

T.L.C. ..... passes test

Maximum limit of impurities
pH transition interval: greenish yellow 3.0
pH transition interval: blue 4.6
Insoluble matter in C_2H_5OH ..... passes test

Loss on drying at 110 °C ..... 5 %
Residue on ignition (as SO_4) ..... 0.5 %
Cu ..... 0.005 %
Fe ..... 0.005 %
Ni ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
131165.1604	5 g
131165.1606	25 g

A2331 Bromophenol Blue

Specifications
Assay (photometr.) ..... min. 95 %
$\lambda_{max,\ 1}$ (pH 3.0) ..... 434-439 nm
$\lambda_{max,\ 2}$ (pH 4.6) ..... 590-593 nm

E 1 %/1 cm, λ_1 350-385
E 1 %/1 cm, λ_2 940-1000
Loss on drying ..... max. 1 %

Code	Packaging
A2331,0005	5 g
A2331,0025	25 g

Bromophenol Blue Sodium Salt

3',3'',5',5''-Tetrabromophenolsulfonephthalein

$C_{19}H_9Br_4NaO_5S$
M = 691.94 g/mol
CAS 34725-61-6
EINECS 252-170-2
CS 29349990

Solid

Storage RT

A4968 Bromophenol Blue Sodium Salt for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (photometr.) ..... min. 90 %

λ_{max} (pH 4.6) ..... 590-595 nm
Loss on drying ..... max. 5 %

Code	Packaging
A4968,0010	10 g

A3640 Bromophenol Blue Sodium Salt for electrophoresis

Specifications
Assay (photometr.) ..... min. 90 %
λ_{max} (pH 4.6) ..... 590-595 nm

Loss on drying ..... max. 5 %
Transition interval ..... passes test

Code	Packaging
A3640,0005	5 g

Bromophenol Blue solution (aqueous solution)

CS 38220000

Liquid

Storage RT

287121 Bromophenol Blue solution (aqueous solution) for volumetric analysis

ready-to-use aqueous indicator solution

Composition:
Bromophenol blue (A2331) ..... 0.1 %

Code	Packaging
287121.1609	250 ml

Bromophenol Blue solution 0.04 % (in diluted ethanol)

3',3'',5',5''-Tetrabromophenolsulphonephthalein

$C_{19}H_{10}Br_4O_5S$
M = 669.99 g/mol
CAS 115-39-9
CS 38220000

Density ..... 0.976 kg/l
Liquid

WGK 1
Storage RT

281166 Bromophenol Blue solution 0.04 % for volumetric analysis

pH indicator: 3,0 greenish yellow; 4,6 blue

Composition:
Bromophenol Blue ..... 40 mg
Sodium Hydroxide 0.1 mol/l ..... 1.1 ml
Ethanol absolute ..... 17 ml
Water (s.q.m) ..... 100 ml

Identity ..... passes test
pH transition interval: greenish yellow 3.0
pH transition interval: blue 4.6
Sensitivity test ..... passes test

Code	Packaging
281166.1208	100 ml

Bromopotassium see Potassium Bromide

Bromothymol Blue

3',3''-Dibromothymolsulphonephthalein, BTB

$C_{27}H_{28}Br_2O_5S$
M = 624.40 g/mol
CAS 76-59-5
EINECS 200-971-2
CS 29329900

Melting Point .....200-202 °C
Solubility ..... water 1 g/l at 20 °C
Solubility .....alcohol 20 g/l
Solid

WGK 2
Storage RT

131167 Bromothymol Blue for analysis, ACS

pH indicator: 6,0 yellow; 7,6 blue

Specifications
Identity .....IR passes test
Range of Transition interval
according to ACS ..... passes test

T.L.C. .....passes test

Maximum limit of impurities
pH transition interval: yellow 6.0
pH transition interval: blue 7.6
Insoluble matter in C_2H_5OH .....passes test

Loss on drying at 110 °C .....5 %
Residue on ignition (as SO_4) .....0.5 %
Cu ..... 0.005 %
Fe ..... 0.005 %
Ni ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
131167.1604	5 g
131167.1606	25 g

Bromothymol Blue solution 0.4 %

3',3''-Dibromothymolsulphonephthalein, BTB

$C_{27}H_{28}Br_2O_5S$
M = 624.40 g/mol
CAS 76-59-5
CS 38220000

Density .....0.932 kg/l
Liquid

UN1993
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 2
Storage RT

Danger



H225

624566 Bromothymol Blue solution 0.4 % VINIKIT for wine analysis

for determination of total acidity in wine and must. pH indicator: 6,0 yellow; 7,6 blue

Composition:
Bromothymol Blue ..... 0.4 g
Sodium Hydroxide 0.1 mol/l ..... 1.8 ml

Ethanol absolute .....50 ml
Water (s.q.m) .....100 ml

Code	Packaging
624566.1209	250 ml

Bromothymol Blue solution 0.04 %

3',3''-Dibromothymolsulphonephthalein, BTB

$C_{27}H_{28}Br_2O_5S$
M = 624.40 g/mol
CAS 76-59-5
CS 38220000

Density .....0.974 kg/l
Liquid

UN1993
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 2
Storage RT

Danger



H225

281168 Bromothymol Blue solution 0.04 % for volumetric analysis

pH indicator: 6,0 yellow; 7,6 blue

Composition:
Bromothymol Blue ..... 40 mg
Sodium Hydroxide 0.1 mol/l ..... 0.8 ml

Ethanol absolute .....20.4 ml
Water (s.q.m) .....100 ml

Code	Packaging
281168.1208	100 ml
281168.1209	250 ml

Bromothymol-Blue-Lactose-Cystine-Agar see CLED Medium (Dehydrated Culture Media) for microbiology

Bromsulfalein see Sulfobromophthalein Disodium Salt hydrate

Bronopol see 2-Bromo-2-Nitro-1,3-Propanediol

Bryamicin see Thiostrepton

BS3

Bis(sulfosuccinimidyl)suberate Disodium Salt

$C_{16}H_{18}N_2Na_2O_{14}S_2$
M = 572.43 g/mol
CAS 82436-77-9
CS 29251995

Solubility .....Water, DMF
Solid

Storage -20 °C

A7961 BS³

Specifications
Assay .....min. 95 %
Identity (NMR) ..... passes test

Code	Packaging
A7961,0100	100 mg

BSA see Albumin Fraction V (pH 7.0)

BSTFA see N,O-Bis-(trimethylsilyl)-trifluoroacetamide

Bucladesine see N6-2'-O-Dibutyryl-Adenosine 3',5'-Cyclophosphate Sodium Salt 1-hydrate

Buffer Solution Cesium Chloride/Lanthanum Chloride

CS 38220000

Density .....1.176 kg/l
Solubility ..... Soluble in water.
Liquid

WGK 1
Storage RT

176168 Buffer Solution Cesium Chloride/Lanthanum Chloride

CsCl + La_2O_3 in HCl) for atomic absorption spectroscopy according to Schinkel

Specifications
Assay (as Cs) .....7.50-8.28 g/l
Assay (as La) ..... 95.2-105.2 g/l

Metals by ICP [in mg/Kg (ppm)]
Ca 5
Cd 0.2
Co 1
Cr 1
Cu 0.2
Fe 1
K 1
Li 0.2
Mg 1
Mn 0.2
Na 2
Ni 1
Sr 1
Zn 2

Code	Packaging
176168.1211	1000 ml

Buffer Solution pH 4.01 (25 °C) (capsules)

CS 38220000

Melting Point ..... 295 °C
Solubility ..... Soluble in water.
Bicolour plastic capsules, 2,6 cm length

WGK 1
Storage RT

293164 pH Buffer 4,01 (25 °C) (capsules)

Specifications
pH values depending on temperature

T (°C)	pH
0	4.00
5	4.01
10	4.01
15	4.01
20	4.01
25	4.02
30	4.03
35	4.06
40	4.08

Uncertainty ..... See certificate
Traceability ..... NIST
pH at 25 °C (A capsule dissolved in 100 mL of H_2O) 3.99-4.03

Code	Packaging
293164.1224	25 caps.

Buffer Solution pH 7.00 (25 °C) (capsules)

CS 38220000

Solubility ..... Soluble in water.
Bicolour plastic capsules, 2,6 cm length

WGK 1
Storage RT

293165 pH Buffer 7,00 (25 °C) (capsules)

Specifications
pH values depending on temperature

T (°C)	pH
10	7.07
15	7.04
20	7.02
25	7.00
30	6.99
35	6.98
40	6.97
50	6.96
60	6.96

Uncertainty ..... See certificate
Traceability ..... NIST
pH at 25 °C (A capsule dissolved in 100 mL of H_2O) 6.98-7.02

Code	Packaging
293165.1224	25 caps.

Buffer Solution pH 9.00 (25 °C) (capsules)

CS 38220000

Solubility ..... Soluble in water.
Bicolour plastic capsules, 2,6 cm length

WGK 1
Storage RT

293166 pH Buffer 9,00 (25 °C) (capsules)

Specifications
pH values depending on temperature

T (°C)	pH
0	9.21
5	9.14
10	9.06
15	9.00
20	8.96
25	8.92
30	8.88
35	8.83
40	8.81

Uncertainty ..... See certificate
Traceability ..... NIST
pH at 25 °C (A capsule dissolved in 100 mL of H_2O) 8.98-9.02

Code	Packaging
293166.1224	25 caps.

Buffer Solution pH 1.00 (20 °C)

CS 38220000

Density ..... 1.005 kg/l
Liquid

WGK 1
Storage RT

272580 Buffer Solution pH 1.00 (20 °C)

Composition:

Glycine	0.168 g
Sodium Chloride	0.132 g
Hydrochloric Acid 35 %	11 ml
Preservative 1 %	5 ml
Water (s.q.m)	1 l

pH values depending on temperature

T (°C)	ApH
0	-0.04
5	-0.01
10	-0.01
15	-0.01
20	0
25	+0.01
30	+0.01
35	+0.01
40	+0.01
50	+0.01

Uncertainty ..... See certificate
Traceability ..... NIST
pH at 20 °C 0.98-1.02

Code	Packaging
272580.1209	250 ml
272580.1211	1000 ml

Buffer Solution pH 1.679

CS 38220000

Liquid

Storage RT

277126 Buffer Solution pH 1.679

These buffer solutions are useful for the calibration of high precision laboratory pH meters

* standardized, according to DIN19266

Specifications

pH (10 °C)	1.672 ± 0.01
pH (20 °C)	1.675 ± 0.01
pH (25 °C)	1.679 ± 0.01
pH (30 °C)	1.683 ± 0.01

Code	Packaging
277126.1209	250 ml

Buffer Solution pH 2.00 (20 °C)

CS 38220000

Density ..... 1.007 kg/l
Liquid

WGK 1
Storage RT

272581 Buffer Solution pH 2.00 (20 °C)

Composition:

Citric Acid 1 H_2O	6.430 g
Sodium Hydroxide 50 % sol. w/w	3.26 ml
Hydrochloric Acid 35 %	6.126 ml
Preservative 1 %	5 ml
Water (s.q.m)	1 l

pH values depending on temperature

T (°C)	ApH
0	+0.01
5	+0.01
10	+0.01
15	0
20	0
25	0
30	0
35	0
40	0
50	0

Uncertainty ..... See certificate
Traceability ..... NIST
pH at 20 °C 1.98-2.02

Code	Packaging
272581.1209	250 ml
272581.1211	1000 ml

Buffer Solution pH 3.00 (20 °C)

CS 38220000

Density ..... 1.005 kg/l
Liquid

WGK 1
Storage RT

272537 Buffer Solution pH 3.00 (20 °C)

Composition:

Citric Acid 1 H_2O	8.470 g
Sodium Hydroxide 50 % sol. w/w	4.3 ml
Hydrochloric Acid 35 %	5.269 ml
Preservative 1 %	5 ml
Water (s.q.m)	1 l

pH values depending on temperature

T (°C)	ApH
0	+0.05
5	+0.05
10	+0.03
15	+0.01
20	0
25	0
30	0
35	0
40	-0.02
50	-0.03

Uncertainty ..... See certificate
Traceability ..... NIST
pH at 20 °C 2.98-3.02

Code	Packaging
272537.1209	250 ml
272537.1211	1000 ml

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Buffer Solution pH 3.2

CS 38220000 | Density .....1.031 kg/l | WGK 1
Liquid | Storage RT

275653 Buffer Solution pH 3.2

Composition:
di-Sodium Hydrogen Phosphate 12-hydrate .....54.0 g
Citric Acid 1 H_2O ..... 42.0 g
Water (s.q.m) ..... 1000 ml
Uncertainty ..... See certificate
Traceability .....NIST
pH at 20 °C ..... 3.18 -3.22

Code	Packaging
275653.1214	5 l

Buffer Solution pH 4.00 (20 °C)

CS 38220000 | Density .....1.008 kg/l | WGK 1
Liquid | Storage RT

272168 Buffer Solution pH 4.00 (20 °C)

Composition:
Citric Acid 1 H_2O .....11.768 g
Sodium Hydroxide 50 % sol. w/w .....6 ml
Hydrochloric Acid 35 % .....3.96 ml
Preservative 1 % .....5 ml
Water (s.q.m) .....1 l

pH values depending on temperature

T (°C)	ApH
0	+0.05
5	+0.04
10	+0.02
15	+0.01
20	0
25	+0.01
30	+0.01
35	+0.01
40	+0.01
50	0

Uncertainty .....See certificate
Traceability .....NIST
pH at 20 °C 3.98-4.02

Code	Packaging
272168.1209	250 ml
272168.1210	500 ml
272168.1211	1000 ml
272168.1214	5 l
272168.0715	10 l
272168.1315	10 l

Buffer Solution pH 4.00 (20 °C) (red colour)

CS 38220000 | Density .....1.005 kg/l | WGK 1
Liquid | Storage RT

273616 Buffer Solution pH 4.00 (20 °C) (red colour)

Composition:
Citric Acid 1 H_2O .....11.768 g
Sodium Hydroxide 50 % sol. w/w .....6 ml
Hydrochloric Acid 35 % .....3.96 ml
Preservative 1 % .....5 ml
Amaranth .....4 mg/l
Water (s.q.m) .....1 l

pH values depending on temperature

T (°C)	ApH
0	+0.05
5	+0.04
10	+0.02
15	+0.01
20	0
25	+0.01
30	+0.01
35	+0.01
40	+0.01
50	0

Uncertainty .....See certificate
Traceability .....NIST
pH at 20 °C 3.98-4.02

Code	Packaging
273616.1209	250 ml
273616.1210	500 ml
273616.1211	1000 ml
273616.1214	5 l
273616.1315	10 l

Buffer Solution pH 4.006

CS 38220000 | Liquid | Storage RT

277125 Buffer Solution pH 4.006

These buffer solutions are useful for the calibration of high precision laboratory pH meters

* standardized, according to DIN19266

Specifications
pH (10 °C) ..... 3.999 ± 0.01
pH (20 °C) ..... 4.001 ± 0.01
pH (25 °C) .....4.006 ± 0.01
pH (30 °C) .....4.012 ± 0.01

Code	Packaging
277125.1209	250 ml
277125.1211	1 L

Buffer Solution pH 4.65

CS 38220000 | Liquid | Storage RT

277090 Buffer Solution pH 4.65

preferably for the calibration of technical pH instruments

* standardized, according to DIN19267

Specifications
pH (10 °C) ..... 4.66 ± 0.02
pH (20 °C) ..... 4.65 ± 0.02
pH (25 °C) .....4.65 ± 0.02
pH (30 °C) .....4.65 ± 0.02

Code	Packaging
277090.1211	1 L

Buffer Solution pH 4.66

CS 38220000 | Liquid | Storage RT

277092 Buffer Solution pH 4.66

Acetic acid / Sodium acetate for complexometrical titration

Specifications
pH (25 °C) ..... 4.66 ± 0.05

Code	Packaging
277092.1211	1 L

Buffer Solution pH 5.00 (20 °C)

CS 38220000 | Density .....1.015 kg/l | WGK 1
Liquid | Storage RT

272582 Buffer Solution pH 5.00 (20 °C)

Composition:
Citric Acid 1 H_2O .....20.256 g
Sodium Hydroxide 50 % sol. w/w .....10.45 ml
Preservative 1 % .....5 ml
Water (s.q.m) .....1 l

pH values depending on temperature

T (°C)	ApH
0	+0.06
5	+0.05
10	+0.02
15	+0.01
20	0
25	0
30	0
35	0
40	0
50	+0.01

Uncertainty .....See certificate
Traceability .....NIST
pH at 20 °C 4.98-5.02

Code	Packaging
272582.1211	1000 ml

Buffer Solution pH 6.00 (20 °C)

CS 38220000 | Density .....1.010 kg/l | WGK 1
Liquid | Storage RT

272549 Buffer Solution pH 6.00 (20 °C)

Composition:
Citric Acid 1 H_2O .....12.526 g
Sodium Hydroxide 50 % sol. w/w .....8.43 ml
Preservative 1 % .....5 ml
Water (s.q.m) .....1 l
pH values depending on temperature

T (°C)	ApH
0	+0.04
5	+0.02
10	+0.01
15	0
20	0
25	+0.02
30	+0.03
35	+0.03
40	+0.04
50	+0.06

Uncertainty .....See certificate
Traceability .....NIST
pH at 20 °C 5.98-6.02

Code	Packaging
272549.1211	1000 ml

Buffer Solution pH 6.865

CS 38220000 | Liquid | Storage RT

277124 Buffer Solution pH 6.865

These buffer solutions are useful for the calibration of high precision laboratory pH meters

* standardized, according to DIN19266

Specifications
pH (10 °C) .....6.900 ± 0.01
pH (20 °C) .....6.881 ± 0.01
pH (25 °C) .....6.865 ± 0.01
pH (30 °C) .....6.853 ± 0.01

Code	Packaging
277124.1211	1 L

Buffer Solution pH 6.88

CS 38220000 | Liquid | Storage RT

277091 Buffer Solution pH 6.88

0.025 M Potassium dihydrogen phosphate /
0.025 M di-Sodium hydrogen phosphate

Specifications
pH (25 °C) .....6.88 ± 0.05

Code	Packaging
277091.1211	1 L

Buffer Solution pH 7.00 (20 °C)

CS 38220000 | Density .....1.006 kg/l | WGK 1
Liquid | Storage RT

272170 Buffer Solution pH 7.00 (20 °C)

Composition:
Potassium di-Hydrogen Phosphate .....3.522 g
di-Sodium Hydrogen
Phosphate 12-hydrate .....14.020 g
Preservative 1 % .....5 ml
Water (s.q.m) .....1 l
pH values depending on temperature

T (°C)	ApH
0	+0.13
5	+0.07
10	+0.05
15	+0.02
20	0
25	-0.02
30	-0.02
35	-0.04
40	-0.05
50	-0.05

Uncertainty .....See certificate
Traceability .....NIST
pH at 20 °C 6.98-7.02

Code	Packaging
272170.1209	250 ml
272170.1210	500 ml
272170.1211	1000 ml
272170.1214	5 l
272170.1315	10 l

Buffer Solution pH 7.00 (20 °C) (yellow colour)

CS 38220000 | Density .....1.007 kg/l | WGK 1
Liquid | Storage RT

273617 Buffer Solution pH 7.00 (20 °C) (yellow colour)

Composition:
Potassium di-Hydrogen Phosphate .....3.522 g
di-Sodium Hydrogen
Phosphate 12-hydrate .....14.020 g
Preservative 1 % .....5 ml
Preservative 1 % .....1.5 mg/l
Water (s.q.m) .....1 l
pH values depending on temperature

T (°C)	ApH
0	+0.13
5	+0.07
10	+0.05
15	+0.02
20	0
25	-0.02
30	-0.02
35	-0.04
40	-0.05
50	-0.05

Uncertainty .....See certificate
Traceability .....NIST
pH at 20 °C 6.98-7.02

Code	Packaging
273617.1209	250 ml
273617.1210	500 ml
273617.1211	1000 ml
273617.1214	5 l
273617.1315	10 l

Buffer Solution pH 7.02 (20 °C)

CS 38220000 | Density .....1.008 kg/l | WGK 1
Liquid | Storage RT

273108 Buffer Solution pH 7.02 (20 °C)

Composition:
Potassium di-Hydrogen Phosphate .....3.522 g
di-Sodium Hydrogen
Phosphate 12-hydrate .....14.020 g
Preservative 1 % .....5 ml
Water (s.q.m) .....1 l
pH values depending on temperature

T (°C)	ApH
0	+0.13
5	+0.07
10	+0.05
15	+0.02
20	0
25	-0.02
30	-0.02
35	-0.04
40	-0.05
50	-0.05

Uncertainty .....See certificate
Traceability .....NIST
pH at 20 °C 7.00-7.04

Code	Packaging
273108.1209	250 ml
273108.1211	1000 ml

Buffer Solution pH 7.2

CS 38220000 | Density .....1.001 kg/l | WGK 1
Liquid | Storage RT

252164 Buffer Solution pH 7.2 for clinical diagnosis

For hematology, according to Weise

Composition:
Potassium di-Hydrogen Phosphate ..... 40 mg
di-Sodium Hydrogen
Phosphate 12-hydrate .....151 mg
Water (s.q.m) .....100 ml

Code	Packaging
252164.1211	1000 ml

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Buffer Solution pH 8.00 (20 °C)

CS 38220000

Density .....1.002 kg/l
Liquid

WGK 1
Storage RT

272583 Buffer Solution pH 8.00 (20 °C)

Composition:
Boric Acid .....6.928 g
Sodium Hydroxide 50 % sol. w/w .....3 ml
Hydrochloric Acid 35 % .....3.9 ml
Preservative 1 % .....5 ml
Water (s.q.m) .....1 l
pH values depending on temperature

T (°C)	ApH
0	+0.15
5	+0.10
10	+0.07
15	+0.04
20	0
25	-0.04
30	-0.06
35	-0.08
40	-0.10
50	-0.15

Uncertainty .....See certificate
Traceability .....NIST
pH at 20 °C 7.98-8.02

Code	Packaging
272583.1211	1000 ml

Buffer Solution pH 9.00 (20 °C)

CS 38220000

Density .....1.006 kg/l
Liquid

WGK 1
Storage RT

272172 Buffer Solution pH 9.00 (20 °C)

Composition:
Boric Acid .....3.092 g
Potassium Chloride .....3.728 g
Sodium Hydroxide 50 % sol. w/w .....1.10 ml
Preservative 1 % .....5 ml
Water (s.q.m) .....1 l
pH values depending on temperature

T (°C)	ApH
0	+0.24
5	+0.16
10	+0.11
15	+0.05
20	0
25	-0.05
30	-0.09
35	-0.12
40	-0.15
50	-0.21

Uncertainty .....See certificate
Traceability .....NIST
pH at 20 °C 8.98-9.02

Code	Packaging
272172.1211	1000 ml

Buffer Solution pH 9.180

CS 38220000

Liquid

Storage RT

277123 Buffer Solution pH 9.180

These buffer solutions are useful for the calibration of high precision laboratory pH meters
* standardized, according to DIN19266

Specifications
pH (10 °C) ..... 9.276 ± 0.01
pH (20 °C) ..... 9.225 ± 0.01
pH (25 °C) .....9.180 ± 0.01
pH (30 °C) .....9.136 ± 0.01

Code	Packaging
277123.1211	1 L

Buffer Solution pH 9.23 (20 °C)

CS 38220000

Density .....1.001 kg/l
Liquid

WGK 1
Storage RT

273107 Buffer Solution pH 9.23 (20 °C)

Composition:
Boric Acid .....2.475 g
Sodium Hydroxide pellets .....0.825 g
Preservative 1 % .....5 ml
Water (s.q.m) .....1 l
pH values depending on temperature

T (°C)	ApH
0	+0.24
5	+0.17
10	+0.11
15	+0.05
20	0
25	-0.05
30	-0.09
35	-0.12
40	-0.16
50	-0.21

Uncertainty .....See certificate
Traceability .....NIST
pH at 20 °C 9.21-9.25

Code	Packaging
273107.1209	250 ml
273107.1211	1000 ml

Buffer Solution pH 9.60 (20 °C)

CS 38220000

Boiling Point ..... 110 °C
Density .....1.006 kg/l
Solubility .....Miscible with water
Liquid

WGK 1
Storage RT

Danger



H360FD

277001 Buffer Solution pH 9.60 (20 °C)

Composition:
Boric Acid .....3.092 g
Potassium Chloride .....3.728 g

Sodium Hydroxide 50 % sol. w/w ..... 1.95 ml
Preservative B 1 % ..... 5 ml
Deionized Water ..... 992 ml

Uncertainty .....See certificate
Traceability .....NIST
pH at 20 °C 9.58-9.62

Code	Packaging
277001.1211	1000 ml

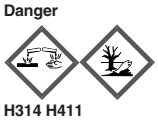
Buffer Solution pH 10

CS 38220000

Density .....0.977 kg/l
Liquid

UN1719
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Danger



H314 H411

281730 Buffer Solution pH 10 for volumetric analysis

for complexometry

Composition:
Ammonium Chloride ..... 6.75 g
Ammonia 30 % ..... 35 ml
Water (s.q.m) ..... 100 ml

Code	Packaging
281730.1209	250 ml
281730.1211	1000 ml

HeBaPeaKTMB

Buffer Solution pH 10.00 (20 °C)

CS 38220000

Melting Point ..... - 6 °C
Boiling Point ..... 110 °C
Density ..... 1.006 kg/l
Liquid

WGK 1
Storage RT

272584 Buffer Solution pH 10.00 (20 °C)

Composition:
Boric Acid ..... 3.092 g
Potassium Chloride ..... 3.728 g
Sodium Hydroxide 50 % sol. w/w ..... 2.34 ml
Preservative 1 % ..... 5 ml
Water (s.q.m) ..... 1 l
pH values depending on temperature

T (°C)	ApH
0	+0.26
5	+0.17
10	+0.11
15	+0.05
20	0
25	-0.06
30	-0.11
35	-0.16
40	-0.18
50	-0.26

Uncertainty ..... See certificate
Traceability ..... NIST
pH at 20 °C 9.95-10.05

Code	Packaging
272584.1209	250 ml
272584.1211	1000 ml

Buffer Solution pH 10.00 (20 °C) (blue colour)

CS 38220000

Melting Point ..... - 6 °C
Boiling Point ..... 110 °C
Density ..... 1.004 kg/l
Liquid

WGK 1
Storage RT

273618 Buffer Solution pH 10.00 (20 °C) (blue colour)

Composition:
Boric Acid ..... 3.092 g
Potassium Chloride ..... 3.728 g
Sodium Hydroxide 50 % sol. w/w ..... 2.34 ml
Preservative 1 % ..... 5 ml
Preservative 1 % ..... 3 mg/l
Water (s.q.m) ..... 1 l
pH values depending on temperature

T (°C)	ApH
0	+0.26
5	+0.17
10	+0.11
15	+0.05
20	0
25	-0.06
30	-0.11
35	-0.16
40	-0.18
50	-0.26

Uncertainty ..... See certificate
Traceability ..... NIST
pH at 20 °C 9.95-10.05

Code	Packaging
273618.1211	1000 ml

Buffer Solution pH 11.00 (20 °C)

CS 38220000

Density ..... 1.006 kg/l
Liquid

WGK 1
Storage RT

272585 Buffer Solution pH 11.00 (20 °C)

Composition:
Boric Acid ..... 6.209 g
Sodium Hydroxide 50 % sol. w/w ..... 5.33 ml
Preservative 1 % ..... 5 ml
Water (s.q.m) ..... 1 l
pH values depending on temperature

T (°C)	ApH
0	+0.45
5	+0.32
10	+0.20
15	+0.10
20	0
25	-0.10
30	-0.19
35	-0.28
40	-0.36
50	-0.52

Uncertainty ..... See certificate
Traceability ..... NIST
pH at 20 °C 10.95-11.05

Code	Packaging
272585.1209	250 ml
272585.1211	1000 ml

Buffer Solution pH 12.00 (20 °C)

CS 38220000

Density ..... 1.004 kg/l
Liquid

WGK 1
Storage RT

272586 Buffer Solution pH 12.00 (20 °C)

Composition:
di-Sodium Hydrogen
Phosphate 12-hydrate ..... 8.955 g
Sodium Hydroxide 50 % sol. w/w ..... 1.19 ml
Preservative 1 % ..... 5 ml
Water (s.q.m) ..... 1 l
pH values depending on temperature

T (°C)	ApH
0	+0.58
5	+0.41
10	+0.26
15	+0.10
20	0
25	-0.12
30	-0.28
35	-0.33
40	-0.46
50	-0.67

Uncertainty ..... See certificate
Traceability ..... NIST
pH at 20 °C 11.95-12.05

Code	Packaging
272586.1209	250 ml
272586.1211	1000 ml

Buffer Solution pH 12.454

CS 38220000

Liquid

Storage RT

277089 Buffer Solution pH 12.454

These buffer solutions are useful for the calibration of high precision laboratory pH meters

* standardized, according to DIN19266

Specifications
pH (10 °C) ..... 12.810 ± 0.01
pH (20 °C) ..... 12.627 ± 0.01
pH (25 °C) ..... 12.454 ± 0.01
pH (30 °C) ..... 12.289 ± 0.01

Code	Packaging
277089.1209	250 ml

Buffer Solution pH 13.00 (20 °C)

CS 38220000

Density ..... 1.008 kg/l
Liquid

WGK 1
Storage RT

272587 Buffer Solution pH 13.00 (20 °C)

Composition:
Potassium Chloride ..... 3.728 g
Sodium Hydroxide 50 % sol. w/w ..... 2.51 ml
Preservative 1 % ..... 5 ml
Water (s.q.m) ..... 1 l
pH values depending on temperature

T (°C)	ApH
0	+0.80
5	+0.59
10	+0.37
15	+0.18
20	0
25	-0.17
30	-0.33
35	-0.41
40	-0.59
50	-0.85

Uncertainty ..... See certificate
Traceability ..... NIST
pH at 20 °C 12.95-13.05

Code	Packaging
272587.1211	1000 ml

HeBaPeaKTMB

1-Butane Sulfonic Acid Sodium Salt

Sodium 1-Butanesulphonate

$C_4H_9NaO_3S$
M = 160.16 g/mol
CAS 2386-54-1
EINECS 219-201-1
CS 29041000

Melting Point ..... > 300 °C
Solubility ..... Soluble in water.
Solid

WGK 3
Storage RT

365769 1-Butane Sulfonic Acid Sodium Salt for HPLC

for ion pair chromatography

Specifications
Minimum assay (Acidim.) (a.d.s.) ..... 99.0 %

Identity ..... IR passes test
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 200 nm ..... ≥ 70 %

Transmittance at 220 nm ..... ≥ 90 %
Transmittance at 250 nm ..... ≥ 98 %

Code	Packaging
365769.1606	25 g

Butanedioic Acid see Succinic Acid

1,4-Butanediol

1,4-Butyleneglycol, 1,4-Dihydroxybutane, Tetramethyleneglycol

$C_4H_{10}O_2$
M = 90.12 g/mol
CAS 110-63-4
EINECS 203-786-5
CS 29053925

Melting Point ..... 20.1 °C
Boiling Point ..... 235 °C
Density ..... 1.015 kg/l
Refractive Index n20/D 1.446
Liquid

WGK 1
Storage RT

Warning



H302

15A597 1,4-Butanediol, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test

Density 20/4 ..... 1.015-1.016
Water (H_2O) ..... 0.3 %

Code	Packaging
15A597.1212	2.5 l

Butanoic Acid see n-Butyric Acid

tert-Butanol see 2-Methyl-2-Propanol

1-Butanol

Butyl Alcohol

$CH_3(CH_2)_3OH$
M = 74.12 g/mol
CAS 71-36-3
EINECS 200-751-6
CS 29051300
Index Nr. 603-004-00-6

Melting Point ..... -90 °C
Boiling Point ..... 118 °C
Density ..... 0.810 kg/l
Solubility ..... water 77 g/l at 20 °C
Refractive Index n20/D 1.3993
Liquid

UN1120
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Danger



H226 H302 H315 H318 H336 H335

361082 1-Butanol for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 0.808-0.810

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0003 %

Water (H_2O) ..... 0.03 %
Suitability for IR spectrometry: ..... passes test
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 207 nm (Cut off) ..... ≥ 10 %
Transmittance at 210 nm ..... ≥ 25 %
Transmittance at 220 nm ..... ≥ 50 %
Transmittance at 230 nm ..... ≥ 75 %
Transmittance at 240 nm ..... ≥ 85 %
Transmittance at 250 nm ..... ≥ 94 %

Transmittance at 270-450 nm ..... ≥ 98 %
Data of interest in HPLC:
P' + 0.25 E 8.3
Rohrschneider Polarity 3.9
Eluotropic value e° (Al_2O_3) 0.7
Sol. H_2O in solv. at 20 °C 20.1
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361082.1611	1000 ml

131082 1-Butanol (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.808-0.810
Range of Boiling ..... 116-119 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0008 meq/g
Alkalinity ..... 0.0005 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %

Darkened substances by H_2SO_4 ... passes test
Carbonyl compounds (as C_3H_7CHO) ... 0.01 %
Acetone (G.C.) ..... 0.01 %
2-Butanol (G.C.) ..... 0.05 %
Butanal (G.C.) ..... 0.01 %
di-n-Butyl Ether (G.C.) ..... 0.1 %
Isobutanol (G.C.) ..... 0.15 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As 0.05
Al 0.5
Au 0.05
B 0.02
Be 0.02
Ca 0.5
Co 0.02
Cu 0.02
Ga 0.02
Hg 0.05
K 0.1
Mg 0.1
Ba 0.1
Bi 0.05
Cd 0.05
Cr 0.02
Fe 0.1
Ge 0.05
In 0.05
Li 0.05

Code	Packaging
131082.1611	1000 ml
131082.1612	2.5 l
131082.1214	5 l
131082.0619	200 l

141082 1-Butanol (USP-NF) pure, pharma grade

Specifications
Assay (G.C.) ..... 99.5 %
Identity ..... IR passes test

Maximum limit of impurities
Acidity ..... 0.0008 meq/g
Alkalinity ..... 0.001 meq/g
Non-volatile matter ..... 0.004 %

Residual solvents (Ph. Eur./USP) . passes test
Acetone (G.C.) ..... 0.02 %
Butanal (G.C.) ..... 0.03 %
di n-Butyl ether (G.C.) ..... 0.2 %
2-Butanol (G.C.) ..... 0.1 %
2-Methyl-1-Propanol (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.1 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141082.1211	1000 ml
141082.1212	2.5 l
141082.1214	5 l
141082.0716	25 l

161082 1-Butanol, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.808-0.810

Non-volatile matter ..... 0.002 %
Water (H_2O) ..... 0.1 %

Code	Packaging
161082.1211	1000 ml
161082.1714	5 l

HeBaPeaKTMB

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HeBaPeaKTMB

2-Butanol

2-Hydroxybutane, Methyl Ethyl Carbinol, sec-Butyl Alcohol

$C_4H_{10}O$
M = 74.12 g/mol
CAS 78-92-2
EINECS 201-158-5
CS 29051490
Index Nr. 603-127-00-5

Melting Point ..... -114.3 °C
Boiling Point ..... 99.5 °C
Density ..... 0.807 kg/l
Solubility ..... water 200 g/l
Refractive Index n20/D 1.3978
Liquid

UN1120
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Warning



H226 H319 H335 H336

123851 2-Butanol (Reag. Ph. Eur.) for analysis

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Density 20/4 ..... 0.805-0.809
Range of Distillation
(> 95 % dist.) ..... 99-100 °C

Maximum limit of impurities
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0007 meq/g
Non-volatile matter ..... 0.002 %

Darkened substances by H_2SO_4 ... passes test
Carbonyl compounds
(as C_3H_7CHO) ..... 0.015 %
2-Methyl-2-Propanol (G.C.) ..... 0.1 %
2-Propanol (G.C.) ..... 0.2 %
Butanone (G.C.) ..... 0.1 %
di-n-Butyl Ether (G.C.) ..... 0.2 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.05 Al 0.5

As ..... 0.05 Au 0.05
B ..... 0.02 Ba 0.1
Be ..... 0.02 Bi 0.05
Ca ..... 0.5 Cd 0.05
Co ..... 0.02 Cr 0.02
Cu ..... 0.02 Fe 0.1
Ga ..... 0.02 Ge 0.05
Hg ..... 0.05 In 0.05
K ..... 0.1 Li 0.05
Mg ..... 0.1 Mn 0.02
Mo ..... 0.02 Na 0.5

Code	Packaging
123851.1611	1000 ml
123851.1612	2.5 l
123851.3514	5 l

163851 2-Butanol, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test

Density 20/4 ..... 0.805-0.809
Non-volatile matter ..... 0.002 %
Water (H_2O) ..... 0.1 %

Code	Packaging
163851.1611	1000 ml

iso-Butanol see Isobutanol

2-Butanone

Ethyl Methyl Ketone, MEK, Methyl Ethyl Ketone

$CH_3COCH_2CH_3$
M = 72.11 g/mol
CAS 78-93-3
EINECS 201-159-0
CS 29141200
Index Nr. 606-002-00-3

Melting Point ..... -86 °C
Boiling Point ..... 79.6 °C
Density ..... 0.806 kg/l
Solubility ..... water 290 g/l at 20 °C
Refractive Index n20/D 1.379
Liquid

UN1193
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H319 EUH066 H336

361429 Butanone (Methylethylketone) for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 99.7 %
Density 20/4 ..... 0.804-0.806

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %

Water (H_2O) ..... 0.1 %
Suitability for IR spectrometry: ..... passes test
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 329 nm (Cut off) ..... ≥ 10 %
Transmittance at 330 nm ..... ≥ 20 %
Transmittance at 340 nm ..... ≥ 80 %
Transmittance at 350-450 nm ..... ≥ 98 %

Data of interest in HPLC:
P' + 0.25 E 9.1
Rohrschneider Polarity 4.7
Eluotropic value e° (Al_2O_3) 0.51
Sol. H_2O in solv. at 20 °C 23.4
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361429.1612	2.5 l

131429 Butanone (Methylethylketone) (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/20 ..... 0.805-0.807
Range of Boiling ..... 79.0-81.0 °C

Maximum limit of impurities
APHA colour 15
Acidity ..... 0.0005 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %

Acetone (G.C.) ..... 0.05 %
2-Butanol (G.C.) ..... 0.02 %
2-Methyl-2-Propanol (G.C.) ..... 0.1 %
2-Propanol (G.C.) ..... 0.1 %
Mesityl oxide (G.C.) ..... 0.05 %
Methanol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.05 Al 0.5
As ..... 0.05 Au 0.05

B ..... 0.02 Ba 0.1
Be ..... 0.02 Bi 0.05
Ca ..... 0.5 Cd 0.05
Co ..... 0.02 Cr 0.02
Cu ..... 0.02 Fe 0.1
Ga ..... 0.02 Ge 0.05
Hg ..... 0.05 In 0.05
K ..... 0.1 Li 0.05
Mg ..... 0.1 Mn 0.02
Mo 0.02

Code	Packaging
131429.1611	1000 ml
131429.1612	2.5 l
131429.1214	5 l

141429 Butanone (Methylethylketone) pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.804-0.808
Acidity ..... 0.0015 meq/g
Non-volatile matter ..... 0.01 %
Acetone (G.C.) ..... 0.1 %

2-Butanol (G.C.) ..... 0.1 %
2-Methyl-2-Propanol (G.C.) ..... 0.2 %
Water (H_2O) ..... 0.3 %
As ..... 0.0002 %
Ca ..... 0.02 %
Cu ..... 0.00002 %
Fe ..... 0.00002 %

Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141429.1211	1000 ml
141429.1212	2.5 l
141429.1214	5 l
141429.0716	25 l

161429 Butanone, 99.5 % (Methylethylketone) for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.804-0.808

Non-volatile matter ..... 0.002 %
Water (H_2O) ..... 0.2 %

Code	Packaging
161429.1211	1000 ml
161429.1714	5 l
161429.0616	25 l

trans-Butenedioic Acid see Fumaric Acid

cis-Butenedioic Acid see Maleic Acid

3-Butenylglucosinolate Potassium Salt see Gluconapin

HeBaPeaKTMB

n-Butyl Acetate

Acetic Acid Butyl Ester

$CH_3COOC_4H_9$
M = 116.16 g/mol
CAS 123-86-4
EINECS 204-658-1
CS 29153300
Index Nr. 607-025-00-1

Melting Point ..... -77.9 °C
Boiling Point ..... 126.5 °C
Density ..... 0.883 kg/l
Solubility ..... water 23 g/l at 20 °C
Refractive Index n20/D 1.3941
Liquid

UN1123
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Warning



H226 EUH066 H336

131202 n-Butyl Acetate (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.880-0.882
Range of Distillation
(> 95 % dist.) ..... 123-126 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0016 meq/g
Non-volatile matter ..... 0.001 %

Darkened substances by H_2SO_4 ... passes test
1-Butanol (G.C.) ..... 0.2 %
Isobutyl Acetate (G.C.) ..... 0.2 %
n-Butyl Formate (G.C.) ..... 0.05 %
n-Butyl Propionate (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As 0.05
B 0.02
Al 0.5
Au 0.05
Ba 0.1
Be 0.02
Ca 0.2
Co 0.02
Cu 0.02
Ga 0.02
Hg 0.05
K 0.1
Mg 0.02
Mo 0.02
Ni 0.02
Bi 0.05
Cd 0.05
Cr 0.02
Fe 0.1
Ge 0.05
In 0.05
Li 0.05
Mn 0.02
Na 0.2

Code	Packaging
131202.1611	1000 ml
131202.1214	5 l
131202.0616	25 l
131202.0619	200 l

141202 n-Butyl Acetate pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.880-0.885
Acidity ..... 0.0032 meq/g

Non-volatile matter ..... 0.005 %
1-Butanol (G.C.) ..... 1.0 %
Isobutyl Acetate (G.C.) ..... 0.5 %
Water (H_2O) ..... 0.3 %
Cu ..... 0.00002 %

Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141202.1611	1000 ml
141202.0715	10 l

n-Butyl Alcohol see 1-Butanol

sec.-Butyl Alcohol see 2-Butanol

tert-Butyl Alcohol see 2-Methyl-2-Propanol

iso-Butyl Alcohol see Isobutanol

Butyl Chloride see 1-Chlorobutane

tert.-Butyl Methyl Ether

1,1-Dimethyl Ethyl Methyl Ether, Methyl tert.-butyl Ether, 2-Methoxy-2-Methylpropane, MTBE

$C_5H_{12}O$
M = 88.15 g/mol
CAS 1634-04-4
EINECS 216-653-1
CS 29091990
Index Nr. 603-181-00-X

Melting Point ..... -108.6 °C
Boiling Point ..... 55.3 °C (1013 hPa)
Density ..... 0.74 g/cm³ (20 °C)
Solubility ..... 26 g/L (H_2O)
Liquid

UN2398
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H315

363312 tert-Butyl Methyl Ether for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 0.739-0.742

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g

Non-volatile matter ..... 0.0003 %
Water (H_2O) ..... 0.03 %
Suitability for IR spectrometry: ..... passes test
Fluorescence at 254 nm (as quinine) ..... 2 ppb
Fluorescence at 365 nm (as quinine) ..... 2 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 208 nm (Cut off) ..... ≥ 10 %
Transmittance at 210 nm ..... ≥ 20 %

Transmittance at 235 nm ..... ≥ 50 %
Transmittance at 240 nm ..... ≥ 60 %
Transmittance at 255 nm ..... ≥ 85 %
Transmittance at 280-400 nm ..... ≥ 98 %
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
363312.1611	1000 ml
363312.1612	2.5 l

133312 tert-Butyl Methyl Ether (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 0.739-0.742
Refractive Index n20/D 1.368-1.370

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.001 %

Peroxides (as H_2O2) ..... 0.0001 %*
2-Methyl-2-Propanol (G.C.) ..... 0.05 %
Aldehydes (as HCHO) ..... 0.001 %
Methanol (G.C.) ..... 0.01 %
Water (H_2O) ..... 0.03 %
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 240 nm ..... ≥ 50 %
Transmittance at 255 nm ..... ≥ 80 %
Transmittance at 280 nm ..... ≥ 98 %
Al ..... 0.0005 %
Ca ..... 0.00005 %

Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.000002 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %
* At the moment of the batch analysis.

Code	Packaging
133312.1611	1000 ml
133312.1612	2.5 l

143312 tert-Butyl Methyl Ether pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.737-0.742
Acidity ..... 0.002 meq/g
Non-volatile matter ..... 0.005 %
Water (H_2O) ..... 0.05 %

Cu ..... 0.00002 %
Fe ..... 0.00002 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
143312.1611	1000 ml
143312.1612	2.5 l
143312.3514	5 l
143312.3515	10 l

163312 tert-Butyl Methyl Ether, 99.5 % for synthesis

Specifications
Assay (G.C.) ..... 99.5 %
Identity ..... IR passes test

Density 20/4 ..... 0.739-0.742
Non-volatile matter ..... 0.001 %
Water (H_2O) ..... 0.05 %

Code	Packaging
163312.1612	2.5 l

213312 tert.-Butyl Methyl Ether technical grade

Specifications
Assay (G.C.) ..... min. 99 %
Water (K.F.) ..... max. 0.05 %

Code	Packaging
213312.0616	25 L
213312.3516	25 L

Di-n-Butyl Phthalat

DBP, n-Butyl Phthalate, Phthalic Acid Dibutyl Esther

$(C_4H_9OOC)_2C_6H_4$
M = 278.35 g/mol
CAS 84-74-2
EINECS 201-557-4
CS 29173400
Index Nr. 607-318-00-4

Melting Point ..... -35 °C
Boiling Point ..... 340 °C
Density ..... 1.047 kg/l
Solubility ..... water 0.4 g/l at 20 °C
Refractive Index n20/D 1.492
Liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 3
Storage RT

Danger



H360Df H400

141937 Di-n-Butyl Phthalate pure

Specifications
Assay (G.C.) ..... 98 %
Identity ..... IR passes test
Density 20/20 ..... 1.045-1.048
Acidity (as $C_8H_6O_2$) ..... 0.02 %
Residue on ignition (as SO_4) ..... 0.01 %
1-Butanol (G.C.) ..... 0.2 %
Water (H_2O) ..... 0.2 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141937.0716	25 l

Di-n-Butylamine

Dibutylamine

$(C_4H_9)_2NH$
M = 129.25 g/mol
CAS 111-92-2
EINECS 203-921-8
CS 29211985
Index Nr. 612-049-00-0

Melting Point ..... -51 °C
Boiling Point ..... 161 °C
Density ..... 0.759 kg/l
Solubility ..... water 50 g/l at 20 °C
Refractive Index n20/D 1.4168
Liquid

UN2248
Class/PG 8(3)/II
ADR 8(3)/II · IMDG 8(3)/II · IATA 8(3)/II
WGK 3
Storage RT

Warning



H226 H332 H312 H302

15A777 Di-n-Butylamine, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.758-0.760
Water (H_2O) ..... 0.2 %

Code	Packaging
15A777.1611	1000 ml

n-Butylcarbinol see 1-Pentanol

1,4-Butyleneglycol see 1,4-Butanediol

Butylhydroxylanisole

3-tert-Butyl-4-Hydroxyanisol, BHA, Butyl Hydroxyanisol

$C_{11}H_{16}O_2$
M = 180.25 g/mol
CAS 25013-16-5
EINECS 246-563-8
CS 29095000

Melting Point ..... 50 °C
Boiling Point ..... 236 °C
Solubility ..... Insoluble in water
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage away from direct light.

Danger



H318 H411

144233 Butylhydroxylanisole (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Minimum assay (as $C_{11}H_{16}O_2$) ..... 98.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in C_2H_6O ..... passes test
Residue on ignition (as SO_4) ..... 0.01 %
Related substances ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
3-tert-Butyl-4-Methoxyphenol ..... 10 %
Hydroquinone ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0003 %

Code	Packaging
144233.1211	1000 g
144233.0914	5 kg
144233.0416	25 kg

Butylhydroxytoluene

3,5-Di-tert-butyl-4-Hydroxytoluene, Ionol, 2,6-Di-tert-Butyl-p-Cresol, 2,6-Di-tert.-Butyl-4-Methylphenol, DBPC, BHT

$C_{15}H_{24}O$
M = 220.36 g/mol
CAS 128-37-0
EINECS 204-881-4
CS 29071990

Melting Point ..... 69-71 °C
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
Storage RT

Warning



H410

632825 Butylhydroxytoluene (Ph. Eur., BP, USP-NF) GMP - IPEC grade

Specifications
Minimum assay ..... 99.0 %
Identity according to Pharmacopoeias:
(A Ph. Eur) ..... passes test
(B Ph. Eur) ..... passes test
(C Ph. Eur / USP) ..... IR passes test
Freezing point ..... 69.2-70 °C

Maximum limit of impurities
Appearance of solution
Appearance Clear < formazin I ..... passes test
Appearance Colour ..... < Y5 or BY5
Residue on ignition (as SO_4) ..... 0.002 %
Related substances (T.L.C.) ..... 0.5 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
632825.0914	5 kg

142825 Butylhydroxytoluene (BP, Ph. Eur.) pure, pharma grade

Specifications
Minimum assay (as $C_{15}H_{24}O$) ..... 99.0 %
Identity according to
Pharmacopoeias: ..... passes test
Range of Freezing ..... 69.2-70 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in CH_3OH ..... passes test
Residue on ignition (as SO_4) ..... 0.002 %
Related substances ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0003 %
Pb ..... 0.0005 %

Code	Packaging
142825.1211	1000 g
142825.0416	25 kg

202825 Butylhydroxytoluene (E-321, F.C.C.) food grade

Specifications
Assay (as $C_{15}H_{24}O$), not less than ..... 99.0 %
Absorbance 278 nm (ethanol) 81-88
Melting Range ..... 69.2-70 °C
Residue on ignition, not more than .... 0.002 %
Phenolic impurities, not more than ..... 0.5 %
Arsenic (As), not more than ..... 3 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Heavy metals (as Pb),
not more than ..... 10 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
202825.1211	1000 g
202825.0416	25 kg

HebaPeakTMB

A3777 Butylhydroxytoluene

Specifications
Assay (G.C.) .....min. 99 %
Solubility (10 %; MeOH) .....clear, colorless

Code	Packaging
A3777,0100	100 g

n-Butyric Acid

Butanoic Acid, Ethylacetic Acid

$C_4H_8O_2$
M = 88.11 g/mol
CAS 107-92-6
EINECS 203-532-3
CS 29156019
Index Nr. 607-135-00-X

Melting Point .....-4.5 °C
Boiling Point .....165.5 °C
Density .....0.957 kg/l
Refractive Index n20/D 1.398
Liquid

UN2820
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314

15A689 n-Butyric Acid, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity .....IR passes test
Density 20/4 .....0.956-0.958
Water (H_2O) .....0.2 %

Code	Packaging
15A689.1611	1000 ml
15A689.0716	25 l

gamma-Butyrolactone

4-Hydroxybutiric Acid Lactone, BLO

$C_4H_6O_2$
M = 86.09 g/mol
CAS 96-48-0
EINECS 202-509-5
CS 29322020

Melting Point .....-44 °C
Boiling Point ..... 205 °C
Density .....1.129 kg/l
Refractive Index n20/D 1.4355
Liquid

WGK 1
Storage RT

Warning



H302 H319

15A581 gamma-Butyrolactone, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 .....1.128-1.129

Code	Packaging
15A581.0716	25 l

C-reactive Protein (CRP), human

Origin from human pleural fluid
CS 30021091

Storage 2-8 °C

A6939 C-reactive Protein (CRP), human

0.2 µm filtered

supplied Liquid in 50 mM Tris, pH 8.0, 250 mM NaCl, 0.1 % sodium azide

Specifications
Assay (SDS-PAGE) .....min. 98 %
Concentration .....min. 1 mg/ml

Code	Packaging
A6939,0001	1 mg

C.I. Basic Blue 9 see Methylene Blue (C.I. 52015)

Cacodylic Acid Sodium Salt 3-hydrate

Dimethylarsinic Acid Sodium Salt

$C_2H_6AsNaO_2 \cdot 3H_2O$
M = 214.03 g/mol
CAS 6131-99-3
EINECS 204-708-2
CS 29310099
Index Nr. 033-002-00-5

Melting Point ..... 60 °C
Solubility ..... 2000 g/L (H_2O)
Solid

UN1688
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H301+H331 H410

A2140 Cacodylic Acid Sodium Salt 3-hydrate BioChemica

Specifications
Assay (titr.) .....min. 98 %
Solubility (10 %; H_2O) .....clear, colorless
Chloride ..... max. 0.002 %
Sulfate ..... max. 0.002 %
Cd .....max. 0.005 %
Cu .....max. 0.005 %
Fe .....max. 0.005 %
Pb .....max. 0.005 %
Zn .....max. 0.005 %

Code	Packaging
A2140,0100	100 g
A2140,0250	250 g
A2140,5000	5 kg

Cadmium Acetate 2-hydrate

$Cd(CH_3COO)_2 \cdot 2H_2O$
M = 266.52 g/mol
CAS 5743-04-4
EINECS 208-853-2
CS 29152900
Index Nr. 048-001-00-5

Melting Point ..... 255 °C
Solubility ..... water 2,150 g/l at 20 °C
Solid

UN2570
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Warning



H332 H312 H302 H410

121203 Cadmium Acetate 2-hydrate (Reag. USP) for analysis

Specifications
Minimum assay (Compl.) ..... 99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) .....0.002 %
Sulfate (SO_4) .....0.005 %
Non-precipitated substances by H_2S (as SO_4) .....0.1 %
Ca .....0.005 %
Cu .....0.001 %
Fe ..... 0.0005 %
K ..... 0.002 %
Na ..... 0.002 %
Pb ..... 0.003 %
Zn ..... 0.002 %

Code	Packaging
121203.1211	1000 g

Cadmium Iodide

CdI_2
M = 366.212 g/mol
CAS 7790-80-9
EINECS 232-223-6
CS 28276000
Index Nr. 048-007-00-8

Melting Point ..... 387 °C
Boiling Point ..... 796 °C
Solubility ..... water 798 g/l at 20 °C
Solid

UN2570
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H331 H301 H373 H341 H410

121209 Cadmium Iodide for analysis

Specifications
Minimum assay (Compl.) .....99.0 %
pH of 5 % solution .....≥ 5.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Insoluble matter in NH_4OH ..... passes test
Sulfate (SO_4) ..... 0.005 %

Chloride and bromide (as Cl) ..... 0.01 %
Iodate (IO_3) ..... 0.0006 %
Ca ..... 0.005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.001 %
K ..... 0.002 %

Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.002 %
Ni ..... 0.0005 %
Pb ..... 0.002 %
Zn ..... 0.005 %

Code	Packaging
121209.1209	250 g
121209.1214	5 kg

Cadmium Sulfate 8/3-hydrate

$CdSO_4 \cdot 8/3H_2O$
M = 256.52 g/mol
CAS 7790-84-3
EINECS 233-331-6
CS 28332920
Index Nr. 048-009-00-9

Melting Point ..... 41 °C
Solubility ..... water 1,130 g/l at 20 °C
Solid

UN2570
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H350 H340 H360F H301 H330 H372 H410

131208 Cadmium Sulfate 8/3-hydrate for analysis, ACS

Specifications
Assay (Compl.) ..... 99.0-102.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Nitrate and nitrite (as NO_3) ..... 0.003 %

As ..... 0.0002 %
Ca ..... 0.005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.002 %

Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.002 %
Zn ..... 0.005 %

Code	Packaging
131208.1209	250 g

Caffeine anhydrous

1,3,7-Trimethylxantine, 3,7-Dihydro-1,3,7-Trimethyl-1H-Purin-2,6-Dione, 7-Methyltheobromine

$C_8H_{10}N_4O_2$
M = 194.19 g/mol
CAS 58-08-2
EINECS 200-362-1
CS 29393000
Index Nr. 613-086-00-5

Melting Point ..... 238 °C
Solubility ..... water 22 g/l at 20 °C
Solid

UN1544
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage RT

Warning



H302

142833 Caffeine anhydrous (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Perchl. Ac.)
calc. a.d.s. ..... 98.5-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
Melting range (a.d.s.) ..... 234-239 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity ..... passes test

Insoluble matter in H_2O ..... passes test
Loss on drying ..... 0.5 %
Residue on ignition (as SO_4) ..... 0.1 %
Sulfate (SO_4) ..... 0.05 %
Related Substances (HPLC)
Individual impurity ..... 0.10 %
Total impurities ..... 0.1 %
Chromatographic purity ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.001 %

As ..... 0.0003 %
Cu ..... 0.001 %
Fe ..... 0.002 %
Ni ..... 0.001 %
Pb ..... 0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): Nickel compounds as metal catalyst (class 1C classification) can be present. It is 0,2 ppm or less. It is fully in compliance with the EMEA guideline.

Code	Packaging
142833.1608	100 g
142833.1609	250 g
142833.1211	1000 g
142833.0914	5 kg
142833.0716	25 kg

2-Caffeoyltartaric Acid see Caftaric Acid

3-Caffeylquinic acid see Chlorogenic Acid

Caftaric Acid

2-Caffeoyltartaric Acid

Origin from *Echinacea pallida*

$C_{13}H_{12}O_9$
M = 312.24 g/mol
CAS 67879-58-7
CS 29420000

Solid

Storage 2-8 °C

A6747 Caftaric Acid for HPLC

Specifications
Assay .....min. 98 %

Code	Packaging
A6747,0010	10 mg

Calcein

bis-[N,N-bis-(Carboximethyl)Aminomethyl] Fluorescein, Fluorescein Complexone, Fluorexone

$C_{30}H_{26}N_2O_{13}$
M = 622.54 g/mol
CAS 1461-15-0
EINECS 215-957-1
CS 32041600

Melting Point ..... 300 °C
Solubility ..... water 4 g/l
Solubility ..... alcohol 0.6 g/l
Solid

WGK 3
Storage RT

122053 Calcein for analysis

[illegible]plexometry
Spec[illegible]s
Identity .....IR passes test
A 1 %, 1 cm .....> 650

λ_{max} ABS in
NaOH 0.002 mol/l ..... 492-500 nm
Suitability: as complexometric
indicator. ..... passes test
T.L.C. ..... passes test

Maximum limit of impurities
Insoluble matter in NaOH .....passes test
Loss on drying at 135 °C .....15 %

Code	Packaging
122053.1604	5 g

НеваРеактив

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Calciferol see Vitamin D2

Calcium Acetate x-hydrate

Acetic Acid Calcium Salt Hydrate

$Ca(CH_3COO)_2 \cdot xH_2O$
M = 158.17 g/mol · xH_2O
CAS 62-54-4
EINECS 200-540-9
CS 29152900

Solubility ..... 1330 g/L (H_2O)
Solid

WGK 1
Storage RT

141211 Calcium Acetate x-hydrate (USP) pure, pharma grade

Specifications
Assay (Compl.) (calc. a.a.s) ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 6.3-9.6

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.1 %
Easily oxidable substances ..... passes test
Chloride (Cl) ..... 0.05 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.06 %
Residual solvents (Ph. Eur./USP) . passes test
Fluoride (F) ..... 0.005 %
Nitrate (NO_3) ..... passes test
Water (H_2O) ..... 7.0 %
Heavy metals (as Pb) ..... 0.002 %
Al ..... 0.001 %
As ..... 0.0002 %
Ba ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.005 %
Mg ..... 0.05 %
Ni ..... 0.001 %
Pb ..... 0.001 %
Sr ..... 0.05 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141211.1211	1000 g
141211.0416	25 kg

171211 Calcium Acetate x-hydrate for soil testing

Specifications
Assay (complexometr.) ..... 93-96 %
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
pH (5 %; H_2O; 25 °C) 7.2-8.0
Total P ..... max. 0.002 %
Chloride ..... max. 0.01 %
Fluoride ..... max. 0.005 %
Sulfate ..... max. 0.05 %
K ..... max. 0.02 %
Na ..... max. 0.02 %

Code	Packaging
171211.0415	10 kg

Calcium Carbonate precipitated

$CaCO_3$
M = 100.09 g/mol
CAS 471-34-1
EINECS 207-439-9
CS 28365000

Melting Point ..... 825 °C
Solubility ..... Very slightly soluble in water.
Solid

WGK nwg
Storage RT

121212 Calcium Carbonate precipitated for analysis

Specifications
Minimum assay (Compl.) (a.d.s.) ..... 99.0 %

Maximum limit of impurities
Insoluble matter in HCl ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Ammonium (NH_4) ..... 0.01 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.02 %
Ba ..... 0.01 %
Cu ..... 0.0005 %
Fe ..... 0.002 %
K ..... 0.02 %
Mg ..... 0.05 %
Mn ..... 0.0005 %
Na ..... 0.3 %
Ni ..... 0.0005 %
Sr ..... 0.05 %

Code	Packaging
121212.1210	500 g
121212.1211	1000 g
121212.0914	5 kg

141212 Calcium Carbonate precipitated (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) calc. a.d.s. ..... 98.5-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Insoluble matter in acid ..... 0.2 %
Loss on drying at 200 °C ..... 2.0 %
Chloride (Cl) ..... 0.033 %
Sulfate (SO_4) ..... 0.25 %
Residual solvents (Ph. Eur./USP) . passes test
Fluoride (F) ..... 0.005 %
Magnesium and alkali salts ..... 1.0 %
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
As ..... 0.00015 %
Ba ..... passes test
Cd ..... 0.00005 %
Fe ..... 0.02 %
Hg ..... 0.00005 %
Pb ..... 0.00005 %

Code	Packaging
141212.1210	500 g
141212.1211	1000 g
141212.0914	5 kg
141212.0416	25 kg

201212 Calcium Carbonate precipitated (E-170i, F.C.C.) food grade

Specifications
Assay (as $CaCO_3$)
after drying ..... 98.0-100.5 %
Identity
Carbonate ..... passes test
Calcium ..... passes test
Appearance ..... passes test
Insoluble substances in acid,
not more than ..... 0.2 %
Loss on drying, not more than ..... 2.0 %
Antimony, Copper, Chromium, Zinc and Barium each one or together, not more than ..... 0.01 %
Fluoride, not more than ..... 0.005 %
Magnesium and alkali salts, not more than ..... 1.0 %
Arsenic (as As), not more than ..... 3 ppm
Cadmium, not more than ..... 1 ppm
Lead, not more than ..... 3 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201212.0416	25 kg

Calcium Chloride granulated

Desiccant, Chlorcalcium

$CaCl_2$
M = 110.99 g/mol
CAS 10043-52-4
EINECS 233-140-8
CS 28272000
Index Nr. 017-013-00-2

Melting Point ..... 772 °C
Solubility ..... 740 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H319

141221 Calcium Chloride granulated, pure

Specifications
Assay (titr.) ..... min. 97 %

Code	Packaging
141221.1211	1 kg

211221 Calcium Chloride anhydrous technical grade

Specifications
Assay (as $CaCl_2$) (Compl.)
(calc. a.a.s) ..... 95 %

Code	Packaging
211221.1210	500 g
211221.1211	1000 g
211221.0415	10 Kg

Calcium Chloride dried, powdered

Chlorcalcium

$CaCl_2$
M = 110.99 g/mol
CAS 10043-52-4
EINECS 233-140-8
CS 28272000
Index Nr. 017-013-00-2

Melting Point ..... 772 °C
Solubility ..... 740 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H319

147120 Calcium Chloride dried, powdered pure

Specifications
Assay (titr.) .....min. 97 %
Free alkalines .....max. 0.2 %

Code	Packaging
147120.1211	1 kg
147120.0914	5 kg

A3652 Calcium Chloride dried, powdered BioChemica

Specifications
Assay (titr.) .....min. 97 %

Code	Packaging
A3652,1000	1 kg
A3652,9025BW	25 kg

Calcium Chloride 2-hydrate

$CaCl_2 \cdot 2H_2O$
M = 147.02 g/mol
CAS 10035-04-8
EINECS 233-140-8
CS 28272000
Index Nr. 017-013-00-2

Melting Point ..... 175 °C
Solubility ..... 1000 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H319

131232 Calcium Chloride 2-hydrate powder for analysis, ACS

Specifications
Assay (Compl.) ..... 99.0-105.0 %
pH of 5 % solution 4.5-8.5

Maximum limit of impurities
Insoluble matter in H_2O .....0.01 %
Ammonium (NH_4) ..... 0.005 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.01 %
Oxidizing substances ..... 0.003 %
As ..... 0.0001 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Al 10
Ba 50
Bi 5
Cd.....5
Co 5
Cr..... 5
Cu 5
Fe..... 10
K..... 100
Li..... 5
Mg..... 50
Mn..... 5
Mo..... 5
Na 200
Ni..... 5
Pb 5
Sr 100
Tl..... 5
Zn..... 10

Code	Packaging
131232.1210	500 g
131232.1211	1000 g
131232.1214	5 kg
131232.0416	25 kg

631232 Calcium Chloride 2-hydrate (Ph. Eur., BP, USP) GMP - IPEC grade

Specifications
Assay (Compl.) ..... 99.0-103.0 %
Identity according to Pharmacopoeias:
Chloride ..... passes test
Calcium ..... passes test
pH of 5 % solution 4.5-9.2

Maximum limit of impurities
Appearance of solution
Appearance Clear < formazin I ..... passes test
Appearance Colour .....< Y6
Acidity or alkalinity
(< 0.2 ml HCl or NaOH 0.01N) ..... passes test
Sulfate (SO_4) ..... 0.0300 %
Residual solvents (Ph. Eur./USP) . passes test
Iron, Aluminium ans Phosphate .... passes test
Magnesium and alcaline salts .....0.5 %
Heavy metals (as Pb) .....0.001 %
Al .....passes test
Ba .....passes test
Fe .....0.0010 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
631232.0914	5 kg

191232 Calcium Chloride 2-hydrate powder (USP, BP, Ph. Eur.) pharma grade

Specifications
Assay (as $CaCl_2 \cdot 2H_2O$)
(Compl.) ..... 99.0-103.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 4.5-9.2

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Sulfate (SO_4) ..... 0.03 %
Residual solvents (Ph. Eur./USP) . passes test
Iron, Aluminium and Phosphate .... passes test
Magnesium and alkali salts ..... 0.5 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1,300 ppm
Al .....0.0001 %
As ..... 0.00015 %
Ba .....passes test
Cd ..... 0.00005 %
Fe .....0.001 %
Hg ..... 0.00015 %
Pb ..... 0.00005 %

Code	Packaging
191232.1214	5 kg
191232.0416	25 kg

141232 Calcium Chloride 2-hydrate powder pure

Specifications
Assay (Compl.) ..... 99-105 %
Acidity (as HCl) ..... 0.005 %
Insoluble matter in H_2O .....0.05 %
Ammonium (NH_4) .....0.01 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.05 %
As ..... 0.0001 %
Cu ..... 0.002 %
Fe ..... 0.005 %
Ni .....0.002 %
Pb .....0.002 %

Code	Packaging
141232.1210	500 g
141232.1211	1000 g
141232.1214	5 kg

201232 Calcium Chloride 2-hydrate powder (E-509, F.C.C.) food grade

Specifications
Assay (as $CaCl_2 \cdot 2H_2O$) ..... 99.0-107.0 %
Identity (Calcium) ..... passes test
(Chloride) ..... passes test
Appearance ..... passes test
Insoluble substances in acid
(salt anhydrous), not more than ..... 0.02 %
Fluoride, not more than ..... 0.004 %
Magnesium and alkali salts,
not more than ..... 4.0 %
Arsenic (as As), not more than ..... 3 ppm
Mercury, not more than .....1 ppm
Lead, not more than .....2 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201232.0416	25 kg

A4689 Calcium Chloride 2-hydrate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) .....min. 99.5 %
Fluoride .....max. 0.005 %
Sulfate .....max. 0.005 %
Al .....max. 0.0001 %
As .....max. 0.0001 %
Cu .....max. 0.0005 %
Fe .....max. 0.001 %
Pb .....max. 0.0005 %
Zn .....max. 0.0005 %

Code	Packaging
A4689,0250	250 g

A1873 Calcium Chloride 2-hydrate BioChemica

Specifications
Assay .....min. 99.5 %
Heavy metals (as Pb) .....max. 0,001 %
Insoluble matter .....passes test
pH (5 %; H_2O; 25 °C) 4.5-8.0
Sulfate .....max. 0.005 %
A (1 cm/1 M in H_2O)
260 nm .....max. 0.015
280 nm .....max. 0.01

Code	Packaging
A1873,1000	1 kg

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Calcium Chloride 2-hydrate flakes

$CaCl_2 \cdot 2H_2O$
M = 147.02 g/mol
CAS 10035-04-8
EINECS 233-140-8
CS 28272000
Index Nr. 017-013-00-2

Melting Point ..... 175 °C
Solubility ..... water 1,000 g/l at 1 °C
Solid

WGK 1
Storage RT

Warning



H319

204954 Calcium Chloride 2-hydrate flakes (E-509, F.C.C.) food grade

Specifications
Assay (as $CaCl_2 \cdot 2H_2O$) ..... 99.0-107.0 %
Insoluble substances in acid (salt anhydrous), not more than ..... 0.02 %
Fluoride, not more than ..... 0.004 %
Magnesium and alkali salts, not more than ..... 4.0 %
Arsenic (as As), not more than ..... 3 ppm
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 2 ppm

Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
204954.0416	25 kg

Calcium Chloride 6-hydrate

$CaCl_2 \cdot 6H_2O$
M = 219.09 g/mol
CAS 7774-34-7
EINECS 233-140-8
CS 28272000
Index Nr. 017-013-00-2

Melting Point ..... 30 °C
Solubility ..... 5360 g/L (H_2O)
Solid

WGK 1
Storage 2-8 °C

Warning



H319

121214 Calcium Chloride 6-hydrate for analysis

Specifications
Minimum assay (Compl.) ..... 98.0 %
pH of 5 % solution 4.5-8.5

Maximum limit of impurities
Insoluble matter in H_2O and precip. by NH_4OH ..... 0.01 %
Ammonium (NH_4) ..... 0.005 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.01 %
Oxidizing substances ..... 0.003 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.0001 %
Ba ..... 0.005 %
Cu ..... 0.0005 %
Fe ..... 0.0025 %
Mg ..... 0.005 %
Mn ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Sr ..... 0.01 %
Zn ..... 0.001 %

Code	Packaging
121214.1214	5 kg
121214.0416	25 kg

191214 Calcium Chloride 6-hydrate (Ph. Eur.) pharma grade

Specifications
Assay (complexometr.) ..... 97.0-103.0 %
Acidic/alkaline react. subst. ..... passes test
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.0015 %
Identity ..... passes test
Sulfate ..... max. 0.02 %
Al ..... passes test
Ba ..... passes test
Fe ..... max. 0.0007 %
Mg, Alkali metals ..... max. 0.3 %

Code	Packaging
191214.1211	1 kg
191214.0416	25 kg

141214 Calcium Chloride 6-hydrate pure

Specifications
Assay (Compl.) ..... 98 %
Acidity (as HCl) ..... 0.025 %
Alkalinity ..... 0.03 %
Insoluble matter in H_2O and precip. by NH_4OH ..... 0.025 %
Ammonium (NH_4) ..... 0.01 %
Phosphate (PO_4) ..... 0.003 %
Sulfate (SO_4) ..... 0.05 %
As ..... 0.0001 %
Cu ..... 0.002 %
Fe ..... 0.005 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141214.1211	1000 g
141214.0416	25 kg

Calcium Chloride 1 mol/l (1 M)

CS 38220000
Index Nr. 017-013-00-2

Liquid

WGK 1
Storage RT

Warning



H319

A3779 Calcium Chloride 1 mol/l (1 M) BioChemica

Composition:
$CaCl_2 \cdot 2H_2O$ (A1873) ..... 147.02 g/L

Code	Packaging
A3779,1000	1 L

Calcium Citrate see tri-Calcium di-Citrate 4-hydrate

tri-Calcium di-Citrate 4-hydrate

2-Hydroxy-1,2,3-Propanetricarboxilic Acid Calcium Salt (2:3), Calcium Citrate, Citric Acid tri-Calcium Salt

$Ca_3(C_6H_5O_7)_2 \cdot 4H_2O$
M = 570.51 g/mol
CAS 5785-44-4
EINECS 212-391-7
CS 29181500

Solubility ..... water 1 g/l at 20 °C
Solid

WGK 1
Storage RT

201213 tri-Calcium di-Citrate 4-hydrate (E-333iii, F.C.C.) food grade

Specifications
Assay (as $C_{12}H_{10}Ca_3O_{14}$) after drying ..... 97.5-100.5 %
Identity
Citrate ..... passes test
Calcium ..... passes test
Appearance ..... passes test
Loss on drying ..... 10.0-14.0 %
Carbonate ..... passes test
Fluoride, not more than ..... 0.003 %
Oxalate (as oxalic acid) a.a.s., not more than ..... 0.01 %
Arsenic (as As), not more than ..... 1 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 1 ppm
Aluminium, not more than ..... 30 ppm
Heavy metals (as Pb), not more than ..... 5 ppm

Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201213.0416	25 kg

HeBaPeakTMB

Calcium Gluconate 1-hydrate

D-Gluconic Acid Calcium Salt 1-hydrate

$C_{12}H_{22}CaO_{14} \cdot H_2O$
M = 448.40 g/mol
CAS 66905-23-5
EINECS 206-075-8
CS 29181600

Melting Point ..... 178 °C
Solubility ..... 30 g/L (H_2O)
Solid

WGK 1
Storage RT

143290 Calcium Gluconate 1-hydrate (Ph. Eur., USP) pure, pharma grade

Specifications
Assay (titr.) ..... 98.5-102.0 %
Appearance of solution ..... passes test
Colony count
(yeasts & moulds) ..... max. 100 CFU/g
Heavy metals (as Pb) .....max. 0.001 %
Identity ..... passes test
Loss on drying (16 h; 105 °C) ..... max. 2,0 %
Organic subst, boric acid ..... passes test
Red. substances ..... max. 1 %
Total aerobic
microbial counts .....max. 1000 CFU/g
Sucrose / red. sugars .....passes test
Chloride .....max. 0.02 %
Sulfate .....max. 0.01 %
As .....max. 0.0003 %
Mg/Alk. earth metals .....max. 0.4 %

Code	Packaging
143290.0914	5 kg

Calcium Hydrogen Phosphate anhydrous

Calcium Phosphate di-Basic, Calcium Phosphate sec.

$CaHPO_4$
M = 136.06 g/mol
CAS 7757-93-9
EINECS 231-826-1
CS 28352500

Solubility ..... water 0.1 g/l at 20 °C
Solid

WGK 1
Storage RT

141227 Calcium Hydrogen Phosphate anhydrous (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (as $CaHPO_4$) (Compl.) .... 98.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Insoluble matter in HCl .....0.2 %
Loss on ignition ..... 6.6-8.5 %
Loss on drying at 150 °C .....2.0 %
Chloride (Cl) ..... 0.033 %
Sulfate (SO_4) .....0.5 %
Carbonate ..... passes test
Residual solvents (Ph. Eur./USP) passes test
Fluoride (F) .....0.005 %
mono and tri-Calcium
Phosphate .....passes test
Total moulds count (TMC) ..... 100 cfu /g
Total yeast count (TYC) ..... 100 cfu /g
Total aerobic microbial count
(TAMC) ..... 1000 cfu/g
Salmonella absence/10g
Escherichia coli .....absence/g
Staphylococcus aureus .....absence/g
Pseudomonas aeruginosa .....absence/g
Heavy metals (as Pb) .....0.003 %
Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1.300 ppm
As ..... 0,00015 %
Ba .....passes test
Cd ..... 0,00005 %
Fe .....0,04 %
Hg ..... 0,00015 %
Pb ..... 0,00005 %

Code	Packaging
141227.0416	25 kg

Calcium Hydrogen Phosphate 2-hydrate

Calcium Phosphate sec.

$CaHPO_4 \cdot 2H_2O$
M = 172.09 g/mol
CAS 7789-77-7
EINECS 231-826-1
CS 28352500

Solubility ..... water 0.2 g/l at 20 °C
Solid

WGK 1
Storage RT

141226 Calcium Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) ..... 98.0-105.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Insoluble matter in HCl .....0.2 %
Loss on ignition ..... 24.5-26.5 %
Chloride (Cl) .....0.01 %
Sulfate (SO_4) .....0.5 %
Carbonate .....passes test
Residual solvents (Ph. Eur./USP) . passes test
Fluoride (F) .....0.005 %
mono and tri-Calcium
Phosphate .....passes test
Heavy metals (as Pb) .....0.003 %
Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1.300 ppm
As ..... 0,00015 %
Ba .....passes test
Cd ..... 0,00005 %
Fe .....0,04 %
Hg ..... 0,00015 %
Pb ..... 0,00005 %

Code	Packaging
141226.0416	25 kg

Calcium Hydroxide

Slaked lime

$Ca(OH)_2$
M = 74.09 g/mol
CAS 1305-62-0
EINECS 215-137-3
CS 28259019

Solubility ..... water 1.7 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H315

142400 Calcium Hydroxide, powder (USP, BP, Ph. Eur., JP) pure, pharma grade

Specifications
Assay (Compl.) ..... 95.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Insoluble matter in HCl .....0.5 %
Chloride (Cl) ..... 0.033 %
Sulfate (SO_4) .....0.4 %
Carbonate (as $CaCO_3$) ..... 5.0 %
Carbonate (USP) .....passes test
Residual solvents (Ph. Eur./USP) . passes test
Magnesium and alkali salts ..... 4.0 %
Heavy metals (as Pb) .....0.002 %
Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
As ..... 0.00015 %
Cd ..... 0.00025 %
Hg ..... 0.00015 %
Pb ..... 0.00005 %

Code	Packaging
142400.1211	1000 g
142400.0914	5 kg

202400 Calcium Hydroxide, powder (E-526, F.C.C.) food grade

Specifications
Assay (as $Ca(OH)_2$),
not less than ..... 95.0-100.5 %
Identity
Alkali ..... passes test
Carbonate ..... passes test
Appearance ..... passes test
Carbonate .....passes test
Acid-Insoluble substances,
not more than ..... 0.5 %
Barium, not more than ..... 300 ppm
Fluoride, not more than .....0.005 %
Magnesium and alkali salts,
not more than ..... 1.0 %
Arsenic (as As), not more than .....3 ppm
Lead, not more than .....2 ppm
Specifications Dir. 2009/10/CE, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
202400.0416	25 kg

Calcium Hydroxide 2 mol/l (suspension)

$Ca(OH)_2$
M = 74.09 g/mol
CAS 1305-62-0
EINECS 215-137-3
CS 28259019

Density ..... 1.072 kg/l
Solubility ..... $Ca(OH)_2$/l
Solubility ..... in water at 20 °C
Liquid

WGK 1
Storage RT

625409 Calcium Hydroxide 2 mol/l (suspension) VINIKIT for wine analysis

Composition:
Calcium Hydroxide ..... 14.8 g
Water (s.q.m) ..... 100 ml

Code	Packaging
625409.1209	250 ml

Calcium Lactate 5-hydrate

2-Hydroxypropanoic Acid Calcium salt, Lactic Acid Calcium Salt

$Ca(CH_3CHOHCOO)_2 \cdot 5H_2O$
M = 308.30 g/mol
CAS 28305-25-1
EINECS 248-953-3
CS 29181100

Solubility ..... 66 g/L (H_2O)
Solid

WGK 1
Storage RT

171230 Calcium Lactate 5-hydrate for soil testing

Specifications
Assay (complexometr.) ..... min. 98 %
Identity (IR) ..... passes test
pH (5 %; H_2O) 6.0-7.0
Water (K.F.) ..... 22-30 %

Phosphate ..... max. 0.002 %
K ..... max. 0.01 %

Code	Packaging
171230.1211	1 kg
171230.0914	5 kg
171230.0416	25 kg

A3670 Calcium Lactate 5-hydrate BioChemica

Specifications
Assay (complexometr.) ..... min. 98 %
Heavy metals (as Pb) ..... max. 0.002 %

Insoluble matter ..... passes test
Loss on drying ..... 22-27 %
pH (5 %; H_2O) 6.0-8.0

Solubility (5 %; H_2O) ..... clear, colorless
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.04 %

Code	Packaging
A3670,1000	1 kg

Calcium Nitrate 4-hydrate

$Ca(NO_3)_2 \cdot 4H_2O$
M = 236.15 g/mol
CAS 13477-34-4
EINECS 233-332-1
CS 28342980

Melting Point ..... 42 °C
Solubility ..... water 2,660 g/l at 20 °C
Solid

UN1454
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage Not recommended in areas with a very hot climate

Danger



H272 H319

131231 Calcium Nitrate 4-hydrate for analysis, ACS

Specifications
Assay (Compl.) ..... 99.0-103.0 %
pH of 5 % solution 5.0-7.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.005 %
Ammonium (NH_4) ..... 0.005 %

Sulfate (SO_4) ..... 0.002 %
Nitrite (NO_2) ..... 0.001 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Al..... 10
Bi..... 5
Co..... 5
Ba..... 50
Cd..... 5
Cr..... 5
Cu..... 5
K..... 50
Mn..... 5
Na..... 50
Pb..... 5
Tl..... 5
Fe..... 5
Mg..... 100
Mo..... 5
Ni..... 5
Sr..... 100
Zn..... 5

Code	Packaging
131231.1211	1000 g
131231.0416	25 kg

141231 Calcium Nitrate 4-hydrate pure

Specifications
Assay (Compl.) ..... 98 %
pH of 5 % solution 5.0-7.0
Acidity (as HNO_3) ..... 0.05 %
Insoluble matter in H_2O ..... 0.01 %

Chloride (Cl) ..... 0.005 %
Ammonium (NH_4) ..... 0.01 %
Sulfate (SO_4) ..... 0.05 %
Heavy metals (as Pb) ..... 0.002 %
Cu ..... 0.001 %

Fe ..... 0.001 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141231.1211	1000 g
141231.1214	5 kg
141231.0416	25 kg

tri-Calcium orthophosphate see tri-Calcium Phosphate

Calcium Oxide natural

Lime

CaO
M = 56.08 g/mol
CAS 1305-78-8
EINECS 215-138-9
CS 28259019

Melting Point ..... 2,614 °C
Boiling Point ..... 2,850 °C
Solubility ..... (decomposition).
Solid

UN1910
Class/PG 8/
ADR 8/ · IMDG 8/ · IATA 8/
WGK 1
Storage RT

Danger



H314

211234 Calcium Oxide natural, pieces technical grade

Specifications
Assay (Compl.) ..... 90 %
Chloride (Cl) ..... 0.05 %

Fe ..... 0.1 %
Ni ..... 0.01 %
Pb ..... 0.01 %

Code	Packaging
211234.1211	1000 g

HeBaPeaKTMB

tri-Calcium Phosphate

Calcium Phosphate tri-Basic

$Ca_3(PO_4)_2$
M = 310.20 g/mol
CAS 7758-87-4
EINECS 231-840-8
CS 28352600

Melting Point ..... 1,670 °C
Solubility ..... water 0.02 g/l at 20 °C
Solid

WGK nwg
Storage RT

141228 tri-Calcium Phosphate (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (as Ca) (Compl.) ..... 35.0-40.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Insoluble matter in HCl ..... 0.2 %
Loss on ignition ..... 8.0 %

Chloride (Cl) ..... 0.15 %
Sulfate (SO_4) ..... 0.5 %
Residual solvents (Ph. Eur.) ..... passes test
Fluoride (F) ..... 0.005 %
Heavy metals (as Pb) ..... 0.003 %
As ..... 0.0003 %
Cu ..... 0.005 %
Fe ..... 0.04 %

Mg ..... 0.6 %
Ni ..... 0.005 %
Pb ..... 0.005 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141228.1210	500 g
141228.0416	25 kg

201228 tri-Calcium Phosphate (E-341iii, F.C.C.) food grade

Specifications
Assay (in ignited substance), not less than ..... 90 %
Assay (as Ca) ..... 34.0-40.0 %
Identity
Phosphate ..... passes test
Calcium ..... passes test

Appearance ..... passes test
P_2O_5 content (a.a.s.) ..... 38.5-48.0 %
Loss on ignition, not more than ..... 8 %
Fluoride, not more than ..... 0.005 %
Arsenic (as As), not more than ..... 1 ppm
Cadmium, not more than ..... 1 ppm
Mercury (Hg), not more than ..... 1 ppm

Lead, not more than ..... 1 ppm
Aluminium, not more than ..... 500 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201228.0416	25 kg

tert.-Calcium phosphate see tri-Calcium Phosphate

Calcium Phosphate di-Basic see Calcium Hydrogen Phosphate anhydrous

Calcium Phosphate tri-Basic see tri-Calcium Phosphate

Calcium Stearate

Octadecanoic Acid Calcium salt

$Ca(C_{18}H_{35}O_2)_2$
M = 607.04 g/mol
CAS 1592-23-0
EINECS 216-472-8
CS 29157050

Melting Point ..... 149 °C
Solubility ..... Insoluble in water
Solubility ..... Miscible with water, ethanol and ether
Solid

WGK nwg
Storage RT

141818 Calcium Stearate (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (as Ca) (Compl.) calc. a.d.s. ..... 6.4-7.4 %
Assay (as CaO) (Compl.) ..... 9.0-10.5 %
Assay, fatty acid fraction (G.C.)
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Acidity or alkalinity ..... passes test
Loss on drying at 105 °C ..... 4.0 %

Chloride (Cl) ..... 0.1 %
Sulfate (SO_4) ..... 0.3 %
Residual solvents (Ph. Eur./USP) . passes test
Stearic + palmitic acids, minimum ..... 90.0 %
Stearic acid, minimum ..... 40.0 %
Total combined yeast and moulds (TYMC) ..... 100 cfu /g
Total aerobic microbial count (TAMC) ..... 1000 cfu/g
Salmonella absence/10g
Escherichia coli ..... absence/g

Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0003 %
Cd ..... 0.0003 %
Ni ..... 0.0005 %
Pb ..... 0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.
This product has been manufactured with fatty acids from vegetables source.

Code	Packaging
141818.0416	25 kg

Calcium Sulfate 2-hydrate

$CaSO_4 \cdot 2H_2O$
M = 172.17 g/mol
CAS 10101-41-4
EINECS 231-900-3
CS 28332980

Solubility ..... water 2 g/l at 20 °C
Solid

WGK 1
Storage RT

131235 Calcium Sulfate 2-hydrate for analysis, ACS

Specifications
Assay (Compl.) ..... 98.0-101.0 %

Maximum limit of impurities
Insoluble matter in HCl ..... 0.01 %
Chloride (Cl) ..... 0.002 %

Carbonate ..... passes test
Nitrate (NO_3) ..... 0.002 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.00004 %
Cu ..... 0.001 %
Fe ..... 0.001 %

K ..... 0.005 %
Mg ..... 0.02 %
Na ..... 0.02 %
Ni ..... 0.001 %
Pb ..... 0.001 %
Sr ..... 0.05 %

Code	Packaging
131235.1210	500 g

141235 Calcium Sulfate 2-hydrate (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) (calc. a.a.s) ..... 98.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Acidity or alkalinity ..... passes test

Insoluble matter in HCl ..... 0.03 %
Loss on ignition ..... 18.0-22.0 %
Loss on drying at 250 °C ..... 19.0-23.0 %
Chloride (Cl) ..... 0.03 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0001 %

Cu ..... 0.002 %
Fe ..... 0.005 %
Ni ..... 0.002 %
Pb ..... 0.002 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141235.1211	1000 g

201235 Calcium Sulfate 2-hydrate (E-516, F.C.C.) food grade

Specifications
Assay (as $CaSO_4$) calc. a.d.s., not less than ..... 99.0 %
Loss on drying ..... 19.0-23.0 %
Fluoride, not more than ..... 0.003 %

Arsenic, not more than ..... 3 ppm
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Selenium, not more than ..... 0.003 %

Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201235.0416	25 kg

HebaPeakTMB

Calconcarboxylic Acid

Patton and Reeder's reagent

$C_{21}H_{14}N_2O_7S$
M = 438.42 g/mol
CAS 3737-95-9
EINECS 223-117-0
CS 29270000

Solubility ..... in water at 20 °C
Solid

WGK 1
Storage RT

123575 Calconcarboxylic Acid (Reag. Ph. Eur.) for analysis

for complexometry

Specifications
Identity .....IR passes test
A 1 %, 1 cm, λ_{max} ..... > 250
λ_{max} ABS in C_2H_5OH .....569-572 nm
Suitability as compl. indicator
of Ca .....passes test
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 135 °C ..... 6-9 %

Code	Packaging
123575.1606	25 g

Calf Intestine Phosphatase see Phosphatase, alkaline from calf intestine (CIP)

DL-Camphor synthetic

(1RS, 4SR)-1,7,7-Trimethylbicyclo-[2.2.1]-Heptan-2-ol

$C_{10}H_{16}O$
M = 152.24 g/mol
CAS 76-22-2
EINECS 244-350-4
CS 29142900

Melting Point ..... 179.8 °C
Boiling Point ..... 204 °C
Solubility ..... Insoluble in water
Solid

UN2717
Class/PG 4.1/III
ADR 4.1/III · IMDG 4.1/III · IATA 4.1/III
WGK 1
Storage RT

Danger



H228

142652 DL-Camphor synthetic (USP) pure, pharma grade

Specifications
Identity .....IR passes test
Melting range ..... 174-179 °C
Specific rotation
α n20/D c=10 (in ethanol) .....-0.15 - +0.15°

Maximum limit of impurities
Acidity or alkalinity .....passes test
Insoluble matter in C_2H_5OH .....passes test
Non-volatile matter ..... 0.05 %
Halogenated compounds (as Cl) ..... 0.01 %
Residual solvents (USP) .....passes test
Water .....passes test

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1.300 ppm

Code	Packaging
142652.0416	25 kg

Canada Balsam

CAS 8007-47-4
EINECS 232-362-2
CS 13019000

Density .....0.991 kg/l
Solubility ..... Insoluble in water
Refractive Index n20/D 1.522
Liquid

WGK 2
Storage RT

251179 Canada Balsam for clinical diagnosis

Mounting medium

Specifications
Identity .....IR passes test
Density 20/4 ..... 0.987-0.994
Refractive Index n20/D 1.520-1.523

Maximum limit of impurities
Insoluble matter in C_2H_5OH .....passes test
Insoluble matter in C_8H_{10} .....passes test

Code	Packaging
251179.1608	100 ml
251179.1609	250 ml
251179.1611	1000 ml

Canavanine Sulfate

$C_5H_{12}N_4O_3 \cdot H_2SO_4$
M = 274.26 g/mol
CAS 2219-31-0
EINECS 218-728-4
CS 29280090

Melting Point ..... 160-165 °C (dec.)
Solid

Storage 2-8 °C

Warning



H302+H312+H332

A3780 Canavanine Sulfate BioChemica

Specifications
Assay (TLC) .....min. 98 %
Solubility (10 %, H_2O) ..... clear, colorless
Water (K.F.) ..... max. 7 %

Code	Packaging
A3780,0100	100 mg

Cancer-associated CEA see Carcinoembryonic Antigen (CEA), human

Caprylic Acid see Octanoic Acid

CAPS

3-(Cyclohexylamino)-1-Propanesulfonic Acid

$C_9H_{19}NO_3S$
M = 221.32 g/mol
CAS 1135-40-6
EINECS 214-492-1
CS 29213099

Solid

Storage RT

A1063 CAPS for buffer solutions

Specifications
Assay (titr., anhydr. subst.) .....min. 99 %
pH (1 %; H_2O; 20 °C) 4.9-6.0
Water .....max. 5 %

A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.04
280 nm ..... max. 0.02

Code	Packaging
A1063,0100	100 g
A1063,5000	5 kg

CAPSO

3-(Cyclohexylamino)-1-Propanesulfonic Acid

$C_9H_{19}NO_4S$
M = 237.32 g/mol
CAS 73463-39-5
CS 29221985

Melting Point ..... 270 °C
Solid

Storage RT

A1064 CAPSO for buffer solutions

Specifications
Assay (titr.) ..... min. 98 %
pH (1 %; H_2O; 20 °C) 5.5-6.1

Water ..... max. 1 %
A (1 cm/0.1 M in H_2O)

260 nm ..... max. 0.04
280 nm ..... max. 0.03

Code	Packaging
A1064,0100	100 g

Carazzi's Hematoxylin solution

CS 38220000

Density ..... 1.080 kg/l
Liquid

WGK 1
Storage RT

255298 Carazzi's Hematoxylin solution for clinical diagnosis

Solution for Hematoxylin-Eosin staining, of human and gynaecological samples

Composition:
Hematoxylin ..... 0.1 g
Aluminium Potassium Sulfate 12-hydrate ..... 5 g
Sodium Iodate ..... 0.02 g
Glycerol ..... 20 ml
Water (s.q.m) ..... 100 ml

Code	Packaging
255298.1610	500 ml
255298.1612	2.5 l

Carbamide see Urea (Pellets)

Carbamidine Chloride see Guanidine Hydrochloride

Carbenicillin Disodium Salt

α-Carboxybenzylpenicillin

$C_{17}H_{16}N_2Na_2O_6S$
M = 422.37 g/mol
CAS 4800-94-6
EINECS 225-360-8
CS 29419000

Solid

Storage RT

Danger



H317 H334

A1491 Carbenicillin Disodium Salt BioChemica

Specifications
Activity (calc on dried subst.) ..... min. 770 µg/mg
Heavy metals (as Pb) ..... max. 0.001 %
pH (1 %; H_2O; 20 °C) 6.0-7.5
Water (K.F.) ..... max. 6 %

Code	Packaging
A1491,0001	1 g
A1491,0005	5 g
A1491,0010	10 g
A1491,0100	100 g

Carbol Fuchsine solution see Ziehl-Neelsen solution

Carbon Disulfide

Carbon Sulphide

CS_2
M = 76.14 g/mol
CAS 75-15-0
EINECS 200-843-6
CS 28131000
Index Nr. 006-003-00-3

Melting Point ..... -111 °C
Boiling Point ..... 46 °C
Density ..... 1.264 kg/l
Solubility ..... water 2.9 g/l at 20 °C
Refractive Index n20/D 1.628
Liquid

UN1131
Class/PG 3(6.1)/I
ADR 3(6.1)/I · IMDG 3(6.1)/I · IATA 3(6.1)/I
WGK 2
Storage RT

Danger



H225 H319 H315 H372 H361fd

361244 Carbon Disulfide for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 99.9 %

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0005 %

Water (H_2O) ..... 0.005 %
Suitability for IR spectrometry: ..... passes test
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 385 nm (Cut off) ..... ≥ 10 %
Transmittance at 390 nm ..... ≥ 50 %
Transmittance at 400 nm ..... ≥ 80 %
Transmittance at 410 nm ..... ≥ 90 %
Transmittance at 420-500 nm ..... ≥ 98 %

Data of interest in HPLC:
P' + 0.25 E 1.7
Rohrschneider Polarity 0.3
Eluotropic value e° (Al_2O_3) 0.15
Sol. H_2O in solv. at 20 °C 0.005
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361244.1611	1000 ml

131244 Carbon Disulfide for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test

Maximum limit of impurities
APHA colour 10
Non-volatile matter ..... 0.002 %
Sulfur Dioxide (SO_2) ..... 0.00025 %
Benzene (G.C.) ..... 0.003 %
Hydrogen Sulphide (H_2S) ..... 0.00015 %

Water (H_2O) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Ga	0.02
As	0.05	Au	0.05	Ge	0.05
B	0.02	Ba	0.1	Hg	0.05
Be	0.02	Bi	0.05	In	0.05
Ca	0.5	Cd	0.05	K	0.1
Co	0.02	Cr	0.02	Li	0.05
Cu	0.02	Fe	0.1	Mg	0.1
				Mn	0.02
				Mo	0.02
				Na	0.5
				Ni	0.02
				P	0.2
				Pb	0.1
				Pt	0.02
				Sb	0.02
				Si	0.2

Code	Packaging
131244.1611	1000 ml

141244 Carbon Disulfide pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Non-volatile matter ..... 0.005 %

Toluene (G.C.) ..... 0.005 %
Benzene (G.C.) ..... 0.005 %
Water (H_2O) ..... 0.02 %
Cu ..... 0.00002 %

Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141244.1611	1000 ml

161244 Carbon Disulfide, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity .....IR passes test
Water (H_2O) ..... 0.01 %

Code	Packaging
161244.1611	1000 ml
161244.1612	2.5 l

Carbon Sulfide see Carbon Disulfide

Carbowax 600 see Polyethylene Glycol 600

Carbowax 1500 see Polyethylene Glycol 1500

α-Carboxybenzylpenicillin see Carbenicillin Disodium Salt

Carboxymethylcellulose Sodium Salt medium viscosity

CMC, Sodium Carboxymethylcellulose

R_nOCH_2COONa
CAS 9004-32-4
CS 39123100

Solid

WGK 1
Storage RT

144441 Carboxymethylcellulose Sodium Salt medium viscosity (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay [as Na (calc.a.d.s.)]
(Perchl. Ac.) ..... 6.5-9.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH sol. 1 % 6.5-8.0
Viscosity (sol. at 2 % at 20 °C) ..... 400-800 cP

Maximum limit of impurities
Appearance of solution .....passes test
Insoluble matter in H_2O .....passes test
Loss on drying at 105 °C .....10.0 %
Residue on ignition (as SO_4) .....20.0-29.3 %
Chloride (Cl) .....0.25 %
Residual solvents (Ph. Eur./USP) .passes test

Sodium glycolate .....0.4 %
Heavy metals (as Pb) ..... 0.002 %
As ..... 0.0003 %
Fe ..... 0.02 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
144441.1209	250 g

Carcinoembryonic Antigen (CEA), human

Cancer-associated CEA

Origin from human liver metastasis of colon adenocarcinoma

CS 38220000

Storage Avoid repeated changes in the solution temperature!
Storage -20 °C

A6940 Carcinoembryonic Antigen (CEA), human

0.2 µm filtered

supplied liquid in 100 mM PBS, pH 7.3, 2 % methylmannoside, 0.02 % sodium azide

Specifications
Assay (SDS-PAGE) .....min. 95 %
Concentration ..... min. 1 mg/ml

Code	Packaging
A6940,0100	100 µg

Carmine (Lacquer of carminic acid with Ca and Al) (C.I. 75470)

$C_{44}H_{37}AlCaO_{27} \cdot 3H_2O$
M = 1,118.78 g/mol
CAS 1390-65-4
EINECS 215-724-4
CS 32030090

Solubility ..... Insoluble in water
Solid

WGK 1
Storage RT

251824 Carmine (Lacquer of carminic acid with calcium and aluminium) (C.I. 75470) for clinical diagnosis

Specifications
Identity .....IR passes test
A 1 %, 1 cm, λ_{max} 2 .....> 100
A 1 %, 1 cm, λ_{max} 1 ..... > 70
ABS λ_{max} in DMSO .....563-571 nm

Maximum limit of impurities
Loss on drying at 110 °C .....15 %
Ratio λ_{max} P+/- 15 nm (at l528 nm) .. 1.00-1.10

Code	Packaging
251824.1605	10 g

L-Carnosine

$C_9H_{14}N_4O_3$
M = 226.23 g/mol
CAS 305-84-0
EINECS 206-169-9
CS 29332990

Melting Point .....253 °C (dec.) (lit.)

Storage RT

A9516 L-Carnosine BioChemica

Specifications
Assay (HPLC) .....min. 99 %
Heavy metals ..... max. 0.0005 %
Identity (IR) ..... passes test
pH (2 %; H_2O) 7.9-8.5
Specific Rotation .....20-22°
β-Alanine ..... max. 0.1 %
L-Histamine ..... max. 1.0 %
Loss on drying (2 h; 105 °C) .....max. 1 %
As ..... max. 0.0001 %

Code	Packaging
A9516,5000	5 kg

Carnoy's Fixing

CS 38220000

Density .....1.022 kg/l
Solubility .....Miscible with water
Liquid

UN1992
Class/PG 3(6.1)/III
ADR 3(6.1)/III · IMDG 3(6.1)/III · IATA 3(6.1)/III
Storage RT

Danger



H225 H351 H373 H319 H315

251917 Carnoy's Fixing for clinical diagnosis

for microscopy

Composition:
Acetic Acid glacial ..... 100 ml
Ethanol absolute .....600 ml
Trichloromethane estabilized with ethanol .....300 ml

Code	Packaging
251917.1611	1000 ml

β-Carotin see Lycopin

Carrez's Reagent I

CS 38220000

Density .....1.122 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

173355 Carrez's Reagent I

for precipitation of proteins

Composition:
Zinc Acetate 2-hydrate ..... 239 g
Acetic Acid glacial ..... 28.6 ml
Water (s.q.m) .....1 l

Assay (Zinc acetate 2-hydrate) .....23.8 ± 0.5 % m/v
Identity .....passes test

Code	Packaging
173355.1211	1000 ml
173355.1214	5 l

Carrez's Reagent II

CS 38220000

Density .....1.061 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

173356 Carrez's Reagent II

for precipitation of proteins

Composition:
Potassium Hexacyanoferrate (II) 3-hydrate ..... 107 g
Water (s.q.m) .....1 l

Assay (Potassium Hexacyanoferrate (II) 3-hydrate) .....10.6 ± 0.5 % m/v
Identity .....passes test

Code	Packaging
173356.1211	1000 ml
173356.1214	5 l

CASO Agar see Tryptone Soya Agar

CASO Broth see Tryptone Soya Broth

Casticin

Vitexicarpin

Origin from *Vitex agnus castus*

$C_{19}H_{18}O_8$
M = 374.32 g/mol
CAS 479-91-4
CS 29420000

Solid

Storage 2-8 °C

A6748 Casticin for HPLC

Specifications
Assay (HPLC) .....min. 98 %

Code	Packaging
A6748,0010	10 mg

Castor Oil

Ricinus oil

CAS 8001-79-4
EINECS 232-293-8
CS 15153090

Boiling Point ..... 313 °C
Density .....0.958 kg/l
Solubility ..... Insoluble in water
Refractive Index n20/D 1.479
Liquid

Storage RT

144564 Castor Oil (BP, Ph. Eur.) pure, pharma grade

Specifications
Hydroxyl value .....≥ 160
Identity according to Pharmacopoeias: ..... passes test
Refractive Index n20/D 1.477-1.481
Specific rotation α n20/D (without dil.) .....+3.5 - +6.0°

Maximum limit of impurities
ABS λ_{max} 270 nm 1.0 % w/v sol. in C_2H_5OH 96 % 0.7
Acidity value 1.5
Iodine value 82-90
Peroxide value 5.0
Saponification value 176-187
Unsaponifiable matter ..... 0.8 %

Composition of fatty acids .....passes test
Foreign fatty substances .....passes test
Residual solvents (Ph. Eur.) .....passes test
Water (H_2O) .....0.3 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
144564.1611	1000 ml
144564.1214	5 l

Catalpol

Origin from *Picrorhizae kurroa*

$C_{15}H_{22}O_{10}$
M = 362.33 g/mol
CAS 2415-24-9
CS 29420000

Solid

Storage 2-8 °C

A3395 Catalpol for HPLC

Specifications
Assay .....min. 99 %

Code	Packaging
A3395,0020	20 mg

HebaPeakTMB

Printed on FSC® certified paper from well managed forests

(+)-Catechin

3,3',4',5,7-Pentahydroxyflavan, (+)-Catechol

Origin from *Acacia catechu*

$C_{15}H_{14}O_6$
M = 290.27 g/mol
CAS 154-23-4
CS 29420000

Solid

Storage 2-8 °C

Warning



H315 H319 H335

A4325 (+)-Catechin HPLC grade

Specifications
Assay .....min. 99 %

Code	Packaging
A4325,0020	20 mg
A4325,0050	50 mg

(+)-Catechol see (+)-Catechin

Caustic soda see Sodium Hydroxide

CDTA see 1,2-Diaminocyclohexane-N,N,N',N',-Tetraacetic Acid 1-hydrate

Cefotaxime Sodium Salt

Claforan

$C_{16}H_{16}N_5O_7S_2Na$
M = 477.4 g/mol
CAS 64485-93-4
EINECS 264-915-9
CS 29341000

Solid

WGK 1
Storage 2-8 °C

A4802 Cefotaxime Sodium Salt BioChemica

Specifications
Assay (TLC) .....min. 98 %
Appearance .....light yellow powder
Solubility
(5 %; H_2O) .....clear colorless to yellow
Water (K.F.) .....approx. 1 %

Code	Packaging
A4802,0001	1 g
A4802,0005	5 g

Celite Hyflo Super Cel®

CAS 61790-53-2
EINECS 319-127-0
CS 38029000

Solubility .....Insoluble in water
Solid

WGK nwg
Storage RT

Warning



H371

175772 Celite Hyflo Super Cel®

(® Registered trade-mark of World Minerals)

Specifications
Loss on ignition .....0.2 %
Granular size less than 0,1 mm .....90 %

Code	Packaging
175772.1210	500 g

Cell Proliferation Kit XTT

Proliferation Test Kit for Cells

CS 38220000

Storage protected from light
Storage Avoid repeated changes in the reaction mix temperature
Storage -20 °C

A8088 Cell Proliferation Kit XTT

Specifications
Dye absorbance is proportional to the number of cells in each well.
One step process with results within 2-5 hours.
No requirement for additional reagents and/or the cell washing procedures.
Kit for quantitating cell proliferation and viability without using radioactive isotopes

Kit components
XTT reagent
Activation reagent (PMS)

Code	Packaging
A8088,1000	1000 Tests

CellCultureGuard

Storage -20 °C
Storage protected from light

A8906 CellCultureGuard

100X - solution to prevent microbial contamination of cell culture

Specifications
No side effects on cell cultures are observed at the recommended concentrations.
CellCultureGuard is a 100-fold concentrated sterile solution.
CellCulture Guard is a combination of novel antibiotics to protect cell cultures from contamination by microorganisms.

Code	Packaging
A8906,0050	50 ml

D(+)-Cellobiose

$C_{12}H_{22}O_{11}$
M = 342.30 g/mol
CAS 528-50-7
EINECS 208-436-5
CS 29400000

Melting Point ..... 237-239 °C
Solid

WGK nwg
Storage RT

A3196 D(+)-Cellobiose BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 4 %, H_2O ..... 34-35°
Heavy metals (as Pb) ..... max. 0.0005 %
Sulfated ash ..... max. 0.05 %

Code	Packaging
A3196,0010	10 g
A3196,0050	50 g
A3196,0100	100 g

Cellosolve see 2-Ethoxyethanol

Cerium(IV) and Ammonium Sulfate see Ammonium Cerium(IV) Sulfate 2-hydrate

Cerium(IV) Sulfate 4-hydrate

$Ce(SO_4)_2 \cdot 4H_2O$
M = 404.30 g/mol
CAS 10294-42-5
EINECS 237-029-5
CS 28469000

Solubility ..... water 38 g/l at 50 °C
Solid

WGK 1
Storage RT

121248 Cerium(IV) Sulfate 4-hydrate (Reag. USP, Ph. Eur.) for analysis

Specifications
Minimum assay (Iodom.) ..... 98 %

Maximum limit of impurities
Insoluble matter in H_2SO_4 ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Phosphate (PO_4) ..... 0.01 %
Non-precipitated by NH_4OH ..... 0.3 %
Heavy metals (Reagent Pharmacopoeias) ..... passes test
Heavy metals (as Pb) ..... 0.003 %
Al ..... 0.01 %
Cu ..... 0.003 %
Fe ..... 0.005 %
Ni ..... 0.003 %
Pb ..... 0.003 %

Code	Packaging
121248.1208	100 g
121248.1209	250 g
121248.1214	5 kg

141248 Cerium(IV) Sulfate 4-hydrate pure

Specifications
Assay (Iodom.) ..... 98 %
Chloride (Cl) ..... 0.05 %
Cu ..... 0.01 %
Fe ..... 0.05 %
Ni ..... 0.01 %
Pb ..... 0.01 %

Code	Packaging
141248.1209	250 g

Cerium(IV) Sulfate 0.1 mol/l (0.1N)

$Ce(SO_4)_2 4H_2O$
M = 404.30 g/mol
CAS 10294-42-5
EINECS 237-029-5
CS 28469000

Density ..... 1.083 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

181249 Cerium(IV) Sulfate 0.1 mol/l (0.1N) (Reag. USP) volumetric solution

Standardised against Sodium Oxalate

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181249.1611	1000 ml
181249.1612	2,5 l

Cesium Chloride

CsCl
M = 168.36 g/mol
CAS 7647-17-8
EINECS 231-600-2
CS 28273985

Melting Point ..... 646 °C
Boiling Point ..... 1300 °C
Density ..... 3.983 kg/l (20 °C)
Solubility ..... 1800 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H361

122509 Cesium Chloride (Reag. Ph. Eur.) for analysis

Specifications
Minimum assay (Arg.) ..... 99.5 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Nitrogen compounds (as N) ..... 0.001 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.002 %

Metals by ICP [in mg/Kg (ppm)]

Al	5	As	1	Cr	3
B	2	Ba	10	Cu	3
Bi	2	Ca	10	Fe	3
Cd	3	Co	3	K	20
				Li	0.5
				Mg	5
				Mn	3
				Mo	5
				Na	20
				Ni	3
				Pb	1
				Sr	3
				Tl	5
				Zn	5

Code	Packaging
122509.1206	25 g
122509.1208	100 g
122509.1210	500 g

A1098 Cesium Chloride 99.999 % for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay ..... min. 99.999 %
Al ..... max. 0.0001 %
Ba ..... max. 0.0001 %
Ca ..... max. 0.0001 %
Cr ..... max. 0.0001 %
Fe ..... max. 0.0001 %
K ..... max. 0.0005 %
Li ..... max. 0.0001 %
Na ..... max. 0.0005 %
A (1 cm/50 % in water HPLC grade)
260 nm ..... max. 0.02
280 nm ..... max. 0.02

Code	Packaging
A1098,0100	100 g
A1098,0500	500 g
A1098,1000	1 kg

A1126 Cesium Chloride 99.9 % BioChemica

Specifications
Assay ..... min. 99.9 %
Al ..... max. 0.0005 %
Ba ..... max. 0.001 %
Ca ..... max. 0.0005 %
Cr ..... max. 0.0005 %
Fe ..... max. 0.0005 %
K ..... max. 0.002 %
Li ..... max. 0.0005 %
Na ..... max. 0.005 %

Code	Packaging
A1126,0100	100 g
A1126,0500	500 g
A1126,1000	1 kg

HeBaPeaKTMB

Cetrimide

Tetradonium Bromide

$C_{17}H_{38}BrN
M = 336.42 g/mol
CAS 1119-97-7
EINECS 214-291-9
CS 29239000

Solubility ..... water 500 g/l at 20 °C
Solid

UN1759
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 3
Storage RT

Danger



H314

142542 Cetrimide (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Arg.) calc. a.d.s. ..... 96.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test

Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... passes test
Loss on drying at 105 °C ..... 2.0 %
Residue on ignition (as SO_4) ..... 0.5 %
Amines and amine salts ..... passes test

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
142542.0914	5 kg

Cetrimonium Bromide see Cetyltrimethylammonium Bromide

Cetyl Alcohol

1-Hexadecanol, Hexadecyl Alcohol, Palmitic Alcohol

$CH_3(CH_2)_{15}OH
M = 242.45 g/mol
CAS 36653-82-4
EINECS 253-149-0
CS 29051700

Melting Point ..... 50 °C
Boiling Point ..... 344 °C
Solubility ..... Insoluble in water
Solid

WGK nwg
Storage RT

Warning



H315

143143 Cetyl Alcohol (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Minimum assay (G.C.) ..... 95.0 %
Identity according to
Pharmacopoeias: ..... passes test
Melting range ..... 46-52 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in alcohol ..... passes test

Acidity value 1
Hydroxyl value 218-238
Iodine value 2
Saponification value 2
Residual solvents (Ph. Eur./USP) . passes test

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1.300 ppm
As ..... 0,00015 %
Cd ..... 0,00005 %
Hg ..... 0,00015 %
Pb ..... 0,00005 %

Code	Packaging
143143.0914	5 kg

Cetyltrimethylammonium Bromide

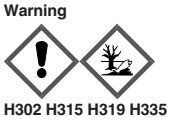
Cetrimonium Bromide, Palmityltrimethylammoniumbromid, CTAB, N-Cetyl-N,N,N-trimethylammonium Bromide, Hexadecyltrimethylammonium Bromide

$C_{19}H_{42}BrN
M = 364.46 g/mol
CAS 57-09-0
EINECS 200-311-3
CS 29239000

Melting Point ..... 250 °C (dec.)
Solubility ..... 3 g/L (H_2O)
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 3
Storage RT

Warning



H302 H315 H319 H335 H400 H410

122054 Cetyltrimethylammonium Bromide for analysis

Specifications
Minimum assay (Arg.) ..... 98.0 %
Identity ..... IR passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... passes test
Loss on drying at 105 °C ..... 1 %
Residue on ignition (as SO_4) ..... 0.5 %

Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
122054.1209	250 g

162054 Cetyltrimethylammonium Bromide, 99 % for synthesis

Specifications
Minimum assay (Arg.) ..... 99 %
Identity ..... IR passes test

Code	Packaging
162054.1211	1000 g

A6284 Cetyltrimethylammonium Bromide for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %

Water (K.F.) ..... max. 1 %
Fe ..... max. 0.001 %

Code	Packaging
A6284,0100	100 g
A6284,0250	250 g
A6284,0500	500 g

A0805 Cetyltrimethylammonium Bromide BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %

Water (K.F.) ..... max. 1 %
Fe ..... max. 0.001 %

Code	Packaging
A0805,0100	100 g
A0805,0500	500 g

α-Chaconine

Origin from *Solanum tuberosum*

$C_{45}H_{73}NO_{14}$
M = 852.04 g/mol
CAS 20562-03-2
CS 29420000

Storage 2-8 °C

Warning



H302+H332 H361d H302 H332

A9544 α-Chaconine for HPLC

Specifications
Assay .....min. 98 %

Code	Packaging
A9544,0005	5 mg
A9544,0010	10 mg

Chapman Medium see Mannitol Salt Agar (Ph. Eur.) (Dehydrated Culture Media) for microbiology

CHAPS

3-[(3-Cholamidopropyl)-Dimethylammonio]-1-Propanesulfonate

$C_{32}H_{58}N_2O_7S$
M = 614.89 g/mol
CAS 75621-03-3
CS 29242998

Melting Point ..... 116 °C
Solid

Storage 2-8 °C

Warning



H302 H315 H319

A4011 CHAPS for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (from N) .....min. 99 %
Conductivity (0.1 M) ..... max. 10.0 µS/cm
Pb ..... max. 0.005 %
Water (K.F.) ..... max. 4 %
N ..... approx. 4.5 %
Na ..... max. 0.005 %
A (1 cm/5 % in H_2O)
290 nm ..... max. 0.5
400 nm ..... max. 0.02

Code	Packaging
A4011,0005	5 g
A4011,0010	10 g

A1099 CHAPS BioChemica

Specifications
Assay (from N) .....min. 99 %
Conductivity (0.1 M) ..... max. 10.0 µS/cm
Pb .....max. 0.005 %
Water (K.F.) .....max. 4 %
N ..... approx. 4.5 %
Na .....max. 0.005 %
A (1 cm/5 % in H_2O)
290 nm ..... max. 0.5
400 nm ..... max. 0.02

Code	Packaging
A1099,0005	5 g
A1099,0010	10 g
A1099,0025	25 g
A1099,0050	50 g
A1099,0500	500 g

CHAPSO

3-[(3-3-[(3-Cholamidopropyl)-Dimethylammonio]-2-Hydroxy-1-Propanesulfonate

$C_{32}H_{58}N_2O_8S$
M = 630.87 g/mol
CAS 82473-24-3
CS 29242998

Melting Point ..... 175 °C
Solid

Storage 2-8 °C

A1100 CHAPSO BioChemica

Specifications
Assay (from N) .....min. 98 %
Water (K.F.) .....max. 6 %

Code	Packaging
A1100,0005	5 g

Charcoal Activated granulated n° 2

C
M = 12.01 g/mol
CAS 7440-44-0
EINECS 231-153-3
CS 38021000

Solubility ..... Insoluble in water
Solid

WGK nwg
Storage RT

211239 Charcoal Activated granulated n° 2 technical grade

cilynders of ~ 3 mm. Bleacher and adsorber

Specifications
Granular size ..... 3-5 mm
Residue on ignition at 600 °C .....15 %

Code	Packaging
211239.1610	500 g
211239.1611	1000 g

Charcoal Activated granulated n° 3

C
M = 12.01 g/mol
CAS 7440-44-0
EINECS 231-153-3
CS 38021000

Solubility ..... Insoluble in water
Solid

WGK nwg
Storage RT

211240 Charcoal Activated granulated n° 3 technical grade

granules of 3 mm. Bleacher and adsorber

Specifications
Granular size .....0.5-3.15 mm
Residue on ignition at 600 °C ..... 6 %

Code	Packaging
211240.0914	5 kg

HeBaPeaKTMB

Charcoal Activated powder

C
M = 12.01 g/mol
CAS 7440-44-0
EINECS 231-153-3
CS 38021000

Solubility ..... Insoluble in water
Solid

WGK nwg
Storage RT

121237 Charcoal Activated powder for analysis

Bleacher

Specifications
Adsorption power of methylene blue (0.15 %) min ..... 100 ml/g

Maximum limit of impurities
Acidity or alkalinity ..... passes test
Soluble matter in C_2H_5OH ..... 0.2 %
Soluble matter in H_2O ..... 0.2 %
Soluble matter in HCl ..... 1 %
Loss on drying at 120 °C ..... 10 %
Residue on ignition ..... 1 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Sulfide (S) ..... passes test
Organic substances ..... passes test
Ca ..... 0.05 %
Cu ..... 0.002 %
Fe ..... 0.025 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
121237.1609	250 g
121237.1610	500 g
121237.0416	25 kg

201237 Charcoal Activated powder (E-153, F.C.C.) food grade

Specifications
Soluble matter in water, not more than ..... 4.0 %
Loss on drying, not more than ..... 10 %
Residue on ignition, not more than ..... 7 %
Iodine value, not less than 400
Cyanogen Compounds ..... passes test
Higher aromatic Hydrocarbons ..... passes test
Arsenic (as As), not more than ..... 3 ppm
Lead, not more than ..... 10 ppm
Heavy metals (as Pb) ..... 0.004 %
Specifications F.C.C. 9
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201237.1609	250 g

211237 Charcoal Activated powder technical grade

bleacher

Specifications
Chloride (Cl) ..... 0.2 %
Decolorizing power ..... passes test
Cu ..... 0.005 %
Fe ..... 0.05 %
Ni ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
211237.1610	500 g
211237.0914	5 kg

Charcoal Vegetal powder

CS 44029000

Solubility ..... Insoluble in water
Solid

WGK nwg
Storage RT

211243 Charcoal Vegetal powder technical grade

adsorber

Specifications
Acidity or alkalinity ..... passes test
Sulfide ..... passes test

Code	Packaging
211243.1610	500 g
211243.0416	25 kg

CheLuminate-HRP ELISA FemtoDetect

CS 38220000

Storage 2-8 °C

A8055 CheLuminate-HRP ELISA FemtoDetect

Specifications
Perfectly suitable for all kind of ELISA or microplate readers, also with automated liquid handling systems
Immediate light generation with intense signal at 425 nm (RT or 37 °C)
Extended signal duration; very low detection limit in the mid femtogram range (10^{-14})
Wide dynamic range; no need to dilute samples
Excellent low-end linearity of dose response curves (reading after 1 min)
Excellent stability; working solution is stable for up to 8 hours
Sufficient for 5x 96 well plates
For the detection of antigens / antibodies in ELISA

Code	Packaging
A8055,0100	100 ml

CheLuminate-HRP ELISA FemtoDetect Plus

CS 38220000

Storage 2-8 °C

A8031 CheLuminate-HRP ELISA FemtoDetect Plus

Specifications
Perfectly suitable for all kind of ELISA or microplate readers, also with automated liquid handling systems
Immediate light generation with intense signal at 425 nm (RT or 37 °C)
Outstanding sensitivity; extreme low detection limit in the low femtogram range (10^{-15})
Wide dynamic range; no need to dilute samples
Excellent low-end linearity of dose response curves (reading after 1 min)
Excellent stability; working solution is stable for up to 8 hours (RT)
Sufficient for 5x 96 or 25x 96 well plates, respectively
For detection of antigens / antibodies in ELISA

Code	Packaging
A8031,0100	100 ml

CheLuminate-HRP FemtoDetect

Enhanced ChemiLuminescence Detection Kit FemtoDetect

CS 38220000

Storage 2-8 °C

A7807 CheLuminate-HRP FemtoDetect

Specifications
Perfect chemiluminescent substrate for medium and poorly expressed proteins
Outstanding signal duration; 12 hours of light emission
Very low detection limit in high femtogram range (10^{-13})
Preferred detection system: Imaging equipment. Film may be used as well.
High stability; working solution is stable for 24 h at RT
Sufficient for 500 cm^2 or 2500 cm^2 or 5000 cm^2, respectively
For detection of immobilized proteins (Western blot) and immobilized nucleic acids (Southern and Northern blot)

Code	Packaging
A7807,0500	1 Kit
A7807,5000	1 Kit

CheLuminate-HRP FemtoDetect Plus

Enhanced ChemiLuminescence Detection Kit FemtoDetect Plus

CS 38220000

Storage 2-8 °C

A7879 CheLuminate-HRP FemtoDetect Plus

Specifications
Perfect chemiluminescent substrate for poorly expressed proteins (membrane proteins)
Outstanding sensitivity detection limit in high femtogram range (10^{-15})
Preferred detection system: Imaging equipment
High signal duration; 8 hours of light emission
High stability; working solution is stable for 8 h at RT
Sufficient for 200 cm^2 or 1000 cm^2, respectively
For detection of immobilized proteins (Western blot) and immobilized nucleic acids (Southern and Northern blot)

Code	Packaging
A7879,0200	1 Kit
A7879,1000	1 Kit

НеВаРеактив

CheLuminate-HRP PicoDetect

Enhanced ChemiLuminescence Detection Kit

CS 38220000 Storage 2-8 °C

A3417 CheLuminate-HRP PicoDetect

Specifications
Perfect chemiluminescent substrate for highly expressed proteins
Superior for standard Western blot detection on autoradiography film
Picogram limit of detection bears a low risk of signal saturation and background problems
Very high stability; working solution is stable for 7 days at RT
Sufficient for 1200 cm^2 or 5000 cm^2, respectively
For detection of immobilized proteins (Western blot) and immobilized nucleic acids (Southern and Northern blot)

Code	Packaging
A3417,1200	1 Kit
A3417,5000	1 Kit

CheLuminate-HRP PicoDetect Extended

Enhanced ChemiLuminescence Detection Kit PicoDetect Extended

CS 38220000 Storage 2-8 °C

A7786 CheLuminate-HRP PicoDetect Extended

Specifications
Perfect chemiluminescent substrate for highly expressed proteins
Superior for standard Western blot detection on autoradiography film or via imaging systems
Extended light emission; 6 hours of signal duration
Picogram (10^{-12}) limit of detection
High stability; working solution is stable for 24 h at RT
Sufficient for 500 cm^2 or 2500 cm^2 or 5000 cm^2, respectively
For detection of immobilized proteins (Western blot) and immobilized nucleic acids (Southern and Northern blot)

Code	Packaging
A7786,0500	1 Kit

Chenodeoxycholic Acid

3α,7α-Dihydroxy-5β-Cholanoic Acid

$C_{24}H_{40}O_4$
M = 392.58 g/mol
CAS 474-25-9
EINECS 207-481-8
CS 29181998
Solid
Storage RT

A1690 Chenodeoxycholic Acid BioChemica

Specifications
Assay (titr.) ..... min. 98 %
α20 °C/D; 2 %, EtOH ..... 11-13°
Cholic acid (TLC) ..... max. 0.5 %

Code	Packaging
A1690,0005	5 g

CHES

2-(N-Cyclohexylamino)-Ethanesulfonic Acid

$C_8H_{17}NO_3S$
M = 207.29 g/mol
CAS 103-47-9
EINECS 203-115-6
CS 29213099
Solid
Storage RT

A1065 CHES for buffer solutions

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
pH (1 %; H_2O; 20 °C) 5.0-6.0
Water ..... max. 1 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.04

Code	Packaging
A1065,0100	100 g
A1065,0250	250 g

Chitosamine Hydrochloride see D(+)-Glucosamine Hydrochloride

Chloral Hydrate

2,2,2-Trichloro-1,1-Ethanediol, Trichloroacetaldehyde Hydrate

$C_2H_3Cl_3O_2$
M = 165.40 g/mol
CAS 302-17-0
EINECS 206-117-5
CS 29055998
Index Nr. 605-014-00-6
Melting Point ..... 57 °C
Boiling Point ..... 96 °C
Solubility ..... Miscible with ehtanol
Solid
UN2811
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage RT

Danger



H301 H319 H315

141975 Chloral Hydrate (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 98.5-101.0 %
Identity according to Pharmacopoeias: ..... passes test
pH of 10 % solution 3.5-5.5

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.1 %
Darkened substances by H_2SO_4 ... passes test
Chloride (Cl) ..... 0.01 %
Residual solvents (Ph. Eur.) ..... passes test
Chloral alcoholate ..... passes test
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141975.1210	500 g
141975.1211	1000 g
141975.1214	5 kg

α-Chloralose

Glucochloralose

$C_8H_{11}Cl_3O_6$
M = 309.53 g/mol
CAS 15879-93-3
EINECS 240-016-7
CS 29400000
Index Nr. 605-013-00-0
Melting Point ..... 184-187 °C
Solid
Storage RT

Warning



H302+H332

A1993 α-Chloralose

Specifications
Assay ..... min. 97 %
α20 °C/D; [illegible]OH ..... 18.5-19.5°
Sulfated ash ..... max. 0.5 %
Water ..... max. 0.5 %
Chloride ..... max. 0.001 %

Code	Packaging
A1993,0500	500 g
A1993,5000	5 kg

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

Chloramine T 3-hydrate

Sodium 4-Toluenosulphonechloramide, Sodium N-Chlorotoluene-4-Sulphonamide, Sodium Tosylchloramide

$C_7H_7ClNNaO_2S \cdot 3H_2O$
M = 281.69 g/mol
CAS 7080-50-4
EINECS 204-854-7
CS 29350090
Index Nr. 616-010-00-9

Melting Point ..... 167-170 °C
Solubility ..... Soluble in water.
Solid

UN3263
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage between 2-8 °C

Danger



H302 EUH031 H314 H334

132323 Chloramine T 3-hydrate (Reag. USP) for analysis, ACS

Specifications
Assay (Iodom.) ..... 98.0-103.0 %
Identity ..... IR passes test
pH of 5 % solution 8.0-10.0
Suitability: for bromide determination ..... passes test

Maximum limit of impurities
Insoluble matter in C_2H_5OH ..... 1.5 %
Insoluble matter in H_2O ..... passes test
ortho-Compound ..... passes test

Code	Packaging
132323.1209	250 g

142323 Chloramine T 3-hydrate (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Iodom.) ..... 98.0-103.0 %
Identity according to Pharmacopoeias: ..... passes test
pH of 5 % solution 8.0-10.0

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in C_2H_5OH ..... 1.5 %
Insoluble matter in H_2O ..... passes test
ortho-Compound ..... passes test
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
142323.1209	250 g
142323.1211	1000 g
142323.0914	5 kg

Chloramphenicol

D(-)-threo-2,2-Dichloro-N-[β-hydroxy-α-(hydroxymethyl)-β-(4-nitrophenyl)-ethyl]-acetamide, Chloromycetin

$C_{11}H_{12}Cl_2N_2O_5$
M = 323.13 g/mol
CAS 56-75-7
EINECS 200-287-4
CS 29414000

Melting Point ..... 149-153 °C
Solubility ..... 2.5 g/L
Solid

WGK 3
Storage RT

Danger



H350

A7495 Chloramphenicol for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (photometr.) ..... min. 98.5 %
α20 °C/D; 5 % EtOH ..... 18.5-20.5°
Loss on drying ..... max. 0.5 %
Sulfated ash ..... max. 0.1 %
Chloride ..... max. 0.01 %

Code	Packaging
A7495,0025	25 g
A7495,0100	100 g

A1806 Chloramphenicol BioChemica

Specifications
Assay (photometr.) ..... min. 98.5 %
α20 °C/D; 5 % EtOH ..... 18.5-20.5°
Loss on drying ..... max. 0.5 %
Sulfated ash ..... max. 0.1 %
Chloride ..... max. 0.01 %

Code	Packaging
A1806,0025	25 g
A1806,0050	50 g
A1806,2000	2 kg
A1806,5000	5 kg

Chlorbutol see 1,1,1-Trichloro-2-Methyl-2-Propanol 1/2-hydrate

5-Chlorcarvacrol

2-Hydroxy-5-Chlorocymol, 4-Chloro-2-Methyl-5-(1-Methylethyl) Phenol, 4-Chloro-5-iso-Propyl-2-Methylphenol

$C_{10}H_{13}ClO$
M = 184.67 g/mol
CAS 5665-94-1
EINECS 227-122-9
CS 29081900

Melting Point ..... 40 °C
Solubility Insoluble in water. Soluble in acetone and trichloromethane.
Solid

WGK 1
Storage RT

Warning



H315

153856 5-Chlorcarvacrol, 97 % for synthesis

Specifications
Assay (G.C.) ..... 97 %
Identity ..... IR passes test
Residue on ignition (as SO_4) ..... 0.2 %
Heavy metals (as Pb) ..... 20 ppm

Code	Packaging
153856.1610	500 g

Chlorhexidine Diacetate 1-hydrate

1,1'-Hexamethylene bis-[5-(4-chloro-phenyl)-biguanide] Diacetate

$C_{26}H_{38}Cl_2N_{10}O_4 \cdot H_2O$
M = 643.56 g/mol
CAS 56-95-1
EINECS 200-302-4
CS 29252900

Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
Storage RT
Storage protected from light

Warning



H302 H410

A3785 Chlorhexidine Diacetate 1-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 98 %
Loss on drying ..... max. 3.5 %

Code	Packaging
A3785,0100	100 g

Chlorine Iodide see Iodine mono-Chloride

НеваРеактив

Chlorine Reagent Buffer

CS 38220000

Melting Point ..... 230 °C
Solubility ..... water 1,670 g/l at 20 °C
Solid

Storage RT

286300 Chlorine Reagent Buffer for volumetric analysis

for Swan analyzers

Specifications
Suitability: for chlorine determination ..... passes test

Code	Packaging
286300.12144	480 g

Chlorine Reagent DPD

CS 38220000

Density ..... 1.216 kg/l
Liquid

UN3264
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H314

286301 Chlorine Reagent DPD for volumetric analysis

for Swan analyzers

Specifications
Suitability: for chlorine determination ..... passes test

Code	Packaging
286301.1208	100 ml

4-Chloro-2-Methyl-5-(1-Methylethyl) Phenol see 5-Chlorcarvacrol

4-Chloro-3-Methylphenol

2-Chloro-5-Hydroxytoluene, 4-Chloro-m-Cresol, Chlorocresol

C_7H_7ClO
M = 142.58 g/mol
CAS 59-50-7
EINECS 200-431-6
CS 29071990
Index Nr. 604-014-00-3

Melting Point ..... 66 °C
Boiling Point ..... 235 °C
Solubility ..... water 3.8 g/l at 20 °C
Solid

UN3437
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage away from direct light.

Danger



H312 H302 H318 H317 H400

145226 4-Chloro-3-Methylphenol (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay ..... 99.0-101.0 %
Identity according to Pharmacopoeias: ..... passes test
Melting range ..... 64-66 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity ..... passes test
Insoluble matter in CH_3CH_2OH .... passes test
Non-volatile matter ..... 0.1 %

Residual solvents (Ph. Eur./USP) . passes test
Related substances (G.C.)
Individual ..... 0.10 %
Total ..... 1 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1.300 ppm
As ..... 0,00015 %
Cd ..... 0,00005 %
Hg ..... 0,00015 %
Pb ..... 0,00005 %

Code	Packaging
145226.1211	1000 g

165226 4-Chloro-3-Methylphenol, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %

Identity ..... IR passes test
Melting range ..... 64-66 °C

Code	Packaging
165226.1211	1000 g

2-Chloro-5-Hydroxytoluene see 4-Chloro-3-Methylphenol

4-Chloro-5-Isopropyl-2-Methylphenol see 5-Chlorcarvacrol

4-Chloro-m-Cresol see 4-Chloro-3-Methylphenol

Chlorobenzene

Benzene Chloride, mono-Chlorobenzene

C_6H_5Cl
M = 112.56 g/mol
CAS 108-90-7
EINECS 203-628-5
CS 29039100
Index Nr. 602-033-00-1

Melting Point ..... -45 °C
Boiling Point ..... 132 °C
Density ..... 1.108 kg/l
Solubility ..... Insoluble in water
Refractive Index n20/D 1.5248
Liquid

UN1134
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 2
Storage RT

Warning



H226 H332 H411

131953 Chlorobenzene (Reag. USP) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/20 ..... 1.100-1.111
Range of Boiling (> 95 % dist.) ..... 129-131 °C

Maximum limit of impurities
APHA colour 30
Acidity ..... 0.004 meq/g
Non-volatile matter ..... 0.002 %
Darkened substances by H_2SO_4 .. passes test

Sulfur compounds (as CS_2) ..... 0.0003 %
1,2-Dichlorobenzene (G.C.) ..... 0.02 %
1,3-Dichlorobenzene (G.C.) ..... 0.02 %
1,4-Dichlorobenzene (G.C.) ..... 0.02 %
Benzene (G.C.) ..... 0.01 %
Thiophene (C_4H_4S) ..... 0.0002 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
Al 0.5
As 0.05
Au 0.05
B 0.02
Ba 0.1
Be 0.02
Bi 0.05
Ca 0.5
Cd 0.05
Co 0.02
Cr 0.02
Cu 0.02
Fe 0.1
Ga 0.02
Ge 0.05
Hg 0.05
In 0.05
K 0.1
Li 0.05
Mg 0.1
Mn 0.02
Mo 0.02

Code	Packaging
131953.1611	1000 ml

141953 Chlorobenzene pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 1.106-1.110
Acidity ..... 0.01 meq/g
Non-volatile matter ..... 0.005 %

Sulfur compounds (as CS_2) ..... 0.001 %
1,2-Dichlorobenzene (G.C.) ..... 0.05 %
1,3-Dichlorobenzene (G.C.) ..... 0.05 %
1,4-Dichlorobenzene (G.C.) ..... 0.05 %
Benzene (G.C.) ..... 0.05 %
Thiophene (C_4H_4S) ..... 0.001 %

Water (H_2O) ..... 0.2 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141953.1611	1000 ml
141953.1612	2.5 l

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

161953 Chlorobenzene, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 1.106-1.110
Acidity (as HCl) ..... 0.01 %
Non-volatile matter ..... 0.002 %
Water (H_2O) ..... 0.05 %

Code	Packaging
161953.1611	1000 ml
161953.1612	2.5 l
161953.0714	5 l

Chlorobenzene / Acetic Acid 2:1

CS 38220000

Density ..... 1.078 kg/l
Liquid

UN2924
Class/PG 3(8)/III
ADR 3(8)/III · IMDG 3(8)/III · IATA 3(8)/III
Storage RT

Danger



H225 H314 H332

124856 Chlorobenzene / Acetic Acid 2:1 for analysis

Composition:
Chlorobenzene ..... 667 ml
Acetic Acid ..... 333 ml

Code	Packaging
124856.1611	1000 ml
124856.1612	2.5 l

1-Chlorobutane

Butyl Chloride

C_4H_9Cl
M = 92.57 g/mol
CAS 109-69-3
EINECS 203-696-6
CS 29031980
Index Nr. 602-059-00-3

Melting Point ..... -123 °C
Boiling Point ..... 78 °C
Density ..... 0.886 kg/l (20 °C)
Refractive Index n20/D 1.4018
Liquid

UN1127
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H225

364343 1-Chlorobutane for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 99.8 %
Density 20/4 ..... 0.885-0.887

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g

Non-volatile matter ..... 0.0002 %
Water (H_2O) ..... 0.01 %
Suitability for IR spectrometry: ..... passes test
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 220 nm (Cut off) ..... ≥ 10 %
Transmittance at 227 nm ..... ≥ 60 %
Transmittance at 232 nm ..... ≥ 80 %
Transmittance at 250 nm ..... ≥ 98 %

Transmittance at 260-400 nm ..... ≥ 99 %
Data of interest in HPLC:
P' + 0.25 E 2.8
Rohrschneider Polarity 1.0
Eluotropic value e° (Al_2O_3) 0.26
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
364343.1611	1000 ml
364343.1612	2.5 l

124343 1-Chlorobutane (Reag. USP) for analysis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.885-0.887
Range of Boiling ..... 76-80 °C
Refractive Index n20/D 1.4015-1.4035

Maximum limit of impurities
APHA colour 10

Acidity ..... 0.0005 meq/g
Non-volatile matter ..... 0.001 %
Sulfur compounds (as S) ..... 0.002 %
Water (H_2O) ..... 0.01 %
Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.000002 %

Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
124343.1611	1000 ml

A2329 1-Chlorobutane Protein for protein sequencing

Specifications
Assay (G.C.) ..... min. 99.8 %
Sequence analysis test ..... passes test
Water ..... max. 0.05 %

Code	Packaging
A2329,0250	250 ml

Chlorobutanol see 1,1,1-Trichloro-2-Methyl-2-Propanol 1/2-hydrate

Chlorocresol see 4-Chloro-3-Methylphenol

Chloroform : Isoamyl Alcohol

CS 38220000

Liquid

UN2810
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 2
Storage RT

Warning



H302 H315 H351 H373

A1935 Chloroform : Isoamyl Alcohol 24 : 1 BioChemica

mixture of Chloroform : Isoamyl alcohol in the ratio 24 : 1

Composition:
Chloroform (A1585) ..... 960 ml/L
Isoamyl alcohol (A0875) ..... 40 ml/L

Code	Packaging
A1935,0100	100 ml
A1935,0250	250 ml
A1935,0500	500 ml

Chloroform stabilized with amylene

Trichloromethane

$CHCl_3$
M = 119.38 g/mol
CAS 67-66-3
EINECS 200-663-8
CS 29031300
Index Nr. 602-006-00-4

Melting Point ..... -63 °C
Boiling Point ..... 61 °C
Density ..... 1.483 kg/l (20 °C)
Solubility ..... 8 g/L (H_2O)
Refractive Index n20/D 1.4459
Liquid

UN1888
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Warning



H302 H315 H351 H373

363101 Chloroform stabilized with ~ 150 ppm of amylene for HPLC, GPC

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... > 1.48

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.00015 meq/g
Alkalinity ..... 0.0002 meq/g

Non-volatile matter ..... 0.0003 %
Water (H_2O) ..... 0.01 %
Fluorescence at 254 nm (as quinine) .... 1 ppb
Fluorescence at 365 nm (as quinine) .... 1 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 244 nm (Cut off) ..... ≥ 10 %
Transmittance at 245 nm ..... ≥ 15 %
Transmittance at 255 nm ..... ≥ 70 %
Transmittance at 260 nm ..... ≥ 85 %

Transmittance at 280-400 nm ..... ≥ 98 %
Data of interest in HPLC:
P' + 0.25 E 5.6
Rohrschneider Polarity 4.1
Eluotropic value e° (Al_2O_3) 0.4
Sol. H_2O in solv. at 20 °C 0.072
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
363101.1612	2.5 l

483101 Chloroform dry (max. 0.005 % water) stabilized with ~ 50 ppm of amylene, ACS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Density 20/4 ..... > 1.48
Suitability: for use in dithizone tests ..... passes test

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.00015 meq/g
Non-volatile matter ..... 0.001 %
Chlorine (Cl) ..... 0.0005 %

Chloride (Cl) ..... 0.00002 %
Carbonyl compounds (as CH_3COCH_3) ..... 0.005 %
Carbon Tetrachloride (G.C.) ..... 0.01 %
Dichloromethane (G.C.) ..... 0.01 %
Phosgene (Cl_2CO) ..... 0.0001 %
Metallic impurities ..... passes test
Tetrachloroethylene (G.C.) ..... 0.01 %
Trichloroethylene (G.C.) ..... 0.01 %
Water (H_2O) ..... 0.005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As 0.05
B 0.02
Be 0.02
Ca 0.5
Co 0.02
Cu 0.02
Ga 0.02
Hg 0.05
K 0.1
Mg 0.1
Al 0.5
Au 0.05
Ba 0.1
Bi 0.05
Cd 0.05
Cr 0.02
Fe 0.1
Ge 0.05
In 0.05
Li 0.05

Code	Packaging
483101.1611	1000 ml

133101 Chloroform stabilized with ~ 50 ppm of amylene (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... > 1.48
Suitability: for use in dithizone tests ..... passes test

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.00015 meq/g
Non-volatile matter ..... 0.001 %
Chlorine (Cl) ..... 0.0005 %
Chloride (Cl) ..... 0.00002 %

Carbonyl compounds (as CH_3COCH_3) ..... 0.005 %
Carbon Tetrachloride (G.C.) ..... 0.01 %
Dichloromethane (G.C.) ..... 0.01 %
Phosgene (Cl_2CO) ..... 0.0001 %
Metallic impurities ..... passes test
Tetrachloroethylene (G.C.) ..... 0.01 %
Trichloroethylene (G.C.) ..... 0.01 %
Water (H_2O) ..... 0.05 %
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 255 nm ..... ≥ 50 %
Transmittance at 260 nm ..... ≥ 80 %
Transmittance at 300 nm ..... ≥ 98 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As 0.05
B 0.02
Be 0.02
Ca 0.5
Co 0.02
Cu 0.02
Ga 0.02
Hg 0.05
Al 0.5
Au 0.05
Ba 0.1
Bi 0.05
Cd 0.05
Cr 0.02
Fe 0.1
Ge 0.05

Code	Packaging
133101.1611	1000 ml
133101.1612	2.5 l

143101 Chloroform stabilized with ~ 50 ppm of amylene pure

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity according to Pharmacopoeias: ..... passes test
Density 20/4 ..... > 1.48
Range of Distillation ..... 60-62 °C

Maximum limit of impurities
Acidity or alkalinity ..... passes test

Non-volatile matter ..... 0.002 %
Chlorine Free (Cl) ..... 0.001 %
Chloride (Cl) ..... 0.0001 %
Chlorine foreign compounds ..... passes test
Related substances ..... passes test
Aldehyde ..... passes test
Water (H_2O) ..... 0.1 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
143101.1611	1000 ml
143101.1612	2.5 l
143101.3516	25 l

163101 Chloroform. 99.9 % stabilized with ~ 50 ppm of amylene for synthesis

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Density 20/4 ..... > 1.48
Acidity (as HCl) ..... 0.001 %

Non-volatile matter ..... 0.002 %
Water (H_2O) ..... 0.05 %

Code	Packaging
163101.1612	2.5 l
163101.1714	5 l
163101.0616	25 l

A3691 Chloroform BioChemica

stabilized with approx. 50 ppm Amylene

Specifications
Assay (G.C.) ..... min. 99.5 %
Acidity/Alkalinity ..... max. 0.0005 meq/g
Non-volatile matter ..... max. 0.0005 %

C_2Cl_4 ..... max. 0.005 %
CCl_4 ..... max. 0.005 %
Dichloromethane ..... max. 0.005 %
Water (K.F.) ..... max. 0.02 %
Chloride ..... max. 0.0002 %

Cu ..... max. 0.000002 %
Fe ..... max. 0.00001 %
Pb ..... max. 0.00001 %
Zn ..... max. 0.000005 %

Code	Packaging
A3691,0500	500 ml
A3691,1000	1 L
A3691,2500	2.5 L

НеваРеактив

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Chloroform stabilized with ethanol

Trichloromethane

$CHCl_3$
M = 119.38 g/mol
CAS 67-66-3
EINECS 200-663-8
CS 29031300
Index Nr. 602-006-00-4

Melting Point ..... -63 °C
Boiling Point ..... 61 °C
Density ..... 1.483 kg/l (20 °C)
Solubility ..... 8 g/L (H_2O)
Refractive Index n20/D 1.4459
Liquid

UN1888
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Warning



H302 H315 H351 H373

361252 Chloroform stabilized with ethanol for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 99.0 %
Density 20/4 ..... 1.476-1.486

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.00015 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0003 %
Ethanol (G.C.) ..... 0.5-0.8 %

Water (H_2O) ..... 0.01 %
Suitability for IR spectrometry: ..... passes test
Fluorescence at 254 nm (as quinine) ..... 1 ppb
Fluorescence at 365 nm (as quinine) ..... 1 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 244 nm (Cut off) ..... ≥ 10 %
Transmittance at 245 nm ..... ≥ 20 %
Transmittance at 250 nm ..... ≥ 50 %
Transmittance at 257 nm ..... ≥ 80 %
Transmittance at 260 nm ..... ≥ 85 %

Transmittance at 270 nm ..... ≥ 90 %
Transmittance at 280-400 nm ..... ≥ 98 %
Data of interest in HPLC:
P' + 0.25 E 5.6
Rohrschneider Polarity 4.1
Eluotropic value e° (Al_2O_3) 0.4
Sol. H_2O in solv. at 20 °C 0.072
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361252.1611	1000 ml
361252.1612	2.5 l

321252 Chloroform stabilized with ethanol for pesticide analysis

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Density 20/4 ..... 1.476-1.486

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.00015 meq/g
Non-volatile matter ..... 0.0005 %
Ethanol (G.C.) ..... 0.5-0.8 %

Water (H_2O) ..... 0.05 %
Signal ECD of pesticide (Lindane a DDT) (as Lindane) ..... 5 ng/l
Signal FID of 2-Octanol to Tetradecanol (as 2-Octanol) ..... passes test

Code	Packaging
321252.1612	2.5 l

131252 Chloroform stabilized with ethanol (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.0 %
Minimum assay (G.C.) (stabilizer not included) ..... 99.8 %
Identity ..... IR passes test
Suitability: for use in dithizone tests ..... passes test

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.00015 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 .. passes test

Chlorine (Cl) ..... 0.0005 %
Chloride (Cl) ..... 0.00002 %
Carbonyl compounds (as CH_3COCH_3) ..... 0.005 %
Carbon Tetrachloride (G.C.) ..... 0.01 %
Dichloromethane (G.C.) ..... 0.01 %
Ethanol (G.C.) ..... 0.5-0.8 %
Phosgene (Cl2CO) ..... 0.0001 %
Metallic impurities ..... passes test
Tetrachloroethylene (G.C.) ..... 0.01 %
Trichloroethylene (G.C.) ..... 0.01 %
Water (H_2O) ..... 0.05 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5
As	0.05	Au	0.05
B	0.02	Ba	0.1
Be	0.02	Bi	0.05
Ca	0.5	Cd	0.05
Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Ga	0.02	Ge	0.05
Hg	0.05	In	0.05
K	0.1		

Code	Packaging
131252.1611	1000 ml
131252.1612	2.5 l

121252 Chloroform stabilized with ethanol for analysis

Specifications
Minimum assay (G.C.) ..... 99.0 %
Minimum assay (G.C.) (stabilizer not included) ..... 99.6 %
Identity ..... IR passes test
Density 20/4 ..... 1.476-1.486

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.00015 meq/g
Non-volatile matter ..... 0.001 %

Darkened substances by H_2SO_4 ... passes test
Chlorine (Cl) ..... 0.0005 %
Chloride (Cl) ..... 0.00002 %
Carbonyl compounds (as CH_3COCH_3) ..... 0.005 %
Carbon Tetrachloride (G.C.) ..... 0.05 %
Dichloromethane (G.C.) ..... 0.05 %
Ethanol (G.C.) ..... 0.5-0.8 %
Phosgene (Cl2CO) ..... 0.0001 %
Tetrachloroethylene (G.C.) ..... 0.05 %
Trichloroethylene (G.C.) ..... 0.05 %

Water (H_2O) ..... 0.05 %

Metals by ICP [in mg/Kg (ppm)]

Ca	0.5	Cd	0.05
Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Mg	0.1	Mn	0.02
Ni	0.02	Pb	0.05
Zn	0.1		

Code	Packaging
121252.1611	1000 ml
121252.1612	2.5 l

191252 Chloroform stabilized with ethanol (BP) pharma grade

Specifications
Assay (G.C.) ..... 99.0-99.4 %
Acidic/alkaline react. subst. ..... passes test
Appearance of substance .... clear, colorless liquid
Density (20°/4 °C) 1.474-1.479

Distillation range ..... min. 95 % (v/v)
Foreign chlorine subst. ..... passes test
Free chlorine ..... passes test
Identity (IR) ..... passes test
Non-volatile matter ..... passes test
Related subst. ..... max. 1.0 % (v/v)

Aldehydes ..... passes test
Ethanol (G.C.) ..... 1.0-2.0 % (v/v)
Water (K.F.) ..... max. 0.1 %
Chloride ..... passes test

Code	Packaging
191252.1612	2.5 L

141252 Chloroform stabilized with ethanol pure

Specifications
Assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Density 25/25 ..... 1.476-1.486
Range of Distillation ..... 60-62 °C
Acidity or alkalinity ..... passes test
Non-volatile matter ..... 0.002 %

Darkened substances by H_2SO_4 ... passes test
Chlorine Free (Cl) ..... 0.001 %
Chloride (Cl) ..... 0.0001 %
Carbonyl compounds ..... passes test
Chlorate decomposition products ..... passes test
Related substances ..... passes test

Ethanol (G.C.) ..... 0.5-0.8 %
Phosgene (Cl2CO) ..... 0.0005 %
Water (H_2O) ..... 0.1 %
Cu ..... 0.00002 %
Fe ..... 0.00002 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141252.1611	1000 ml
141252.1612	2.5 l
141252.1714	5 l
141252.0616	25 l

161252 Chloroform, 99 % stabilized with ethanol for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Minimum assay (G.C.) (stabilizer not included) ..... 99.9 %

Identity ..... IR passes test
Density 20/4 ..... 1.476-1.486
Acidity (as HCl) ..... 0.001 %
Non-volatile matter ..... 0.002 %

Ethanol (G.C.) ..... 0.5-0.8 %
Water (H_2O) ..... 0.05 %

Code	Packaging
161252.1714	5 l
161252.0616	25 l

211252 Chloroform stabilized with ethanol technical grade

Specifications
Assay (G.C.) ..... 98 %
Density 20/4 ..... 1.476-1.486
Acidity ..... 0.0015 meq/g

Ethanol (G.C.) ..... 0.5-0.8 %
Water (H_2O) ..... 0.2 %

Code	Packaging
211252.1611	1000 ml
211252.1612	2.5 l
211252.1714	5 l

Chlorogenic Acid

3-Caffeylquinic acid

Origin from green coffee bean

$C_{16}H_{18}O_9$
M = 354.31 g/mol
CAS 327-97-9
CS 29420000

Storage 2-8 °C

A9549 Chlorogenic Acid for HPLC

Specifications
Assay .....min. 99 %

Code	Packaging
A9549,0050	50 mg

Chloroplatinic Acid see Hexachloroplatinic(IV) Acid 6-hydrate

Chloroquine Diphosphate

$C_{18}H_{26}ClN_3 \cdot 2H_3PO_4$
M = 515.90 g/mol
CAS 50-63-5
EINECS 200-055-2
CS 29334990

Melting Point .....213-216 °C
Solid

Storage RT

Warning



H302

A2143 Chloroquine Diphosphate BioChemica

Specifications
Assay (TLC) .....min. 98 %
Solubility (5 %; H_2O) ..... clear, slightly yellow
Water (K.F.) ..... max. 3 %

Code	Packaging
A2143,0050	50 g

Chlorosulfonic Acid

Chlorosulphuric Acid

$HClO_3S$
M = 116.52 g/mol
CAS 7790-94-5
EINECS 232-234-6
CS 28062000
Index Nr. 016-017-00-1

Melting Point .....-80 °C
Boiling Point ..... 151 °C
Density .....1.75 kg/l
Solubility Reacts violently with water and ethanol. Miscible with ether, chloroform or benzene
Refractive Index n14/D 1.437
Liquid

UN1754
Class/PG 8/I
ADR 8/I · IMDG 8/I · IATA 8/I
WGK 1
Storage RT

Danger



EUH014 H314 H335

15A676 Chlorosulfonic Acid, 98 % for synthesis

Specifications
Minimum assay (Acidim.) .....98 %
Density 20/4 ..... 1.749-1.753

Code	Packaging
15A676.00122	188 l

Chlorotetracycline Hydrochloride

7-Chlorotetracycline Hydrochloride, Aureomycin

Origin from *Streptomyces aureofasciens*

$C_{22}H_{23}ClN_2O_8 \cdot HCl$
M = 515.35 g/mol
CAS 64-72-2
EINECS 200-591-7
CS 29413000

Solid

WGK 1
Storage RT protected from light

Danger



H361

A1946 Chlorotetracycline Hydrochloride BioChemica

Specifications
Assay (HPLC) .....min. 97 %
Water .....max. 3 %

Code	Packaging
A1946,0010	10 g

N-Chlorotoluene-4-Sulphonamide Sodium Salt see Chloramine T 3-hydrate

3-[(3-3-[(3-Cholamidopropyl)-Dimethylammonio]-2-Hydroxy-1-Propanesulfonate see CHAPSO

Cholesterol

Cholest-5-en-3-β-ol

Origin from wool grease from sheeps

$C_{27}H_{46}O$
M = 386.66 g/mol
CAS 57-88-5
EINECS 200-353-2
CS 29061310

Melting Point .....147-150 °C
Boiling Point ..... approx. 360 °C
Solid

WGK 1
Storage 2-8 °C

A0807 Cholesterol BioChemica

Specifications
Assay (G.C.) .....min. 95 %
α20 °C/D; 2 %, 1,4-Dioxane .....-34 to -38°
Loss on drying .....max. 0.3 %

Code	Packaging
A0807,0050	50 g
A0807,0100	100 g
A0807,1000	1 kg

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Cholesterol synthetic

Cholest-5-en-3-β-ol

$C_{27}H_{46}O$
M = 386.66 g/mol
CAS 57-88-5
EINECS 200-353-2
CS 29061310

Melting Point ..... 147-150 °C
Boiling Point ..... approx. 360 °C
Solid

WGK 1
Storage 2-8 °C

A6799 Cholesterol synthetic

Specifications
Assay (HPLC) ..... min. 99.0 %
α25 °C/D; 2 %, $CHCl_3$ ..... max. -35°
Ash ..... max. 0.1 %
Heavy metals (as Pb) ..... max. 0.0005 %
Identity (IR, NMR) ..... passes test
Loss on drying ..... max. 0.5 %

Code	Packaging
A6799,0100	100 mg

Cholesteryl Benzoate

3β-Benzoyl-5-Cholestene

$C_{34}H_{50}O_2$
M = 490.77 g/mol
CAS 604-32-0
EINECS 210-064-3
CS 29163100

Melting Point ..... 149-151 °C
Solid

Storage 2-8 °C

A0809 Cholesteryl Benzoate BioChemica

Specifications
Assay (G.C.) ..... min. 98 %
α20 °C/D; 2 %, $CHCl_3$ ..... -15° ± 2°
Loss on drying ..... max. 0.5 %

Code	Packaging
A0809,0010	10 g

Cholic Acid

3α,7α,12α-Trihydroxy-5β-cholalic Acid

$C_{24}H_{40}O_5$
M = 408.58 g/mol
CAS 81-25-4
EINECS 201-337-8
CS 29181930

Melting Point ..... 197-202 °C
Solubility ..... 0.28 g/L (H_2O)
Solid

WGK 1
Storage RT

A2834 Cholic Acid BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
Loss on drying ..... max. 0.5 %
Residue on ignition ..... max. 0.1 %
Deoxycholic acid ..... max. 1 %

Code	Packaging
A2834,0100	100 g
A2834,9025	25 kg

Cholic Acid Sodium Salt see Sodium Cholate

Choline Chloride

N-(2-Hydroxyethyl)-Trimethylammonium Chloride

$C_5H_{14}ClNO$
M = 139.63 g/mol
CAS 67-48-1
EINECS 200-655-4
CS 29231000

Solid

WGK 1
Storage RT

A0785 Choline Chloride BioChemica

Specifications
Assay (titr.) ..... min. 98 %
Heavy metals (as Pb) ..... max. 0.001 %
Loss on drying ..... max. 0.5 %
Solubility (10 %; H_2O) ..... clear, colorless

Code	Packaging
A0785,1000	1 kg

Chromic Acid see Chromium(VI) Oxide

Chromic Acid Potassium Salt see Potassium Chromate

Chromic Anhydride see Chromium(VI) Oxide

Chromic Mixture see DERQUIM MC Chromic Mixture

Chromium Trioxide see Chromium(VI) Oxide

Chromium(III) Chloride 6-hydrate

$CrCl_3 \cdot 6H_2O$
M = 266.45 g/mol
CAS 10060-12-5
EINECS 233-038-3
CS 28273985

Melting Point ..... 95 °C
Solubility ..... 590 g/L (H_2O)
Solid

WGK 2
Storage RT

Warning



H302

142014 Chromium(III) Chloride 6-hydrate pure

Specifications
Assay (titr.) ..... min. 96 %
Sulfate ..... max. 0.1 %
Fe ..... max. 0.03 %

Code	Packaging
142014.1211	1 kg

Chromium(III) Nitrate 9-hydrate

$Cr(NO_3)_3 \cdot 9H_2O$
M = 400.15 g/mol
CAS 7789-02-8
EINECS 236-921-1
CS 28342980

Melting Point ..... 60 °C
Solubility ..... Miscible with ehtanol
Solid

UN2720
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 2
Storage Not recommended in areas with a very hot climate

Danger



H272

121275 Chromium(III) Nitrate 9-hydrate for analysis

Specifications
Minimum assay (Iodom.) ..... 98.0 %
pH of 5 % solution 2.0-3.0

Maximum limit of impurities
Chloride (Cl) ..... 0.002 %
Ammonium (NH_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %

Non precipi.substances
by NH_4OH (as SO_4) ..... 0.2 %
Ca ..... 0.005 %
Cd ..... 0.001 %
Co ..... 0.001 %
Cu ..... 0.001 %
Fe ..... 0.02 %
Mg ..... 0.005 %

Mn ..... 0.001 %
Na ..... 0.01 %
Ni ..... 0.005 %
Pb ..... 0.002 %
Sr ..... 0.005 %
Zn ..... 0.001 %

Code	Packaging
121275.0416	25 kg

Chromium(III) Potassium Sulfate 12-hydrate

Chrome Alum, Potassium and Chromium(III) Sulfate, Potassium Disulphatechromate(III)

$KCr(SO_4)_2 \cdot 12H_2O$
M = 499.41 g/mol
CAS 7788-99-0
EINECS 233-401-6
CS 28333000

Melting Point ..... 89 °C
Solubility ..... water 250 g/l at 20 °C
Solid

WGK 2
Storage RT

131284 Chromium(III) Potassium Sulfate 12-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Iodom.) ..... 98.0-102.0 %
pH of 5 % solution 2.8-4.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.002 %

Ammonium (NH_4) ..... 0.01 %
Heavy metals (as Pb) ..... 0.01 %
Al ..... 0.005 %
Ca ..... 0.005 %
Cd ..... 0.005 %
Co ..... 0.005 %
Cu ..... 0.001 %

Fe ..... 0.01 %
Na ..... 0.05 %
Ni ..... 0.005 %
Pb ..... 0.005 %
Zn ..... 0.005 %

Code	Packaging
131284.1210	500 g

141284 Chromium(III) Potassium Sulfate 12-hydrate pure

Specifications
Assay (Iodom.) ..... 98 %
pH of 5 % solution ..... > 2.5
Appearance ..... passes test

Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.1 %
Ammonium (NH_4) ..... 0.03 %
Al ..... 0.02 %

Cu ..... 0.005 %
Fe ..... 0.02 %
Ni ..... 0.01 %
Pb ..... 0.01 %

Code	Packaging
141284.1210	500 g

Chromium(VI) Oxide

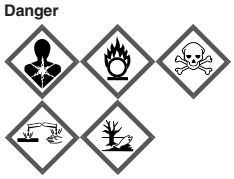
Chromic Acid, Chromic Anhydride, Chromium Trioxide

CrO_3
M = 99.99 g/mol
CAS 1333-82-0
EINECS 215-607-8
CS 28191000
Index Nr. 024-001-00-0

Melting Point ..... 196 °C
Solubility ..... water 1,660 g/l at 20 °C
Solid

UN1463
Class/PG 5.1(6.1)(8)/II
ADR 5.1(6.1)(8)/II · IMDG 5.1(6.1)(8)/II · IATA 5.1(6.1)(8)/II
WGK 3
Storage RT

Danger



H350 H340 H271 H310 H301 H330 H314 H334 H317 H372 H361f H410

121153 Chromium(VI) Oxide (Reag. Ph. Eur.) for analysis

Specifications
Minimum assay (Iodom.) ..... 98.5 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.005 %

Sulfate (SO_4) ..... 0.05 %
Precipitated substances
by NH_4OH ..... 0.05 %
Al ..... 0.005 %
Ba ..... 0.005 %
Ca ..... 0.005 %
Cd ..... 0.005 %

Cu ..... 0.005 %
Fe ..... 0.01 %
K ..... 0.005 %
Na ..... 0.2 %
Pb ..... 0.005 %
Zn ..... 0.005 %

Code	Packaging
121153.1610	500 g
121153.1611	1000 g

Chymostatin

CAS 9076-44-2
CS 29419000

Solid

WGK 1
Storage -20 °C

A2144 Chymostatin

Mixture of 3 Isomers: (S)-N-[(S)-1-Carboxy-2-phenylethylcarbamoyl]-α-[(S)-2-imino-4-piperidinyl]-glycyl-X-phenylalaninal with X = L-Leu / X = L-Ile / X = L-Val

Specifications
Activity (IC50) ..... approx. 0.3 µg/ml

Code	Packaging
A2144,0005	5 mg
A2144,0010	10 mg

α-Chymotrypsin

M = ~ 25000 g/mol
CAS 9004-07-3
EINECS 232-671-2
CS 35079090

Solid

WGK 1
Storage -20 °C

Danger



H335 H334 H319 H315

A7457 α-Chymotrypsin (USP) pure, pharma grade

Specifications
Assay ..... 90.0-110.0 %
Activity (ca...
on dried sub... ..... min. 1000 U/mg

Microbial limits ..... passes test
Residue on ignition ..... max. 2.5 %

Trypsin ..... max. 1.0 %
Loss on drying
(4 h; 60 °C; vacuum) ..... max. 5.0 %

Code	Packaging
A7457,0100	100 g

НеваРеактив

α-Chymotrypsin Gade I

Origin from bovine pancreas

M = ~ 25000 g/mol
CAS 9004-07-3
EINECS 232-671-2
CS 35079090
Index Nr. 647-011-00-2

Solid

WGK 1
Storage -20 °C

Danger



H315 H319 H334 H335

A4531 α-Chymotrypsin from bovine pancreas Grade I

supplied as salt-free, freeze-dried powder

Specifications
Activity ..... min. 1500 Units/mg
Bacterial plate count .....< 10000 organisms/g
P. aeruginosa, Salmonella, Staphylococcus aureus ..... absent
Trypsin (as % of chymotrypsin activity) ..... max. 2.5 %

Code	Packaging
A4531,0001	1 g
A4531,0005	5 g

Chymotrypsinogen A

Origin from beef pancreas

M = ~ 25000 g/mol
CAS 9035-75-0
CS 35040090

Storage -20 °C

A3975 Chymotrypsinogen A

supplied as salt-free, freeze-dried powder

Specifications
Native activity ..... max. 7 Units/mg
Potential activity ..... min. 1200 Units/mg

Code	Packaging
A3975,0005	5 g

Cineole see Eucalyptol

8-Cinnamoylharpagid see Harpagoside

Ciprofloxacin

$C_{17}H_{18}FN_3O_3$
M = 331.34 g/mol
CAS 85721-33-1
CS 29335995

Solid

Storage RT protected from light

A4589 Ciprofloxacin BioChemica

Specifications
Assay ..... 98.0-102.0 %
Appearance of solution ..... passes test
Appearance ..... off-white to yellowish powder
Heavy metals (as Pb) ..... max. 0.002 %
Identity ..... passes test
Loss on drying ..... max. 1.0 %
Related subst. ..... passes test
Residue on ignition ..... max. 0.1 %
Fluoroquinolinic acid ..... max. 0.2 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.04 %

Code	Packaging
A4589,0001	1 g

Ciprofloxacin Hydrochloride

$C_{17}H_{18}FN_3O_3 \cdot HCl$
M = 367.84 g/mol
CAS 86393-32-0
CS 29335995

Solid

Storage 2-8 °C

A4556 Ciprofloxacin Hydrochloride (Ph. Eur.) pure, pharma grade

Specifications
Assay (HPLC, calc on dried subst.) ..... 98.0-102.0 %
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.002 %
Identity ..... passes test
pH (2.5 %; H_2O) 3.4-4.5
Related subst. (HPLC) ..... passes test
Sulfated ash ..... max. 0.1 %
Fluoroquinolinic acid ..... max. 0.2 %
Water (K.F.) ..... max. 6.7 %

Code	Packaging
A4556,0005	5 g

Citrate buffer solution (1 M, pH 4.0)

CS 38220000

Liquid

Storage RT

A4781 Citrate buffer solution (1 M, pH 4.0)

Specifications
pH (20 °C; adjusted with NaOH) ..... 4.0 ± 0.1

Composition:
Citric acid · H_2O ..... 210.14 g/L

Code	Packaging
A4781,1000	1 L

Citric Acid anhydrous

2-Hydroxy-1,2,3-Propanetricarboxylic acid

$C_6H_8O_7$
M = 192.13 g/mol
CAS 77-92-9
EINECS 201-069-1
CS 29181400

Melting Point ..... 153 °C
Solubility ..... water 622 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H319

131808 Citric Acid anhydrous for analysis, ACS

Specifications
Minimum assay (Acidim.) ..... 99.5 %
Identity ..... IR passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Reduced substances by KMnO4 ..... passes test
Residue on ignition (as SO_4) ..... 0.02 %
Chloride (Cl) ..... 0.001 %
Sulfur compounds (as SO_4) ..... 0.002 %
Phosphate (PO_4) ..... 0.001 %
Oxalate (C_2O_4) ..... 0.005 %
Water (H_2O) ..... 0.5 %
Heavy metals (As Pb) ..... 0.0005 %
As ..... 0.00001 %
Ba ..... 0.001 %
Ca ..... 0.0025 %
Cu ..... 0.00005 %
Fe ..... 0.0001 %
Mg ..... 0.0005 %
Ni ..... 0.0002 %
Pb ..... 0.0002 %
Zn ..... 0.0005 %

Code	Packaging
131808.1210	500 g
131808.1211	1000 g
131808.1214	5 kg
131808.0416	25 kg

НеВаРеактив

141808 Citric Acid anhydrous (USP, BP, Ph. Eur., JP) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 99.5-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Darkened substances
by H_2SO_4 ..... passes test
Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Colour of solution ..... passes test
Residual solvents
(Ph. Eur./USP) ..... passes test
Oxalate (C_2O_4) ..... 0.035 %
Water (H_2O) ..... 0.5 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0001 %
Ba ..... passes test
Ca ..... 0.02 %
Mg ..... 0.005 %
Pb ..... 0.001 %

Code	Packaging
141808.1210	500 g
141808.1211	1000 g
141808.1214	5 kg
141808.0416	25 kg

201808 Citric Acid anhydrous (E-330, F.C.C.) food grade

Specifications
Assay (as $C_6H_8O_7$)
(calc. a.a.s) ..... 99.5-100.5 %
Identity
Citrate ..... passes test
ABS Easily carbon. subst. λ_{max} 470 nm,
not more than 0.52
ABS Polynuc. Hydroc. λ_{max} 280 a 289 nm,
not more than 0.25
ABS Polynuc. Hydroc. λ_{max} 290 a 299 nm,
not more than 0.20
ABS Polynuc. Hydroc. λ_{max} 300 a 359 nm,
not more than 0.13
ABS Polynuc. Hydroc. λ_{max} 360 a 400 nm,
not more than 0.03
Appearance ..... passes test
Residue on ignition, not more than ..... 0.05 %
Oxalate (as $H2C_2O_4$),
not more than ..... 100 ppm
Easily carbonizable substances .... passes test
Tridodecylamine, not more than ..... 0.1 ppm
Arsenic (as As), not more than ..... 1 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 0.5 ppm
Water, not more than ..... 0.5 %
Heavy metals (as Pb), not more than .... 5 ppm
Specifications Regulation (UE) n° 231/2012,
F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation
(EC) n° 1333/2008 and F.C.C.

Code	Packaging
201808.0416	25 kg

Citric Acid 1-hydrate

2-Hydroxy-1,2,3-Propanetricarboxylic Acid

$C_6H_8O_7 \cdot H_2O$
M = 210.14 g/mol
CAS 5949-29-1
EINECS 201-069-1
CS 29181400

Solubility ..... 1630 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H319

131018 Citric Acid 1-hydrate for analysis, ACS, ISO

Specifications
Assay (Acidim.) ..... 99.5-102.0 %
Identity ..... IR passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Darkened substances
by H_2SO_4 ..... passes test
Residue on ignition (as SO_4) ..... 0.02 %
Chloride (Cl) ..... 0.0005 %
Sulfur compounds (as SO_4) ..... 0.002 %
Phosphate (PO_4) ..... 0.001 %
Oxalate (C_2O_4) ..... 0.05 %
As ..... 0.00001 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Al	2	Au	2
B	2	Ba	2
Be	2	Ca	20
Cd	2	Co	2
Cr	2	Cu	0.5
Fe	3	Ge	2
In	2	K	50
Mg	5	Mn	2
Mo	2	Na	50
Ni	2	Pb	2
Pt	2	Sb	2
Si	10	Sn	5
Sr	2	Ti	2
Tl	2		

Code	Packaging
131018.1210	500 g
131018.1211	1000 g
131018.1214	5 kg
131018.0416	25 kg

631018 Citric Acid 1-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade

Specifications
Assay (Acidim.) (calc. a.a.s) ..... 99.5-100.5 %
Identity according to Pharmacopoeias:
(A Ph. Eur) ..... passes test
(B Ph. Eur / USP) ..... IR passes test
(C Ph. Eur) ..... passes test
(D Ph. Eur) ..... passes test
(E Ph. Eur) ..... passes test

Maximum limit of impurities
Appearance of solution
Appearance Clear < formazin I ..... passes test
Appearance Colour ..... < Y7 : < BY7; or GY7
Residue on ignition (as SO_4) ..... 0.1 %
Sulfate (SO_4) ..... 0.0150 %
Readily carbonisable
substances ..... passes test
Residual solvents (Ph. Eur./USP) .passes test
Oxalic acid ($C_2H_2O_4$) ..... 0.0360 %
Water (H_2O) ..... 7.5-9.0 %
Heavy metals (as Pb) ..... 0.0010 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
631018.0416	25 kg

141018 Citric Acid 1-hydrate (USP, BP, Ph. Eur., JP) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.a.s. ..... 99.5-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Darkened substances
by H_2SO_4 ..... passes test
Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Colour of solution ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Oxalate (C_2O_4) ..... 0.035 %
Water (H_2O) ..... 7.5-8.8 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0001 %
Ba ..... passes test
Ca ..... 0.02 %
Mg ..... 0.005 %
Pb ..... 0.001 %

Code	Packaging
141018.1211	1000 g
141018.1214	5 kg
141018.0416	25 kg

201018 Citric Acid 1-hydrate (E-330, F.C.C.) food grade

Specifications
Assay (as $C_6H_8O_7$), calculated
on the anhy. basis ..... 99.5-100.5 %
ABS Easily carbon. subst. λ_{max} 470 nm,
not more than 0.52
ABS Polynuc. Hydroc. λ_{max} 300-359 nm,
not more than 0.13
ABS Polynuc. Hydroc. λ_{max} 360-400 nm,
not more than 0.03
ABS Polynuc. Hydroc. λ_{max} 290-299 nm,
not more than 0.2
ABS Polynuc. Hydroc. λ_{max} 280-289 nm,
not more than 0.25
Residue on ignition, not more than ..... 0.05 %
Easily carbonizable substances .... passes test
Oxalate (as Oxalic Ac.) a.d.s ..... 0.01 %
Tridodecylamine, not more than ..... 0.1 ppm
Arsenic (as As), not more than ..... 1 ppm
Mercury (as Hg), not more than ..... 1 ppm
Lead, not more than ..... 0.5 ppm
Water, not more than ..... 8.8 %
Heavy metals (as Pb), not more than .... 5 ppm
Specifications Regulation (UE) n° 231/2012,
F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation
(EC) n° 1333/2008 and F.C.C.

Code	Packaging
201018.1214	5 kg

161018 Citric Acid 1-hydrate for synthesis

Specifications
Assay (titr.) ..... min. 98 %

Code	Packaging
161018.1211	1 kg

HebaPeaktMB

211018 Citric Acid 1-hydrate technical grade

Specifications
Assay (titr.) ..... approx. 97 %

Code	Packaging
211018.1214	5 kg
211018.0415	10 kg
211018.0416	25 kg

A3648 Citric Acid 1-hydrate BioChemica

Specifications
Assay (titr.) .....min. 99.5 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Chloride .....max. 0.005 %
Oxalate .....max. 0.05 %
Sulfate .....max. 0.005 %
A (1 cm/0.1 M in H_2O)
260 nm .....max. 0.05
280 nm .....max. 0.05

Code	Packaging
A3648,1000	1 kg

A1350 Citric Acid 1-hydrate for buffer solutions

Specifications
Assay (titr.) .....min. 99.5 %
Chloride ..... max. 0.01 %
Oxalate .....max. 0.05 %
Sulfate .....max. 0.05 %
Cu .....max. 0.001 %
Fe .....max. 0.005 %
Pb .....max. 0.001 %

Code	Packaging
A1350,1000	1 kg

Citric Acid solution 50 %

CS 38220000
Liquid
WGK 1
Storage RT

Warning



H319

217062 Citric Acid solution 50 % technical grade

Decalcifying Solution

Composition:
Citric acid monohydrate (A1572) ..... 500 g/L

Code	Packaging
217062.1214	5 L
217062.0715	10 L
217062.0716	25 L

Citric Acid solution 15 % w/v

CAS 77-92-9
EINECS 201-069-1
CS 29181400
Density .....1.05 kg/l
Solubility .....Miscible with water
Liquid
Storage RT

Warning



H319

197012 Citric Acid solution 15 % w/v pharma grade

Specifications
Assay (Acidim.) w/v .....14.5 % - 15.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance and colour ..... passes test
Darkened substances by H_2SO_4 ..... passes test
Residue on ignition (as SO_4) .....0.05 %
Sulfate (SO_4) .....0.01 %
Residual solvents (Ph. Eur./USP) .passes test
Oxalate (C_2O_4) .....0.035 %
Heavy metals (as Pb) .....0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
This product has been manufactured with Citric Acid anhydrous which passes Ph. Eur., BP and USP specifications.

Code	Packaging
197012.0719	200 l

Citric Acid Iron(III) Salt see Iron(III) Citrate Hydrate

Citric Acid Magnesium Salt see Magnesium Citrate

Citric Acid tri-Calcium Salt see tri-Calcium di-Citrate 4-hydrate

Citric Acid Tripotassium Salt see tri-Potassium Citrate 1-hydrate

Citric Acid Trisodium Salt Dihydrate see tri-Sodium Citrate 2-hydrate

Citrinin

Antimycin

Origin from *Penicillium citrinum*

$C_{13}H_{14}O_5$
M = 250.25 g/mol
CAS 518-75-2
EINECS 208-257-2
CS 29419000
Melting Point ..... 173-175 °C (dec.)
Solid
UN3462
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage -20 °C
Storage Protected from light

Danger



H301+H311+H331 H351

A7630 Citrinin BioChemica

Specifications
Assay (HPLC) .....min. 99 %

Code	Packaging
A7630,0025	25 mg

Citrosol (Substitute of Xylene)

$C_{10}H_{16}$
M = 136.24 g/mol
CAS 5989-27-5
EINECS 227-813-5
CS 29021900
Index Nr. 601-029-00-7

Melting Point ..... -74 °C
Boiling Point ..... 176 °C
Density ..... 0.842 kg/l
Refractive Index n20/D 1.4743
Liquid

UN2052
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 2
Storage RT

Warning



H226 H315 H317 H410

253139 Citrosol (Substitute of Xylene) for clinical diagnosis

Specifications
Identity ..... IR passes test
Density 20/4 ..... 0.841-0.843
Specific rotation α n20/D (without dil.) ..... 113-120°

Maximum limit of impurities
Water (H_2O) ..... 0.05 %

Code	Packaging
253139.1612	2.5 l
253139.1214	5 l

Claforan see Cefotaxime Sodium Salt

Clark & Lubs Medium see MR-VP Medium (Dehydrated Culture Media) for microbiology

Clavacin see Patulin

Claviformin see Patulin

Cleaning agents deconex® 22 LIQ see deconex® 22 LIQ

Cleaning agents deconex® 22 PF see deconex® 22 PF

Cleaning agents deconex® 25 ORGANACID see deconex® 25 ORGANACID

Cleaning agents deconex® UNIVERSAL 11 see deconex® 11 UNIVERSAL

Cleaning agents deconex® 26 MINERALACID see deconex® 26 MINERALACID

Cleland's Reagent see DTT

Cobalt (III) and Sodium Nitrite see Sodium Hexanitrocobaltate(III)

Cobalthexammine Trichloride see Hexamminecobalt(III) Chloride

Cobalt(II) Acetate 4-hydrate

$Co(CH_3COO)_2 \cdot 4H_2O$
M = 249.08 g/mol
CAS 6147-53-1
EINECS 200-755-8
CS 29152900

Solubility ..... water 380 g/l at 20 °C
Solid

WGK 3
Storage RT

Danger



H350i H360F H334 H317 H341 H410

131255 Cobalt(II) Acetate 4-hydrate (Reag. USP) for analysis, ACS

Specifications
Assay (Compl.) ..... 98.0-102.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %

Non-precipitated substances
by H_2S (as SO_4) ..... 0.3 %
Nitrate (NO_3) ..... 0.01 %
Ca ..... 0.005 %
Cu ..... 0.002 %
Fe ..... 0.001 %
K ..... 0.01 %

Mg ..... 0.005 %
Mn ..... 0.01 %
Na ..... 0.05 %
Ni ..... 0.1 %
Pb ..... 0.001 %
Zn ..... 0.01 %

Code	Packaging
131255.1208	100 g

Cobalt(II) Chloride 6-hydrate

$CoCl_2 \cdot 6H_2O$
M = 237.93 g/mol
CAS 7791-13-1
EINECS 231-589-4
CS 28273930
Index Nr. 027-004-00-5

Melting Point ..... 86 °C
Solubility ..... water 767 g/l at 0 °C
Solid

UN3288
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H350i H360F H302 H334 H317 H341 H410

131257 Cobalt(II) Chloride 6-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Assay (Compl.) ..... 99.0-102.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Ammonium (NH_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %

Non-precipitated substances
by $(NH_4)_2S$ ..... 0.25 %
Nitrate (NO_3) ..... 0.01 %
Ca ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.005 %
K ..... 0.01 %

Mg ..... 0.005 %
Mn ..... 0.01 %
Na ..... 0.05 %
Ni ..... 0.05 %
Pb ..... 0.003 %
Zn ..... 0.002 %

Code	Packaging
131257.1208	100 g
131257.1209	250 g
131257.1214	5 kg

141257 Cobalt(II) Chloride 6-hydrate pure

Specifications
Assay (Compl.) ..... 98 %
Insoluble matter in H_2O ..... 0.01 %
Nitrogen compounds (as N) ..... 0.01 %
Sulfate (SO_4) ..... 0.05 %
Cu ..... 0.005 %
Fe ..... 0.005 %

Pb ..... 0.005 %
Zn ..... 0.1 %

Code	Packaging
141257.1208	100 g
141257.1209	250 g
141257.1211	1000 g
141257.0416	25 kg

НеваРеактив

Cobalt(II) Nitrate 6-hydrate

$Co(NO_3)_2 \cdot 6H_2O$
M = 291.03 g/mol
CAS 10026-22-9
EINECS 233-402-1
CS 28342920

Melting Point ..... 57 °C
Solubility ..... water 1,330 g/l at 20 °C
Solid

UN1477
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 2
Storage RT

Danger



H350i H360F H334 H317 H341 H410

131258 Cobalt(II) Nitrate 6-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Compl.) ..... 98.0-102.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.002 %

Ammonium (NH_4) ..... 0.05 %
Sulfate (SO_4) ..... 0.005 %
Ca ..... 0.005 %
Cu ..... 0.002 %
Fe ..... 0.001 %
K ..... 0.01 %

Mg ..... 0.005 %
Mn ..... 0.01 %
Na ..... 0.05 %
Ni ..... 0.15 %
Pb ..... 0.002 %
Zn ..... 0.01 %

Code	Packaging
131258.1209	250 g

141258 Cobalt(II) Nitrate 6-hydrate pure

Specifications
Assay (Compl.) ..... 98-102 %
Insoluble matter in H_2O ..... 0.01 %

Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.02 %
Cu ..... 0.005 %

Fe ..... 0.005 %
Pb ..... 0.005 %
Zn ..... 0.1 %

Code	Packaging
141258.1211	1000 g

Cobalt(II) Sulfamate solution 10-15 %

CS 38220000

Solid

UN3287
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage RT

Warning



H317 H351

147056 Cobalt(II) Sulfamate solution 10-15 % pure

Specifications
Assay ..... 10-15 %
Fe ..... max. 0.002 %

Ni ..... max. 0.005 %
Pb ..... max. 0.0005 %
Zn ..... max. 0.0001 %

Code	Packaging
147056.0715	10 L

Cobalt(II) Sulfate 7-hydrate

$CoSO_4 \cdot 7H_2O$
M = 281.10 g/mol
CAS 10026-24-1
EINECS 233-334-2
CS 28332930
Index Nr. 027-005-00-0

Melting Point ..... 98 °C
Solubility ..... water 260 g/l at 20 °C
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 3
Storage RT

Danger



H350i H360F H302 H334 H317 H341 H410

141259 Cobalt(II) Sulfate 7-hydrate pure

Specifications
Assay (Compl.) ..... 98 %
pH of 5 % solution ..... ≥ 3.0
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.01 %

Cu ..... 0.005 %
Fe ..... 0.005 %
Pb ..... 0.005 %
Zn ..... 0.01 %

Code	Packaging
141259.1210	500 g
141259.1211	1000 g
141259.0416	25 kg

Cobaltous Sulfate see Cobalt(II) Sulfate 7-hydrate

Cobaltvitriol see Cobalt(II) Sulfate 7-hydrate

Cochenille Red (C.I. 16255)

Acid Red 18, Cochenille Red A, Neucoccin, Cochineal, Ponceau 4R

$C_{20}H_{11}N_2Na_3O_{10}S_3$
M = 604.46 g/mol
CAS 2611-82-7
EINECS 220-036-2
CS 32041200

Solid

Storage RT

A4291 Cochenille Red (C.I. 16255)

Specifications
Assay ..... min. 75 %
UV spectrum ..... passes test

Code	Packaging
A4291,0025	25 g

Cochineal see Cochenille Red (C.I. 16255)

COD Standard see COD Standard (3000 ppm)

Coenzyme A free acid

CoA-SH

$C_{21}H_{36}N_7O_{16}P_3S$
M = 767.54 g/mol
CAS 85-61-0
EINECS 201-619-0
CS 29349990

Solid

Storage -20 °C

A0812 Coenzyme A free acid BioChemica

lyophil.

Specifications
Assay (enz.) ..... min. 75 %

Code	Packaging
A0812,0025	25 mg
A0812,9010	10 g

Coenzyme A Trilithium Salt 2-hydrate

CoA - Li_3 2-hydrate

$C_{21}H_{33}Li_3N_7O_{16}P_3S \cdot 2H_2O$
M = 821.40 g/mol
CAS 18439-24-2
EINECS 242-317-9
CS 29349990

Solid

Storage -20 °C

A0813 Coenzyme A Trilithium Salt 2-hydrate BioChemica

Specifications
Assay (enzym.) .....min. 95 %

Code	Packaging
A0813,0050	50 mg
A0813,0100	100 mg

Colcemide see Demecolcine

Colchicine

$C_{22}H_{25}NO_6$
M = 399.45 g/mol
CAS 64-86-8
EINECS 200-598-5
CS 29399900
Index Nr. 614-005-00-6

Solid

UN1544
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 3
Storage RT

Danger



H300 H340

A4082 Colchicine BioChemica

Specifications
Assay (HPLC) .....min. 98 %
α20 °C/D; 1 %; EtOH .....-240 to -250°
Identity (IR) ..... passes test
Water (K.F.) .....max. 3 %

Code	Packaging
A4082,0250	250 mg
A4082,0001	1 g
A4082,0005	5 g

Colistin Sulfate

Polymyxin E disulfate

$C_{53}H_{104}N_{16}O_{21}S_2$
M = 1365.64 g/mol
CAS 1264-72-8
CS 29419000

Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage RT protected from light

Danger



H301

A2922 Colistin Sulfate BioChemica

Specifications
Assay (HPLC) .....min. 77 %
Loss on drying .....max. 3.5 %
pH (1 %; H_2O) 4.0-6.0
Sulfate .....16-18 %

Code	Packaging
A2922,0001	1 g
A2922,0050	50 g

Collodion flexible

CS 39122011

Boiling Point .....34.6 °C 1,000 hPa
Density .....0.783 kg/l
Liquid

UN2059
Class/PG 3/I
ADR 3/I · IMDG 3/I · IATA 3/I
Storage RT

Danger



H224 EUH019 H302 EUH066 H336

211279 Collodion flexible technical grade

Specifications
Density 25/4 ..... 0.775-0.790

Code	Packaging
211279.1609	250 ml
211279.1611	1000 ml
211279.0314	5 l
211279.0616	25 l
211279.0619	200 l

Collodion solution 4 % w/v

CS 39122011

Boiling Point .....34.6 °C 1,000 hPa
Density .....0.770 kg/l
Solubility .....Inmiscible with water
Liquid

UN2059
Class/PG 3/I
ADR 3/I · IMDG 3/I · IATA 3/I
Storage below 30 °C

Danger



H224 EUH019 H302 EUH066 H336

141278 Collodion solution 4 % w/v (USP) pure, pharma grade

Specifications
Minimum assay (w/w) .....5.0 %
Identity according to Pharmacopoeias: ..... passes test
Density 25/25 ..... 0.765-0.775

Maximum limit of impurities
Acidity ..... passes test
Residual solvents (USP) ..... passes test

Ethanol ..... 22.0-26.0 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141278.1609	250 ml
141278.1611	1000 ml
141278.0616	25 l

211278 Collodion solution 4-8 % technical grade

Specifications
Density 25/25 ..... 0.765-0.775

Code	Packaging
211278.1611	1000 ml
211278.0616	25 l

Printed on FSC® certified paper from well managed forests

НеваРеактив

Colorada 700-849 nm (green spectrum)

$C_{51}H_{47}Cl_2N_6NaO_7S_2$
M = 1013.98 g/mol
CS 29322985

Solubility soluble in H_2O, MeOH, DMSO, DMF

Storage 2-8 °C
Storage Protected from light

A8845 Colorada 800 A - Triazine

Specifications
Assay ..... min. 95 %
ε ..... 200,000 $M^{-1}cm^{-1}$

Absorption λ_{max} (MeOH) ..... 800 nm
Emission λ_{max} (MeOH) ..... 825 nm
Identity (NMR) ..... passes test

Code	Packaging
A8845,0005	5 mg

Colorada Antibody Labeling Kit

A9368 Colorada 550 Antibody Labeling Kit

CS 38220000

Storage -20 °C
Storage protected from light
Storage under argon

Specifications
Easy to use: 2-vial formulation
Kit is designed to label 1 mg of IgG with a fluorescent dye.

Kit content:
1 vial containing Colorada 550 dye
1 vial containing Colorada AC (activator)
ε (MeOH) ..... 150000 $M^{-1}cm^{-1}$

Absorption λ_{max} (MeOH) ..... 550 nm
Emission λ_{max} (MeOH) ..... 568 nm
Stability ..... max. 4 months

Code	Packaging
A9368,0001	1 Kit
A9368,0005	5 Kit

A9404 Colorada 645 Antibody Labeling Kit

CS 38220000

Storage -20 °C
Storage protected from light
Storage under argon

Specifications
Easy to use: 2-vial formulation
Kit is designed to label 1 mg of IgG with a fluorescent dye.

Kit content:
1 vial containing Colorada 645 dye
1 vial containing Colorada AC (activator)
ε (MeOH) ..... 250,000 $M^{-1}cm^{-1}$

Absorption λ_{max} (MeOH) ..... 648 nm
Emission λ_{max} (MeOH) ..... 667 nm

Code	Packaging
A9404,0001	1 Kit
A9404,0005	5 Kit

A9517 Colorada 678 Antibody Labeling Kit

CS 38220000

Storage -20 °C
Storage protected from light
Storage under argon

Specifications
Easy to use: 2-vial formulation
Kit is designed to label 1 mg of IgG with a fluorescent dye.

Kit content:
1 vial containing Colorada 678 dye
1 vial containing Colorada AC (activator)
ε (MeOH) ..... 195,000 $M^{-1}cm^{-1}$

Absorption λ_{max} (MeOH) ..... 677 nm
Emission λ_{max} (MeOH) ..... 703 nm
Stability ..... min. 4 months

Code	Packaging
A9517,0001	1 Kit
A9517,0005	5 Kit

Colorada DIGE Labeling Kit

A9426 Colorada 490 DIGE Labeling Kit

CS 38220000

Storage -20 °C
Storage protected from light
Storage under argon

Specifications
Easy to use: 2-vial formulation
Kit is designed to label proteins with a fluorescent dye.

Kit content
1 vial containing Colorada 490 DIGE dye
1 vial containing Colorada DIGE AC (activator)
ε (MeOH) ..... 110000 $M^{-1}cm^{-1}$

Absorption λ_{max} (MeOH) ..... 484 nm
Emission λ_{max} (MeOH) ..... 498 nm
Stability ..... max. 6 months

Code	Packaging
A9426,0001	1 Kit
A9426,0005	1 Kit

A9447 Colorada 550 DIGE Labeling Kit

CS 38220000

Storage -20 °C
Storage protected from light
Storage under argon

Specifications
Easy to use: 2-vial formulation
Kit is designed to label proteins with a fluorescent dye.

Kit content
1 vial containing Colorada 550 DIGE dye
1 vial containing Colorada DIGE AC (activator)
ε (MeOH) ..... 150,000 $M^{-1}cm^{-1}$

Absorption λ_{max} (MeOH) ..... 548 nm
Emission λ_{max} (MeOH) ..... 567 nm
Stability ..... min. 6 months

Code	Packaging
A9447,0001	1 Kit
A9447,0005	1 Kit

A9498 Colorada 645 DIGE Labeling Kit

CS 38220000

Storage -20 °C
Storage protected from light
Storage under argon

Specifications
Easy to use: 2-vial formulation
Kit is designed to label proteins with a fluorescent dye.

Kit content
1 vial containing Colorada 645 DIGE dye
1 vial containing Colorada DIGE AC (activator)
ε (MeOH) ..... 250,000 $M^{-1}cm^{-1}$

Absorption λ_{max} (MeOH) ..... 641 nm
Emission λ_{max} (MeOH) ..... 663 nm
Stability ..... min. 6 months

Code	Packaging
A9498,0001	1 Kit
A9498,0005	1 Kit

Complexon-Magnesium Solution

CS 38220000

Density ..... 1.032 kg/l
Liquid

Storage RT

281280 Complexon-Magnesium 0.1 mol/l for volumetric analysis

for complexometry

Composition:
Magnesium Sulfate 7-hydrate ..... 2.47 g
Ethylenediaminetetraacetic Acid
Disodium Salt 2-hydrate ..... 3.73 g
Sodium Hydroxide pellets ..... 0.76 g
Water (s.q.m) ..... 100 ml

Code	Packaging
281280.1211	1000 ml

Concanavalin A see Lectins

Concentrated solution for the sand equivalent determination

CS 38220000

Density .....1.192 kg/l
Liquid

Storage RT

173655 Concentrated solution for the sand equivalent determination

according to NF EN 933-8:1999 and UNE-EN 933-8:2000

Composition:
Calcium Chloride anhydrous .....110-112 g
Glycerol .....475-485 g
Formaldehyde 35-40 % w/v .....12-13 g
Water (s.q.m) .....1000 ml

Code	Packaging
173655.1243	125 ml

Congo Red (C.I. 22120)

Diphenyldiazo-bis-a -Naphthylaminosulphonic AcidSodium Salt, Direct Red 28

$C_{32}H_{22}N_6Na_2O_6S_2$
M = 696.66 g/mol
CAS 573-58-0
EINECS 209-358-4
CS 32041400
Index Nr. 611-027-00-8

Solubility ..... water 40 g/l at 25 °C
Solubility .....alcohol 1 g/l
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H350 H361d

121611 Congo Red (C.I. 22120) for analysis

pH indicator 3,0 blue violet; 5,2 red orange

Specifications
Identity .....IR passes test
A 1 %, 1 cm, λ_{max} 1 (calc. a.d.s.) .....> 150
A 1 %, 1 cm, λ_{max} 2 (calc. a.d.s.) ..... > 200
λ_{max} ABS at pH 3.0 .....563-568 nm
λ_{max} ABS at pH 5.2 .....484-490 nm
T.L.C. .....passes test

Maximum limit of impurities
pH transition interval: blue violet 3.0
pH transition interval: red orange 5.2
Loss on drying at 110 °C .....12 %

Code	Packaging
121611.1605	10 g
121611.1606	25 g

Coomassie® Brilliant Blue G-250 (C.I. 42655)

Brilliant Blue G

$C_{47}H_{48}N_3NaO_7S_2$
M = 854.04 g/mol
CAS 6104-58-1
EINECS 228-058-4
CS 32041200

Solubility .....~ 10 g/L (H_2O)
Solid

WGK 1
Storage RT

A3480 Coomassie® Brilliant Blue G-250 (C.I. 42655)

® registered trademark of Imperial Industries PLC

Specifications
λ_{max} (buffer pH 7.0) ..... 577-584 nm
E 1 %/1 cm, λ_{max} (pH 7.0) 450-570

Code	Packaging
A3480,0010	10 g
A3480,0025	25 g
A3480,0100	100 g

Coomassie® Brilliant Blue R-250 (C.I. 42660)

Xylenebrilliantcyanine, Brilliant Blue R

$C_{45}H_{44}N_3NaO_7S_2$
M = 825.98 g/mol
CAS 6104-59-2
EINECS 228-060-5
CS 32041200

Solid

WGK 2
Storage RT

A1092 Coomassie® Brilliant Blue R-250 (C.I. 42660)

® registered trademark of Imperial Industries PLC

Specifications
λ_{max} (buffer pH 7.0) ..... 554-563 nm
E 1 %,1 cm, λ_{max} ..... > 300 (pH 7.0)

Code	Packaging
A1092,0010	10 g
A1092,0025	25 g
A1092,0100	100 g

Copper Dichloride see Copper(II) Chloride 2-hydrate

Copper metal, powder

Cu
M = 63.54 g/mol
CAS 7440-50-8
EINECS 231-159-6
CS 74061000

Melting Point ..... 1,083 °C
Boiling Point ..... 2,595 °C
Solubility ..... Insoluble in water
Solid

UN3089
Class/PG 4.1/III
ADR 4.1/III · IMDG 4.1/III · IATA 4.1/III
WGK nwg
Storage RT

Warning



H228

141266 Copper metal, powder pure

Specifications
Insoluble matter in HNO_3 .....0.05 %
As ..... 0.001 %
Fe .....0.01 %
Mn .....0.001 %
Ni .....0.005 %
Sb .....0.05 %
Sn .....0.05 %

Code	Packaging
141266.1610	500 g
141266.1611	1000 g

Copper Monoxide see Copper(II) Oxide

Copper, 99 % metal, turnings

Cu
M = 63.54 g/mol
CAS 7440-50-8
EINECS 231-159-6
CS 74062000

Melting Point ..... 1,083 °C
Boiling Point ..... 2,595 °C
Solubility ..... Insoluble in water
Solid

WGK nwg
Storage RT

15A754 Copper, 99 % metal, turnings for synthesis

Specifications
Minimum assay .....99 %

Code	Packaging
15A754.1209	250 g

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Copper(I) Chloride

CuCl
M = 99.00 g/mol
CAS 7758-89-6
EINECS 231-842-9
CS 28273985
Index Nr. 029-001-00-4

Melting Point ..... 422 °C
Boiling Point ..... 1,366 °C
Solubility ..... water 0.06 g/l at 20 °C
Solid

UN2802
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 3
Storage RT

Warning



H302 H410

131265 Copper(I) Chloride for analysis, ACS

Specifications
Minimum assay (Redox.) ..... 95 %

Maximum limit of impurities
Insoluble matter in acid ..... 0.02 %

Sulfate (SO_4) ..... 0.1 %
As ..... 0.001 %
Ca ..... 0.01 %
Fe ..... 0.005 %

K ..... 0.005 %
Na ..... 0.05 %

Code	Packaging
131265.1209	250 g
131265.1211	1000 g
131265.0416	25 kg

Copper(II) Acetate 1-hydrate

$Cu(CH_3COO)_2 \cdot H_2O$
M = 199.65 g/mol
CAS 6046-93-1
EINECS 205-553-3
CS 29152900

Melting Point ..... 115 °C
Boiling Point ..... 240 °C
Solubility ..... water 72 g/l at 20 °C
Solid

WGK 3
Storage RT

Warning



H302

141261 Copper(II) Acetate 1-hydrate pure

Specifications
Assay (Iodom.) ..... 98 %
pH of 5 % solution 5.0-6.0

Insoluble matter in H_2O ..... 0.02 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %

Fe ..... 0.005 %
Ni ..... 0.02 %
Pb ..... 0.01 %

Code	Packaging
141261.1210	500 g

Copper(II) Carbonate Basic see Copper(II) Hydroxide Carbonate

Copper(II) Chloride 2-hydrate

$CuCl_2 \cdot 2H_2O$
M = 170.48 g/mol
CAS 10125-13-0
EINECS 231-210-2
CS 28273985

Melting Point ..... ~ 100 °C
Solubility ..... water 1,150 g/l at 20 °C
Solid

UN2802
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 3
Storage RT

Danger



H301 H319 H335 H315

131264 Copper(II) Chloride 2-hydrate (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Iodom.) ..... 99.0 %
pH of 5 % solution ..... ≥ 3.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %
Non precipitated substances by H_2S ..... 0.1 %

Nitrate (NO_3) ..... 0.015 %
As ..... 0.0005 %
Ba ..... 0.005 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.005 %
Fe ..... 0.005 %

K ..... 0.01 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.01 %
Ni ..... 0.005 %
Zn ..... 0.001 %

Code	Packaging
131264.1210	500 g
131264.1211	1000 g

141264 Copper(II) Chloride 2-hydrate (USP) pure, pharma grade

Specifications
Assay (Iodom.) (calc. a.a.s) ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution ..... ≥ 3.0

Maximum limit of impurities
Insoluble matter in HCl ..... 0.01 %
Loss on drying at 105 °C ..... 20.9-21.4 %
Sulfate (SO_4) ..... 0.005 %
Residual solvents
(Ph. Eur./USP) ..... passes test
As ..... 0.0005 %

Ca ..... 0.005 %
Fe ..... 0.005 %
K ..... 0.01 %
Mg ..... 0.01 %
Na ..... 0.02 %
Ni ..... 0.01 %
Pb ..... 0.03 %

Code	Packaging
141264.1210	500 g
141264.1211	1000 g
141264.1214	5 kg

Copper(II) Ethylenediamine Reagent

CED, Copper(II) Ethylenediamine in solution, Cupriethylendiamine

CAS 14552-35-3
CS 38220000

Density ..... 1.096 kg/l
Solubility ..... Miscible with water

UN1761
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
WGK 3
Storage RT

Danger



H317 H314 H412

172308 Copper(II) Ethylenediamine Reagent

for determination of cellulose paste viscosity

Specifications
pH of 1 % solution 12.0-12.5
Density 20/4 ..... 1.096-1.102

Ratio $C_2H_8N_2/Cu$ ..... 2.00 ± 0.04
Ethylendiamine ..... 2.00 ± 0.10 mol/l
Cu ..... 1.00 ± 0.02 mol/l

Code	Packaging
172308.1611	1000 ml
172308.1612	2.5 l

Copper(II) Hydroxide Carbonate

Copper(II) Carbonate Basic, Malachite

$CuCO_3 \cdot Cu(OH)_2$
M = 221.10 g/mol
CAS 12069-69-1
EINECS 235-113-6
CS 28369911

Melting Point ..... 200 °C
Solubility ..... Insoluble in water
Solid

UN3288
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Warning



H302

141262 Copper(II) Hydroxide Carbonate pure

Specifications
Assay (as Cu) (Iodo... ..... 55 %
Insoluble matter in ... . 0.05 %

Chloride (Cl) ..... 0.1 %
Sulfate (SO_4) ..... 0.05 %

Code	Packaging
141262.1210	500 g
141262.1211	1000 g

Copper(II) Nitrate 3-hydrate

$Cu(NO_3)_2 \cdot 3H_2O$
M = 241.60 g/mol
CAS 10031-43-3
EINECS 221-838-5
CS 28342940

Melting Point ..... 114 °C
Solubility ..... water 2,670 g/l at 20 °C
Solid

UN1477
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 2
Storage RT

Warning



H302 H319 H315

131267 Copper(II) Nitrate 3-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Iodom.) ..... 99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %

As ..... 0.0001 %

Metals by ICP [in mg/Kg (ppm)]
Ca 50
Co 10
Fe 50
K 50
Cd 50
Cr 30
Hg 10
Mg 20
Mn 10
Ni 100
Sb 20
Ti 10
Zn 300
Na 50
Pb 10
Sr 10
V 10

Code	Packaging
131267.1210	500 g
131267.1214	5 kg

141267 Copper(II) Nitrate 3-hydrate pure

Specifications
Assay (Iodom.) ..... 98-103 %
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.02 %

As ..... 0.0001 %
Ca ..... 0.05 %
Fe ..... 0.01 %
Mg ..... 0.01 %
Ni ..... 0.05 %
Pb ..... 0.005 %

Code	Packaging
141267.1210	500 g
141267.1211	1000 g
141267.1214	5 kg

Copper(II) Oxide

CuO
M = 79.55 g/mol
CAS 1317-38-0
EINECS 215-269-1
CS 28255000

Melting Point ..... 1,326 °C
Solubility ..... Insoluble in water. Soluble in diluted acids
Solid

Storage RT

Warning



H302

141269 Copper(II) Oxide pure

Specifications
Assay (Iodom.) ..... 96 %

Insoluble matter in HCl ..... 0.05 %
Sulfur compounds (as SO_4) ..... 0.1 %

Code	Packaging
141269.1211	1000 g

Copper(II) Sulfate anhydrous

$CuSO_4$
M = 159.60 g/mol
CAS 7758-98-7
EINECS 231-847-6
CS 28332500
Index Nr. 029-004-00-0

Solubility ..... water 203 g/l at 20 °C
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H302 H319 H315 H410

122726 Copper(II) Sulfate anhydrous (Reag. USP) for analysis

Specifications
Minimum assay (Iodom.) ..... 98 %
pH of 5 % solution 3.5-4.5

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Loss on drying at 250 °C ..... 1 %

Chloride (Cl) ..... 0.002 %
Nitrogen compounds (as N) ..... 0.005 %
Not precipit. substances by H_2S (as SO_4) ..... 0.15 %
As ..... 0.0001 %
Ca ..... 0.01 %
Fe ..... 0.01 %
K ..... 0.005 %
Mg ..... 0.005 %
Na ..... 0.01 %
Ni ..... 0.005 %
Pb ..... 0.01 %
Zn ..... 0.05 %

Code	Packaging
122726.1209	250 g
122726.1214	5 kg

142726 Copper(II) Sulfate anhydrous (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Iodom.) calc. a.d.s. ..... 99.0-101.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... passes test

Loss on drying at 250 °C ..... 1.0 %
Chloride (Cl) ..... 0.015 %
Residual solvents (Ph. Eur.) ..... passes test

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
As ..... 0.0005 %
Fe ..... 0.015 %
Pb ..... 0.008 %

Code	Packaging
142726.1209	250 g
142726.1211	1000 g
142726.1214	5 kg
142726.0416	25 kg

Copper(II) Sulfate 1-hydrate

$CuSO_4 \cdot H_2O$
M = 177.62 g/mol
CAS 7758-98-7
EINECS 231-847-6
CS 28332500
Index Nr. 029-004-00-0

Melting Point ..... > 110 °C
Solubility ..... water 260 g/l at 20 °C
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H302 H319 H315 H410

212001 Copper(II) Sulfate 1-hydrate technical grade

Specifications
Assay (as $CuSO_4$) (Iodom.) ..... 88 %
Chloride (Cl) ..... 0.05 %
Fe ..... 0.1 %

Code	Packaging
212001.0416	25 kg

Copper(II) Sulfate 5-hydrate

$CuSO_4 \cdot 5H_2O$
M = 249.68 g/mol
CAS 7758-99-8
EINECS 231-847-6
CS 28332500

Solubility ..... 317 g/L (H_2O)
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H302 H315 H319 H410

131270 Copper(II) Sulfate 5-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Assay (Iodom.) ..... 99-101 %
pH of 5 % solution ..... ≥ 3.8

Maximum limit of impurities
Insoluble matter in H_2SO_4 ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.001 %
As ..... 0.0001 %

Metals by ICP [in mg/Kg (ppm)]

Ca	50	Cd	10	K	10
Co	10	Cr	5	Mn	5
Fe	30	Hg	5	Ni	50
Mg	20	Na	50	Pb	50
Si	5	Sr	5	Ti	5
V	5	Zn	300		

Code	Packaging
131270.1210	500 g
131270.1211	1000 g
131270.1214	5 kg

141270 Copper(II) Sulfate 5-hydrate (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Iodom.) ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution ..... ≥ 3.8

Maximum limit of impurities
Appearance of solution ..... passes test
Appearance ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Loss on drying at 250 °C ..... 35.0-36.5 %
Chloride (Cl) ..... 0.01 %
Residual solvents (Ph. Eur.) ..... passes test

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
As ..... 0.0005 %
Fe ..... 0.01 %
Pb ..... 0.005 %

Code	Packaging
141270.1210	500 g
141270.1211	1000 g
141270.1214	5 kg
141270.0416	25 kg

A3880 Copper(II) Sulfate 5-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Insoluble matter ..... passes test
pH (5 %; H_2O) ..... 3.5-4.5 (20 °C)
Chloride ..... max. 0.001 %
As ..... max. 0.00005 %
Ca ..... max. 0.005 %
Fe ..... max. 0.005 %
Pb ..... max. 0.005 %

Code	Packaging
A3880,0500	500 g

Copper(II) Sulfate 0.1 mol/l (0.1M)

$CuSO_4$
M = 159.60 g/mol
CAS 7758-98-7
EINECS 231-847-6
CS 28332500
Index Nr. 029-004-00-0

Density ..... 1.016 kg/l
Liquid

WGK 2
Storage RT

Warning



H411

181271 Copper(II) Sulfate 0.1 mol/l (0.1M) volumetric solution

Indicator: Murexide

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181271.1211	1000 ml

Copper(II) Sulfate solution d.1.053

$CuSO_4$
M = 159.60 g/mol
CAS 7758-98-7
EINECS 231-847-6
CS 28332500
Index Nr. 029-004-00-0

Density ..... 1.053 kg/l
Solubility ..... Miscible with water
Liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H411

253296 Copper(II) Sulfate solution d.1.053 for clinical diagnosis

For hematology, blood density

Specifications
Density 20/4 ..... 1.053 ± 0.001

Code	Packaging
253296.2711	1000 ml

Copper(II) Sulfate solution d.1.055

$CuSO_4$
M = 159.60 g/mol
CAS 7758-98-7
EINECS 231-847-6
CS 28332500
Index Nr. 029-004-00-0

Density ..... 1.055 kg/l
Solubility ..... Miscible with water
Liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H411

253295 Copper(II) Sulfate solution d.1.055 for clinical diagnosis

For hematology, blood density

Specifications
Density 20/4 ..... 1.055 ± 0.001

Code	Packaging
253295.2711	1000 ml

Cordycepic Acid see D(-)-Mannitol

Cosmosiin see Apigenin-7-Glucoside

Cot-1 DNA, human see DNA Cot-I, human

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Creatine Phosphate Disodium Salt 4-hydrate

Phosphocreatine

$C_4H_8N_3Na_2O_5P \cdot 4H_2O$
M = 327.14 g/mol
CAS 922-32-7
EINECS 213-074-6
CS 29299000

Solubility ..... 100 g/L (H_2O)
Solid

Storage 2-8 °C

A2247 Creatine Phosphate Disodium Salt 4-hydrate BioChemica

Specifications
Assay (titr.) .....min. 99 %
Solubility (10 %; H_2O) .....clear, colorless

Free Creatine ..... max. 0.5 %
Water .....20-25 %

Code	Packaging
A2247,0005	5 g

o-Cresol

2-Hydroxytoluene, 2-Methylphenol

C_7H_8O
M = 108.14 g/mol
CAS 95-48-7
EINECS 202-423-8
CS 29071200
Index Nr. 604-004-00-9

Melting Point ..... 30.9 °C
Boiling Point ..... 191 °C
Solubility ..... water 20 g/l at 20 °C
Refractive Index n20/D 1.5361
Solid

UN3455
Class/PG 6.1(8)/II
ADR 6.1(8)/II · IMDG 6.1(8)/II · IATA 6.1(8)/II
WGK 2
Storage Not recommended in areas with a very hot climate

Danger



H311 H301 H314

15A843 o-Cresol, 99 % for synthesis

Specifications
Minimum assay (G.C.) .....99 %

Identity ..... IR passes test
Melting range .....29-31 °C

Code	Packaging
15A843.1611	1000 g

Cross reactivity reduction see CrossDown Buffer

CrossDown Buffer

Cross reactivity reduction, Matrix effect reduction

CS 38220000

Storage -20 °C
Storage shipment at ambient temperature

A6485 CrossDown Buffer

Specifications
Application in ELISA, EIA, Western Blot, Immuno-PCR and Multianalyte-Immunoassay
phosphate-free
Replaces standard sample buffers

ready-to-use; stabilised with 0.1 % ProClin® 300; pH 7.2
Immunoassay buffer for reduction and minimisation of unspecific binding, cross-reactivities and matrix effects

Code	Packaging
A6485,0050	50 ml
A6485,0125	125 ml
A6485,0500	500 ml

Crystal Violet (C.I. 42535+42555)

CAS 548-62-9
EINECS 208-953-6
CS 32041300

Solubility ..... water 50 g/l at 25 °C
Solubility .....alcohol 60 g/l
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 3
Storage RT

Danger



H302 H351 H318 H410

251765 Gentian Violet (C.I. 42535+42555) for clinical diagnosis

for microscopy, bacteria staining according to Gram

Specifications
Identity .....IR passes test

Ratio λ_{max} P +/- 15 nm 0.98-1.25
A 1 %, 1 cm, λ_{max} ..... > 2000
λ_{max} ABS in C_2H_5OH 50 % .....587-590 nm
T.L.C. .....passes test

Maximum limit of impurities
Loss on drying at 110 °C .....10 %

Code	Packaging
251765.1606	25 g
251765.1609	250 g

Crystal Violet (C.I. 42555)

Basic Violet 3, Hexamethylpararosaniline Chloride, Methyl Violet 10 B

$C_{25}H_{30}ClN_3$
M = 407.99 g/mol
CAS 548-62-9
EINECS 208-953-6
CS 32041300

Melting Point ..... 194 °C
Solubility ..... water 4 g/l at 25 °C
Solubility .....alcohol 30 g/l
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 3
Storage RT

Danger



H302 H351 H318 H410

131762 Crystal Violet (C.I. 42555) for analysis, ACS

indicator in non aqueous medium

Specifications
Minimum assay (Spectrophotometric) (a.d.s.) .....90.0 %

Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 0.98-1.25
A 1 %, 1 cm, λ_{max} (a.d.s.) ..... > 2160
λ_{max} ABS in H_2O .....589-594 nm
T.L.C. .....passes test

Maximum limit of impurities
Loss on drying at 110 °C .....7.5 %
Sensitivity as indicator in non-aqueous mediums .....passes test

Code	Packaging
131762.1608	100 g

141762 Crystal Violet (C.I. 42555) (Ph. Fr.) pure, pharma grade

Specifications
Minimum assay (calc. a.a.s) .....95.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test

Insoluble matter in CH_3CH_2OH ..... 0.5 %
Residue on ignition (as SO_4) calc. a.a.s. ..... 2.5 %
Related dyes .....passes test
Water (H_2O) ..... 10 %
Heavy metals (as Pb) ..... 0.002 %

Zn .....passes test
Residual metals (according to EMEA/CHMP/SWP/4446/2000): Zinc compounds as metal catalyst (class 3 classification) can be present. It is below to 500 ppm. It is fully in compliance with the EMEA guideline.

Code	Packaging
141762.0914	5 kg

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

251762 Crystal Violet (C.I. 42555) for clinical diagnosis

for microscopy, bacteria staining

Specifications
Minimum assay (Spectrophotometric) (a.d.s.) ..... 90.0 %
Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 0.98-1.25
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 110 °C ..... 10 %

Code	Packaging
251762.1606	25 g

CTAB see Cetyltrimethylammonium Bromide

CTAB - Lysis buffer

Lysis buffer with CTAB, CTAB extraction solution

CS 38220000

Liquid

WGK 2
Storage RT

A4150 CTAB - Lysis buffer BioChemica

Specifications
pH (20 °C) ..... 8.0 ± 0.1

Composition:
CTAB ..... 20.00 g/L (2 % w/v)
EDTA · Na_2 · $2H_2O$ ..... 7.44 g/L (20 mM)
Sodium chloride ..... 81.82 g/L (1.4 M)
Tris ultrapure ..... 12.11 g/L (100 mM)

Code	Packaging
A4150,0500	500 ml
A4150,1000	1 L

CTP Disodium Salt see Cytidine 5'-Triphosphoric Acid Disodium Salt 2-hydrate

Cucurbitacin I

J SI-124, 2,16α,2,25-Tetrahydroxy-9-methyl-19-Nor-9β,19α-lanosta-1,5,23-triene-3,11,22-trione, Elatericin B

Origin from *Iberis amara*

$C_{30}H_{42}O_7$
M = 514.66 g/mol
CAS 2222-07-3
EINECS 218-736-8
CS 29144090

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage 2-8 °C

Danger



H301+H311

A9553 Cucurbitacin I for HPLC

Specifications
Assay ..... min. 99 %

Code	Packaging
A9553,0010	10 mg
A9553,0020	20 mg
A9553,0050	50 mg

Cupric solution 0.168 mol/l

CS 38220000

Density ..... 1.028 kg/l
Solubility ..... Miscible with water

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H411

624582 Cupric Solution 0.168 mol/l VINIKIT for wine analysis

for determination of reducing sugars in wine, according to Rebelein method

Composition:
Copper(II) Sulfate 5-hydrate ..... 43 g
Sulfuric Acid 96 % ..... 7.485 ml
Water (s.q.m) ..... 1 l

Code	Packaging
624582.1210	500 ml

Cupriethylenediamine see Copper(II) Ethylenediamine Reagent

Cyanidin Chloride

Cyanidol

Origin from *Rosa centifolia*

$C_{15}H_{11}ClO_6$
M = 322.70 g/mol
CAS 528-58-5
EINECS 208-438-6
CS 29329900

Solid

Storage 2-8 °C

A8674 Cyanidin Chloride for HPLC

Specifications
Assay ..... min. 97 %

Code	Packaging
A8674,0020	20 mg

Cyanidin-3-Arabinoside Chloride

Origin from *Vaccinium vitis-idaea*

$C_{20}H_{19}O_{10}Cl$
M = 454.82 g/mol
CAS 57186-11-5
CS 29389090

Storage 2-8 °C

A9556 Cyanidin-3-Arabinoside Chloride for HPLC

Specifications
Assay ..... min. 97 %

Code	Packaging
A9556,0010	10 mg

Cyanidin-3-Glucoside Chloride

Idaein chloride, 3-(Galactosyloxy)-3',4',5,7-Tetrahydroxyflavyliumchlorid

Origin from *Vaccinium vitis-idaea*

$C_{21}H_{21}O_{11}Cl$
M = 484.84 g/mol
CAS 27661-36-5
CS 29389090

Storage 2-8 °C

A9560 Cyanidin-3-Glucoside Chloride for HPLC

Specifications
Assay .....min. 97 %

Code	Packaging
A9560,0010	10 mg

Cyanocobalamin see Vitamin B12

Cyanol FF see Xylene cyanol FF (C.I. 42135)

Cyanomethane see Acetonitrile

γ-Cyclodextrin

Schardinger-γ-Dextrin, Dextrin, Cyclomaltooctaose

$C_{48}H_{80}O_{40}$
M = 1297.14 g/mol
CAS 17465-86-0
EINECS 241-482-4
CS 29400000

Solid

Storage RT

A2148 γ-Cyclodextrin BioChemica

Specifications
Assay (HPLC) .....min. 98 %
α20 °C/D; 1 %, H_2O .....169-175°
Water .....9-14 %

Code	Packaging
A2148,0005	5 g

α-Cyclodextrin

Cyclomaltohexaose, Schardingerα- Dextrin

$C_{36}H_{60}O_{30}$
M = 972.86 g/mol
CAS 10016-20-3
EINECS 233-007-4
CS 29400000

Solid

Storage RT

Warning



H319

A2146 α-Cyclodextrin BioChemica

Specifications
Assay (HPLC) .....min. 98 %
α20 °C/D; 10 %, H_2O .....145-151°

Code	Packaging
A2146,0025	25 g

β-Cyclodextrin

Schardinger-β- Dextrin, Cyclomaltoheptaose

$C_{42}H_{70}O_{35}$
M = 1135.00 g/mol
CAS 7585-39-9
EINECS 231-493-2
CS 29400000

Solid

Storage RT

A2147 β-Cyclodextrin BioChemica

Specifications
Assay (HPLC) .....min. 98 %
α20 °C/D; 1.5 %, H_2O .....159-165°
Loss on drying (2 h; 120 °C) .....max. 14 %

Code	Packaging
A2147,0025	25 g
A2147,0100	100 g

Cyclohexane

Hexahydrobenzene, Hexamethylene, Hexanaphtene

C_6H_{12}
M = 84.16 g/mol
CAS 110-82-7
EINECS 203-806-2
CS 29021100
Index Nr. 601-017-00-1

Melting Point .....6.47 °C
Boiling Point .....80.7 °C
Density .....0.778 kg/l
Refractive Index n20/D 1.4266
Liquid

UN1145
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H315 H304 H336 H410 H400

361250 Cyclohexane for UV, IR, HPLC, ACS

Specifications
Minimum assay (G.C.) .....99.9 %
Density 20/4 .....0.776-0.780

Maximum limit of impurities
APHA colour 10
Acidity .....0.0002 meq/g
Alkalinity .....0.0002 meq/g
Non-volatile matter .....0.0003 %
Darkened substances
H_2SO_4 .....passes test
Water (H_2O) .....0.01 %
Suitability for IR spectrometry: .....passes test
Fluorescence at 254 nm (as quinine) ....1 ppb
Fluorescence at 365 nm (as quinine) ....1 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 208 nm (Cut off) .....≥ 10 %
Transmittance at 210 nm .....≥ 15 %
Transmittance at 220 nm .....≥ 50 %
Transmittance at 230 nm .....≥ 80 %
Transmittance at 240 nm .....≥ 90 %
Transmittance at 250 nm .....≥ 98 %
Transmittance at 260-400 nm .....≥ 99 %
Data of interest in HPLC:
P' + 0.25 E 0.5
Rohrschneider Polarity .....-0.2
Eluotropic value e° (Al_2O_3) 0.4
Sol. H_2O in solv. at 20 °C 0.012
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361250.1611	1000 ml
361250.1612	2.5 l
361250.0515	10 l
361250.0537	30 l

321250 Cyclohexane for pesticide analysis

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 0.776-0.780

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.01 %
Signal ECD of pesticide (Lindane a DDT) (as Lindane) ..... 5 ng/l
Signal FID of 2-Octanol to Tetradecanol (as 2-Octanol) ..... passes test

Code	Packaging
321250.1611	1000 ml
321250.1612	2.5 l
321250.1646	4 l
321250.0515	10 l

131250 Cyclohexane (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.776-0.780
Freezing point ..... > 6.0 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$ .... passes test
Darkened substances by H_2SO_4 ..... passes test
Sulfur compounds (as S) ..... 0.002 %
Aromatic compounds (U.V.) (as C_6H_6) ..... 0.01 %
Cyclohexene (G.C.) ..... 0.01 %
Cyclopentane (G.C.) ..... 0.05 %
Methylcyclohexane (G.C.) ..... 0.05 %
Thiophene ..... passes test
Water (H_2O) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5
As	0.05	Au	0.05
B	0.02	Ba	0.1
Be	0.02	Bi	0.05
Ca	0.5	Cd	0.05
Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Ga	0.02	Ge	0.05
Hg	0.05	In	0.05
K	0.1	Li	0.05
Mg	0.1	Mn	0.02

Code	Packaging
131250.1611	1000 ml
131250.1612	2.5 l
131250.0314	5 l
131250.0316	25 l

141250 Cyclohexane pure

Specifications
Assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.776-0.780
Acidity ..... 0.001 meq/g
Non-volatile matter ..... 0.005 %
Sulfur compounds (as S) ..... 0.005 %
Aromatic compounds (UV) (as C_6H_6) ..... 0.05 %
Cyclohexane (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.05 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141250.1611	1000 ml
141250.1612	2.5 l
141250.0537	30 l

161250 Cyclohexane, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.776-0.780
Non-volatile matter ..... 0.005 %
Water (H_2O) ..... 0.02 %

Code	Packaging
161250.1611	1000 ml
161250.1612	2.5 l
161250.1714	5 l
161250.0515	10 l

211250 Cyclohexane technical grade

Specifications
Assay (G.C.) ..... 99.5 %
Density 20/4 ..... 0.776-0.780
Acidity ..... 0.005 meq/g
Water (H_2O) ..... 0.1 %

Code	Packaging
211250.1611	1000 ml
211250.1612	2.5 l
211250.1714	5 l
211250.3516	25 l

C

Cyclohexanone

Ketohexamethylene, Pimelic Ketone

$CH_2(CH_2)_4CO$
M = 98.14 g/mol
CAS 108-94-1
EINECS 203-631-1
CS 29142200
Index Nr. 606-010-00-7
Melting Point ..... -16.4 °C
Boiling Point ..... 155.6 °C
Density ..... 0.947 kg/l
Solubility ..... water 150 g/l
Refractive Index n20/D 1.4507
Liquid
UN1915
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Warning



H226 H332

131890 Cyclohexanone for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.945-0.948

Maximum limit of impurities
APHA colour 10
Non-volatile matter ..... 0.05 %
Water (H_2O) ..... 0.05 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5
As	0.02	Au	0.05
B	0.05	Ba	0.1
Be	0.02	Bi	0.05
Ca	1	Cd	0.05
Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Ga	0.02	Ge	0.05
Hg	0.02	In	0.05
K	0.1	Li	0.05
Mg	0.2	Mn	0.02
Mo	0.02	Na	0.5
Ni	0.02	P	0.2
Pb	0.1	Pt	0.02
S	0.2	Sb	0.02
Si	0.2	Sn	0.1

Code	Packaging
131890.1611	1000 ml

161890 Cyclohexanone, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.945-0.948
Water (H_2O) ..... 0.1 %

Code	Packaging
161890.1611	1000 ml
161890.1612	2.5 l
161890.1714	5 l

Cycloheximide

Actidion

$C_{15}H_{23}NO_4$
M = 281.36 g/mol
CAS 66-81-9
EINECS 200-636-0
CS 29419000
Index Nr. 613-140-00-8

Melting Point ..... 106-112 °C
Solubility ..... 21 g/L (H_2O)
Solid

UN2811
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 3
Storage RT

Danger



H300 H341 H360D H411

A0879 Cycloheximide BioChemica

Specifications
Assay (HPLC) ..... min. 98 %
α20 °C/D; 1 %, $CHCl_3$ ..... -26 to -32°

Code	Packaging
A0879,0001	1 g
A0879,0005	5 g
A0879,0025	25 g
A0879,0100	100 g
A0879,0250	250 g

3-(Cyclohexylamino)-1-Propanesulfonic Acid see CAPSO

2-(N-Cyclohexylamino)-Ethanesulfonic Acid see CHES

Cyclomaltoheptaose see β-Cyclodextrin

Cyclomaltohexaose see α-Cyclodextrin

Cyclomaltooctaose see γ-Cyclodextrin

D-Cycloserine

D-4-Amino-3-isoxazolindinone

$C_3H_6N_2O_2$
M = 102.10 g/mol
CAS 68-41-7
EINECS 200-688-4
CS 29419000

Melting Point ..... 145 °C
Solid

Storage -20 °C

A1943 D-Cycloserine BioChemica

Specifications
Assay ..... min. 95 %
α20 °C/D; 5 %, 2 N NaOH ..... 108-114°
Loss on drying ..... max. 1 %
pH (10 %; H_2O; 20 °C) 5.5-6.5
Residue on ignition ..... max. 0.5 %
Solubility (10 %; H_2O) ..... clear, colorless

Code	Packaging
A1943,0001	1 g
A1943,0005	5 g
A1943,0025	25 g

A7039 D-Cycloserine (USP) pure, pharma grade

Specifications
Activity ..... min. 900 µg/mg
α20 °C/D; 5 %, 2 N NaOH ..... 108-114°
Condensation products .... max. 0.80 (285 nm)
Crystallinity ..... passes test
Identity ..... passes test
Loss on drying
(3 h, 60 °C, vacuum) ..... max. 1.0 %
pH (10 %; H_2O; 20 °C) 5.5-6.5
Residue on ignition ..... max. 0.5 %

Code	Packaging
A7039,0001	1 g
A7039,0005	5 g

Cynarosid see Luteolin-7-Glucoside

Cysteamine Hydrochloride

2-Mercaptoethylamine Hydrochloride

$C_2H_7NS \cdot HCl$
M = 113.61 g/mol
CAS 156-57-0
EINECS 205-858-1
CS 29309099

Melting Point ..... 66-69 °C
Solubility ..... 400 g/L (H_2O)
Solid

Storage RT under argon

A1546 Cysteamine Hydrochloride BioChemica

Specifications
Assay (titr.) ..... min. 98 %
Solubility (10 %; H_2O) ..... clear, colorless

Code	Packaging
A1546,0025	25 g

L-Cysteine

L-2-Amino-3-Mercaptopropionic Acid

$C_3H_7NO_2S$
M = 121.16 g/mol
CAS 52-90-4
EINECS 200-158-2
CS 29309013

Solubility ..... 280 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H302

15B512 L-Cysteine, 99 % for synthesis

Specifications
Assay ..... 99 %
Identity ..... IR passes test

Code	Packaging
15B512.1208	100 g

HeBaPeaKTMB

Printed on FSC® certified paper from well managed forests

HeBaPeaKTMB

A3694 L-Cysteine BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 5 %, HCl ..... 8-9.5°
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %

Code	Packaging
A3694,0050	50 g
A3694,0100	100 g
A3694,1000	1 kg

A1425 L-Cysteine (DAB) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.0-101.0 %
α20 °C/D; 12 %, HCl, calc on dried subst. ..... 8-9.5°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying ..... max. 0.5 %
pH (2.5 %; H_2O) 4.5-6.0
Sulfated ash ..... max. 0.1 %
Ninhydrin positive substances ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.04 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.002 %

Code	Packaging
A1425,0500	500 g
A1425,1000	1 kg

L-Cysteine Hydrochloride 1-hydrate

L-2-Amino-3-Mercaptopropionic Acid

$C_3H_7NO_2S \cdot HCl \cdot H_2O$
M = 175.64 g/mol
CAS 7048-04-6
EINECS 200-157-7
CS 29309016
Solubility ..... 650 g/L (H_2O)
Solid
WGK 1
Storage RT

A3665 L-Cysteine Hydrochloride 1-hydrate for cell culture

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... min. 99 %
α20 °C/D; 8 %, 6 M HCl ..... 5.7-6.8°
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Sulfate ..... max. 0.02 %
As ..... max. 0.0001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A3665,0500	500 g

A3698 L-Cysteine Hydrochloride 1-hydrate BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 8 %, 6 M HCl ..... 5.7-6.8°
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Sulfate ..... max. 0.02 %

Code	Packaging
A3698,0050	50 g
A3698,0100	100 g
A3698,0500	500 g

A1702 L-Cysteine Hydrochloride 1-hydrate (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 8 %, HCl 250 g/L, calc on dried subst. ..... 5.5-7.0°
α25 °C/D; 8 %, 6 M HCl ..... 5.7-6.8°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying ..... 8-12 %
Sulfated ash ..... max. 0.1 %
Ninhydrin-positive substances ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.002 %

Code	Packaging
A1702,1000	1 kg

L-Cystine

3,3'-Dithio-bis-(2-Aminopropionic Acid)

$C_6H_{12}N_2O_4S_2$
M = 240.30 g/mol
CAS 56-89-3
EINECS 200-296-3
CS 29309013
Solubility ..... 0.11 g/L (H_2O)
Solid
Storage RT

A3671 L-Cystine Cell culture grade

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (G.C.) ..... min. 99 %
α20 °C/D; 2 %, 1 M HCl ..... -218 to -224°
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
As ..... max. 0.0001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A3671,1000	1 kg

A1703 L-Cystine (Ph. Eur.) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 2 %, 1 M HCl, calc on dried subst. ..... -218 to -224°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying ..... max. 0.5 %
Sulfated ash ..... max. 0.1 %
Ninhydrin-positive substances ..... max. 0.2 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.001 %

Code	Packaging
A1703,0100	100 g
A1703,0500	500 g
A1703,1000	1 kg
A1703,5000	5 kg

HeBaPeaKTMB

L-Cystine Dihydrochloride

3,3'-Dithio-bis-(2-Aminopropionic Acid)

$C_6H_{12}N_2O_4S_2 \cdot 2HCl$
M = 313.22 g/mol
CAS 30925-07-6
EINECS 250-391-9
CS 29309016

Solid

Storage RT

A0622 L-Cystine Dihydrochloride pure

• All amino acids are of non-animal origin

Specifications
Assay (titr.) .....min. 98 %
Identity (IR) ..... passes test
pH (0.1 % ; H_2O; 25 °C; precipitate) 2.0-3.0

Solubility
(0.1 %; 0.05 M NaOH) ..... clear, colourless
Loss on drying ..... max. 1.0 %

Code	Packaging
A0622,0100	100 g
A0622,0500	500 g
A0622,1000	1 kg

Cystine Lactose Electrolyte Deficient Agar see CLED Medium (Dehydrated Culture Media) for microbiology

Cytidine 5'-Triphosphoric Acid Disodium Salt 2-hydrate

CTP Disodium Salt

$C_9H_{14}N_3Na_2O_{14}P_3 \cdot 2H_2O$
M = 563.14 g/mol
CAS 81012-87-5
EINECS 252-849-3
CS 29349990

Solid

Storage -20 °C

A2145 Cytidine 5'-triphosphoric Acid Disodium Salt 2-hydrate BioChemica

Specifications
Assay (HPLC) .....min. 95 %
Water .....max. 15 %

Code	Packaging
A2145,0500	500 mg

Cytochalasin B

Phomin

Origin from *Drechslera dematoidea*

$C_{29}H_{37}NO_5$
M = 479.61 g/mol
CAS 14930-96-2
EINECS 239-000-2
CS 29349990

Melting Point .....215-221 °C
Solid

UN1544
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage -20 °C protected from light

Danger



H300+H310+H330 H361

A7657 Cytochalasin B BioChemica

Specifications
Assay (HPLC) .....min. 98 %
λ_{max} .....220 nm
Solubility (2 %; EtOH) .....clear, colorless

Code	Packaging
A7657,0001	1 mg
A7657,0005	5 mg
A7657,0010	10 mg

Cytochalasin D

Zygosporin A

Origin from *Zygosporium mansonii*

$C_{30}H_{37}NO_6$
M = 507.62 g/mol
CAS 22144-77-0
EINECS 244-804-1
CS 29337900

Melting Point .....255-260 °C
Solid

UN1544
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage -20 °C protected from light

Danger



H300 H361

A7641 Cytochalasin D BioChemica

Specifications
Assay (TLC) .....min. 98 %

Code	Packaging
A7641,0001	1 mg
A7641,0005	5 mg
A7641,0010	10 mg

Cytochrom C from porcine heart

M = ~ 12300 g/mol
CAS 9007-43-6
CS 35040090

Solubility ..... clear, dark-red
Solid

Storage -20 °C

A7674 Cytochrom C from porcine heart BioChemica

Specifications
Assay (photometr., red.) ..... approx. 90 %
Loss on drying .....max. 10 %
Fe ..... approx. 0.3 %

Code	Packaging
A7674,0100	100 mg
A7674,0500	500 mg

Cytosine Deoxyriboside Hydrochloride see 2'-Deoxycytidine Hydrochloride

НеваРеактив

DAB see 3,3'-Diaminobenzidine Tetrahydrochloride

Dansyl Chloride

5-Dimethylaminonaphthalene-1-Sulfonyl Chloride

$C_{12}H_{12}ClNO_2S$
M = 269.75 g/mol
CAS 605-65-2
EINECS 210-092-6
CS 29214900

Melting Point ..... 70 °C
Solubility ..... 10 g/L (H_2O)
Solid

UN3261
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 3
Storage 2-8 °C

Danger



H290 H314

A1119 Dansyl Chloride BioChemica

Specifications
Assay (HPLC) .....min. 98 %

Code	Packaging
A1119,0001	1 g
A1119,0005	5 g
A1119,0025	25 g
A1119,0500	500 g
A1119,1000	1 kg

DAPI

4',6-Diamidino-2-Phenylindole Dihydrochloride

$C_{16}H_{15}N_5 \cdot 2HCl$
M = 350.25 g/mol
CAS 28718-90-3
EINECS 249-186-7
CS 29339980

Melting Point .....approx. 330 °C
Solid

Storage protected from light 2-8 °C

A4099 DAPI for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
Assay (HPLC) .....min. 98 %
Solubility (1 %; H_2O) .....clear
UV spectrum .....complies to standard

Code	Packaging
A4099,0005	5 mg
A4099,0010	10 mg
A4099,0025	25 mg

A1001 DAPI BioChemica

Specifications
Assay (HPLC) .....min. 98 %
Solubility (1 %; H_2O) .....clear
N .....min. 18 %
UV spectrum
λ_{max} ..... 223 nm, 261 nm, 342 nm
λ_{min} ..... 246 nm, 282 nm

Code	Packaging
A1001,0010	10 mg
A1001,0025	25 mg
A1001,0100	100 mg
A1001,0500	500 mg
A1001,9001	1 g
A1001,9010	10 g

D

DBPC see Butylhydroxytoluene

DDTC Sodium Salt see Sodium Diethyldithiocarbamate 3-hydrate

De Man, Rogose, Sharpe, Broth see MRS Broth (Dehydrated Culture Media)

DEA see Diethanolamine

N-Deacetyl-N-methylcolchicine see Demecolcine

Decahydronaphthalene, 98 % isomers mixture

Decalin

$C_{10}H_{18}$
M = 138.25 g/mol
CAS 91-17-8
EINECS 202-046-9
CS 29021900

Melting Point .....< -45 °C
Boiling Point .....189-191 °C
Density .....0.883 kg/l
Refractive Index n20/D 1.4742
Liquid

UN1147
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 2
Storage RT

Danger



H226 H331 H315 H319 H335 H411

15A758 Decahydronaphthalene, 98 % isomers mixture for synthesis

Specifications
Minimum assay (G.C.) (cis+trans) ..... 98 %
Identity .....IR passes test

Density 20/4 .....0.880-0.885
Water (H_2O) .....0.05 %

Code	Packaging
15A758.1611	1000 ml
15A758.1714	5 l

Decalin see Decahydronaphthalene, 98 % isomers mixture

1-Decanesulfonic Acid Sodium Salt

Sodium-1-Decane Sulfonate

$C_{10}H_{21}NaO_3S$
M = 244.33 g/mol
CAS 13419-61-9
EINECS 236-525-9
CS 29[illegible]00

Melting Point .....> 300 °C
Solid

Storage RT

367127 1-Decanesulfonic Acid Sodium Salt for HPLC

Specifications
Assay (titr.) .....min. 99 %
Alkylbromide .....max. 0.01 %
Heavy Metals (as Pb) .....max. 0.001 %
Solubility (10 %; H_2O) .....clear, colorless
A (1 cm/0.005 M in water HPLC grade)
200 nm .....max. 0.40
220 nm .....max. 0.05

Code	Packaging
367127.1606	25 g

НеваРеактив

deconex® 11 UNIVERSAL

Cleaning agents deconex® UNIVERSAL 11

CS 34022090 | Liquid | UN1814, Class/PG 8/III, ADR 8/III · IMDG 8/III · IATA 8/III, WGK 1, Storage RT | **Danger**  **H314**

A3547 deconex® 11 UNIVERSAL

liquid, mild alkaline concentrate for cleaning of laboratory instruments

® deconex is a trademark of Borer Chemie AG Zuchwil. Switzerland

Code	Packaging
A3547,5000	5 L

deconex® 15 PF-x

Cleaning agents deconex® 15 PF-x

CS 34022090 | Liquid | UN1814, Class/PG 8/III, ADR 8/III · IMDG 8/III · IATA 8/III, WGK 1, Storage RT | **Danger**  **H314**

A2490 deconex® 15 PF-x

phosphate free, mild alkaline liquid special cleaning agent for manual laboratory cleaning

® deconex is a trademark of Borer Chemie AG Zuchwil. Switzerland

Code	Packaging
A2490,5000	5 L

deconex® 21 CLF

Cleaning agents deconex® 21 CLF

CS 34022090 | Liquid | WGK 1, Storage RT | **Warning**  **H315 H319**

A2481 deconex® 21 CLF

chlorine- and tenside-free, mild alkaline, liquid special main cleansing agent for laboratory dish washers

® deconex is a trademark of Borer Chemie AG Zuchwil. Switzerland

Code	Packaging
A2481,5000	5 L

deconex® 21 SOLID

Cleaning agents deconex® 21 SOLID

CS 34022090 | Solid | WGK 1, Storage RT | **Danger**  **H314 H335**

A0461 deconex® 21 SOLID

chlorine- and tenside-free, mild alkaline, powdered special main cleansing agent for laboratory dish washers

® deconex is a trademark of Borer Chemie AG Zuchwil. Switzerland

Code	Packaging
A0461,9010	10 kg

deconex® 22 LIQ

Cleaning agents deconex® 22 LIQ

CS 34022090 | Liquid | UN1814, Class/PG 8/II, ADR 8/II · IMDG 8/II · IATA 8/II, WGK 1, Storage RT | **Danger**  **H314**

A3565 deconex® 22 LIQ

chlorine-, phosphate- and tenside-free, alkaline, liquid special main cleansing agent for laboratory dish washers

® deconex is a trademark of Borer Chemie AG Zuchwil. Switzerland

Code	Packaging
A3565,5000	5 L
A3565,9010	10 L

НеваРеактив

deconex® 22 PF

Cleaning agents deconex® 22 PF

CS 34022090

Solid

UN1823
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 2
Storage RT

Danger



H314 H335

A3591 deconex® 22 PF

chlorine-, phosphate- and tenside-free, alkaline, powdered special main cleansing agent for laboratory dish washers

® deconex is a trademark of Borer Chemie AG Zuchwil. Switzerland

Code	Packaging
A3591,9010	10 kg

deconex® 25 ORGANACID

Cleaning agents deconex® 25 ORGANACID

CS 34022090

Liquid

WGK 1
Storage RT

Warning



H319

A3545 deconex® 25 ORGANACID

phosphate- and tenside-free, weak acidic, liquid neutralisation agent for laboratory dish washers

® deconex is a trademark of Borer Chemie AG Zuchwil. Switzerland

Code	Packaging
A3545,5000	5 L
A3545,9010	10 L

deconex® 26 MINERALACID

Cleaning agents deconex® 26 MINERALACID

CS 34022090

WGK 1
Storage RT

Warning



H315 H319

A3555 deconex® 26 MINERALACID

tenside-free, acidic, liquid neutralisation agent for laboratory dish washer

® deconex is a trademark of Borer Chemie AG Zuchwil. Switzerland

Code	Packaging
A3555,5000	5 L

Decontamination Bags

Ethidium Bromide decontamination

CS 44029000

Storage RT

A9676 Decontamination Bags

Activated charcoal bags for decontamination of ethidium bromide solutions

Specifications
Content: 25 Decontamination Bags. Each bag (7x7cm size) contains 5 g activated charcoal.

Code	Packaging
A9676,0025	1 piece

Decontamination removal solution for RNase see RNase-ExitusPlus™

Decontamination solution for the removal of DNA and RNA contaminations see DNA-ExitusPlus™

n-Decyl-β-D-Maltoside

$C_{22}H_{42}O_{11}$
M = 482.57 g/mol
CAS 82494-09-5
CS 29329900

Storage 2-8 °C

A6769 *n*-Decyl-β-D-Maltoside for crystallography

Specifications
Assay (HPLC) .....min. 99.5 %
α20 °C/D; 4 %, H_2O .....+53° ± 0.5°
Solubility (10 %; H_2O; 21 °C) ...clear, colorless
Thermal transition .....208 °C (isotropic)
Thermal transition .....89.2 °C (smectic A)
α-Isomere (HPLC) .....max. 0.01 %
n-Decanol (HPLC) .....max. 0.001 %
A (1 cm/1 % in water HPLC grade)
260 nm .....max. 0.04

Code	Packaging
A6769,0005	5 g

Delphinidin Chloride

3,3',4',5,5',7-Hexahydroxyflavylium Chloride

Origin from *Vaccinium myrtillus*

$C_{15}H_{11}O_7Cl$
M = 338.70 g/mol
CAS 528-53-0
EINECS 208-437-0
CS 29329900

Storage 2-8 °C

A9563 Delphinidin Chloride for HPLC

Specifications
Assay .....min. 97 %

Code	Packaging
A9563,0010	10 mg
A9563,0020	20 mg

HebaPeakTMB

Delphinidin-3-Galactoside Chloride

Empetrin

Origin from *Vaccinium myrtillus*

$C_{21}H_{21}ClO_{12}$
M = 500.84 g/mol
CAS 28500-00-7
CS 29389090

Solid

Storage 2-8 °C

A8676 Delphinidin-3-Galactoside Chloride for HPLC

Specifications
Assay .....min. 95 %

Code	Packaging
A8676,0010	10 mg

Delphinidin-3-Glucoside Chloride

Myrtillin, Delphinin

Origin from *Vaccinium myrtillus*

$C_{21}H_{21}ClO_{12}$
M = 500.84 g/mol
CAS 6906-38-3
CS 29389090

Solid

Storage 2-8 °C

A8688 Delphinidin-3-Glucoside Chloride for HPLC

Specifications
Assay .....min. 95 %

Code	Packaging
A8688,0010	10 mg

Delphinin see Delphinidin-3-Glucoside Chloride

DeMan, Rogose, Sharpe Agar see MRS Agar (Dehydrated Culture Media) (ISO15214) for microbiology

Demecolcine

Colcemide, N-Deacetyl-N-methylcolchicine

$C_{21}H_{25}NO_5$
M = 371.44 g/mol
CAS 477-30-5
EINECS 207-514-6
CS 29399900

Melting Point .....182-185 °C
Solid

UN2811
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage 2-8 °C

Danger



H301

A4347 Demecolcine BioChemica

Specifications
Assay (HPLC) .....min. 98 %
Identity ..... passes test

Code	Packaging
A4347,0025	25 mg

Demethylpterocarpin see (-)-Maackiain

Denhardt's powder mixture (for 50X stock solution)

CS 38220000

Solid

Storage 2-8 °C

A3792 Denhardt's powder mixture (for 50X stock solution) BioChemica

Composition:
Albumin Fraction V .....0.5 g/50 ml
Ficoll® 400 ..... 0.5 g/50 ml
Polyvinylpyrrolidone K30 ..... 0.5 g/50 ml

Code	Packaging
A3792,0050	50 ml

Denhardt's solution (50X)

CS 38220000

Liquid

Storage -20 °C

A2248 Denhardt's solution (50X) BioChemica

Composition:
Albumin Fraction V .....0.1 g/10 ml
Ficoll® 400 ..... 0.1 g/10 ml
Polyvinylpyrrolidone K30 ..... 0.1 g/10 ml

Code	Packaging
A2248,0010	10 ml

1-(2-Deoxy- see 2'-Deoxythymidine

2-Deoxy-D-Ribose

2-Deoxy-D-Erythropentose, Thyminose

$C_5H_{10}O_4$
M = 134.13 g/mol
CAS 533-67-5
EINECS 208-573-0
CS 29400000

Melting Point .....approx. 90 °C
Solubility ..... 50 g/L (H_2O)
Solid

WGK 1
Storage 2-8 °C

A1885 2-Deoxy-D-Ribose BioChemica

Specifications
Assay .....min. 99 %
α20 °C/D; 1 %, H_2O, 24 h .....-55 to -58°
Heavy metals (as Pb) .....max. 0.002 %
Solubility
(5 %; H_2O) .....clear, colorless to yellowish
Loss on drying .....max. 1 %

Code	Packaging
A1885,0025	25 g

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

27-Deoxyacteine

Origin from *Cimicifuga racemosa*

$C_{37}H_{56}O_{10}$
M = 660.84 g/mol
CAS 264624-38-6
CS 29420000

Solid

WGK 1
Storage 2-8 °C

A5273 27-Deoxyactein for HPLC

Specifications
Assay .....min. 99 %

Code	Packaging
A5273,0010	10 mg
A5273,0020	20 mg

2'-Deoxyadenosine 1-hydrate

9-(2-Deoxy-β-D-Ribofuranosyl)-Adenine, Adenine Deoxyriboside

$C_{10}H_{13}N_5O_3 \cdot H_2O$
M = 269.26 g/mol
CAS 16373-93-6
EINECS 213-488-7
CS 29349990

Melting Point .....187-189 °C
Solid

Storage 2-8 °C

Warning



H302

A2150 2'-Deoxyadenosine 1-hydrate BioChemica

Specifications
Assay (HPLC) .....min. 98.5 %
Water (K.F.) .....max. 10 %

Code	Packaging
A2150,0025	25 g

Deoxycholic Acid

3α,12α-Dihydroxy-5β-cholanoic acid

$C_{24}H_{40}O_4$
M = 392.56 g/mol
CAS 83-44-3
EINECS 201-478-5
CS 29181930

Melting Point .....173-178 °C
Solubility ..... 44 mg/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H302 H315 H319 H335

A2835 Deoxycholic Acid BioChemica

Specifications
Assay (HPLC) .....min. 99 %
Heavy metals ..... max. 0.004 %
Loss on drying .....max. 2 %
Solubility (2 %; EtOH) ..... clear
Cholic acid .....max. 1 %

Code	Packaging
A2835,0100	100 g
A2835,9025	25 kg

Deoxycholic Acid Sodium Salt see Sodium Deoxycholate

2'-Deoxycytidine Hydrochloride

Cytosine Deoxyriboside Hydrochloride, 1-(2-Deoxy-β-D-Ribofuranosyl)-Cytosine Hydrochloride

$C_9H_{13}N_3O_4 \cdot HCl$
M = 263.68 g/mol
CAS 3992-42-5
EINECS 223-639-9
CS 29349990

Melting Point .....168-170 °C
Solid

Storage RT

A2151 2'-Deoxycytidine Hydrochloride BioChemica

Specifications
Assay (HPLC) .....min. 98 %
α20 °C/D; 1 %, H_2O .....54-60°

Code	Packaging
A2151,0005	5 g
A2151,0025	25 g

2'-Deoxyguanosine 1-hydrate

$C_{10}H_{13}N_5O_4 \cdot H_2O$
M = 285.27 g/mol
CAS 961-07-9
EINECS 213-505-8
CS 29349990

Solid

WGK 1
Storage RT

A2152 2'-Deoxyguanosine 1-hydrate BioChemica

Specifications
Assay (HPLC) .....min. 98 %
α20 °C/D; 0.5 %, H_2O .....-31 to -33°

Code	Packaging
A2152,0010	10 g
A2152,0025	25 g

Deoxynivalenol

Vomitoxin, DON

$C_{15}H_{20}O_6$
M = 298.3 g/mol
CAS 51481-10-8
CS 29329900

Solid

UN2811
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage 2-8 °C

Danger



H300

A4360 Deoxynivalenol BioChemica

Specifications
Assay (TLC) .....min. 98 %

Code	Packaging
A4360,0001	1 mg
A4360,0005	5 mg

Deoxyribonuclease I see DNase I

Deoxyribonucleic Acid from salmon sperm see Salmon sperm DNA Sodium Salt

Deoxyribonucleotide - Mix (4 x 10 mM)

Mix of dNTPs (dATP, dCTP, dGTP, dTTP)

CS 29349990

Storage -20 °C. Avoid repeated freeze-thaw cycles.

A9823 Deoxyribonucleotide Mix (4 x 10 mM)

Specifications
fConcentration: 10 mM per dNTP (dATP, dCTP, dGTP, dTTP)

Code	Packaging
A9823,1000	1 ml

Deoxyribonucleotide - Set (4 x 10 mM)

Set of dNTPs (dATP, dCTP, dGTP, dTTP)

CS 29349990

Storage -20 °C. Avoid repeated freeze-thaw cycles.

A9736 Deoxyribonucleotide Set (4 x 10 mM)

Specifications
Concentration: 10 mM per dNTP (dATP, dCTP, dGTP, dTTP)

Code	Packaging
A9736,0200	200 µl
A9736,1000	1 ml

2'-Deoxythymidine

1-(2-Deoxy-β-D-Ribofuranosyl)-Thymine

$C_{10}H_{14}N_2O_5$
M = 242.23 g/mol
CAS 50-89-5
EINECS 200-070-4
CS 29349990

Melting Point .....186-188 °C
Solubility ..... 50 g/L (H_2O)
Solid

WGK 1
Storage RT

A2265 2'-Deoxythymidine BioChemica

Specifications
Assay (HPLC) .....min. 98 %
α20 °C/D; 1 %, H_2O ..... 18-20°
Heavy metals .....max. 0.001 %

Code	Packaging
A2265,0025	25 g
A2265,0100	100 g

DEPC

Diethylpyrocarbonate, Diethyldicarbonate

$C_6H_{10}O_5$
M = 162.14 g/mol
CAS 1609-47-8
EINECS 216-542-8
CS 29209085

Boiling Point .....160-163 °C
Density .....1.122 kg/l (20 °C)
Refractive Index n20/D 1.398
Liquid

Storage 2-8 °C

Warning



H302+H332 H315 H319 H335

A0881 DEPC BioChemica

Specifications
Assay (NT) .....min. 97 %

Code	Packaging
A0881,0020	20 ml
A0881,0050	50 ml
A0881,0100	100 ml
A0881,0250	250 ml
A0881,0500	500 ml

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

Derma-ExitusPlus™

HHDK, Skin decontamination reagent (nucleic acids)

CS 38220000 Storage RT

A8740 Derma-ExitusPlus™

Specifications
The first skin-friendly nucleic acid decontamination reagent!
Removes DNA and RNA contaminations from hands and skin
Dermatologically tested!

Delivered as spray bottles (100 ml and 250 ml)
The special features:
Non-enzymatic degradation of DNA and RNA by catalytic and cooperative effects of the components

All components of Derma-ExitusPlus™ are readily biologically degradable and not harmful or toxic for humans.
Doesn't contain aggressive mineralic acids or alkaline substances

Code	Packaging
A8740,0250	250 ml

DERQUIM DSF 11 Antiseptic for surfaces and implements LIQUID

CS 34022090

Density .....1.01 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H302 H319 H315 H317

504994 DERQUIM DSF 11 Antiseptic for surfaces and implements LIQUID

for disinfecting floors, walls and objects

Specifications
Density 20/4 ..... 1.005-1.015

Disinfectant activity
(minimum inhibitor concentration)
E. coli .....0.5 %

S. aureus .....1 %
A. niger .....0.2 %

Code	Packaging
504994.1214	5 l

DERQUIM LA 11 Slightly alkaline SOLID

CS 34022090

Solubility ..... Soluble in water.
Solid

UN3262
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Danger



H302 H314

502603 DERQUIM LA 11 Slightly alkaline SOLID

free of surfactant substances.Solid in powder. pH (3 g/l solution) ~ 11,2. Soft residues removing

Specifications
pH of 5 % solution 12-13

Code	Packaging
502603.1245	2 kg
502603.0415	10 kg
502603.0416	25 kg

DERQUIM LA 12 Alkaline SOLID

CS 34022090

Solubility ..... Soluble in water.
Solid

UN3262
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H302 H314

502604 DERQUIM LA 12 Alkaline SOLID

free of surfactant substances.Solid in powder. pH (3 g/l solution) ~ 12,3. Removing of dry residues

Specifications
pH of 5 % solution 12.5-13.5

Code	Packaging
502604.1245	2 kg
502604.0415	10 kg
502604.0416	25 kg

DERQUIM LA 13 Alkaline with detergents SOLID

CS 34022090

Solubility ..... Soluble in water.
Solid

UN3262
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H302 H314

502605 DERQUIM LA 13 Alkaline with detergents SOLID

Solid in powder. pH (3 g/l solution) ~ 12,2. Grease removing

Specifications
pH of 5 % solution 12-14

Code	Packaging
502605.1245	2 kg
502605.0415	10 kg
502605.0416	25 kg

DERQUIM LA 14 Slightly alkaline LIQUID

CS 34022090

Density .....1.350 kg/l
Liquid

UN3266
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H302 H314

502606 DERQUIM LA 14 Slightly alkaline LIQUID

free of surfactant substances.pH (4 ml/l solution) ~ 11,2. Soft residues removing

Specifications
pH of 2 % solution 12-13

Code	Packaging
502606.1214	5 l
502606.0716	25 l

DERQUIM LA 15 Alkaline LIQUID

CS 34022090

Density .....1.425 kg/l
Liquid

UN3266
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H302 H314

502607 DERQUIM LA 15 Alkaline LIQUID

free of surfactant substances.pH (4 ml/l solution) ~ 12,2. Removing of dry residues

Specifications
pH sol. 2 % ..... 12 -13
Density 20/4 .....1.42-1.43

Code	Packaging
502607.1214	5 l

DERQUIM LA 21 Acid, with phosphoric acid LIQUID

CS 34022090

Density .....1.375 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Danger



H302 H314

502608 DERQUIM LA 21 Acid, with phosphoric acid LIQUID

Free of surfactant substances.Acid solution withanticorrosive protection. pH (2 ml/l solution) X2,0. Pre-washing agent and neutralizer in post-washing

Specifications
pH sol. 2 % 1.5-1.9
Density 20/4 .....1.355-1.375

Code	Packaging
502608.1214	5 l
502608.1315	10 l

DERQUIM LA 22 Acid, with citric acid LIQUID

CS 34022090

Density .....1.15 kg/l
Liquid

Storage RT

Warning



H302 H319 H315

502609 DERQUIM LA 22 Acid, with citric acid LIQUID

free of phosphates. Solution for washing and neutralization. pH (2 ml/l solution) ~ 3,0

Specifications
pH sol. 2 % 2-3

Code	Packaging
502609.1214	5 l

DERQUIM LM 01 Alkaline LIQUID

CS 34022090

Density .....1.070 kg/l
Liquid

Storage RT

Warning



H302 H319 H315

502600 DERQUIM LM 01 Alkaline LIQUID

pH solution 2 %: 11-12. General use

Specifications
pH of 2 % solution 11-12

Code	Packaging
502600.1214	5 l

DERQUIM LM 02 Neutral, phosphates free LIQUID

CS 34022090

Density .....1.01 kg/l
Liquid

Storage RT

Warning



H302

502601 DERQUIM LM 02 Neutral, phosphates free LIQUID

pH solution 2 %: 8-9. General use for sensitive material

Specifications
pH sol. 2 % 8-9
Density 20/4 ..... 1.008-1.060

Code	Packaging
502601.1214	5 l
502601.1315	10 l
502601.0716	25 l

DERQUIM LM 03 Phosphates free LIQUID

CS 34022090

Density .....1.045 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H302 H319 H315

502602 DERQUIM LM 03 Phosphates free LIQUID

pH solution 2 %: 12-13. General use

Specifications
pH sol. 2 % 12-13
Density 20/4 .....1.045-1.055

Code	Packaging
502602.1214	5 l

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DERQUIM MC Chromic Mixture

Chromic mixture, Chromosulphuric Acid

CS 28415000

Density .....1.826 kg/l
Liquid

UN2240
Class/PG 8/I
ADR 8/I · IMDG 8/I · IATA 8/I
WGK 3
Storage RT

Danger



H350i H340 H272 H314 H317 H411

502612 DERQUIM MC Chromic Mixture

Brown and viscous solution, highly corrosive andoxidizer. For organical residue which can not be eliminated by detergents. D20/4 > 1,80

Specifications
Density 20/4 ..... > 1.80

Code	Packaging
502612.2211	1000 ml

DERQUIM SALT (Sodium Chloride lumps)

NaCl
M = 58.44 g/mol
CAS 7647-14-5
EINECS 231-598-3
CS 25010010

Melting Point ..... 804 °C
Boiling Point ..... 1,413 °C
Solubility ..... water 360 g/l at 20 °C
Solid

Storage RT

503468 DERQUIM SALT (Sodium Chloride lumps)

for deliming of water

Specifications
Identity ..... passes test

Code	Packaging
503468.0415	10 kg
503468.0416	25 kg

DERQUIM + Universal Detergent, LIQUID

CS 34022090

Density .....1.14 kg/l
Liquid

Storage RT

Warning



H302

503574 DERQUIM + Universal Detergent, LIQUID

Biodegradable, without phosphates

Specifications
Density 20/4 ..... 1.130-1.145

Code	Packaging
503574.1211	1000 ml
503574.1214	5 l
503574.1315	10 l

Desiccant see Calcium Chloride granulated

Detergent Acid Solution

CS 38220000

Density .....1.031 kg/l
Liquid

UN3265
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H315

175055 Detergent Acid Solution

Composition:
N-Cetyl-N,N,N-Trimethylammonium Bromide
(in H_2SO_4 1 N) .....20 g/l

Code	Packaging
175055.1214	5 l

Detergent Neutral Solution

CS 38220000

Density .....1.020 kg/l
Liquid

Storage RT

175054 Detergent Neutral Solution

Composition:
Sodium Dodecyl Sulfate .....30.0 g/l
Ethylenediaminetetraacetic Acid
Disodium Salt 2-hydrate .....18.6 g/l

di-Sodium tetra-Borate 10-hydrate ..... 6.8 g/l
di-Sodium Hydrogen Phosphate
anhydrous ..... 4.6 g/l

Triethylene Glycol ..... 10 ml/l
pH: 7.0 ± 0.1

Code	Packaging
175054.1214	5 l

DEV-Nutrient Agar see Nutrient Agar, DEV

Dexamethason

9α-Fluoro-16α-Methylprednisolone

$C_{22}H_{29}FO_5$
M = 392.47 g/mol
CAS 50-02-2
EINECS 200-003-9
CS 29372200

Melting Point .....250-260 °C
Solid

WGK 2
Storage RT

Danger



H315 H317 H319 H334 H335

A2153 Dexamethason BioChemica

Specifications
Assay (UV) .....min. 97 %
α20 °C/D; 1 %, EtOH .....86-92°
Loss on drying ..... max. 0.5 %

Code	Packaging
A2153,0500	500 mg

Dextran 40

$(C_6H_{10}O_5)_n$
M = ~ 40000 g/mol
CAS 9004-54-0
EINECS 232-677-5
CS 39139000

Solid

WGK 2
Storage RT

A2249 Dextran 40 BioChemica

endotoxin-free

Specifications
Endotoxin test ..... passes test

Code	Packaging
A2249,0100	100 g
A2249,0500	500 g
A2249,9025	25 kg

Dextran 70

$(C_6H_{10}O_5)_n$
M = ~ 70000 g/mol
CAS 9004-54-0
EINECS 232-677-5
CS 39139000

Solid

Storage RT

A1847 Dextran 70 BioChemica

endotoxin-free

Specifications
Endotoxin test ..... passes test

Code	Packaging
A1847,0100	100 g
A1847,0500	500 g
A1847,5000	5 kg

Dextran Sulfate 40 Sodium Salt

CAS 9011-18-1
CS 39139000

Solid

WGK nwg
Storage 2-8 °C

A3261 Dextran Sulfate 40 Sodium Salt BioChemica

Specifications
average mol wt .....approx. 40,000 g/mol
Loss on drying .....max. 10 %
Sulfated ash ..... 40-50 %
Chloride ..... max. 0.01 %
Ca ..... max. 0.02 %
Fe ..... max. 0.1 %
Pb ..... max. 0.0005 %

Code	Packaging
A3261,0100	100 g
A3261,0250	250 g

Dextran Sulfate 500 Sodium Salt

CAS 9011-18-1
CS 39139000

Solid

WGK nwg
Storage 2-8 °C

A4970 Dextran Sulfate 500 Sodium Salt for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
average mol wt .....approx. 500,000 g/mol
Loss on drying .....max. 10 %
pH (1 %; H_2O) 5.0-7.5
Solubility (10 %; H_2O) ..... clear, colorless
Sulfated ash .....40-50 %
Chloride .....max. 0.01 %
Fe .....max. 0.0002 %

Code	Packaging
A4970,0050	50 g
A4970,0100	100 g

A2250 Dextran Sulfate 500 Sodium Salt BioChemica

Specifications
average mol wt .....approx. 500,000 g/mol
Loss on drying .....max. 10 %
pH (1 %; H_2O) 5.0-7.5
Solubility (10 %; H_2O) .....clear, colorless
Sulfated ash .....40-50 %
Chloride ..... max. 0.01 %
Fe ..... max. 0.0002 %

Code	Packaging
A2250,0050	50 g
A2250,0100	100 g
A2250,0250	250 g

DextraSEC 384W

Gelfiltration Plate for Dye Terminator Removal

CS 38220000

Storage 2-8 °C
Storage Do not freeze!

A9595 DextraSEC 384W

Specifications
384 well gel filtration plate for automated DNA sequenzing
Package contains 2 (A9595,02384), 25 (A9595,25384) or 50 (A9595,50384) plates
Column material: AppliXchange G-50SF
Max. sample volume: 10 µl (well volume: 135 µl)
Elution volume: approx. same as sample volume
Applications:
For nucleic acids > 20 bp
Main application: Removes DyDeoxy and BidDye terminators from DNA sequenzing reactions
For high-throughput - 384 well may be processed simultaneously

Code	Packaging
A9595,02384	2 Plates
A9595,25384	25 Plates
A9595,50384	50 Plates

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

DextraSEC 96W

Dye Terminator Removal by Gel Filtration

CS 38220000

Storage Do not freeze!
Storage 2-8 °C

A8595 DextraSEC 96W

Specifications
Hydrated gel filtration column for nucleic acid purification
1 package contains 2 (A8595,0296) or 25 (A8595,2596) 96-well plates
Column matrix: AppliXchange G-50SF
max. sample volume: 15 µl
Oligonucleotides should be 10 bp and more
Applications:
Oligo desalting
Main application: Dye Terminator Removal
Removal of ammonia

Code	Packaging
A8595,0296	1 pack
A8595,2596	1 pack

DextraSEC 96W-large

Gelfiltration Plate for Dye Terminator Removal

CS 38220000

Storage Do not freeze!
Storage 2-8 °C

A9757 DextraSEC 96W-large

Specifications
96 well gel filtration plate for automated DNA sequenzing (with large well, 1000 µl)
1 package contains 2 (A9757,0296), 25 (A9757,2596) or 50 (A9757,5096) plates
Column matrix: AppliXchange G-50SF
Max. sample volume: 40 µl (well volume: 1000 µl)
Elution volume: approx. same as sample volume
Applications:
For nucleic acids > 20 bp
Main application: Removes DyDeoxy and BidDye terminators from DNA sequenzing reactions
All 96 well may be processed simultaneously

Code	Packaging
A9757,0296	2 Plates
A9757,2596	25 Plates
A9757,5096	50 Plates

DextraSEC 8-Strips Spin

Nucleic Acids Gel Filtration

CS 38220000

Storage Do not freeze!
Storage RT

A9719 DextraSEC 8-Strips Spin

Specifications
Sample volume: 20-60 µl
Strips with 8 Columns for Dye Terminator Removal
Elution volume: approx. same as sample volume
Size exclusion: > 16 bp
Application:
The unique 8-column strip design allows easy medium-throughput processing
Provide excellent recovery of DNA fragments with sizes bigger than 16 base pairs (or 25-mer) while removing > 99 % of salts, dyes, NTP's and other unwanted low molecular weight impurities

Code	Packaging
A9719,0012	12 strips

DextraSEP FPLC1

Gel Filtration FPLC

CS 38220000

Storage RT
Storage Do not freeze!

A9790 DextraSEP FPLC1

Specifications
Column matrix volume: 1 ml
FPLC size ecxlusion chromatography columns for desalting samples using liquid chromatography systems
Column matrix: AppliXchange G25-SF. This matrix consists of spherical polymers and is characterized by high flow rates, excellent resolution and chemical stability. Influences by buffering and pH effects are minimal.
Sample volume: 0.1-0.3 ml • Flow rate: 1 to 10 ml/min • max. backpressure: 3 bar
Size exclusion cut-off: approximately 5 kDa.
The fractionation range for globular proteins is between 1 and 5 kDa.
Applications:
DextraSEP desalting Columns are designed for separating larger biomolecules (i.e. proteins such as antibodies, enzymes or larger nucleic acids) from unwanted smaller molecules
Buffer exchange, desalting, removal of low molecular weight contaminants, and reaction terminations
Simple, rapid and reproducible separation using a syringe, pump or liquid chromatography system (FPLC)

Code	Packaging
A9790,0005	5 columns
A9790,0100	100 columns

DextraSEP FPLC5

Gel Filtration FPLC

CS 38220000

Storage RT
Storage Do not freeze!

A9749 DextraSEP FPLC5

Specifications
Column matrix volume: 5 ml
FPLC size ecxlusion chromatography columns for desalting samples using liquid chromatography systems
Column matrix: AppliXchange G25-SF. This matrix consists of spherical polymers and is characterized by high flow rates, excellent resolution and chemical stability. Influences by buffering and pH effects are minimal.
Sample volume: 0.1-1.5 ml • Flow rate: 1 to 10 ml/min • max. backpressure: 3 bar
Size exclusion cut-off: approximately 5 kDa.
The fractionation range for globular proteins is between 1 and 5 kDa.
Applications:
DextraSEP desalting Columns are designed for separating larger biomolecules (i.e. proteins such as antibodies, enzymes or larger nucleic acids) from unwanted smaller molecules
Buffer exchange, desalting, removal of low molecular weight contaminants, and reaction terminations
Simple, rapid and reproducible separation using a syringe, pump or liquid chromatography system (FPLC)

Code	Packaging
A9749,0005	5 columns
A9749,0100	100 columns

DextraSEC Mini-spinNA Desalt (G-25)

Nucleic Acid Gelfiltration Mini Spin Columns

CS 38220000

Storage RT
Storage Do not freeze!

A9700 DextraSEC Mini-spinNA Desalt (G-25)

Specifications
Gelfiltration columns for nucleic acid purification
Column matrix: AppliXchange G-25SF. Hydrated with pure, deionized water. Pre-swollen, pre-packed and ready to use
Sample volume: 10-[illegible] (50 µl optimal)
Elution volume: approx. same as sample volume
Size exclusion: DNA > 10 bp
Applications:
For rapid removal of salts, dyes and other small molecules from nucleic acids
Purified nucleic acids are eluted into pure, deionized water

Code	Packaging
A9700,0004	4 columns
A9700,0025	25 columns
A9700,0100	100 columns

DextraSEC Mini-spinNA Desalt (G-50)

Nucleic Acid Gelfiltration Mini Spin Columns

CS 38220000

Storage RT
Storage Do not freeze!

A8563 DextraSEC Mini-spinNA Desalt (G-50)

Specifications
Gelfiltration columns for nucleic acid purification
Column matrix: AppliXchange G-50SF. Hydrated with pure, deionized water. Pre-swollen, pre-packed and ready-to-use
Sample volume: 10-100 µl
Elution volume: approx. same as sample volume
Size exclusion: DNA > 16 bp (oder 25-mer)
Purified nucleic acids are eluted into pure, deionized water
Applications:
Rapid removal of dyes and dideoxy terminators from sequencing reactions
Desalting of oligonucleotides

Code	Packaging
A8563,0004	4 columns
A8563,0025	25 columns
A8563,0100	100 columns

DextraSEC Mini-spinPRO Desalt (G-25)

Gel Filtration Mini Spin Columns

CS 38220000

Storage RT
Storage Do not freeze!

A9724 DextraSEC Mini-spinPRO Desalt (G-25)

Specifications
Gelfiltration columns for purification of proteins
Column matrix: AppliXchange G-25SF. Hydrated with pure deionized water. Pre-swollen, pre-packed and ready-to-use
Sample volume: 10-100 µl (optimum 50 µl)
Elution volume: approx. same as sample volume
Size exclusion: protein approx. 5 kDa
Purified proteins are eluted into pure, deionized water. (Please note, some proteins may precipitate in pure water with low ionic strength!)
Applications:
For quick and efficient desalting, buffer exchange and/or removal of dyes and small molecules from proteins greater than 5 kDa
For a quick buffer exchange

Code	Packaging
A9724,0004	4 columns
A9724,0025	25 columns
A9724,0100	100 columns

DextraSEC Mini-spinPRO Desalt (G-25), stabilized

Gel Filtration Mini Spin Columns

CS 38220000

Storage RT
Storage Do not freeze!

A9708 DextraSEC Mini-spinPRO Desalt (G-25), stabilized

Specifications
Gelfiltration columns for purification of proteins
Column matrix: AppliXchange G-25SF. Hydrated with pure deionized water and stabilized with 0.02 % Sodium azide. Pre-swollen, pre-packed and ready-to-use
Sample volume: 10-100 µl
Elution volume: approx. same as sample volume
Size exclusion: protein approx. 5 kDa
Purified proteins are eluted into deionized water with 0.02 % Sodium azide. (Please note, some proteins may precipitate in pure water with low ionic strength!)
Applications:
Removal of dyes and small molecules from proteins greater than 5 kDa

Code	Packaging
A9708,0004	4 columns
A9708,0025	25 columns
A9708,0100	100 columns

DextraSEC Mini-spinPRO Desalt (G-50)

Gel Filtration Mini Spin Columns

CS 38220000

Storage RT
Storage Do not freeze!

A9776 DextraSEC Mini-spinPRO Desalt (G-50)

Specifications
Gelfiltration columns for purification of proteins
Column matrix: AppliXchange G-50SF. Hydrated with pure, deionized water. Pre-swollen, pre-packed and ready-to-use
Sample volume: 10-100 µl
Elution volume: approx. same as sample volume
Size exclusion: protein approx. > 25 kDa
Applications:
For quick and efficient desalting, buffer exchange and/or removal of dyes and small molecules from proteins greater than 25 kDa
Purified proteins are eluted into pure, deionized water. (Please note, some proteins may precipitate in pure water with low ionic strength!)

Code	Packaging
A9776,0004	4 columns
A9776,0025	25 columns
A9776,0100	100 columns

DextraSEC Mini-spinPRO PBS (G-25)

Gel Filtration Mini Spin Columns

CS 38220000

Storage RT
Storage Do not freeze!

A8566 DextraSEC Mini-spinPRO PBS (G-25)

Specifications
Gelfiltration columns for purification of proteins
Column matrix: AppliXchange G-25SF. Hydrated with Phosphate Buffered Saline pH 7. Pre-swollen, pre-packed and ready-to-use
Sample volume: 10-100 µl 10-100 µl (50 µl optimal)
Elution volume: approx. same as sample volume
Size exclusion: protein approx. 5 kDa
Purified proteins are eluted into PBS (Phosphate Buffered Saline) pH 7
Applications:
For quick buffer exchange
Removal of dyes and small molecules from proteins greater than > 5 kDa

Code	Packaging
A8566,0004	4 columns
A8566,0025	25 columns
A8566,0100	100 columns

DextraSEC Mini-spinPRO PBS (G-50)

Gel Filtration Mini Spin Columns

CS 38220000

Storage RT
Storage Do not freeze!

A9763 DextraSEC Mini-spinPRO PBS (G-50)

Specifications
Gelfiltration columns for purification of proteins
Column matrix: AppliXchange G-50SF. Hydrated with Phosphate Buffered Saline pH 7. Pre-swollen, pre-packed and ready-to-use
Sample volume: 10-100 µl
Elution volume: approx. same as sample volume
Size exclusion: protein approx. > 25 kDa
Applications:
For quick and efficient desalting, buffer exchange and/or removal of dyes and small molecules from proteins greater than 25 kDa
Purified proteins are eluted into Phosphate Buffered Saline (PBS) pH 7

Code	Packaging
A9763,0004	4 columns
A9763,0025	25 columns
A9763,0100	100 columns

HeBaPeakTMB

НеваРеактив

DextraSEC Mini-spinPRO TRIS (G-25)

Gel Filtration Mini Spin Columns

CS 38220000

Storage RT
Storage Do not freeze!

A9692 DextraSEC Mini-spinPRO TRIS (G-25)

Specifications
Gelfiltration columns for purification of proteins
Column matrix: AppliXchange G-25SF. Hydrated with 1 mM TRIS pH 6. Pre-swollen, prepacked and ready-to-use

Sample volume: 10-100 µl 10-100 µl (50 µl optimal)
Elution volume: approx. same as sample volume
Size exclusion: protein approx. 5 kDa

Purified proteins are eluted into Tris buffer 1mM (pH 6)
Applications:
For quick buffer exchange
Removal of dyes and small molecules from proteins greater than > 5 kDa

Code	Packaging
A9692,0004	4 columns
A9692,0025	25 columns
A9692,0100	100 columns

DextraSEC Mini-spinPRO TRIS (G-50)

Gel Filtration Mini Spin Columns

CS 38220000

Storage Do not freeze!
Storage RT

A9741 DextraSEC Mini-spinPRO TRIS (G-50)

Specifications
Gelfiltration columns for purification of proteins
Column matrix: AppliXchange G-50SF. Hydrated with 1 mM TRIS pH 6. Pre-swollen, prepacked and ready-to-use

Sample volume: 10-100 µl
Elution volume: approx. same as sample volume
Size exclusion: protein approx. > 25 kDa
Purified proteins are eluted into Tris buffer 1mM (pH 6)

Applications:
Removal of dyes and small molecules from proteins greater than 25 kDa
Quick buffer exchange

Code	Packaging
A9741,0004	4 columns
A9741,0025	25 columns
A9741,0100	100 columns

DextraSEC NA2

Gel Filtration Nucleic Acids

CS 38220000

Storage Do not freeze!
Storage RT

A8590 DextraSEC NA2

Specifications
Hydrated gel filtration column for nucleic acid purification
contains 2 or 50 columns, respectively

Column matrix: AppliXchange G-25M
max. sample volume: 200 µl
Oligonucleotides should be 10 bp and more
Oligo desalting

Dye Terminator Removal
Removal of ammonia

Code	Packaging
A8590,0002	2 columns
A8590,0050	50 columns

DextraSEC NA10

Gel Filtration Nucleic Acids

CS 38220000

Storage RT
Storage Do not freeze!

A8870 DextraSEC NA10

Specifications
Hydrated gel filtration column for nucleic acid purification
contains 2 or 50 columns, respectively

Column matrix: AppliXchange G-25M
Max. sample volume: 1 ml
Oligonucleotides should be 10 bp and more
Oligo desalting

Dye Terminator Removal
Removal of ammonia

Code	Packaging
A8870,0002	2 columns
A8870,0050	50 columns

DextraSEC NA50

Gel Filtration Nucleic Acids

CS 38220000

Storage RT
Storage Do not freeze!

A9771 DextraSEC NA50

Specifications
Column matrix: AppliXchange G-25M
Hydrated gel filtration column for nucleic acid purification and desalting

Max. sample volume: 5 ml
Elution volume: 6-8 ml
Size exclusion: for nucleic acids / oligonucleotides > 10 bp

Applications:
For rapid separations of nucleic acids from low molecular weight substances, such as ammonia, hapten, biotin

Code	Packaging
A9771,0001	1 column
A9771,0010	10 columns

DextraSEC NA100

Gel Filtration Nucleic Acids

CS 38220000

Storage RT
Storage Do not freeze!

A9798 DextraSEC NA100

Specifications
Column matrix: AppliXchange G-25M
Hydrated gel filtration column for nucleic acid purification and desalting

Max. sample volume: 10 ml
Elution volume: 12-15 ml
Size exclusion: for nucleic acids / oligonucleotides > 10 bp

Applications:
For rapid separations of nucleic acids from low molecular weight substances, such as ammonia, hapten, biotin

Code	Packaging
A9798,0001	1 column
A9798,0010	10 columns

DextraSEC PRO2

Gel Filtration Protein

CS 38220000

Storage RT
Storage Do not freeze!

A8710 DextraSEC PRO2

Specifications
Hydrated gel filtration column for protein purification
Contains 2 or 50 columns, respectively

Column matrix: AppliXchange G-25M
Max. sample volume: 200 µl
Size exclusion cut-off > 5 kDa
Protein desalting

Removal of dyes, biotin etc.
Removal of ammonia

Code	Packaging
A8710,0002	1 pack
A8710,0050	1 pack

НеваРеактив

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DextraSEC PRO5

Gel Filtration Protein

CS 38220000

Storage RT
Storage Do not freeze!

A9715 DextraSEC PRO5

Specifications
Column matrix: AppliXchange G-25M
Hydrated gel filtration column for protein purification and desalting

Sample volume: max. 0.5 ml
Elution volume: max. 1.0 ml
Size exclusion cut-off: proteins > 5 kDa

Applications:
Separating antibodies, enzymes or other proteins from unwanted smaller molecules, such as salts, dyes, ammonia, hapten, biotin

Code	Packaging
A9715,0002	2 columns
A9715,0050	50 columns

DextraSEC PRO10

Gel Filtration Column for Protein Purification, Size-exclusion Chromatography Protein

CS 38220000

Storage RT
Storage Do not freeze!

A8822 DextraSEC PRO10

Specifications
Hydrated gel filtration column for protein purification
Contains 2 or 50 columns, respectively

Column matrix: AppliXchange G-25M
Max. sample volume: 1 ml
Size exclusion cut-off > 5 kDa
Applications

Protein desalting
Removal of dyes, biotin etc.
Removal of ammonia

Code	Packaging
A8822,0002	2 columns
A8822,0050	50 columns

DextraSEC PRO25

Gel Filtration Column for Protein Purification, Size-exclusion Chromatography Protein

CS 38220000

Storage RT
Storage Do not freeze!

A9733 DextraSEC PRO25

Specifications
Hydrated gel filtration column for protein purification
Column matrix: AppliXchange G-25M

Max. sample volume: 2.5 ml
Elution volumne: 2.7-3.5 ml
Size exclusion cut-off > 5 kDa
Applications:

Protein desalting
Removal of dyes, biotin etc.
Removal of ammonia

Code	Packaging
A9733,0002	2 columns
A9733,0025	25 columns

DextraSEC PRO50

Gel Filtration Protein

CS 38220000

Storage RT
Storage Do not freeze!

A9784 DextraSEC PRO50

Specifications
Column matrix: AppliXchange G-25M
Hydrated gel filtration column for protein purification and desalting

Sample volume: max. 5 ml
Elution volume: 6-8 ml
Size exclusion cut-off: proteins > 5 kDa

Applications:
Separating antibodies, enzymes or other proteins from unwanted smaller molecules, such as salts, dyes, ammonia, hapten, biotin

Code	Packaging
A9784,0001	1 column
A9784,0010	10 columns

DextraSEC PRO100

Gel Filtration Protein

CS 38220000

Storage RT Do not freeze!

A9810 DextraSEC PRO100

Specifications
Column matrix: AppliXchange G-25M
Hydrated gel filtration column for protein purification and desalting

Sample volume: max. 10 ml
Elution volume: 12-15 ml
Size exclusion cut-off: proteins > 5 kDa

Applications:
Separating antibodies, enzymes or other proteins from unwanted smaller molecules, such as salts, dyes, ammonia, hapten, biotin

Code	Packaging
A9810,0001	1 column
A9810,0010	10 columns

Dextrin see γ-Cyclodextrin

Dextrin from corn starch see Maltodextrin white

Di-Isopropyl Ether

2,2 -Oxibispropane, 2-iso-Propoxipropane, Diisopropyl Ether, Isopropyl Ether, iso-Propyl Ether

$(CH_3)_2CHOCH(CH_3)_2$
M = 102.18 g/mol
CAS 108-20-3
EINECS 203-560-6
CS 29091990
Index Nr. 603-045-00-X

Melting Point ..... -85.9 °C
Boiling Point ..... 68 °C
Density ..... 0.721 kg/l
Solubility ..... water 12 g/l at 20 °C
Refractive Index n20/D 1.3679
Liquid

UN1159
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 EUH019 EUH066 H336

131314 Di-Isopropyl Ether stabilized with ~ 50 ppm of BHT for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Density 20/4 ..... 0.720-0.723

Maximum limit of impurities
APHA colour 25
Acidity ..... 0.0004 meq/g
Non-volatile matter ..... 0.005 %
Peroxides (as H_2O_2) ..... 0.005 %*

Acetone (G.C.) ..... 0.05 %
2-Propanol (G.C.) ..... 0.3 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Co	0.02	Cr	0.02
As	0.1	Au	0.05	Cu	0.02	Fe	0.1
B	0.02	Ba	0.1	Ge	0.05	Hg	0.05
Be	0.02	Bi	0.05	In	0.05	K	0.1
Ca	0.5	Cd	0.05	Li	0.05	Mg	0.1
				Mn	0.02	Mo	0.02
				Na	0.5	Ni	0.02
				P	0.2	Pb	0.1
				Pt	0.05	Sb	0.02

Code	Packaging
131314.1611	1000 ml
131314.1612	2.5 l
131314.0314	5 l

HeBaPeaKTMB

141314 Di-Isopropyl Ether stabilized with ~ 50 ppm of BHT pure

Specifications
Assay (G.C.) ..... 98 %
Identity ..... IR passes test
Density 20/4 ..... 0.720-0.723
Acidity ..... 0.0008 meq/g
Non-volatile matter ..... 0.01 %
Acetone (G.C.) ..... 0.1 %
2-Propanol (G.C.) ..... 0.5 %
Water (H_2O) ..... 0.3 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141314.1611	1000 ml
141314.0616	25 l

Di-Isopropylamine

Di-2-Propylamine, Diisopropylamine, N-(1-Methylethyl)-2-Propanamine

$C_6H_{15}N$
M = 101.19 g/mol
CAS 108-18-9
EINECS 203-558-5
CS 29211985
Index Nr. 612-129-00-5

Melting Point ..... -96 °C
Boiling Point ..... 84 °C
Density ..... 0.716 kg/l
Refractive Index n20/D 1.3915
Liquid

UN1158
Class/PG 3(8)/II
ADR 3(8)/II · IMDG 3(8)/II · IATA 3(8)/II
WGK 2
Storage RT

Danger



H225 H332 H302 H314

15A771 Di-Isopropylamine, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.715-0.717
Water (H_2O) ..... 0.3 %

Code	Packaging
15A771.1611	1000 ml
15A771.1214	5 l
15A771.0716	25 l

Diacetone Alcohol see 4-Hydroxy-4-Methyl-2-Pentanone

Diacetylmethane see 2,4-Pentanedione

2,7-Diamino-1-ethyl-9-phenylphenanthridium Bromide see Ethidium Bromide

2,7-Diamino-1-ethyl-9-phenylphenanthridium Bromide solution see Ethidium Bromide solution 1 %

3,3'-Diaminobenzidine Tetrahydrochloride

DAB

$C_{12}H_{14}N_4 \cdot 4HCl$
M = 360.12 g/mol
CAS 7411-49-6
EINECS 231-018-9
CS 29215990

Melting Point ..... > 300 °C
Solid

WGK 3
Storage 2-8 °C

Danger



H350 H341

A0596 3,3'-Diaminobenzidine Tetrahydrochloride BioChemica

Specifications
Assay (HPLC) ..... min. 97 %
Water ..... max. 1 %

Code	Packaging
A0596,0001	1 g
A0596,0005	5 g
A0596,0010	10 g

1,2-Diaminocyclohexane-N,N,N',N',-Tetraacetic Acid 1-hydrate

1,2-Cyclohexanediamine Tetraacetic Acid, 1,2-Cyclohexylenedinitrile Tetraacetic Acid, CDTA, Titriplex IV

$C_{14}H_{22}N_2O_8 \cdot H_2O$
M = 364.36 g/mol
CAS 125572-95-4
EINECS 236-308-9
CS 29224985

Melting Point ..... 213-216 °C
Solubility ..... Insoluble in water
Solid

WGK 2
Storage RT

133534 1,2-Diaminocyclohexane-N,N,N',N',-Tetraacetic Acid 1-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Compl.) ..... 97.5-100.5 %
Identity ..... IR passes test

Maximum limit of impurities
Insoluble matter in NaOH ..... passes test
Residue on ignition (as SO_4) ..... 0.2 %
Heavy metals (as Pb) ..... 0.001 %
Fe ..... 0.005 %

Code	Packaging
133534.1208	100 g

1,2-Diaminoethane see Ethylenediamine

Diamond Green see Brilliant Green (C.I. 42040)

Diatom earth see Siliceous Earth purified and calcined

Diatomaceous Earth see Siliceous Earth purified and calcined

Dibenzoyl Peroxide see Benzoyl Peroxide humidified with ~ 25 % of H2

4',5'-Dibromo-2',7'-Dinitrofluorescein Disodium Salt see Eosin B (C.I. 45400)

5',5''-Dibromo-o-Cresolsulphonphthalein see Bromocresol Purple

HeBaPeaKTMB

2,3-Dibromopropionic Acid

2,3-Dibromopropanoic Acid, a-b-Dibromopropionic Acid

$C_3H_4Br_2O_2$
M = 231.89 g/mol
CAS 600-05-5
EINECS 209-981-1
CS 29159070

Melting Point ..... 63-65 °C
Boiling Point ..... 160 °C (20mmHg)
Solid

UN3261
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 3
Storage RT

Danger



H314

15B482 2,3-Dibromopropionic Acid, 98 % for synthesis

Specifications
Minimum assay ..... 98 %

Code	Packaging
15B482.0914	5 kg

N6-2'-O-Dibutyryl-Adenosine 3',5'-Cyclophosphate Sodium Salt 1-hydrate

Bucladesine

$C_{18}H_{23}N_5NaO_8P \cdot H_2O$
M = 509.39 g/mol
CAS 16980-89-5
EINECS 241-059-4
CS 29349990

Solid

WGK 1
Storage -20 °C

A0455 N^6-2'-O-Dibutyryl-Adenosine 3',5'-Cyclophosphate Sodium Salt 1-hydrate

Specifications
Assay (HPLC) ..... min. 98 %
Solubility (10 %; H_2O) ..... clear, colorless
2'-O-MB-cAMP ..... max. 0.5 %
N^6-Monobutyryladenosine-3',5'-cyclophosphate ..... max. 0.5 %

Code	Packaging
A0455,0250	250 mg
A0455,1000	1 g

1,4-Dichlorobenzene

p-Dichlorobenzene

$C_6H_4Cl_2$
M = 147.00 g/mol
CAS 106-46-7
EINECS 203-400-5
CS 29036100
Index Nr. 602-035-00-2

Melting Point ..... 53-54 °C
Boiling Point ..... 174.12 °C
Solubility ..... Insoluble in water
Refractive Index n60/D 1.5285
Solid
Volatile

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H319 H351 H410

15A598 1,4-Dichlorobenzene, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Melting range ..... 52-55 °C
Water (H_2O) ..... 0.1 %

Code	Packaging
15A598.1211	1000 g

1,2-Dichlorobenzene

o-Dichlorobenzene

$C_6H_4Cl_2$
M = 147.00 g/mol
CAS 95-50-1
EINECS 202-425-9
CS 29039100
Index Nr. 602-034-00-7

Melting Point ..... -17 °C
Boiling Point ..... 180 °C
Density ..... 1.307 kg/l
Refractive Index n20/D 1.5515
Liquid

UN1591
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 2
Storage RT

Warning



H302 H319 H335 H315 H410

161892 1,2-Dichlorobenzene, 98 % for synthesis

Specifications
Minimum assay (G.C.) ..... 98 %
Identity ..... IR passes test
Density 20/4 ..... 1.305-1.308
Water (H_2O) ..... 0.05 %

Code	Packaging
161892.1214	5 l

1,2-Dichloroethane

EDC, Ethylene Chloride, Ethylene Dichloride

$ClCH_2ClCH_2$
M = 98.97 g/mol
CAS 107-06-2
EINECS 203-458-1
CS 29031500
Index Nr. 602-012-00-7

Melting Point ..... -35 °C
Boiling Point ..... 83 °C
Density ..... 1.250 kg/l
Solubility ..... water 8.5 g/l at 20 °C
Refractive Index n20/D 1.444
Liquid

UN1184
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 3
Storage RT

Danger



H350 H225 H302 H319 H335 H315

361286 1,2-Dichloroethane for UV, IR, HPLC, GPC

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Density 20/4 ..... 1.246-1.255

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0002 %

Water (H_2O) ..... 0.01 %
Suitability for IR spectrometry: ..... passes test
Fluorescence at 254 nm (as quinine) .... 1 ppb
Fluorescence at 365 nm (as quinine) .... 1 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 228 nm (Cut off) ..... ≥ 10 %
Transmittance at 240 nm ..... ≥ 85 %
Transmittance at 245 nm ..... ≥ 90 %
Transmittance at 250 nm ..... ≥ 95 %
Transmittance at 260-400 nm ..... ≥ 98 %

Data of interest in HPLC:
P' + 0.25 E 6.3
Rohrschneider Polarity 3.5
Eluotropic value e° (Al_2O_3) 0.44
Sol. H_2O in solv. at 20 °C 0.16
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361286.1611	1000 ml
361286.1612	2.5 l

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

131286 1,2-Dichloroethane (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 1.246-1.255
Range of Distillation (> 95 % dist.) ... 82-84 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$ (as O) ..... 0.001 %
Darkened substances by H_2SO_4 ... passes test
Chlorine (Cl) ..... 0.0001 %
Chloride (Cl) ..... 0.0001 %
Dichloromethane (G.C.) ..... 0.05 %
Tetrachloroethylene (G.C.) ..... 0.05 %
Trichloroethylene (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.03 %
Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.000002 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
131286.1611	1000 ml
131286.1612	2.5 l

141286 1,2-Dichloroethane pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 1.246-1.255
Acidity ..... 0.0008 meq/g
Non-volatile matter ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Dichloromethane (G.C.) ..... 0.1 %
Tetrachloroethylene (G.C.) ..... 0.1 %
Trichloroethylene (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.2 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141286.1611	1000 ml
141286.1612	2.5 l

2',7'-Dichlorofluorescein

$C_{20}H_{10}Cl_2O_5$
M = 401.20 g/mol
CAS 76-54-0
EINECS 200-968-6
CS 32041600
Solubility ..... water 0.1 g/l
Solubility ..... alcohol 30 g/l
Solid
WGK 2
Storage RT

133606 2',7'-Dichlorofluorescein (Reag. Ph. Eur.) for analysis, ACS

Specifications
Identity ..... IR passes test
Suitability: as adsorption indicator ..... passes test
T.L.C. ..... passes test

Maximum limit of impurities
Insoluble matter in 70 % ethanol ... passes test
Cu ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
133606.1604	5 g
133606.1606	25 g

2,6-Dichloroindophenol Sodium Salt see 2,6-Dichlorophenol Indophenol Sodium Salt 2-hydrate

Dichloromethane stabilized with amylene

Methylene Chloride, Methylene Dichloride

CH_2Cl_2
M = 84.93 g/mol
CAS 75-09-2
EINECS 200-838-9
CS 29031200
Index Nr. 602-004-00-3
Melting Point ..... -95 °C
Boiling Point ..... 40 °C
Density ..... 1.326 kg/l (20 °C)
Solubility ..... 20 g/L (H_2O)
Refractive Index n20/D 1.4244
Liquid
UN1593
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 2
Storage RT

Warning



H351

361254 Dichloromethane stabilized with ~ 20 ppm of amylene for UV, IR, HPLC, GPC, ACS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 1.322-1.325

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0003 %
Chlorine (Cl) ..... 0.0001 %
Water (H_2O) ..... 0.01 %
Suitability for IR spectrometry: ..... passes test
Fluorescence at 254 nm (as quinine) ..... 1 ppb
Fluorescence at 365 nm (as quinine) ..... 1 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 233 nm (Cut off) ..... ≥ 10 %
Transmittance at 235 nm ..... ≥ 40 %
Transmittance at 240 nm ..... ≥ 75 %
Transmittance at 245 nm ..... ≥ 90 %
Transmittance at 255 nm ..... ≥ 98 %
Transmittance at 260-400 nm ..... ≥ 99 %
Data of interest in HPLC:
P' + 0.25 E 5.6
Rohrschneider Polarity 3.1
Eluotropic value e° (Al_2O_3) 0.42
Sol. H_2O in solv. at 20 °C 0.17
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361254.1611	1000 ml
361254.1612	2.5 l
361254.0516	25 l

321254 Dichloromethane stabilized with ~ 20 ppm of amylene for pesticide analysis

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 1.322-1.325

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Alkalinity ..... 0.0003 meq/g
Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.02 %
Signal ECD of pesticide (Lindane a DDT) (as Lindane) ..... 5 ng/l
Signal FID of 2-Octanol to Tetradecanol (as 2-Octanol) ..... passes test

Code	Packaging
321254.1611	1000 ml
321254.1612	2.5 l
321254.1646	4 l
321254.0515	10 l

481254 Dichloromethane dry (max. 0.005 % water) stabilized with ~ 20 ppm of amylene, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Density 20/4 ..... 1.323-1.325

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 ..... passes test
Chlorine (Cl) ..... 0.0001 %
Chloride (Cl) ..... 0.0001 %
Carbon Tetrachloride (G.C.) ..... 0.01 %
Ethanol (G.C.) ..... 0.05 %
Formaldehyde (HCHO) ..... 0.0001 %
Trichloroethylene (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As 0.05
Al 0.5
Au 0.05
B 0.02
Ba 0.1
Be 0.02
Bi 0.05
Ca 0.5
Cd 0.05
Co 0.02
Cr 0.02
Cu 0.02
Fe 0.1
Ga 0.02
Ge 0.05
Hg 0.05
In 0.05
K 0.1
Li 0.05
Mg 0.1
Mn 0.02
Mo 0.02
Na 0.5

Code	Packaging
481254.1611	1000 ml
481254.1612	2,5 l

131254 Dichloromethane stabilized with ~ 20 ppm for amylene for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 1.323-1.325
Range of Boiling ..... 39.5-40.5 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 ..... passes test
Chlorine (Cl) ..... 0.0001 %
Chloride (Cl) ..... 0.0001 %
Carbon Tetrachloride (G.C.) ..... 0.005 %
Ethanol (G.C.) ..... 0.02 %
Formaldehyde (HCHO) ..... 0.0001 %
Trichloromethane (G.C.) ..... 0.005 %
Methanol (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As 0.05
B 0.02
Al 0.5
Au 0.05
Ba 0.1
Be 0.02
Bi 0.05
Ca 0.5
Cd 0.05
Co 0.02
Cr 0.02
Cu 0.02
Fe 0.1
Ga 0.02
Ge 0.05
Hg 0.05
In 0.05
K 0.1
Li 0.05
Mg 0.1

Code	Packaging
131254.1611	1000 ml
131254.1612	2.5 l
131254.1714	5 l
131254.0515	10 l
131254.0537	30 l
131254.0619	200 l

141254 Dichloromethane stabilized with ~ 20 ppm of amylene (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Minimum assay (G.C.) .....99.5 %
Identity according to Pharmacopoeias: ..... passes test
Density 25/25 ..... 1.318-1.322
Density 20/20 ..... 1.320-1.332
Refractive Index n20/D 1.423-1.425

Maximum limit of impurities
Appearance ..... passes test
Acidity (as HCl) ..... 0.001 %
Non-volatile matter ..... 0.002 %
Chlorine Free (Cl) ..... passes test
Chloride (Cl) ..... 0.0003 %
Residual solvents (Ph. Eur./USP) . passes test
Ethanol, 2-Methyl-2-Butene and volatile impurities (v/v) :
Ethanol ..... 0.5 %
2-Methyl-2-Butene ..... 0.03 %
Carbon Tetrachloride ..... 0.001 %
Trichloromethane ..... 0.005 %
Total of impurities other than ethanol and 2-Methyl-2-Butene ..... 0.1 %
Water (H_2O) ..... 0.02 %
Heavy metals (as Pb) ..... 0.0001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141254.1611	1000 ml
141254.1612	2.5 l
141254.0314	5 l
141254.1714	5 l
141254.0616	25 l
141254.0537	30 l
141254.0619	200 l

161254 Dichloromethane, 99.8 % stabilized with ~ 20 ppm of amylene for synthesis

Specifications
Minimum assay (G.C.) .....99.8 %
Identity ..... IR passes test
Density 20/4 ..... 1.323-1.325
Acidity (as HCl) ..... 0.001 %
Non-volatile matter ..... 0.001 %
Water (H_2O) .....0.02 %

Code	Packaging
161254.1612	2.5 l
161254.1714	5 l
161254.0515	10 l
161254.0516	25 l
161254.0616	25 l
161254.0537	30 l

211254 Dichloromethane stabilized with ~ 20 ppm of amylene technical grade

Specifications
Assay (G.C.) .....98 %
Density 20/4 ..... 1.322-1.326
Water (H_2O) .....0.2 %

Code	Packaging
211254.1611	1000 ml
211254.0314	5 l
211254.3516	25 l

A2338 Dichloromethane DNA synthesis and protein sequencing grade

stabilized with 50 ppm Amylene

Specifications
Assay (G.C.) .....min. 99.9 %
Acidity/Alkalinity ..... max. 0.0003 meq/g
Free chlorine ..... max. 5 ppm
Non-volatile matter ..... max. 2 ppm
Water (K.F.) ..... max. 0.01 %
A (1 cm/H_2O)
240 nm ..... max. 0.155
245 nm ..... max. 0.046
260 nm ..... max. 0.004

Code	Packaging
A2338,2500	2.5 L

2,6-Dichlorophenol Indophenol Sodium Salt 2-hydrate

2,6-Dichloroindophenol Sodium Salt

$C_{12}H_6Cl_2NNaO_2 \cdot 2H_2O$
M = 326.09 g/mol
CAS 620-45-1
EINECS 210-640-4
CS 29071990
Solubility ..... water 30 g/l
Solubility ..... alcohol 20 g/l
Solid
WGK 3
Storage RT

132056 2,6-Dichlorophenol Indophenol Sodium Salt 2-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Identity ..... IR passes test

Maximum limit of impurities
Loss on drying at 120 °C ..... 12.0 %
Foreign dyes ..... passes test

Code	Packaging
132056.1604	5 g
132056.1606	25 g

Diethanolamine

2,2'-Iminodiethanol, 2,2'-Dioxydiethylamine, DEA, Bis-(2-Hydroxyethyl)-Amine

$NH(CH_2CH_2OH)_2$
M = 105.14 g/mol
CAS 111-42-2
EINECS 203-868-0
CS 29221200
Index Nr. 603-071-00-1
Melting Point ..... 26-28 °C
Boiling Point ..... 269-271 °C
Density ..... 1.09 kg/l (20 °C)
Liquid
WGK 1
Storage RT

Danger



H302 H315 H318 H373

131287 Diethanolamine for analysis, ACS

Specifications
Minimum assay (G.C.) .....99.0 %
Identity ..... IR passes test
Freezing point ..... 27-28 °C

Maximum limit of impurities
APHA colour 15
Residue on ignition (as SO_4) ..... 0.002 %
Chloride (Cl) ..... 0.001 %
Apparent equivalent weight 104.0-106.0
Ethanolamine (G.C.) .....0.3 %
Triethanolamine (G.C.) .....0.3 %
Water (H_2O) .....0.15 %
Heavy metals (as Pb) .....0.0001 %
Fe .....0.0001 %

Code	Packaging
131287.1611	1000 ml

191287 Diethanolamine (USP-NF) pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 98.5-101.0 %
Identity according to Pharmacopoeias: ..... passes test
Freezing point ..... 27-28 °C
Refractive Index n 30/D 1.473-1.476

Maximum limit of impurities
Triethanolamine (G.C.) ..... 1.0 %
Water (H_2O) ..... 0.15 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm

Code	Packaging
191287.0716	25 l

141287 Diethanolamine pure

Specifications
Assay (G.C.) .....98 %
Identity ..... IR passes test
Freezing point ..... 25-28 °C

Maximum limit of impurities
Residue on ignition (as SO_4) ..... 0.005 %
Ethanolamine (G.C.) ..... 0.5 %
Triethanolamine (G.C.) ..... 1.0 %
Water (H_2O) ..... 0.5 %

Code	Packaging
141287.0816	25 l

161287 Diethanolamine, 98 % for synthesis

Specifications
Minimum assay (G.C.) .....98 %
Identity ..... IR passes test
Freezing point ..... 25-28 °C
Water (H_2O) ..... 0.3 %

Code	Packaging
161287.1611	1000 ml

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НеваРеактив

A2155 Diethanolamine BioChemica

Specifications
Assay (G.C.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Water ..... max. 0.5 %

Code	Packaging
A2155,0500	500 g

Diethyl Ether stabilized with BHT

1,1'-Oxibisethane, Diethyl Ether, Ethoxyethane, Ethyl Ether, Ethyl Oxide, Sulfuric Ether

$C_2H_5OC_2H_5$
M = 74.12 g/mol
CAS 60-29-7
EINECS 200-467-2
CS 29091100
Index Nr. 603-022-00-4

Melting Point ..... -116 °C
Boiling Point ..... 34.6 °C
Density ..... 0.715 kg/l
Solubility ..... water 69 g/l at 20 °C
Refractive Index n20/D 1.3526
Liquid

UN1155
Class/PG 3/I
ADR 3/I · IMDG 3/I · IATA 3/I
WGK 1
Storage between +8 and +15 °C

Danger



H224 H302 H336 EUH019 EUH066

482770 Diethyl Ether dry (max. 0.0075 % water) stabilized with ~ 6ppm of BHT, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 0.713-0.715

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 ..... passes test

Carbonyl compounds (as HCHO) ..... 0.001 %
Peroxides (as H_2O2) ..... 0.00003 %*
Acetone (G.C.) ..... 0.005 %
Ethanol (G.C.) ..... 0.05 %
Methanol (G.C.) ..... 0.02 %
Water (H_2O) ..... 0.0075 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
Al 0.5
As 0.05
Au 0.05
B 0.02
Ba 0.1
Be 0.02
Bi 0.05
Ca 0.5
Cd 0.05
Co 0.02
Cr 0.02
Cu 0.02
Fe 0.1
Ga 0.02
Ge 0.05
Hg 0.05
In 0.05
K 0.1
Li 0.05
Mg 0.1
Mn 0.02
Mo 0.02
Na 0.5
Ni 0.02
* At the moment of the batch analysis.

Code	Packaging
482770.0311	1000 ml

132770 Diethyl Ether stabilized with ~ 6 ppm of BHT (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.7 %
Identity ..... IR passes test
Density 20/20 ..... 0.713-0.715
Range of Boiling ..... 34-35 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 .. passes test

Carbonyl compounds (as HCHO) ..... 0.001 %
Peroxides (as H_2O2) ..... 0.00003 %*
Acetone (G.C.) ..... 0.005 %
Ethanol (G.C.) ..... 0.05 %
Methanol (G.C.) ..... 0.02 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
Al 0.5
As 0.05
Au 0.05
B 0.02
Ba 0.1
Be 0.02
Bi 0.05
Ca 0.5
Cd 0.05
Co 0.02
Cr 0.02
Cu 0.1
Fe 0.1
Ga 0.02
Ge 0.05
Hg 0.05
In 0.05
K 0.1
Li 0.05
Mg 0.1
Mn 0.02
Mo 0.02
Na 0.5
* At the moment of the batch analysis.

Code	Packaging
132770.0311	1000 ml
132770.1612	2.5 l
132770.0314	5 l
132770.0515	10 l
132770.0316	25 l
132770.0537	30 l
132770.0619	200 l

192770 Diethyl Ether anaesthetic stabilized with ~ 6 ppm of BHT (BP, Ph. Eur.) pharma grade

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity according to Pharmacopoeias: ..... passes test
Density 20/20 ..... 0.714-0.716
Range of Distillation ..... 34.0-35.0 °C

Maximum limit of impurities
Acidity ..... passes test
Non-volatile matter ..... 0.002 %
Peroxides (as H_2O2) ..... passes test*
Odorous substances ..... passes test
Residual solvents (Ph. Eur.) ..... passes test
Acetone and aldehydes ..... passes test
Water (H_2O) ..... 0.2 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
* At the moment of the batch analysis.

Code	Packaging
192770.1608	100 ml
192770.0311	1000 ml
192770.0616	25 l
192770.0619	200 l

142770 Diethyl Ether stabilized with ~ 6 ppm of BHT pure

Specifications
Assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.713-0.715
Acidity ..... 0.001 meq/g
Non-volatile matter ..... 0.005 %

Carbonyl compounds (as HCHO) ..... 0.005 %
Peroxides (as H_2O2) ..... 0.0001 %*
Foreign odorous substances ..... passes test
Acetone (G.C.) ..... 0.01 %
Ethanol (G.C.) ..... 0.1 %
Methanol (G.C.) ..... 0.05 %

Water (H_2O) ..... 0.2 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %
* At the moment of the batch analysis.

Code	Packaging
142770.0311	1000 ml
142770.0314	5 l
142770.0619	200 l

162770 Diethyl Ether, 99.7 % stabilized with ~ 6 ppm of BHT for synthesis

Specifications
Minimum assay (G.C.) ..... 99.7 %
Identity ..... IR passes test
Density 20/4 ..... 0.713-0.715
Non-volatile matter ..... 0.002 %
Peroxides (as H_2O2) ..... 0.0001 %*
Water (H_2O) ..... 0.05 %
* At the moment of the batch analysis.

Code	Packaging
162770.0311	1000 ml
162770.1612	2,5 l
162770.0314	5 l
162770.0516	25 l
162770.0616	25 l
162770.0537	30 l

212770 Diethyl Ether stabilized with ~ 6 ppm of BHT technical grade

Specifications
Assay (G.C.) ..... 99.5 %
Density 20/4 ..... 0.713-0.717
Water (H_2O) ..... 0.3 %

Code	Packaging
212770.0311	1000 ml
212770.0314	5 l
212770.0616	25 l

НеВаРеактив

Diethyl Ether stabilized with ethanol

1,1'-Oxibisethane, Diethyl Ether, Ethoxyethane, Ethyl Ether, Ethyl Oxide, Sulfuric Ether

$C_2H_5OC_2H_5$
M = 74.12 g/mol
CAS 60-29-7
EINECS 200-467-2
CS 29091100
Index Nr. 603-022-00-4

Melting Point ..... -116 °C
Boiling Point ..... 34.6 °C
Density ..... 0.714 kg/l
Solubility ..... water 69 g/l at 20 °C
Refractive Index n20/D 1.3526
Liquid

UN1155
Class/PG 3/I
ADR 3/I · IMDG 3/I · IATA 3/I
WGK 1
Storage RT

Danger



H224 EUH019 H302 EUH066 H336

362551 Diethyl Ether stabilized with ethanol for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 98.0 %
Density 20/4 ..... 0.713-0.715

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0003 %
Peroxides (as H_2O2) ..... 0.0001 %*
Ethanol (G.C.) ..... ~ 2 %

Water (H_2O) ..... 0.02 %
Suitability for IR spectrometry: ..... passes test
Fluorescence at 254 nm (as quinine) .... 2 ppb
Fluorescence at 365 nm (as quinine) ..... 0.5 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 220 nm (Cut off) ..... ≥ 10 %
Transmittance at 236 nm ..... ≥ 50 %
Transmittance at 252 nm ..... ≥ 80 %
Transmittance at 280 nm ..... ≥ 94 %
Transmittance at 300-400 nm ..... ≥ 99 %

Data of interest in HPLC:
P' + 0.25 E 4.0
Rohrschneider Polarity 2.8
Eluotropic value e° (Al_2O_3) 0.38
Sol. H_2O in solv. at 20 °C 1.3
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.
* At the moment of the batch analysis.

Code	Packaging
362551.1611	1000 ml

322551 Diethyl Ether stabilized with ethanol for pesticide analysis

Specifications
Minimum assay (G.C.) ..... 98 %
Identity ..... IR passes test
Density 20/4 ..... 0.713-0.715

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0005 %
Peroxides (as H_2O2) ..... 0.0001 %*
Ethanol (G.C.) ..... ~ 2 %

Water (H_2O) ..... 0.1 %
Signal ECD of pesticide (Lindane a DDT) (as Lindane) ..... 5 ng/l
* At the moment of the batch analysis.

Code	Packaging
322551.1611	1000 ml

Diethyl Oxalate

Oxalic Acid Diethyl Ester

$(COO \cdot C_2H_5)_2$
M = 146.14 g/mol
CAS 95-92-1
EINECS 202-464-1
CS 29171100
Index Nr. 607-147-00-5

Melting Point ..... -40 °C
Boiling Point ..... 185 °C
Density ..... 1.079 kg/l
Solubility Reacts violently with water and ethanol. Miscible with ether, chloroform or benzene
Refractive Index n20/D 1.4096
Liquid

UN2525
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage RT

Warning



H302 H319

15A767 Diethyl Oxalate, 98.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 98.5 %
Identity ..... IR passes test

Density 20/4 ..... 1.076-1.079
Water (H_2O) ..... 0.05 %

Code	Packaging
15A767.0716	25 l

Diethyl Oxide see Diethyl Ether stabilized with BHT

Diethylamine

N-Ethylethanamine

$NH(C_2H_5)_2$
M = 73.14 g/mol
CAS 109-89-7
EINECS 203-716-3
CS 29211950
Index Nr. 612-003-00-X

Melting Point ..... -50 °C
Boiling Point ..... 55.5 °C
Density ..... 0.703 kg/l
Refractive Index n20/D 1.3864
Liquid

UN1154
Class/PG 3(8)/II
ADR 3(8)/II · IMDG 3(8)/II · IATA 3(8)/II
WGK 1
Storage RT

Danger



H225 H332 H312 H302 H314

131288 Diethylamine (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 25/4 ..... 0.700-0.705
Range of Boiling ..... 55-58 °C

Maximum limit of impurities
APHA colour 20

Non-volatile matter ..... 0.01 %
Ethanol (G.C.) ..... 0.05 %
Monoethylamine (G.C.) ..... 0.2 %
Triethylamine (G.C.) ..... 0.2 %
Water (H_2O) ..... 0.1 %
Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %

Cr ..... 0.000002 %
Cu ..... 0.000002 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
131288.1611	1000 ml
131288.1612	2.5 l
131288.0616	25 l

161288 Diethylamine, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test

Density 25/4 ..... 0.700-0.705
Water (H_2O) ..... 0.2 %

Code	Packaging
161288.1611	1000 ml

Diethyldicarbonate see DEPC

Diethylene Dioxide see 1,4-Dioxane

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Diethylene Glycol

2,2'-Dihydroxydiethyl Ether, 2,2'-Oxydiethanol, Diglycol

$O(CH_2CH_2OH)_2$
M = 106.12 g/mol
CAS 111-46-6
EINECS 203-872-2
CS 29094100
Index Nr. 603-140-00-6

Melting Point ..... -6 °C
Boiling Point ..... 244 °C
Density ..... 1.117 kg/l
Refractive Index n20/D 1.4475
Liquid

Storage RT

Warning



H302

161289 Diethylene Glycol for synthesis

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Density 20/4 ..... 1.115-1.118
Water (H_2O) ..... 0.3 %

Code	Packaging
161289.1211	1000 ml
161289.0716	25 l

Diethylene Glycol mono-Ethyl Ether

2-(2-Ethoxyethoxy) Ethanol, Carbitol, DEGEE, Diglycol mono-Ethyl Ether, Ethyl Digol, Ethylcellosolve, Ethyldiglycol

$C_6H_{14}O_3$
M = 134.17 g/mol
CAS 111-90-0
EINECS 203-919-7
CS 29094400

Melting Point ..... -44 °C
Boiling Point ..... 201 °C
Density ..... 0.990 kg/l
Refractive Index n20/D 1.427
Liquid

WGK 1
Storage RT

Warning



H319

15A784 Diethylene Glycol mono-Ethyl Ether, 98 % for synthesis

Specifications
Minimum assay ..... 98 %
Identity ..... IR passes test
Density 20/4 ..... 0.983-0.991
Water (H_2O) ..... 0.1 %

Code	Packaging
15A784.1211	1000 ml

Diethylene Oxide see Tetrahydrofuran stabilized with BHT

Diethylentriaminepentaacetic Acid

3-aza-3-(Carboxymethyl)Pentamethylenedinitrilotetraacetic Acid, DTPA, Pentetic Acid

$C_{14}H_{23}N_3O_{10}$
M = 393.35 g/mol
CAS 67-43-6
EINECS 200-652-8
CS 29225000

Melting Point ..... 220 °C
Solubility ..... water 5 g/l at 20 °C
Solid

Storage RT

124745 Diethylentriaminepentaacetic Acid for analysis

Specifications
Minimum assay (Compl.) ..... 99 %
Identity ..... IR passes test

Maximum limit of impurities
Insoluble matter in NaOH 1 mol/l .. passes test
Heavy metals (as Pb) ..... 0.0005 %
Ba ..... 0.0005 %
Ca ..... 0.01 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.001 %
K ..... 0.05 %
Mg ..... 0.002 %
Mn ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
124745.1209	250 g
124745.1211	1000 g

Diethylpyrocarbonate see DEPC

DIGE Labeling Kit Colorada 490 see Colorada 490 DIGE Labeling Kit

DIGE Labeling Kit Colorada 550 see Colorada 550 DIGE Labeling Kit

DIGE Labeling Kit Colorada 645 see Colorada 645 DIGE Labeling Kit

Digitoflavone see Luteolin

Digitonin

$C_{56}H_{92}O_{29}$
M = 1229.34 g/mol
CAS 11024-24-1
EINECS 234-255-6
CS 29389010

Solid

UN3462
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301+H311+H331

A1905 Digitonin (Reagent USP) BioChemica

Specifications
α20 °C/D; 10 %; 75 % AcOH .....-47 to -49°
Loss on drying (105 °C) .....max. 6 %
Residue on ignition .....max. 0.3 %
Solubility
(2.5 %, warm EtOH) .....clear, colorless

Code	Packaging
A1905,0100	100 mg
A1905,0500	500 mg
A1905,0001	1 g
A1905,0005	5 g

Diglycine see Glycylglycine

1,4-Dihydroxybenzene see Hydroquinone

1,3-Dihydroxybenzene see Resorcinol

1,4-Dihydroxybutane see 1,4-Butanediol

2,2'-Dihydroxydiethyl Ether see Diethylene Glycol

2,6-Dihydroxypurine see Xanthine

HeBaPeaKTMB

3,5-Dihydroxytoluene 1-hydrate

5-Methylresorcinol, Orcin, Orcinol

$C_7H_8O_2 \cdot H_2O$
M = 142.16 g/mol
CAS 6153-39-5
EINECS 207-984-2
CS 29072900

Melting Point ..... 58 °C
Boiling Point ..... 290 °C
Solubility ..... Soluble in water.
Solid

WGK 3
Storage RT

Warning



H302

15A639 3,5-Dihydroxytoluene 1-hydrate, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Melting range ..... 56-58 °C

Code	Packaging
15A639.1206	25 g

2,3-Dimercapto-1-Propanol solution 20 % in ethanol

BAL in EtOH, Dithioglycerol in EtOH, Dimercaprol in EtOH

CS 38220000

Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 3
Storage RT

Danger



H225 H315 H319

A3195 2,3-Dimercapto-1-Propanol solution 20 % in ethanol

Composition:
2,3-Dimercapto-1-propanol ..... 200 ml/L

Code	Packaging
A3195,0010	10 ml
A3195,0050	50 ml

1,2-Dimethoxyethane

$C_4H_{10}O_2$
M = 90.12 g/mol
CAS 110-71-4
EINECS 203-794-9
CS 29091990
Index Nr. 603-031-00-3

UN2252
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



EUH019 H225 H332 H360FD

164468 1,2-Dimethoxyethane for synthesis

Specifications
Assay (G.C.) ..... min. 99 %
Appearance ..... clear, colorless
Density (d 20 °C/4 °C) ..... 0.867 ± 0.003
n 20 °C/D ..... 1.380 ± 0.005
Water ..... max. 0.2 %
Peroxides ..... max. 0.005 %

Code	Packaging
164468.1611	1 L
164468.1612	2.5 L

Dimethyl Sulfoxide

Methylsulfoxide, DMSO

C_2H_6OS
M = 78.13 g/mol
CAS 67-68-5
EINECS 200-664-3
CS 29309099

Melting Point ..... 18 °C
Boiling Point ..... 189 °C
Density ..... 1.103 kg/l (20 °C)
Refractive Index n20/D 1.478-1.479
Liquid

WGK 1
Storage RT

361954 Dimethyl Sulfoxide for UV, IR, HPLC, GPC

Specifications
Minimum assay (G.C.) ..... 99.9 %

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.001 %
Water (H_2O) ..... 0.05 %

Suitability for IR spectrometry: ..... passes test
Fluorescence at 365 nm (as quinine) .... 7 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 265 nm (Cut off) ..... ≥ 10 %
Transmittance at 270 nm ..... ≥ 30 %
Transmittance at 280 nm ..... ≥ 63 %
Transmittance at 290 nm ..... ≥ 70 %
Transmittance at 310 nm ..... ≥ 80 %
Transmittance at 330 nm ..... ≥ 94 %

Transmittance at 350-450 nm ..... ≥ 98 %
Data of interest in HPLC:
Rohrschneider Polarity 7.2
Eluotropic value e° (Al_2O_3) 0.75
Sol. H_2O in solv. at 20 °C ..... miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361954.1611	1000 ml
361954.1612	2.5 l

751954 Dimethyl Sulfoxide for Headspace GC

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Refractive Index n20/D 1.477-1.480

Maximum limit of impurities
APHA colour 10
Suitability for analysis of residual solvents CG/HS :
Solvents of class 1 according to ICH ..... 0.5 ppm
Solvents of class 2 according to ICH ..... 5 ppm
Solvents of class 3 according to ICH ..... 25 ppm
Water (H_2O) ..... 0.04 %

Code	Packaging
751954.1611	1000 ml
751954.1612	2.5 l

481954 Dimethyl Sulfoxide dry (max. 0.03 % water), ACS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Freezing point ..... ≥ 18.0 °C

Maximum limit of impurities
Acidity ..... 0.001 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.01 %
Dimethyl Sulfone (G.C.) ..... 0.1 %

Methanol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.03 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Cu	0.02
As	0.05	Au	0.05	Ga	0.02
B	0.02	Ba	0.1	Hg	0.05
Be	0.02	Bi	0.05	K	0.1
Ca	0.5	Cd	0.05	Mg	0.1
Co	0.02	Cr	0.02	Mo	0.02
				Ni	0.02
				Pb	0.1
				S	0.2
				Fe	0.1
				Ge	0.05
				In	0.05
				Li	0.05
				Mn	0.02
				Na	0.5
				P	0.2
				Pt	0.02

Code	Packaging
481954.1611	1000 ml

HeBaPeaKTMB

131954 Dimethyl Sulfoxide (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity .....IR passes test
Freezing point .....≥ 18.0 °C

Maximum limit of impurities
Acidity ..... 0.001 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %
Dimethyl Sulfone (G.C.) ..... 0.1 %
Methanol (G.C.) .....0.05 %
Water (H_2O) .....0.1 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As.....0.05
B 0.02
Be 0.02
Ca 0.5
Co 0.02
Al 0.5
Au 0.05
Ba 0.1
Bi 0.05
Cd 0.05
Cr 0.02
Cu..... 0.02
Ga 0.02
Hg..... 0.05
K..... 0.1
Mg 0.1
Mo 0.02
Ni..... 0.02
Pb..... 0.1
S..... 0.2
Fe..... 0.1
Ge 0.05
In 0.05
Li 0.05
Mn..... 0.02
Na 0.5
P..... 0.2
Pt..... 0.02

Code	Packaging
131954.1611	1000 ml
131954.1612	2.5 l
131954.3515	10 l
131954.0716	25 l

191954 Dimethyl Sulfoxide (USP, BP, Ph. Eur.) pharma grade

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity according to
Pharmacopoeias: ..... passes test
Density 25/25 ..... 1.095-1.101
Density 20/20 ..... 1.100-1.104
Freezing point .....≥ 18.3 °C
Refractive Index n20/D 1.478-1.479
Refractive Index n25/D 1.4755-1.4775

Maximum limit of impurities
Acidity .....passes test
Non-volatile matter .....0.01 %
Absorbance (UV) .....passes test
Related substances (G.C.) .....0.1 %
Substances darkened by KOH .....passes test
Residual solvents (Ph. Eur./USP) .passes test
Dimethyl Sulfone (G.C.) .....0.03 %
Water (H_2O) .....0.1 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm

Code	Packaging
191954.1611	1000 ml
191954.1612	2,5 l
191954.1214	5 l
191954.0716	25 l

141954 Dimethyl Sulfoxide pure

Specifications
Assay (G.C.) ..... 99 %
Identity .....IR passes test
Acidity ..... 0.002 meq/g
Insoluble matter in H_2O ..... passes test

Non-volatile matter .....0.05 %
Dimethyl Sulfone (G.C.) .....0.2 %
Methanol (G.C.) .....0.1 %
Water (H_2O) .....0.2 %
Cu .....0.00002 %

Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141954.1611	1000 ml
141954.1612	2.5 l
141954.1214	5 l

161954 Dimethyl Sulfoxide, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity .....IR passes test
Freezing point .....≥ 18.0 °C
Water (H_2O) ..... 0.1 %

Code	Packaging
161954.1611	1000 ml
161954.1612	2.5 l
161954.3515	10 l
161954.0716	25 l

A3006 Dimethyl sulfoxide Molecular biology grade

Specifications
DNases/RNases/Proteases .....not detectable
Assay (G.C.) .....min. 99.5 %
Free acid ..... max. 0.001 %
Non-volatile matter ..... max. 0.001 %
Total P ..... max. 0.00001 %

Total Si .....max. 0.00002 %
Water (K.F.) ..... max. 0.1 %
Ca .....max. 0.0001 %
Cu .....max. 0.00005 %
Fe .....max. 0.0001 %
K .....max. 0.00005 %

Mg ..... max. 0.00005 %
Na ..... max. 0.0002 %
Pb ..... max. 0.00002 %
Zn ..... max. 0.00002 %

Code	Packaging
A3006,0100	100 ml
A3006,0500	500 ml
A3006,1000	1 L

A3672 Dimethyl sulfoxide Cell culture grade

Specifications
Pyrogen test ..... passes test
Assay (G.C.) .....min. 99.5 %
Free acid ..... max. 0.001 %
Non-volatile matter ..... max. 0.001 %
Total P ..... max. 0.00001 %

Total Si .....max. 0.00002 %
Water (K.F.) ..... max. 0.1 %
Ca .....max. 0.0001 %
Cu .....max. 0.00005 %
Fe .....max. 0.0001 %
K .....max. 0.00005 %

Mg ..... max. 0.00005 %
Na ..... max. 0.0002 %
Pb ..... max. 0.00002 %
Zn ..... max. 0.00002 %

Code	Packaging
A3672,0050	50 ml
A3672,0100	100 ml
A3672,0250	250 ml

A1584 Dimethyl sulfoxide BioChemica

Specifications
Assay (G.C.) .....min. 99.5 %
Free acid ..... max. 0.001 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Non-volatile matter ..... max. 0.001 %
Water (K.F.) .....max. 0.1 %

A (1 cm/water HPLC grade)
280 nm ..... max. 0.25

Code	Packaging
A1584,0100	100 ml
A1584,0500	500 ml
A1584,1000	1 L
A1584,5000	5 L

A7248 Dimethyl Sulfoxide, sterile filtered (ampules)

Specifications
Endotoxins .....max. 40 E.U./g
Assay (G.C.) .....min. 99.9 %
Appearance .....clear, colorless

Water (K.F.) .....max. 0.5 %
A (1 cm/water HPLC grade)
275 nm ..... max. 0.30

Code	Packaging
A7248,0005	5 x 5 ml
A7248,0010	5 x 10 ml

N,N-Dimethylacetamide

Acetic Acid Dimethylamide, DMAC

C_4H_9NO
M = 87.12 g/mol
CAS 127-19-5
EINECS 204-826-4
CS 29241900
Index Nr. 616-011-00-4

Melting Point .....-20 °C
Boiling Point ..... 165 °C
Density .....0.942 kg/l
Refractive Index n20/D 1.423
Liquid

WGK 1
Storage away from direct light.

Danger



H360D H332 H312

363145 N,N-Dimethylacetamide for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 99.9 %

Maximum limit of impurities
Acidity/colour 10
Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.03 %
Suitability for photometry: ..... passes test
UV Spectrum (1 cm/dest. water; Ref.: water):
Transmittance at 270 nm (Cut off) ..... ≥ 10 %

Transmittance at 280 nm .....≥ 50 %
Transmittance at 290 nm .....≥ 70 %
Transmittance at 310 nm .....≥ 89 %
Transmittance at 320 nm .....≥ 93 %
Transmittance at 360-450 nm .....≥ 98 %
Suitability for HPLC-gradient
at 280 nm .....150 mA
Suitability for HPLC-gradient
at 360 nm .....2.5 mA

Suitability for HPLC-gradient
at 320 nm ..... 10 mA
Data of interest in HPLC:
Rohrschneider Polarity 6.5
Sol. H_2O in solv. at 20 °C .....miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
363145.1611	1000 ml
363145.1612	2.5 l

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753145 N,N-Dimethylacetamide for Headspace GC

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Refractive Index n20/D 1.438-1.439

Maximum limit of impurities
APHA colour 10
Suitability for analysis of residual solvents CG/HS :
Solvents of class 1 according to ICH ..... 0.5 ppm
Solvents of class 2 according to ICH ..... 5 ppm
Solvents of class 3 according to ICH ... 25 ppm
Water (H_2O) ..... 0.05 %
Product bottled under nitrogen atmosphere.

Code	Packaging
753145.1611	1000 ml
753145.1612	2.5 l

123145 N,N-Dimethylacetamide (Reag. Ph. Eur.) for analysis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
pH of 20 % solution 4.0-7.0
Density 20/4 ..... 0.940-0.944
Range of Distillation ..... 164.5-167.5 °C

Maximum limit of impurities
Non-volatile matter ..... 0.001 %
Chloride (Cl) ..... 0.001 %
Sulfate (SO_4) ..... 0.001 %
Water (H_2O) ..... 0.05 %
Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.000002 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
123145.1611	1000 ml
123145.0716	25 l

143145 N,N-Dimethylacetamide (BP, Ph. Eur.) pure, pharma grade

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity according to Pharmacopoeias: ..... passes test
Density 20/20 ..... 0.941-0.944

Maximum limit of impurities
Appearance ..... passes test
Acidity ..... passes test
Alkalinity ..... passes test
Non-volatile matter ..... 0.002 %
Related substances:
Individual impurity ..... 0.1 %
Total impurities ..... 0.3 %
Residual solvents (Ph. Eur.) ..... passes test
Water (H_2O) ..... 0.1 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
143145.1611	1000 ml
143145.1612	2,5 l
143145.0716	25 l
143145.0719	200 l

4-(Dimethylamino) Benzaldehyde

4-Dimethylaminobenzenecarbonal, Ehrlich Reagent,p-Dimethylaminobenzaldehyde

$(CH_3)_2NC_6H_4CHO$
M = 149.19 g/mol
CAS 100-10-7
EINECS 202-819-0
CS 29223900

Melting Point ..... 74 °C
Solubility ..... water 0.3 g/l at 20 °C
Solid
Yellowish-white crystalline powder, turns pink on exposure to light

WGK 1
Storage RT

131293 4-(Dimethylamino) Benzaldehyde (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Melting range ..... 73-75 °C

Maximum limit of impurities
APHA colour 60

Insoluble matter in C_2H_5OH ..... passes test
Insoluble matter in HCl ..... passes test
Residue on ignition (as SO_4) ..... 0.1 %
Colour of acid solution ..... passes test

Metals by ICP [in mg/Kg (ppm)]
Ca ..... 10 Cd 5
Co ..... 5 Cr 5
Cu ..... 5 Fe 100
K ..... 50 Mg 5
Mn ..... 5 Na 500
Ni ..... 5 Pb 5
Zn 50

Code	Packaging
131293.1608	100 g

121293 4-(Dimethylamino) Benzaldehyde for analysis

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Melting range ..... 73-75 °C

Maximum limit of impurities
Insoluble matter in HCl ..... passes test
Residue on ignition (as SO_4) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]
Ca ..... 50 Cd 5
Co ..... 5 Cr 5
Cu ..... 5 Fe 100
K ..... 50 Mg 5
Mn ..... 5 Na 500
Ni ..... 5 Pb 5
Zn 50

Code	Packaging
121293.1608	100 g

161293 4-(Dimethylamino) Benzaldehyde, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %

Identity ..... IR passes test
Melting range ..... 73-75 °C

Code	Packaging
161293.1609	250 g

Dimethylarsinic Acid Sodium Salt see Cacodylic Acid Sodium Salt 3-hydrate

Dimethylbenzene see Xylene - Mixture of isomeres

1,2-Dimethylbenzene see o-Xylene

3,3'-Dimethylbenzidine see o-Tolidine

N,N-Dimethylformamide

DMF, Formic Acid Dimethylamide

$(CH_3)_2NCHO$
M = 73.10 g/mol
CAS 68-12-2
EINECS 200-679-5
CS 29241900
Index Nr. 616-001-00-X

Melting Point ..... -60 °C
Boiling Point ..... 153 °C
Density ..... 0.944 kg/l (20 °C)
Refractive Index n20/D 1.4305
Liquid

UN2265
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Danger



H226 H312+H332 H319 H360D

361785 N,N-Dimethylformamide for UV, IR, HPLC, GPC, ACS

Specifications
Minimum assay (G.C.) ..... 99.9 %

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0003 %
Water (H_2O) ..... 0.05 %
Suitability for IR spectrometry: ..... passes test
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 270 nm (Cut off) ..... ≥ 10 %
Transmittance at 275 nm ..... ≥ 60 %
Transmittance at 290 nm ..... ≥ 80 %
Transmittance at 300 nm ..... ≥ 90 %
Transmittance at 330-450 nm ..... ≥ 98 %
Data of interest in HPLC:
Rohrschneider Polarity 6.4
Sol. H_2O in solv. at 20 °C ..... miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361785.1611	1000 ml
361785.1612	2.5 l

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

751785 N,N-Dimethylformamide for Headspace GC

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Refractive Index n20/D 1.429-1.431

Maximum limit of impurities
APHA colour 10
Suitability for analysis of residual solvents CG/HS :
Solvents of class 1 according to ICH ..... 0.5 ppm
Solvents of class 2 according to ICH .....5 ppm
Solvents of class 3 according to ICH ...25 ppm
Water (H_2O) ..... 0.05 %
Product bottled under nitrogen atmosphere.

Code	Packaging
751785.1611	1000 ml
751785.1612	2.5 l

481785 N,N-Dimethylformamide dry (max. 0.01 % water), ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 0.946-0.950

Maximum limit of impurities
APHA colour 15
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0005 meq/g
Non-volatile matter ..... 0.005 %

Diethylamine (G.C.) ..... 0.05 %
Dimethylamine (G.C.) ..... 0.05 %
Methanol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As.....0.05
B 0.02
Be 0.02
Al 0.5
Au 0.05
Ba 0.1
Bi 0.05
Ca..... 0.5
Co..... 0.02
Cu..... 0.02
Ga 0.02
Hg..... 0.05
K..... 0.1
Mg 0.1
Mo 0.02
Ni..... 0.02
Pb..... 0.1
Cd 0.05
Cr 0.02
Fe..... 0.1
Ge 0.05
In..... 0.05
Li 0.05
Mn..... 0.02
Na 0.5
P..... 0.2

Code	Packaging
481785.1611	1000 ml
481785.1612	2,5 l

131785 N,N-Dimethylformamide (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/20 ..... 0.949-0.952

Maximum limit of impurities
APHA colour 15
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0005 meq/g
Non-volatile matter ..... 0.0002 %

Diethylamine (G.C.) ..... 0.05 %
Dimethylamine (G.C.) ..... 0.05 %
Methanol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.05 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As.....0.05
B 0.02
Be 0.02
Al 0.5
Au 0.05
Ba 0.1
Bi 0.05
Ca..... 0.5
Co..... 0.02
Cu..... 0.02
Ga 0.02
Hg..... 0.05
K..... 0.1
Mg 0.1
Mo 0.02
Ni..... 0.02
Pb..... 0.1
Cd 0.05
Cr 0.02
Fe..... 0.1
Ge 0.05
In..... 0.05
Li 0.05
Mn..... 0.02
Na 0.5
P..... 0.2

Code	Packaging
131785.1611	1000 ml
131785.1612	2.5 l
131785.1214	5 l
131785.0716	25 l

141785 N,N-Dimethylformamide pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.946-0.950
Acidity ..... 0.0005 meq/g

Non-volatile matter ..... 0.05 %
Diethylamine (G.C.) ..... 0.1 %
Dimethylamine (G.C.) ..... 0.1 %
Methanol (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.2 %

Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141785.1611	1000 ml
141785.1214	5 l

161785 N,N-Dimethylformamide, 99.8 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test

Density 20/4 ..... 0.946-0.950
Water (H_2O) ..... 0.1 %

Code	Packaging
161785.1611	1000 ml
161785.1612	2.5 l

A3676 N,N-Dimethylformamide for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (G.C.) ..... min. 99.5 %
Acidity/Alkalinity ..... max. 0.0005 meq/g
Non-volatile matter ..... max. 0.002 %
Total P ..... max. 0.00005 %

Total S ..... max. 0.0001 %
Total Si ..... max. 0.000005 %
Water (K.F.) ..... max. 0.05 %
Ca ..... max. 0.00001 %
Cu ..... max. 0.00005 %
Fe ..... max. 0.00001 %

K ..... max. 0.00005 %
Mg ..... max. 0.00005 %
Na ..... max. 0.0002 %
Pb ..... max. 0.00005 %
Zn ..... max. 0.00005 %

Code	Packaging
A3676,0500	500 ml

1,9-Dimethylmethylene Blue Zinc Chloride

Taylor's Blue, Dimethylmethylene Blue Zinc Chloride, DMMB, 3,7-Bis-(Dimethylamino)-1,9-Dimethyl-Diphenothiazin-5-ium Zinc Chloride

$C_{18}H_{22}N_3S \cdot 0,5\ ZnCl_2$
M = 416.05 g/mol
CAS 931418-92-7
CS 32129000

Solid

Storage 2-8 °C

Warning



H302+H332

A1279 1,9-Dimethylmethylene Blue Zinc Chloride BioChemica

Specifications
$\lambda_{max\ 1}$ ..... 243-249 nm
$\lambda_{max\ 2}$ ..... 285-291 nm

$\lambda_{max\ 3}$ ..... 594-600 nm
$\lambda_{max\ 4}$ ..... 646-652 nm
E 1 %/1 cm, $\lambda_{max\ 1}$ ..... min. 10000

E 1 %/1 cm, $\lambda_{max\ 2}$ ..... min. 18000
E 1 %/1 cm, $\lambda_{max\ 3}$ ..... min. 25000
E 1 %/1 cm, $\lambda_{max\ 4}$ ..... min. 35000

Code	Packaging
A1279,0001	1 g

Dimidium Bromide

3,8-Diamino-5-Methyl-6-Phenylphenanthridinium Bromide

$C_{20}H_{18}BrN_3$
M = 380.30 g/mol
CAS 518-67-2
EINECS 208-256-7
CS 29339980

Melting Point ..... 243-248 °C
Solid

UN2811
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Warning



H315 H319 H335

122844 Dimidium Bromide (Reag. Ph. Eur.) for analysis

for determination of surfactants

Specifications
Minimum assay (Spectrophotometric) (d. s.) ..... 95 %

Identity ..... IR passes test
A 1 %, 1 cm, λ_{max} ..... > 150
λ_{max} ABS in CH_3OH ..... 520-524 nm
Suitability: for determination of surfactants ..... passes test

Maximum limit of impurities
Loss on drying at 110 °C ..... 5 %

Code	Packaging
122844.1603	1 g
122844.1604	5 g

A6361 Dimidium Bromide BioChemica

Specifications
Assay (titr.) ..... min. 95 %
λ_{max} (MeOH) ..... 523-528 nm

Loss on drying ..... max. 5.0 %
UV/VIS spectrum ..... passes test

Code	Packaging
A6361,0001	1 g

Dinitrophenol ... 2,4-Dinitrophenol, moistened with ~ 33 % of H_2O

2,4-Dinitrophenol, moistened with ~ 33 % of H_2O

a -Dinitrophenol

$(NO_2)_2C_6H_3OH$
M = 184.10 g/mol
CAS 51-28-5
EINECS 200-087-7
CS 29089900
Index Nr. 609-041-00-4

Melting Point ..... 114 °C
Solubility ..... water 5.6 g/l at 20 °C
Solid

UN1320
Class/PG 4.1(6.1)/I
ADR 4.1(6.1)/I · IMDG 4.1(6.1)/I · IATA 4.1(6.1)/I
WGK 3
Storage RT

Danger



H331 H311 H301 H373 H400

162443 2,4-Dinitrophenol, 98 % moistened with ~ 33 % of H_2O for synthesis

Specifications
Minimum assay (G.C.) ..... 98 %
Identity ..... IR passes test
Melting range ..... 111-114 °C

Code	Packaging
162443.0716	25 kg

2,4-Dinitrophenylhydrazine moistened with ~ 33 % of H_2O

DNPH

$(NO_2)_2C_6H_3NHNH_2$
M = 198.14 g/mol
CAS 119-26-6
EINECS 204-309-3
CS 29280090

Melting Point ..... 200 °C
Solubility ..... Insoluble in water
Solid

UN1325
Class/PG 4.1/III
ADR 4.1/III · IMDG 4.1/III · IATA 4.1/III
WGK 3
Storage above 0 °C

Warning



EUH001 H302 H319 H315

122325 2,4-Dinitrophenylhydrazine moistened with~ 33 % of H_2O (Reag. Ph. Eur.) for analysis

Specifications
Minimum assay (HPLC.) ..... 99.0 %
Identity ..... IR passes test
Melting range ..... 199-202 °C

Maximum limit of impurities
Insoluble matter in H_2SO_4 ..... 0.01 %
Residue on ignition (as SO_4) ..... 0.02 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Sensitivity to carbonyl group ..... passes test

Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %
(Analysis applied to the dry substance)

Code	Packaging
122325.1606	25 g

162325 2,4-Dinitrophenylhydrazine, 99 % moistened with~ 33 % of H_2O for synthesis

Specifications
Minimum assay (HPLC.) ..... 99 %
Identity ..... IR passes test

Code	Packaging
162325.1608	100 g

3,5-Dinitrosalicylic Acid

2-Hydroxy-3,5-Dinitrobenzoic Acid

$C_7H_4N_2O_7$
M = 228.12 g/mol
CAS 609-99-4
EINECS 210-204-3
CS 29182900

Melting Point ..... 174 °C
Solubility Slightly soluble in water. Soluble in alcohol.
Solid

UN2811
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage RT

Warning



H302

162837 3,5-Dinitrosalicylic Acid, 98 % for synthesis

Specifications
Minimum assay (Acidim.) ..... 98 %
Identity ..... IR passes test
Melting range ..... 171-174 °C

Code	Packaging
162837.1608	100 g

1,4-Dioxane

Diethylene Dioxide

$C_4H_8O_2$
M = 88.11 g/mol
CAS 123-91-1
EINECS 204-661-8
CS 29329900
Index Nr. 603-024-00-5

Melting Point ..... 11.8 °C
Boiling Point ..... 101 °C
Density ..... 1.033 kg/l
Refractive Index n20/D 1.4224
Liquid

UN1165
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H225 H319 H335 H351 EUH019 EUH066

361296 1,4-Dioxan stabilized with ~ 2 ppm of BHT for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 1.032-1.034

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0003 %
Peroxides (as H_2O2) ..... 0.005 %*

Water (H_2O) ..... 0.02 %
Suitability for IR spectrometry: ..... passes test
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 215 nm (Cut off) ..... ≥ 10 %
Transmittance at 225 nm ..... ≥ 40 %
Transmittance at 240 nm ..... ≥ 50 %
Transmittance at 260 nm ..... ≥ 70 %
Transmittance at 268 nm ..... ≥ 80 %
Transmittance at 283 nm ..... ≥ 90 %
Transmittance at 300-450 nm ..... ≥ 98 %

Data of interest in HPLC:
Rohrschneider Polarity 4.8
Eluotropic value e° (Al_2O_3) 0.56
Sol. H_2O in solv. at 20 °C ..... miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.
* At the moment of the batch analysis.

Code	Packaging
361296.1611	1000 ml
361296.1612	2.5 l

131296 1,4-Dioxan stabilized with ~ 25 ppm of BHT (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 1.032-1.034
Freezing point ..... ≥ 11.0 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0016 meq/g
Non-volatile matter ..... 0.005 %
Carbonyl compounds (as HCHO) ..... 0.01 %

Peroxides (as H_2O2) ..... 0.005 %*
Acetal (G.C.) ..... 0.05 %
Acetaldehyde (G.C.) ..... 0.005 %
Water (H_2O) ..... 0.05 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5
As	0.05	Au	0.05
B	0.02	Ba	0.1
Be	0.02	Bi	0.05
Ca	0.5	Cd	0.05
Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Ga	0.02	Ge	0.05
Hg	0.05	In	0.05
K	0.1	Li	0.05
Mg	0.1	Mn	0.02
Mo	0.02	Na	0.5
Ni	0.02	P	0.2

* At the moment of the batch analysis.

Code	Packaging
131296.1611	1000 ml
131296.1612	2.5 l

HeBaPeaKTMB

141296 1,4-Dioxan stabilized with ~ 25 ppm of BHT pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 1.032-1.034
Acidity ..... 0.003 meq/g
Non-volatile matter ..... 0.01 %
Carbonyl compounds (as HCHO) ..... 0.1 %
Peroxides (as H_2O2) ..... 0.005 %*
Acetal (G.C.) ..... 0.1 %
Acetaldehyde (G.C.) ..... 0.01 %
Water (H_2O) ..... 0.1 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %
* At the moment of the batch analysis.

Code	Packaging
141296.1611	1000 ml
141296.1612	2.5 l
141296.3516	25 l

161296 1,4-Dioxan, 99.5 % stabilized with ~ 25 ppm of BHT for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 1.032-1.034
Non-volatile matter ..... 0.005 %
Peroxides (as H_2O2) ..... 0.005 %*
Water (H_2O) ..... 0.1 %
* At the moment of the batch analysis.

Code	Packaging
161296.1611	1000 ml

2,2'-Dioxydiethylamine see Diethanolamine

Diphenylamine

N-Phenylaniline, N-Phenylbenzenamine

$(C_6H_5)_2NH$
M = 169.22 g/mol
CAS 122-39-4
EINECS 204-539-4
CS 29214400
Index Nr. 612-026-00-5
Melting Point ..... 54 °C
Boiling Point ..... 302 °C
Solubility ..... water 0.2 g/l at 20 °C
Solid
White crystals, darkens on exposure to light
UN2811
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H331 H311 H301 H373 H410

131828 Diphenylamine (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Melting range ..... 52.5-54.0 °C

Maximum limit of impurities
Residue on ignition (as SO_4) ..... 0.03 %
Solubility in C_2H_5OH ..... passes test
Sensitivity to NO_3 ..... passes test
Aniline (G.C.) ..... 0.1 %
Nitrate (NO_3) ..... passes test
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
131828.1608	100 g

1,5-Diphenylcarbazide

$C_{13}H_{14}N_4O$
M = 242.28 g/mol
CAS 140-22-7
EINECS 205-403-7
CS 29280090
Melting Point ..... 176 °C
Solubility ..... Insoluble in water
Solid
WGK 3
Storage RT

133577 1,5-Diphenylcarbazide (symmetrical) (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (HPLC.) ..... 98.0 %
Identity ..... IR passes test
Melting range ..... 173-176 °C

Maximum limit of impurities
Insoluble matter in CH_3COCH_3 ..... passes test
Residue on ignition (as SO_4) ..... 0.05 %
Sensitivity to chromate ..... passes test

Code	Packaging
133577.1606	25 g

123577 1,5-Diphenylcarbazide for analysis

redox indicator

Specifications
Identity ..... IR passes test

Maximum limit of impurities
Insoluble matter in CH_3COCH_3 ..... passes test
Residue on ignition (as SO_4) ..... 0.1 %

Code	Packaging
123577.1606	25 g
123577.1608	100 g

1,5-Diphenylcarbazone

Phenylazoformic Acid-2-Phenylhydrazide

$C_{13}H_{12}N_4O$
M = 240.27 g/mol
CAS 538-62-5
EINECS 208-698-0
CS 29280090
Melting Point ..... 157 °C
Solubility Insoluble in water. Soluble in alcohol.
Solid
WGK 3
Storage RT

132228 1,5-Diphenylcarbazone (contains diphenylcarbazide) (Reag. Ph. Eur.) for analysis, ACS

Hg reagent

Specifications
Identity ..... IR passes test

Melting range ..... 154-157 °C

Maximum limit of impurities
Insoluble matter in Acetone ..... passes test

Residue on ignition (as SO_4) ..... 0.1 %
Sensitivity to Hg ..... passes test

Code	Packaging
132228.1606	25 g

1,5-Diphenylthiocarbazone see Dithizone

Diphosphorus Pentoxide see di-Phosphorus Pentoxide

n-Dipropylmethane see n-Heptane

2,2'-Dipyridine see 2,2'-Bipyridine

Direct Blue 14 see Trypan Blue (C.I. 23850)

Direct Blue 53 see Evan's Blue (C.I. 23860)

Direct Red 28 see Congo Red (C.I. 22120)

Disodium Pentakis(cyano-C)Nitrosylferrate (2-) see Sodium para-Periodate

НеВаРеактив

Disuccinimidyl Glutarate

DSG

$C_{13}H_{14}N_2O_8$
M = 326.26 g/mol
CAS 79642-50-5
CS 29251995

Melting Point .....142-145 °C
Solid

Storage -20 °C

Warning



H315 H319 H335

A7822 Disuccinimidyl Glutarate BioChemica

Specifications
Assay .....min. 99 %
Identity (NMR) ..... passes test

Code	Packaging
A7822,0500	500 mg
A7822,0001	1 g

Disulfite see Sodium Disulfite

5,5'-Dithio-bis(2-Nitrobenzoic Acid)

2,2'-Dinitro-5,5'-dithiodibenzoic Acid

$C_{14}H_8N_2O_8S_2$
M = 396.36 g/mol
CAS 69-78-3
EINECS 200-714-4
CS 29309099

Melting Point .....240-244 °C
Solid

WGK 1
Storage RT

A3378 5,5'-Dithio-bis(2-Nitrobenzoic Acid) BioChemica

Specifications
Assay (titr.) .....min. 99 %
E 1 %/1 cm
(307 nm; 0.001 %; MeOH) 330-370
Heavy metals (as Pb) ..... max. 0.001 %
Water (K.F.) ..... max. 0.5 %
Fe ..... max. 0.001 %

Code	Packaging
A3378,0005	5 g
A3378,0025	25 g

1,4-Dithio-DL-threit(ol) see DTT

Dithizone

(Phenylazo) Thioformic Acid -2-Phenylhydrazide, 1,5-Diphenylthiocarbazone

$C_{13}H_{12}N_4S$
M = 256.33 g/mol
CAS 60-10-6
EINECS 200-454-1
CS 29309099

Melting Point ..... 168 °C
Solubility ..... Insoluble in water
Solid

WGK 3
Storage RT

131791 Dithizone (Reag. Ph. Eur.) for analysis, ACS

reagent of metals and for complexometry

Specifications
Minimum assay
(Spectrophotometric) .....85.0 %
Identity ..... IR passes test
T.L.C. .....passes test

Maximum limit of impurities
Insoluble matter in Cl3CH .....passes test
Residue on ignition (as SO_4) .....0.3 %
Ratio of absorbances .....≥ 1.55
Sensitivity to Pb .....passes test
Heavy metals (as Pb) .....0.002 %

Code	Packaging
131791.1604	5 g
131791.1606	25 g

DMAC see N,N-Dimethylacetamide

DMEM (Dulbecco's mod. Eagle - Media), powder

Cell culture media

CS 38210000

Storage 2-8 °C

A1315 DMEM (Dulbecco's mod. Eagle - Medium)

Specifications
with 1.0 g/L D(+)-Glucose
with L-Glutamine
with 25 mM HEPES
with Sodium pyruvate
without Sodium hydrogen carbonate

Code	Packaging
A1315,9010	10 L

A1316 DMEM (Dulbecco's mod. Eagle - Medium)

The complete Product description is available on our protocol

Specifications
with 4.5 g/L D(+)-Glucose
with L-Glutamine
without Sodium pyruvate
without Sodium hydrogen carbonate

Code	Packaging
A1316,9050	50 L

A6656 DMEM (Dulbecco's mod. Eagle - Medium)

Specifications
without D(+)-Glucose
without Amino acids
with Sodium pyruvate
without Sodium hydrogen carbonate

Code	Packaging
A6656,9020	20 L

DMEM/F12 (1:1) - Media, powder

Cell culture media

CS 38210000

Storage 2-8 °C

A1318 DMEM/F12 (1:1) - Medium

Specifications
with L-Glutamine
without Sodium hydrogen carbonate

Code	Packaging
A1318,9050	50 L

A9054 DMEM/F12 (1:1) - Medium

Specifications
with L-Glutamine
with 3 g/L HEPES
without Sodium hydrogen carbonate

Code	Packaging
A9054,9020	20 L

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HeBaPeakTMB

DMF see N,N-Dimethylformamide

DMMB see 1,9-Dimethylmethylene Blue Zinc Chloride

DMSO see Dimethyl Sulfoxide

DNA Cot-I, human

Cot-1 DNA, human

CS 38220000

Storage -20 °C

A7639 DNA Cot-I, human

Specifications
Human genomic DNA, predominantly consisting of rapdily annealing repetitive elements
Used to suppress crosshybridization to human repetitive elements in hybridization experiments
Supplied in 10 mM Tris (pH 7.5), 1 mM EDTA
Concentration ..... 1 mg/ml
A_{260}/A_{280} .....approx. 1.78
Average fragment size ..... 50-300 bp
non-repetitive genomic DNA ..... approx. 2 %

Code	Packaging
A7639,0500	0.5 mg

DNA Isolation Kit Terminator Removal Kit see Terminator Removal Kit

DNA Isolation Kit TRItidy G™ see TRItidy G™

DNA Isolation Kits

A3418 DNA Isolation reagent for genomic DNA

CS 38220000

Storage RT

Warning



EUH032 H302 H312 H332

Specifications
From samples of human, animal (incl. mouse tail), plant, yeast, bacterial and viral origin
Phenol-free solution for the rapid isolation of genomic DNA

Code	Packaging
A3418,0050	50 ml

A5193 DNA Isolation Spin-Kit Agarose

For 50 isolations

CS 38220000

Storage RT

Specifications
Kit for the DNA isolation from agarose gels with spin minicolumns
Performance of the electrophoresis in either TAE or TBE buffer
Isolation of DNA fragments in the range of 100 to 6000 bp
Binding capacity of the columns 10 µg
Application of the DNA in cloning and sequencing

Code	Packaging
A5193,0050	50 Isolations

A5176 Terminator Removal Kit

For 50 or 250 reactions

CS 38220000

Storage RT

Specifications
Nucleotide terminators removal kit for cycle sequencing reactions
Suited for sequencing
Advantages: no danger of loosing a pellet, complete terminator removal

Code	Packaging
A5176,0050	50 Reac.

A4051 TRItidy G™

Ready-to-use - solution for simultaneous isolation of RNA, DNA and proteins

* TRItidy G™ is a registered trademark of AppliChem GmbH

CS 38220000

Liquid

UN2821
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage 2-8 °C
Storage protected from light
Storage under argon

Danger



H302 H311+H331 H314 H341 H412

Specifications
Mono-phasic reagent (contains phenol and guanidinium thiocyanate)
Suited for small and large samples
For samples of human, animal, plant and bacterial origin
Improved version of the 'single-step' RNA-isolation method developed by Chomczynski & Sacchi
Isolation of large and small RNA-species (0.1-15 kb) with high purity
Isolation of intact total RNA from tissue and cells, sequential precipitation of DNA and protein

Code	Packaging
A4051,0100	100 ml
A4051,0200	200 ml
A4051,0500	500 ml

DNA Phage Lambda

CS 35079090

Storage -20 °C

A5187 DNA Phage Lambda

Specifications
Concentration ..... 0.2-0.5 mg/ml

Code	Packaging
A5187,0025	0.25 mg
A5187,1000	1 mg

DNA-Dye NonTox

Ethidium Bromide substitute

CS 38220000

Storage 2-8 °C
Storage protected from light

A9555 DNA-Dye NonTox

Specifications
Nonhazardous Ethidium bromide substitu-
Loading buffer with highly sensitive DNA dye
Contains three tracking dyes
Visualization of DNA with blue light and UV light
Ready-to-use: supplied as 6X loading buffer

Code	Packaging
A9555,1000	1 ml

DNA-ExitusPlus™

A7089 DNA-ExitusPlus™

CS 38220000

Storage RT
Storage protected from light

Specifications
Removes DNA and RNA contaminations from surfaces
For cleaning of PCR work stations and equipment
For cleaning of electrophoresis equipment, pipetts, reaction tubes etc.
Delivered as spray bottles or as refill bottles (RF)

Non-enzymatic degradation of DNA and RNA by catalytic and cooperative effects of the components
All components of DNA-ExitusPlus™ are readily biologically degradable and not harmful or toxic for humans.
Doesn't contain aggressive mineral acids or alkaline substances
No toxic fumes. Contains low concentration of alcohol.
Efficacy (ExitusPlus™ activity test) passes test
Functionality (Strand breakage test) ... passes test

Code	Packaging
A7089,0100	100 ml
A7089,0250	250 ml
A7089,0500	500 ml
A7089,1000	1 L
A7089,1000RF	1 L
A7089,2500RF	2.5 L

A7409 DNA-ExitusPlus™ IF

CS 38220000

Storage RT
Storage protected from light

Specifications
Removes DNA and RNA contaminations from surfaces
For cleaning of PCR work stations and equipment
For cleaning of electrophoresis equipment, pipetts, reaction tubes etc.
Delivered as spray bottles or as refill bottles (RF)

indicator-free version of DNA-ExitusPlus™
All components of DNA-ExitusPlus™ IF are readily biologically degradable and not harmful or toxic for humans.
Doesn't contain aggressive mineral acids or alkaline substances
No toxic fumes. Contains low concentration of alcohol.
Efficacy (ExitusPlus™ activity test) passes test
Functionality (Strand breakage test) ... passes test

Code	Packaging
A7409,0100	100 ml
A7409,0250	250 ml
A7409,0500	500 ml
A7409,1000	1 L
A7409,1000RF	1 L
A7409,2500RF	2.5 L

DNase I

Deoxyribonuclease I

Origin from bovine pancreas

M = ~ 31000 g/mol
CAS 9003-98-9
EINECS 232-667-0
CS 35079090

Solid

Storage -20 °C

A3778 DNase I

Salt-free, freeze-dried powder, chromatographically prepared

Specifications
Activity (Kunitz) ..... min. 3000 U/mg

Code	Packaging
A3778,0010	10 mg
A3778,0050	50 mg
A3778,0100	100 mg
A3778,0500	500 mg

DNase Test Agar see DNase Agar (Dehydrated Culture Media) for microbiology

DNPH see 2,4-Dinitrophenylhydrazine moistened with ~ 33 % of H_2O

Dodecamolybdophosphoric Acid see Phosphomolybdic Acid x-hydrate

n-Dodecyl-β-D-Glucopyranoside

$C_{18}H_{36}O_6$
M = 348.48 g/mol
CAS 59122-55-3
CS 29389090

Solid

Storage 2-8 °C

A5890 *n*-Dodecyl-β-D-Glucopyranoside BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 1 %, EtOH ..... -24.5 to -25.5°
Melting point ..... 135-145 °C
Solubility (1 %; EtOH) ..... clear, colorless
α-Isomere (HPLC) ..... max. 0.01 %
n-Dodecanol ..... max. 0.01 %
A (1 cm/0.1 %, Water HPLC grade)
260 nm ..... max. 0.03

Code	Packaging
A5890,0005	5 g

n-Dodecyl-β-D-Maltoside

Lauryl-β-D-Maltoside

$C_{24}H_{46}O_{11}$
M = 510.63 g/mol
CAS 69227-93-6
CS 29389090

Solid

Storage 2-8 °C

A0819 *n*-Dodecyl-β-D-Maltoside BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 1 %, H_2O ..... 46-50°
Solubility (10 %; H_2O) ..... clear, colorless

Code	Packaging
A0819,0001	1 g
A0819,0005	5 g
A0819,0100	100 g

A6817 *n*-Dodecyl-β-D-Maltoside for crystallography

Specifications
Assay (HPLC) ..... min. 99.5 %
α20 °C/D; 1 %, H_2O ..... 46-50°
Solubility (10 %; H_2O; 21 °C) ... clear, colorless
Thermal transition ..... 103 °C (smectic A)
Thermal transition ..... 246 °C (isotropic)
α-Isomere (HPLC) ..... max. 0.01 %
n-Dodecanol (HPLC) ..... max. 0.001 %
A (1 cm/1 % in water HPLC grade)
260 nm ..... max. 0.04

Code	Packaging
A6817,0005	5 g
A6817,0010	10 g
A6817,0100	100 g

Dodecyltrimethylammonium Bromide

Alkyltrimethylammonium Bromide, Lauryltrimethylammonium Bromide, DTAB

$C_{15}H_{34}BrN$
M = 308.35 g/mol
CAS 1119-94-4
EINECS 214-290-3
CS 29239000

Melting Point .....264-266 °C
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Warning



H301 H315 H319 H335 H410

A4147 Dodecyltrimethylammonium Bromide BioChemica

Specifications
Assay (titr.) .....min. 99 %
Solubility (5 %; H_2O) .....clear, colorless

Code	Packaging
A4147,0050	50 g
A4147,0250	250 g

Doxorubicin Hydrochloride

Adriamycin Hydrochloride, Hydroxydaunorubicin

$C_{27}H_{30}ClNO_{11}$
M = 580.00 g/mol
CAS 25316-40-9
EINECS 246-18-3
CS 29419000

Solid

Storage RT

Danger



H340 H350

A4361 Doxorubicin Hydrochloride BioChemica

Specifications
Assay (HPLC) .....min. 98 %
Solubility (1 %; H_2O) .....clear, red-orange

Code	Packaging
A4361,0010	10 mg
A4361,0025	25 mg

Doxycycline Hyclate

Doxycycline Hydrochloride Hemiethanolate Hemihydrate

$C_{22}H_{25}ClN_2O_8 \cdot 0{,}5H_2O \cdot 0{,}5C_2H_6O$
M = 512.94g/mol
CAS 24390-14-5
CS 29413000

Solid

Storage protected from light
Storage 2-8 °C

Warning



H302 H315 H319 H335

A2951 Doxycycline Hyclate BioChemica

Specifications
Assay (HPLC, calc. on H_2O and EtOH free subst.) .....min. 95 %
Solubility (1 %; H_2O) .....clear, yellow-green
Ethanol .....max. 7 %
Water .....max. 5 %

Code	Packaging
A2951,0025	25 g

Doxycycline Hydrochloride Hemiethanolate Hemihydrate see Doxycycline Hyclate

DPX, mounting medium fast (toluene base)

CS 38220000

Density .....0.945 kg/l
Refractive Index n20/D 1.52
Liquid

UN1992
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 1
Storage RT

Danger



H225 H332 H312 H319 H335 H315

255254 DPX, mounting medium fast (toluene base) for clinical diagnosis

For microscopy, mounting medium

Specifications
Refractive Index n20/D 1.515-1.525

Code	Packaging
255254.1608	100 ml
255254.1610	500 ml

Drigalski Lactose Agar

CS 38220000

Solid

Storage RT

A5731 Drigalski Lactose Agar

Specifications
pH before autoclaving ..... approx. 7.3 (20 °C)

Composition:
Agar ..... 15.0 g/L
Bile salts ..... 1.5 g/L
Bromothymol blue ..... 0.15 g/L
Crystal Violet ..... 0.002 g/L
Lactose ..... 13.0 g/L
Peptones ..... 17.4 g/L
Sodium chloride ..... 2.0 g/L
Sucrose ..... 17.0 g/L

Code	Packaging
A5731,0500	500 g

DSG see Disuccinimidyl Glutarate

DTAB see Dodecyltrimethylammonium Bromide

DTE

1,4-Dithio-DL-threit(ol), 2,3-Dihydroxybutane-1,4-dithiol, Cleland's Reagent

$C_4H_{10}O_2S_2$
M = 154.25 g/mol
CAS 6892-68-8
EINECS 229-998-8
CS 29309099

Melting Point ..... 83-85 °C
Solid

WGK 1
Storage 2-8 °C

Warning



H315 H319 H335

A1102 DTE BioChemica

Specifications
Assay (iodometr.) ..... min. 99 %
pH (0.1 M; H_2O; 20 °C) 4.0-6.0
Solubility (5 %; H_2O) ..... clear, colorless

Code	Packaging
A1102,0005	5 g
A1102,0025	25 g
A1102,9025	25 kg

DTPA see Diethylentriaminepentaacetic Acid

DTT

Cleland's Reagent, 1,4-Dithio-DL-Threit(ol), 2,3-Dihydroxybutane-1,4-Dithiol

$C_4H_{10}O_2S_2$
M = 154.25 g/mol
CAS 3483-12-3
EINECS 222-468-7
CS 29309099

Melting Point ..... 42-44 °C
Solubility ..... 1500 g/L (H_2O)
Solid

WGK 3*
Storage 2-8 °C

Warning



H302 H315 H319

A2948 DTT for molecular biology

Attention: Product may form lumps when stored

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (iodometr.) ..... min. 99.5 %
pH (0.1 M; H_2O; 20 °C) 4.0-6.0
DTT (oxidized) ..... max. 0.5 %
Water (K.F.) ..... max. 0.5 %
A (1 cm/0.02 M in H_2O)
283 nm ..... max. 0.05

Code	Packaging
A2948,0005	5 g
A2948,0010	10 g
A2948,0025	25 g

A1101 DTT BioChemica

Attention: Product may form lumps when stored

Specifications
Assay (iodometr.) ..... min. 99.5 %
Melting point ..... 40-44 °C
pH (0.1 M; H_2O; 20 °C) 4.0-6.0
DTT (oxidized) ..... max. 0.5 %
Water (K.F.) ..... max. 0.5 %
A (1 cm/0.02 M in H_2O)
283 nm ..... max. 0.05

Code	Packaging
A1101,0005	5 g
A1101,0010	10 g
A1101,0025	25 g
A1101,0100	100 g
A1101,1000	1 kg
A1101,5000	5 kg
A1101,9010	10 kg

DTT solution (1 M)

CS 38220000

Liquid

Storage 2-8 °C
Storage under argon

A3668 DTT solution (1 M) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
pH (20 °C; H_2O) 3.0-5.0

Composition:
DTT ..... 154.25 g/L

Code	Packaging
A3668,0050	50 ml
A3668,0100	100 ml

Dulcitol

Dulcite

$C_6H_{14}O_6$
M = 182.17 g/mol
CAS 608-66-2
EINECS 210-165-2
CS 29054900

Melting Point ..... 185-188 °C
Solid

WGK 1
Storage RT

A4379 Dulcitol BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
Heavy metals ..... max. 0.001 %
Sulfated ash ..... max. 0.15 %
Water (K.F.) ..... max. 1 %

Code	Packaging
A4379,0100	100 g

Dye Terminator Removal by Gel Filtration see DextraSEC 96W

E-64

N-(trans-Epoxysuccinyl)-L-Leucine-4-Guanidinobutylamide

$C_{15}H_{27}N_5O_5$
M = 357.40 g/mol
CAS 66701-25-5
CS 29251995

Solid

Storage -20 °C

A2157 E-64

Specifications
Assay (HPLC) ..... min. 99 %
α23 °C/D, (c = 2, 0.1 M HCl ..... 21-26°
Solubility (2 % H_2O) ..... clear, colorless

Code	Packaging
A2157,0005	5 mg
A2157,0010	10 mg
A2157,0025	25 mg

HeBaPeaKTMB

EC Broth see EC Medium (Dehydrated Culture Media) for microbiology

Ectoine

(S)-2-Methyl-1,4,5,6-Tetrahydropyrimidine-4-Carboxylic Acid, THP B

$C_6H_{10}N_2O_2$
M = 142.16 g/mol
CAS 96702-03-3
CS 29335995

Solid

WGK 1
Storage RT

Warning



H315 H319 H335

A5814 Ectoine

Specifications
Assay (HPLC) .....min. 95 %
α20 °C/D ..... 139° - 145°
Endotoxins .....max. 3000 EU/g
Heavy metals (as Pb) ..... max. 0.001 %
pH (2 %; H_2O) 6.0-8.0
Sulfated ash ..... max. 0.2 %
Hydroxyectoine (HPLC) ..... max. 5 %
Water (K.F.) .....max. 0.5 %
Chloride .....max. 0.05 %

Code	Packaging
A5814,0010	10 g

EDAC see EDC Hydrochloride

EDC Hydrochloride

N-Ethyl-N'-(3-Dimethylaminopropyl)-Carbodiimide Hydrochloride, EDAC

$C_8H_{17}N_3 \cdot HCl$
M = 191.70 g/mol
CAS 25952-53-8
EINECS 247-361-2
CS 29252900

Solid

Storage -20 °C

Danger



H315 H318 H335

A1438 EDC Hydrochloride BioChemica

Specifications
Assay (titr.) .....min. 99 %

Code	Packaging
A1438,0005	5 g

EDTA

Ethylenedinitriletetraacetic Acid, Ethylenediaminotetraacetic Acid, Edetic Acid, Titriplex II

$C_{10}H_{16}N_2O_8$
M = 292.25 g/mol
CAS 60-00-4
EINECS 200-449-4
CS 29224985

Melting Point .....220 °C (dec.)
Solubility ..... 0.5 g/L (H_2O)
Solid

WGK 2
Storage RT

Warning



H319

131026 EDTA for analysis, ACS

Specifications
Assay (Compl.) ..... 99.4-100.6 %
Identity .....IR passes test

Maximum limit of impurities
Insoluble matter in NH_4OH ..... 0.005 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) .....0.005 %
Nitrilotriacetic Acid [$(CH_2COOH)_3N$] .....0.1 %
Heavy metals (as Pb) .....0.001 %
Ca .....0.001 %
Cu .....0.001 %
Fe .....0.001 %
Mg .....0.0005 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
131026.1210	500 g
131026.1211	1000 g
131026.0914	5 kg
131026.0416	25 kg

141026 EDTA (USP-NF, BP, Ph. Eur) pure, pharma grade

Specifications
Assay (Compl.) ..... 98.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution .....passes test
Residue on ignition (as SO_4) ..... 0.2 %
Chloride (Cl) .....0.02 %
Residual solvents (Ph. Eur./USP) .passes test
Nitrilotriacetic Acid [$(CH_2COOH)_3N$] .....0.1 %
Heavy metals (as Pb) ..... 0.002 %
Fe ..... 0.005 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141026.1211	1000 g

A5097 EDTA for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
Assay (titr.) .....min. 99 %
Appearance ..... white to off-white powder
pH (1 %; H_2O ; 20 °C) .....approx. 2.5
Water (K.F.) ..... max. 0.25 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A5097,0250	250 g
A5097,0500	500 g
A5097,1000	1 kg

A1103 EDTA BioChemica

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Insol. matter
(0.1 M; 1 M NaOH) ..... passes test
pH (1 %; H_2O; 25 °C) ..... approx. 2.5
Water ..... max. 0.25 %
Fe ..... max. 0.001 %
A (1 cm/0.1 M in 1 M NaOH)
260 nm ..... max. 1.5
280 nm ..... max. 0.3

Code	Packaging
A1103,0250	250 g
A1103,0500	500 g
A1103,1000	1 kg

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EDTA Calcium Disodium Salt

Ethylenediaminotetraacetic Acid Calcium Disodium Salt, Ethylenedinitriletetraacetic Acid Calcium Disodium Salt, Calcium Disodium Edetate

$C_{10}H_{12}CaN_2Na_2O_8$
M = 374.27 g/mol
CAS 62-33-9
EINECS 200-529-9
CS 29224985

Solubility ..... Soluble in water.
Solid

WGK 2
Storage away from direct light.

144559 EDTA Calcium Disodium Salt (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) calc. a.d.s. ..... 98.0-102.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 20 % solution 6.5-8.0

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... passes test
Chloride (Cl) ..... 0.1 %
Magnesium-chelanting
substances ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Ethylenediaminetetraacetic
Acid Disodium Salt ..... 1.0 %
Nitrilotriacetic Acid [$(CH_2COOH)_3N$] ..... 0.1 %
Water (H_2O) .....5.0-13.0 %
Heavy metals (as Pb) ..... 0.002 %
Cu .....0.002 %
Fe .....0.008 %
Ni .....0.002 %
Pb .....0.002 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
144559.1211	1000 g
144559.0914	5 kg

EDTA Dipotassium Salt 2-hydrate

Dipotassium Edetate 2-hydrate Ethylenediaminotetraacetic Acid Dipotassium Salt 2-hydrate, Ethylenedinitrilotetraacetic Acid Dipotassium Salt 2-hydrate

$C_{10}H_{14}K_2N_2O_8 \cdot 2H_2O$
M = 404.47 g/mol
CAS 25102-12-9
EINECS 217-895-0
CS 29224985

Solid

WGK 2
Storage RT

A4220 EDTA dipotassium salt 2-hydrate BioChemica

Specifications
Assay (titr.) .....min. 98 %
Heavy metals (as Pb) .....max. 0.005 %
Insoluble matter .....max. 0.01 %
pH (5 %; H_2O) ..... 4.0-6.0 (25 °C)
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %
Ca ..... max. 0.001 %
Fe .....max. 0.001 %
Na .....max. 0.1 %
Pb .....max. 0.001 %

Code	Packaging
A4220,5000	5 kg
A4220,9010	10 kg

EDTA Disodium Salt 2-hydrate

Disodium Edetate 2-hydrate, Ethylenediaminotetraacetic Acid Disodium Salt 2-hydrate, Ethylenedinitrilotetraacetic Acid Disodium Salt 2-hydrate

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$
M = 372.24 g/mol
CAS 6381-92-6
EINECS 205-358-3
CS 29224985

Solubility ..... 100 g/L (H_2O)
Solid

WGK 2
Storage RT

131669 EDTA Disodium Salt 2-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Compl.) ..... 99.0-101.0 %
Identity .....IR passes test
pH of 5 % solution 4.0-5.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 150 °C ..... 8.7-11.4 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Nitrilotriacetic Acid [$(CH_2COOH)_3N$] ..... 0.05 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0005 %
Ca ..... 0.002 %
Cu ..... 0.0001 %
Fe ..... 0.0005 %
Ni .....0.0005 %
Pb .....0.0005 %

Code	Packaging
131669.1209	250 g
131669.1210	500 g
131669.1211	1000 g
131669.0914	5 kg
131669.0416	25 kg

631669 EDTA Disodium Salt 2-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade

Specifications
Assay (Compl.) ..... 98.5-101.0 %
Assay (Compl.) (calc. a.a.s) ..... 99.0-101.0 %
Identity according to Pharmacopoeias:
Complexone ..... passes test
Sodium ..... passes test
A .....IR passes test
pH sol. 5 % 4.0-5.5

Maximum limit of impurities
Appearance of solution
Appearance Clear < formazin I ..... passes test
Appearance Colourless ..... passes test
Loss on drying at 150 °C .....8.7-11.4 %
Residual solvents (Ph. Eur./USP) . passes test
Nitrilotriacetic acid [$(CH_2COOH)_3N$] ..... 0.1 %
Heavy metals (as Pb) ..... 0.0020 %
Ca .....passes test
Fe .....0.0080 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
631669.0914	5 kg

141669 EDTA Disodium Salt 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) ..... 99.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 4.0-5.0

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Loss on drying at 150 °C 6h .....8.7-11.4 %
Chloride (Cl) ..... 0.02 %
Sulfate (SO_4) ..... 0.1 %
Residual solvents (Ph. Eur./USP) . passes test
Nitrilotriacetic Acid [$(CH_2COOH)_3N$] ..... 0.1 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0001 %
Ca .....passes test
Cu .....0.002 %
Fe .....0.0005 %
Ni .....0.002 %
Pb .....0.002 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141669.1211	1000 g
141669.0914	5 kg
141669.0416	25 kg

201669 EDTA Disodium Salt 2-hydrate (F.C.C.) food grade

Specifications
Assay ($C_{10}H_{14}N_2Na_2O_8.2H_2O$) .. 99.0-101.0 %
pH sol. 1 % 4.3-4.7
Calcium ..... passes test
Nitrilotriacetic Acid ..... 0.1 %
Lead, not more than ..... 10 ppm
Heavy metals (as Pb),
not more than ..... 0.002 %
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201669.0416	25 kg

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

A2937 EDTA Disodium Salt 2-hydrate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99 %
Loss on drying ..... max. 10.0 %
pH (5 %; H_2O; 25 °C) 4-5
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.01 %
As ..... max. 0.0005 %
Cu ..... max. 0.001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A2937,0100	100 g
A2937,0250	250 g
A2937,0500	500 g
A2937,1000	1 kg

A1104 EDTA Disodium Salt 2-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 25 °C) 4.0-5.0
Loss on drying ..... max. 10 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.01 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.2
280 nm ..... max. 0.05

Code	Packaging
A1104,0250	250 g
A1104,0500	500 g
A1104,1000	1 kg
A1104,5000	5 kg

EDTA Disodium Salt 0.1 mol (37.224 g $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$) to prep. 1 l of 0.1M sol.

CAS 6381-92-6
EINECS 205-358-3
CS 29224985
Liquid
WGK 1
Storage RT

303118 EDTA Disodium Salt 0.1 mol (37.224g $C_{10}H_{14}N_2Na_2O_8.2H_2O$) to prep.1l of 0.1M sol.

Specifications
Titer at 20 °C 0.998-1.002
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
303118.1920	1 bottle

EDTA Disodium Salt 0.1 mol/l (0.1M)

Disodium Edetate, Ethylenediaminotetraacetic Acid Disodium Salt, Ethylenedinitrilotetraacetic Acid Disodium Salt, Titriplex III

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$
M = 372.24 g/mol
CAS 6381-92-6
EINECS 205-358-3
CS 29224985
Density ..... 1.017 kg/l
Liquid
WGK 1
Storage RT

181670 EDTA Disodium Salt 0.1 mol/l (0.1M) volumetric solution

Indicator: Eriochrome Black T (ZnO)

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181670.1211	1000 ml
181670.1212	2.5 l
181670.1214	5 l
181670.1315	10 l

EDTA Disodium Salt 0.05 mol/l (0.05M)

Disodium Edetate, Ethylenediaminotetraacetic Acid Disodium Salt, Ethylenedinitrilotetraacetic Acid Disodium Salt, Titriplex III

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$
M = 372.24 g/mol
CAS 6381-92-6
EINECS 205-358-3
CS 29224985
Density ..... 1.008 kg/l
Liquid
WGK 1
Storage RT

182120 EDTA Disodium Salt 0.05 mol/l (0.05M) volumetric solution

Indicator: Eriochrome Black T (ZnO)

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182120.1211	1000 ml
182120.1214	5 l
182120.1315	10 l

EDTA Disodium Salt 0.01783 mol/l (0.01783N)

Disodium Edetate, Ethylenediaminotetraacetic Acid Disodium Salt, Ethylenedinitrilotetraacetic Acid Disodium Salt, Titriplex III

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$
M = 372.24 g/mol
CAS 6381-92-6
CS 38220000
Liquid
WGK 1
Storage RT

187087 EDTA Disodium Salt 0.01783 mol/l (0.01783N) volumetric solution

1ml complies 1°dH

Specifications
Factor limits 0.998-1.002

Code	Packaging
187087.1211	1 L

EDTA Disodium Salt 0.01 mol/l (0.01M)

Disodium Edetate, Ethylenediaminotetraacetic Acid Disodium Salt, Ethylenedinitrilotetraacetic Acid Disodium Salt, Titriplex III

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$
M = 372.24 g/mol
CAS 6381-92-6
EINECS 205-358-3
CS 29224985

Density .....1.000 kg/l
Liquid

WGK 1
Storage RT

181671 EDTA Disodium Salt 0.01 mol/l (0.01M) volumetric solution

Indicator: Eriochrome Black T (ZnO)

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181671.1211	1000 ml
181671.1212	2.5 l
181671.1315	10 l

EDTA solution pH 8.0 (0.5 M)

EINECS 205-358-3
CS 38220000

Liquid

WGK 1
Storage RT

A4892 EDTA solution pH 8.0 (0.5 M) for molecular biology

Filtered, autoclaved, sterile

Specifications
DNases/RNases/Proteases ..... not detectable
pH (20 °C) .....8.0 ± 0.1

Composition:
EDTA · Na_2 · $2H_2O$ ..... 186.12 g/L
NaOH (10 M) ..... approx. 50 ml/L

Code	Packaging
A4892,0100	100 ml
A4892,0500	500 ml
A4892,1000	1 L

A3145 EDTA solution pH 8.0 (0.5 M)

Filtered, autoclaved, sterile

Specifications
pH (20 °C) .....8.0 ± 0.1

Composition:
EDTA · Na_2 · $2H_2O$ ..... 186.1 g/L
NaOH (10 M) ..... approx. 50 ml/L

Code	Packaging
A3145,0500	500 ml
A3145,1000	1 L

EDTA Tetrasodium Salt 2-hydrate

Tetrasodium Edetate 2-hydrate, Ethylenediaminotetraacetic Acid Tetrasodium Salt 2-hydrate, Ethylenedinitrilotetraacetic Acid Tetrasodium Salt 2-hydrate

$C_{10}H_{12}N_2Na_4O_8 \cdot 2H_2O$
M = 416.21 g/mol
CAS 10378-23-1
EINECS 200-573-9
CS 29224985

Melting Point .....400 °C (dec.)
Solubility ..... 1000 g/L (H_2O)
Solid

WGK 2
Storage RT

Danger



H318 H302

A1105 EDTA Tetrasodium Salt 2-hydrate BioChemica

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) .....max. 0.001 %
pH (1 %; H_2O; 25 °C) .....approx. 11.0
Loss on drying ..... 7-10 %

A (1 cm/0.1 M in H_2O)
260 nm ..... max. 1.5
280 nm ..... max. 0.2

Code	Packaging
A1105,0500	500 g
A1105,1000	1 kg
A1105,5000	5 kg

EDTA Tetrasodium Salt 4-hydrate

Tetrasodium Edetate 4-hydrate, Ethylenediaminotetraacetic Acid Tetrasodium Salt 4-hydrate, Ethylenedinitrilotetraacetic Acid Tetrasodium Salt 4-hydrate

$Na_4C_{10}H_{12}N_2O_8 \cdot 4H_2O$
M = 452.24 g/mol
CAS 13235-36-4
EINECS 200-573-9
CS 29224985

Solubility ..... water 1,030 g/l at 20 °C
Solid

WGK 2
Storage RT

Danger



H302 H318

141952 EDTA Tetrasodium Salt 4-hydrate pure

Specifications
Assay (Compl.) .....98 %
Identity .....IR passes test
pH sol. 1 % 10.4-11.4

Insoluble matter in H_2O ..... 0.02 %
Chloride (Cl) ..... 0.02 %
Sulfate (SO_4) ..... 0.05 %
Heavy metals (as Pb) ..... 0.002 %

Cu .....0.0005 %
Fe .....0.001 %
Ni .....0.001 %
Pb .....0.001 %

Code	Packaging
141952.1211	1000 g
141952.0914	5 kg

EDTA Tripotassium Salt 2-hydrate

$C_{10}H_{13}K_3N_2O_8 \cdot 2H_2O$
M = 442.57 g/mol
CAS 65501-24-8
EINECS 241-543-5
CS 29224985

Melting Point ..... 182 °C
Solubility ..... Soluble in water.
Solid

WGK 2
Storage RT

144108 EDTA Tripotassium Salt 2-hydrate pure

Specifications
Assay (Compl.) .....98 %
Identity .....IR passes test

pH of 5 % solution 8.0-9.0
Insoluble matter in H_2O ..... 0.01 %
Heavy metals (as Pb) ..... 0.01 %

Ca .....0.005 %
Fe .....0.005 %
Mg .....0.005 %

Code	Packaging
144108.0416	25 kg

rHu EGF

recombinant Human Epidermal Growth Factor

Origin from *E. coli*

M = 6.22 kDa
CS 29371900

Storage -20 °C

A8327 rHu EGF

Lyophilized without additives

• ED_{50} calculated by the dose-dependent proliferation of murine BALB/c 3T3 cells

Specifications
We recommend to reconstitute in sterile water at 0.1 mg/ml to prepare a stock solution, which can then be further diluted to other aqueous solutions.

Endotoxin (LAL test) .....max. 0.1 EU/µg
Assay (RP-HPLC) .....min. 95 %
Assay (SDS-PAGE) .....min. 95 %
Biological aktivity (ED_{50}) .....max. 0.1 µg/ml

Code	Packaging
A8327,0100	100 µg

EGTA

Ethylenedioxy-bis-(Ethylenenitrilo)-Tetraacetic Acid, Ethylene Glycol-bis-(β-Aminoethyl Ether)-N,N,N',N'-Tetraacetic Acid

$C_{14}H_{24}N_2O_{10}$
M = 380.35 g/mol
CAS 67-42-5
EINECS 200-651-2
CS 29225000

Melting Point .....240 °C (dec.)
Solid

Storage RT

A0878 EGTA for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Residue on ignition .....max. 0.1 %
Water .....max. 1.0 %
Fe ..... max. 0.001 %

Code	Packaging
A0878,0005	5 g
A0878,0025	25 g
A0878,0100	100 g
A0878,1000	1 kg
A0878,5000	5 kg

Ehrlich's Reagent see 4-(Dimethylamino) Benzaldehyde

Elastase, neutrophil Grade 2, human

Ethylenedioxy-bis-(ethylenenitrilo)-tetraacetic Acid, Ethylene glycol-bis-(β-aminoethyl ether)-N,N,N',N'-tetraacetic Acid

Origin from human neutrophil

CAS 9004-06-2
CS 35079090

Liquid

Storage 2-8 °C

A6959 Elastase, neutrophil Grade 2, human

[EC 3.4.21.37]

Supplied liquid in 50 mM sodium acetate, pH 5.5, 600 mM NaCl

Specifications
Activity (37 °C) .....min. 10 U/ml

Protein .....approx. 1 mg/ml
Spec. Activity .....min. 10 U/mg Protein

Code	Packaging
A6959,0001	1 mg

Elatericin B see Cucurbitacin I

Electrophoresis Size Marker/Standard DNA

A8368 DNA Ladder 50 bp

DNA size marker for gel electrophoresis of small DNA

CS 29349990

Storage -20 °C

Specifications
Fragment sizes in bp: 700; 500; 400; 350; 300 (x2); 250; 200; 150; 100; 50

Number of bands: 10
Concentration ..... 0.1 mg/ml

Code	Packaging
A8368,0050	50 µg
A8368,0250	250 µg

A5191 DNA Ladder 100 bp

CS 29349990

Storage -20 °C

Specifications
Fragment sizes in bp: 1000; 900; 800; 700; 600; 500 (x2); 400; 300; 200; 100

Number of bands: 10
Concentration ..... 0.2 mg/ml

Code	Packaging
A5191,0005	50 µg
A5191,0025	250 µg

A3470 DNA Ladder 100 bp (lyophilised)

DNA size standard for medium-sized fragments and PCR products

CS 29349990

Storage -20 °C

Specifications
Fragment sizes in bp: 1000; 900; 800; 700; 600; 500 (x2); 400; 300; 200; 150; 100

supplied with loading buffer (1X)
recommended loadings: 0.4-0.8 µg/lane
Extremely stable: storage for at least 4 years

at -20 °C possible
Number of bands: 11

Code	Packaging
A3470,0050	50 µg

A5216 DNA Ladder 100 bp plus

CS 29349990

Storage -20 °C

Specifications
Fragment sizes in bp: 1500; 1000 (x2); 900; 800; 700; 600; 500 (x2); 400; 300; 200; 100

Number of bands: 11
Concentration ..... 0.2 mg/ml

Code	Packaging
A5216,0005	50 µg
A5216,0025	250 µg

A5207 DNA Ladder 1 kb

CS 29349990

Storage -20 °C

Specifications
Fragment sizes in bp: 10.0, 8.0, 6.0, 5.0, 4.0, 3.0 (x2), 2.5, 2.0, 1.5, 1.0 (x2), 0.75, 0.5, 0.25
Number of bands: 11
Concentration .....0.2 mg/ml

Code	Packaging
A5207,0005	50 µg
A5207,0025	250 µg

НеваРеактив

НеваРеактив

A3660 DNA Ladder Mix 100-5000 (lyophilised)

DNA size standard for medium-sized fragments and plasmids

CS 29349990

Storage -20 °C

Specifications
Fragment sizes in bp: 5000; 4000; 3000; 2500; 2000; 1500; 1000; 900; 800; 700; 600; 500

(x2); 400; 300; 200; 150; 100
Supplied with loading buffer (1X)
Recommended loadings: 0.5-0.8 µg/lane

Extremely stable: storage for at least 4 years at -20 °C possible
Number of bands: 17

Code	Packaging
A3660,0050	50 µg

A5194 DNA Marker Phage Lambda - Sty I

CS 29349990

Storage -20 °C

Specifications
Fragment sizes in bp: 19329*; 7743; 6223; 4254*; 3472; 2690; 1882, 1489; 925; 421; 74

Number of bands: 11
Concentration ..... 0.2-0.5 mg/ml

Code	Packaging
A5194,0005	50 µg

Electrophoresis Size Marker/Standard Protein

A5238 Protein Marker I (14-116)

CS 38220000

Storage -20 °C

Specifications
Fragment sizes in kDa: 116.0; 97.4; 66.2; 37.6; 28.5; 18.4; 14.0.

The bands of 3 µl marker may be easily visualized with Coomassie in an polyacrylamide gel.
Number of bands: 7

Code	Packaging
A5238,0500	500 µl

A5418 Protein Marker II (6.5-200) prestained

CS 38220000

Storage -20 °C

Specifications
Protein sizes in kDa: 200.0; 116.0; 68.0; 43.0; 30.0; 20.0; 14.4; 6.5 (corresponding to 240 to

10 kDa apparent MW, depending on electrophoresis conditions)
Application of 5 µl marker results in clearly visible bands in PAGE

Number of protein bands: 8
Loading ..... 5 µl/lane

Code	Packaging
A5418,0250	250 µl

A4402 Protein Marker III (6.5-200)

CS 38220000

Storage -20 °C

Specifications
Protein sizes in kDa: 212; 118; 66; 45; 29; 20; 14; 6,5

The bands of 2.5 µl marker are easily visualized with Coomassie staining in PAGE.

Number of bands: 8
Loading ..... 1-5 µl/lane

Code	Packaging
A4402,0001	1 ml

A3993 Protein Marker IV (10-150)

CS 38220000

Storage -20 °C

Specifications
Fragment sizes in kDa: 150; 100; 80; 60; 40; 30; 20; 10

The bands of 2.5 µl marker may be easily visualized with Coomassie in an polyacrylamide

gel.
Number of bands: 8

Code	Packaging
A3993,0500	500 µl

A8889 Protein Marker VI (10-245) prestained

CS 38220000

Storage -20 °C

Specifications
Fragment size range in kDa: 10-245
Three-color protein standard with 12 pre-stained. Proteins are covalently coupled with a blue chromophore except for two reference bands (one green and one red band at 25 kDa

and 75 kDa respectively).
Number of bands: 12

Code	Packaging
A8889,0500	500 µl

β-Elemonic Acid

Elemadienonic Acid, (13α,14β,17α,2S)-3-Oxolanosta-8,24-dien-21-oic Acid

Origin from *Boswellia serrata*

$C_{30}H_{46}O_3$
M = 454.70 g/mol
CAS 28282-25-9
CS 29183000

Storage 2-8 °C

A9564 β-Elemonic Acid for HPLC

Specifications
Assay .....min. 98 %

Code	Packaging
A9564,0010	10 mg
A9564,0020	20 mg

EMB Agar see Eosin Methylene Blue Agar (EMB) (Dehydrated Culture Media) for microbiology

Embalming Mixture

CS 38220000
Density ..... 0.941 kg/l
Solubility ..... Miscible with water
Liquid

UN1992
Class/PG 3(6.1)/III
ADR 3(6.1)/III · IMDG 3(6.1)/III · IATA 3(6.1)/III
WGK 1
Storage RT

Danger



H225 H311 H301 H317 H314

214632 Embalming Mixture technical grade

Composition:
Phenol 90 % ..... 12.5 ml
Ethanol 96 % ..... 62.5 ml
Formaldehyde solution 35-40 % ..... 7.5 ml
Glycerol ..... 17.5 ml

Code	Packaging
214632.1214	5 l
214632.0716	25 l

Emerald Green see Brilliant Green (C.I. 42040)

Empetrin see Delphinidin-3-Galactoside Chloride

НеваРеактив

Printed on FSC® certified paper from well managed forests

Endo Agar Base

CS 38220000

Solid

Storage RT
Storage protected from light

A3955 Endo Agar Base

• **Attention**: Required for the final composition of this agar, but not included in the Endo Agar Base composition is Fuchsin Basic (A1795). Please order separately

Specifications
pH before autoclaving ..... approx. 7.4 (20 °C)

Composition:
Agar .....15.0 g/L
Buffers .....2.5 g/L
Lactose .....10.0 g/L
Peptones .....12.0 g/L
Sodium sulfite .....2.5 g/L

Code	Packaging
A3955,0500	500 g

Englerin A

Origin from *Phyllanthus engleri*

$C_{26}H_{34}O_{16}$
M = 442,54 g/mol
CAS 1094250-15-3
CS 29321900

Solid

Storage 2-8 °C

Warning



H302

A8907 Englerin A

Specifications
Assay .....min. 95 %

Code	Packaging
A8907,0010	10 mg

Enhanced ChemiLuminescence Detection Kit see CheLuminate-HRP PicoDetect

Enhanced ChemiLuminescence Detection Kit FemtoDetect see CheLuminate-HRP FemtoDetect

Enhanced ChemiLuminescence Detection Kit FemtoDetect Plus see CheLuminate-HRP FemtoDetect Plus

Enhanced ChemiLuminescence Detection Kit PicoDetect Extended see CheLuminate-HRP PicoDetect Extended

Eosin B (C.I. 45400)

4',5'-Dibromo-2',7'-Dinitrofluorescein Disodium Salt

$C_{20}H_6Br_2N_2Na_2O_9$
M = 624.08 g/mol
CAS 548-24-3
EINECS 208-943-1
CS 32041200

Solid

Storage RT

A0821 Eosin B (C.I. 45400)

Specifications
Assay (photometr.) .....min. 90 %

λ_{max} .....510-520 nm
Loss on drying ..... max. 10 %

Code	Packaging
A0821,0100	100 g

Eosin for fast staining (Panoptic No. 2)

CS 38220000

Density .....1.006 kg/l
Solubility .....Miscible with water
Liquid

WGK 1
Storage RT

253999 Eosin for fast staining (Panoptic No. 2) for clinical diagnosis

Blood smear staining or medullary smear staining

Composition:
Eosin Yellowish ..... 0.8 g
Buffer solution pH 7 s.q.m ..... 1000 ml
Identity .....UV passes test
pH .....7.00 ± 0.05

Maximum limit of impurities
ABS at λ 517 nm; dil. 1:100 ..... 0.948-1.048
Staining suitability ..... passes test

Code	Packaging
253999.1210	500 ml
253999.1212	2.5 l

Eosin Yellowish (C.I. 45380)

Acid Red 87, Eosin G, Eosin Y, 2',4',5',7'-Tetrabromofluorescein Disodium Salt

$C_{20}H_6Br_4Na_2O_5$
M = 691.88 g/mol
CAS 17372-87-1
EINECS 241-409-6
CS 32041200

Solid

WGK 1
Storage RT

Warning



H319

131299 Eosin Yellowish (C.I. 45380) for analysis, ACS

Adsorption indicator

Specifications
Identity .....IR passes test
Suitability:
as adsorption indicator ..... passes test

T.L.C. .....passes test

Maximum limit of impurities
Insoluble matter in H_2O .....passes test
Loss on drying at 110 °C ..... 8 %
Cu .....0.005 %
Fe ..... 0.005 %
Ni ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
131299.1606	25 g

251299 Eosin Yellowish (C.I. 45380) for clinical diagnosis

...s for Hematoxylin-Eosin staining, in human ...ynaecological samples

Specifications
Identity ..... IR passes test
T.L.C. .....passes test

Maximum limit of impurities
Loss on drying at 110 °C .....8 %
Suitability for
hematoxylin - eosin stain ..... passes test

Code	Packaging
251299.1606	25 g
251299.1608	100 g

A0822 Eosin Yellowish (C.I. 45380)

Specifications
Assay (photometr.) .....min. 90 %
λ_{max} ..... 514-520 nm
Loss on drying .....max. 10 %

Code	Packaging
A0822,0025	25 g
A0822,0100	100 g

Eosin Yellowish, aqueous solution

$C_{20}H_6Br_4Na_2O_5$
M = 691.86 g/mol
CAS 17372-87-1
EINECS 241-409-6
CS 32041200

Density .....1.018 kg/l
Liquid

WGK 1
Storage RT

173149 Eosin Yellowish solution 2 %

Composition:
Eosin Yellowish .....20 g
Water (s.q.m) .....1000 ml

Code	Packaging
173149.1207	50 ml

Eosin Yellowish alcoholic solution 1 %

CS 38220000

Density .....0.827 kg/l
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225

256879 Eosin Yellowish alcoholic solution 1 % for clinical diagnosis

Solution for Hematoxylin-Eosin staining, in human and gynaecological samples

Composition:
Eosin Yellowish ..... 10 g
Acetic Acid glacial .....1 ml
Water ..... 50 ml
Ethanol 96 % ..... 1000 ml

Code	Packaging
256879.1210	500 ml
256879.1612	2,5 l

Eosin Yellowish hydroalcoholic solution 1 %

CS 32041200

Density .....0.997 kg/l
Liquid

WGK 1
Storage RT

251301 Eosin Yellowish hydroalcoholic solution 1 % for clinical diagnosis

Solution for Hematoxylin-Eosin staining, in human and gynaecological samples

Composition:
Eosin Yellowish ..... 1 g
Ethanol absolute .....10 ml
Water .....90 ml

Code	Packaging
251301.1609	250 ml
251301.1611	1000 ml

Eosin-Methylene blue - Solution acc. to May-Grünwald see May-Gruenwald solution

Eosin-Methylene Blue dye according to Leishman

CS 32041900

Solubility ..... Very slightly soluble in water.
Solid

Storage RT

251377 Eosin-Methylene Blue dye according to Leishman for clinical diagnosis

For hematology, blood smear staining

Specifications
A 1 %, 1 cm, λ_{max} 2 .....> 1000
A 1 %, 1 cm, λ_{max} 1 ..... > 500
λ_{max} ABS in CH_3OH .....525-527 nm
T.L.C. .....passes test

Maximum limit of impurities
Loss on drying at 110 °C .....15 %

Code	Packaging
251377.1611	1000 g

(-)-Epicatechin Gallate

Origin from *Camellia sinensis*

$C_{22}H_{18}O_{10}$
M = 442.38 g/mol
CAS 1257-08-5
CS 29329900

Solid

Storage 2-8 °C

A2012 (-)-Epicatechin Gallate for HPLC

Specifications
Assay (HPLC) .....min. 99 %

Code	Packaging
A2012,0010	10 mg

(-)-Epigallocatechin Gallate

Origin from *Camellia sinensis*

$C_{22}H_{18}O_{11}$
M = 458.37 g/mol
CAS 989-51-5
CS 29329900

Solid

Storage 2-8 °C

A6912 (-)-Epigallocatechin Gallate pure

Specifications
Assay (HPLC) .....min. 96 %

Code	Packaging
A6912,0100	100 mg

N-(trans-Epoxysuccinyl)-L-Leucine-4-Guanidinobutylamide see E-64

НеваРеактив

EPPS see HEPPS

Ergocalciferol see Vitamin D2

Eriochrome Black T (C.I. 14645)

3-Hydroxy-4-[(1-Hydroxy -2-Naphthalenyl)azo]-7-Nitro-1-Naphthalenesulfonic Acid Sodium Salt, Mordant Black 11

$C_{20}H_{12}N_3NaO_7S$
M = 461.38 g/mol
CAS 1787-61-7
EINECS 217-250-3
CS 32041600

Solubility ..... water 80 g/l at 20 °C
Solubility ..... alcohol 10 g/l
Solid

WGK 2
Storage RT

131439 Eriochrome Black T (C.I. 14645) for analysis, ACS

For complexometry

Specifications
Identity ..... IR passes test
A 1 %, 1 cm, λ_{max} ..... > 300

λ_{max} ABS in H_2O ..... 618-630 nm
T.L.C. ..... passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... passes test
Sensitivity as complexometric indicator .... passes test

Code	Packaging
131439.1606	25 g
131439.1608	100 g

Eriochrome Black T solution 1 %

3-Hydroxy-4-[(1-Hydroxy-2-Naphtalenyl)azo]-7-Nitro-1-Naphtalenesulfonic Acid Sodium Salt, Mordant Black 11

$C_{20}H_{12}N_3NaO_7S$
M = 461.38 g/mol
CS 38220000

Density ..... 1.050 kg/l
Liquid

WGK 1
Storage RT

281440 Eriochrome Black T solution 1 % for volumetric analysis

For complexometry

Composition:
Eriochrome Black T ..... 1 g
Triethanolamine ..... 75 ml
Ethanol absolute ..... 25 ml

Code	Packaging
281440.1208	100 ml

Erythromycin base

$C_{37}H_{67}NO_{13}$
M = 733.95 g/mol
CAS 114-07-8
EINECS 204-040-1
CS 29415000

Melting Point ..... 133-135 °C
Solid

Storage RT

A2275 Erythromycin base BioChemica

Specifications
Assay (HPLC) ..... min. 95 %
α20 °C/D; 2 %, EtOH ..... -71 to -78°

pH (0.1 %; H_2O) 8.0-10.5
Water ..... max. 5 %

Code	Packaging
A2275,0005	5 g
A2275,0025	25 g

Erythrosin B (C.I. 45430)

2',4',5',7'-Tetraiodofluorescein Disodium Salt,Acid Red 51, Iodoeosine

$C_{20}H_6I_4Na_2O_5$
M = 879.92 g/mol
CAS 16423-68-0
EINECS 240-474-8
CS 32041200

Solubility ..... in water at 20 °C
Solid

WGK 1
Storage RT

Warning



H302

253982 Erythrosin B (C.I. 45430) for clinical diagnosis

for microscopy

Specifications
Identity ..... IR passes test

Ratio λ_{max} P +/- 15 nm 1.15-1.55
A 1 %, 1 cm, λ_{max} ..... > 850
λ_{max} ABS in H_2O ..... 524-527 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 110 °C ..... 10 %

Code	Packaging
253982.1606	25 g

Erythrosin Bluish see Erythrosin B (C.I. 45430)

Escherichia coli Broth see EC Medium (Dehydrated Culture Media) for microbiology

Esculin

Esculin Sequihydrate, 6,7-Dihydroxy-Coumarin-6-Glucoside

$C_{15}H_{16}O_9 \cdot 1{,}5H_2O$
M = 367.31 g/mol
CAS 66778-17-4
EINECS 208-517-5
CS 29389090

Melting Point ..... ~ 215 °C (dec.)
Solid

WGK 3
Storage RT

A1537 Esculin BioChemica

Specifications
Assay (photometr.) ..... min. 98 %
α20 °C/D; 1.5 %,
Dioxane : H_2O 1:1 ..... -84 to -87°

Heavy metals (as Pb) ..... max. 0.002 %
Water (K.F.) ..... 6.5-8.5 %

Code	Packaging
A1537,0100	100 g
A1537,1000	1 kg
A1537,9010	10 kg

Esculin Sequihydrate see Esculin

Ethanal see Acetaldehyde

Ethanedial see Glyoxal solution 40 %

1,2-Ethanediamine see Ethylenediamine

1,2-Ethanediol see Ethylene Glycol

Ethanethioamide see Thioacetamide

Ethanol absolute

Ethyl Alcohol, Alcohol

CH_3CH_2OH
M = 46.07 g/mol
CAS 64-17-5
EINECS 200-578-6
CS 22071000
Index Nr. 603-002-00-5

Melting Point .....-114.5 °C (abs.)
Boiling Point .....78.3 °C (abs.)
Density .....0.789 kg/l (abs.) (20 °C)
Refractive Index n20/D .....1.3611 (abs.)
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225

221086 Ethanol absolute for HPLC gradient

Specifications
Minimum assay (G.C.) (v/v) .....99.9 %
Density 20/4 ..... 0.789-0.790

Maximum limit of impurities
APHA colour 10
Acidity .....0.0002 meq/g
Alkalinity .....0.0002 meq/g
Non-volatile matter ..... 0.0002 %
Water (H_2O) ..... 0.1 %
Gradient at 235 nm ..... 5 mUA
Gradient at 254 nm ..... 2 mUA
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 205 nm (Cut off) ..... ≥ 10 %
Transmittance at 210 nm ..... ≥ 35 %
Transmittance at 225 nm ..... ≥ 60 %
Transmittance at 240 nm ..... ≥ 85 %
Transmittance at 260-400 nm ..... ≥ 98 %

Data of interest in HPLC:
Rohrschneider Polarity 4.3
Eluotropic value e° (Al_2O_3) 0.88
Sol. H_2O in solv. at 20 °C .....miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
221086.1611	1000 ml
221086.1612	2.5 l

361086 Ethanol absolute for UV, IR, HPLC

Specifications
Minimum assay (G.C.) (v/v) .....99.9 %
Density 20/4 ..... 0.789-0.790

Maximum limit of impurities
APHA colour 10
Acidity .....0.0002 meq/g
Alkalinity .....0.0002 meq/g
Non-volatile matter ..... 0.0003 %
Water (H_2O) ..... 0.1 %
Suitability for IR spectrometry: ..... passes test
Fluorescence at 254 nm (as quinine) .... 2 ppb
Fluorescence at 365 nm (as quinine) .... 1 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 205 nm (Cut off) ..... ≥ 10 %
Transmittance at 210 nm ..... ≥ 35 %
Transmittance at 220 nm ..... ≥ 55 %
Transmittance at 235 nm ..... ≥ 80 %
Transmittance at 245 nm .....≥ 90 %
Transmittance at 270-400 nm .....≥ 98 %

Data of interest in HPLC:
Rohrschneider Polarity 4.3
Eluotropic value e° (Al_2O_3) 0.88
Sol. H_2O in solv. at 20 °C .....miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361086.1611	1000 ml
361086.1612	2.5 l
361086.1646	4 l

481086 Ethanol absolute dry (max. 0.02 % water)

Specifications
Minimum assay (G.C.) (v/v) .....99.8 %
Identity .....IR passes test
Density 20/4 ..... 0.789-0.790

Maximum limit of impurities
APHA colour 10
Acidity .....0.0005 meq/g
Alkalinity .....0.0002 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter .....0.0005 %
Darkened substances by H_2SO_4 ... passes test
Carbonyl compounds
(as CH_3CHO) .....0.005 %
Acetone (G.C.) .....0.001 %
2-Butanol (G.C.) .....0.02 %
Butanone (G.C.) .....0.003 %
Methanol (G.C.) .....0.02 %
Water (H_2O) .....0.02 %
Ca .....0.000 05 %
Cd ..... 0.000 005 %
Co ..... 0.000 002 %
Cr ..... 0.000 002 %
Cu ..... 0.000 01 %
Fe ..... 0.000 01 %
Mg ..... 0.000 01 %
Mn ..... 0.000 002 %
Ni ..... 0.000 002 %
Pb ..... 0.000 01 %
Zn ..... 0.000 01 %

Code	Packaging
481086.1611	1000 ml

131086 Ethanol absolute for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) (v/v) .....99.8 %
Identity .....IR passes test
Density 20/20 ..... 0.790-0.793

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.00035 meq/g
Alkalinity .....0.0002 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.0005 %
Reducing substance to $KMnO_4$ .... passes test
Darkened substances by H_2SO_4 ... passes test
Carbonyl compounds
(as CH_3CHO) .....0.005 %
Acetone (G.C.) .....0.001 %
2-Butanol (G.C.) .....0.02 %
2-Propanol (G.C.) .....0.003 %
Higher Alcohols (G.C.) .....0.01 %
Butanone (G.C.) .....0.003 %
Methanol (G.C.) .....0.02 %
Water (H_2O) .....0.2 %

Metals by ICP [in mg/Kg (ppm)]

Ag..... 0.05	Al..... 0.5
As..... 0.05	Au 0.05
B..... 0.02	Ba 0.1
Be..... 0.02	Bi..... 0.05
Ca 0.5	Cd 0.05
Co 0.02	Cr..... 0.02
Cu 0.1	Fe..... 0.1
Ga 0.02	Ge..... 0.05
Hg 0.05	In..... 0.05
K..... 0.1	Li..... 0.05

Code	Packaging
131086.1211	1000 ml
131086.1611	1000 ml
131086.1212	2.5 l
131086.1612	2.5 l
131086.1214	5 l
131086.1315	10 l
131086.0716	25 l

121086 Ethanol absolute for analysis

Specifications
Minimum assay (G.C.) (v/v) .....99.8 %
Identity .....IR passes test
Density 20/4 ..... 0.789-0.790

Maximum limit of impurities
APHA colour 10
Acidity .....0.0005 meq/g
Alkalinity .....0.0002 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.0005 %
Reducing substance to $KMnO_4$ .... passes test
Darkened substances by H_2SO_4 ... passes test
Carbonyl compounds
(as CH_3CHO) .....0.005 %
Fusel oil .....passes test
Acetone (G.C.) .....0.001 %
2-Butanol (G.C.) .....0.02 %
2-Propanol (G.C.) .....0.02 %
3-Methyl-1-Butanol (G.C.) .....0.05 %
Butanone (G.C.) .....0.003 %
Methanol (G.C.) .....0.02 %
Water (H_2O) .....0.2 %
Ca .....0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.00001 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
121086.1211	1000 ml
121086.1212	2.5 l
121086.1612	2.5 l
121086.1214	5 l
121086.1315	10 l
121086.0716	25 l

191086 Ethanol absolute (USP-NF, BP, Ph. Eur.) pharma grade

Specifications
Minimum assay (G.C.) (v/v) .....99.5 %
Identity according to
Pharmacopoeias: ..... passes test
Density 20/20 ..... 0.7907-0.7932
Specific gravity at 15.56 °C .....< 0.7962

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in in H_2O ..... passes test
Non-volatile matter (w/v) ..... 0.0025 %
Reducing substance to $KMnO_4$ .... passes test
Clarity of solution (USP) ..... passes test
Clarity of solution ..... passes test
Absorbance ..... passes test
Fusel oil ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
1-Pentanol, non-volatile subst. and
carbonized subst. by H_2SO_4 ..... passes test
Acetone, 2-Propanol and
2-Methyl-2-Propanol ..... passes test
Aldehydes (as CH_3CHO) .....0.001 %
Benzene (U.V.) .....0.0002 %
Butanone (G.C.) .....0.02 %
Volatile impurities (G.C.)
Methanol .....0.02 %
Acetaldehyde and acetal .....0.001 %
Benzene .....0.0002 %
Total other impurities .....0.03 %
Water (H_2O) .....0.5 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm

Code	Packaging
191086.1210	500 ml
191086.1610	500 ml
191086.1211	1000 ml
191086.1212	2.5 l
191086.1214	5 l
191086.9914	5 l
191086.0716	25 l
191086.0718	60 l
191086.0719	200 l
191086.9774	1000 l

HebaPeakTMB

141086 Ethanol absolute pure

Specifications
Assay (G.C.) (v/v) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.789-0.790
Acidity ..... 0.002 meq/g
Alkalinity ..... 0.001 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.005 %
Carbonyl compounds (as CH_3CHO) .... 0.01 %
Acetone (G.C.) ..... 0.005 %
2-Propanol (G.C.) ..... 0.05 %
Methanol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.5 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141086.1211	1000 ml
141086.1212	2.5 l
141086.1214	5 l
141086.1315	10 l
141086.0716	25 l

201086 Ethanol absolute (F.C.C.) food grade

Extraction solvent for industrial food use

Specifications
Assay (by volume)
(equiv. to 99.3 % w/w), not less than ... 99.5 %
Acidity (as CH_3COOH),
not more than ..... 0.003 %
Alkalinity (as NH_3), not more than ..... 3 ppm
Non-volatile residue, not more than ... 0.003 %
Darkened substances by H_2SO_4 ... passes test
Reducing substances of $KMnO_4$ ... passes test
Fusel oil ..... passes test
Solubility in water ..... passes test
Ketones, 2-Propanol ..... passes test
Methanol ..... passes test
Arsenic, not more than ..... 1 ppm
Lead, not more than ..... 0.5 ppm
Specifications Dir. 2009/32/CE, F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201086.1214	5 l

251086 Ethanol absolute for clinical diagnosis

Specifications
Assay (G.C.) (v/v) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 0.789-0.790

Maximum limit of impurities
Non-volatile matter ..... 0.0005 %
Filtered product (1 µm).
Water (H_2O) ..... 0.2 %

Code	Packaging
251086.1211	1000 ml
251086.1212	2,5 l
251086.1214	5 l
251086.9914	5 l
251086.1215	10 l
251086.1315	10 l

161086 Ethanol absolute, 99,5 % for synthesis

Specifications
Minimum assay (G.C.) (v/v) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.789-0.790
Non-volatile matter ..... 0.001 %
Water (H_2O) ..... 0.2 %

Code	Packaging
161086.1211	1000 ml
161086.1212	2.5 l
161086.1714	5 l
161086.0616	25 l

A3678 Ethanol absolute for molecular biology

This ethanol is intended for consumers in Germany only. The product may only be purchased at AppliChem Darmstadt

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (G.C.) ..... min. 99.8 %
Acidic/alkaline react. subst. ..... max. 0.0002 %
Non-Volatile matter ..... max. 0.001 %
Water (K.F.) ..... max. 0.2 %

Code	Packaging
A3678,0250	250 ml
A3678,0500	500 ml
A3678,1000	1 L
A3678,2500	2.5 L

A3693 Ethanol absolute BioChemica

This ethanol is intended for consumers in Germany only. The product may only be purchased at AppliChem Darmstadt

Specifications
Assay (G.C.) ..... min. 99.8 %
Acidity/Alkalinity ..... max. 0.0005 meq/g
Heavy metals (as Pb) ..... max. 0.0002 %
Non-volatile matter ..... max. 0.001 %
Acetone ..... max. 0.001 %
Aldehydes ..... max. 0.001 %
Methanol ..... max. 0.05 %
Water (K.F.) ..... max. 0.2 %

Code	Packaging
A3693,1000PE	1 L
A3693,2500PE	2.5 L

A1612 Ethanol for HPLC

This ethanol is intended for consumers in Germany only. The product may only be purchased at AppliChem Darmstadt

Specifications
Assay (G.C.) ..... min. 99.8 %
Acidity/Alkalinity ..... max. 0.0002 meq/g
Non-volatile matter ..... max. 0.001 %
Water (K.F.) ..... max. 0.2 %
A (1 cm/water HPLC grade)
220 nm ..... max. 0.30
250 nm ..... max. 0.05
290 nm ..... max. 0.015

Code	Packaging
A1612,1000	1 L
A1612,2500	2.5 L

A1613 Ethanol absolute for analysis

This ethanol is intended for consumers in Germany only. The product may only be purchased at AppliChem Darmstadt

Specifications
Assay (G.C.) ..... min. 99.8 %
Acidity/Alkalinity ..... max. 0.0005 meq/g
Non-volatile matter ..... max. 0.001 %
Total P ..... max. 0.0001 %
Total S ..... max. 0.0001 %
Total Si ..... max. 0.0002 %
Acetone ..... max. 0.001 %
Aldehydes ..... max. 0.001 %
Methanol ..... max. 0.05 %
Water (K.F.) ..... max. 0.2 %
Cr ..... max. 0.00001 %
Fe ..... max. 0.00001 %
Mn ..... max. 0.00001 %
Ni ..... max. 0.00001 %
Pb ..... max. 0.00001 %
Zn ..... max. 0.00001 %

Code	Packaging
A1613,0500PE	500 ml
A1613,1000GL	1 L
A1613,1000PE	1 L
A1613,2500GL	2.5 L
A1613,2500PE	2.5 L
A1613,5000PE	5 L
A1613,9010PE	10 L

A4230 Ethanol absolute (Ph. Eur., USP) pure, pharma grade

This ethanol is intended for consumers in Germany only. The product may only be purchased at AppliChem Darmstadt

Specifications
Assay (m/m) ..... min. 99.2 %
Assay (v/v) ..... min. 99.5 %
Acidic/alkaline react. subst. ..... max. 0.003 % (as AcOH)
Appearance ..... passes test
Density (d 15.56 °C/15.56 °C) ..... max. 0.7962
Density (d 20 °C/20 °C) 0.790-0.793
Identity ..... passes test
Non-volatile matter ..... max. 25 mg/L
Sum of further impurities ..... max. 0.03 %
Volatile impurities (G.C.) ..... passes test
Acetaldehyde and Acetal ..... max. 0.001 % (v/v)
Benzene ..... max. 0.0002 % (v/v)
Methanol ..... max. 0.02 % (v/v)
Absorption (5 cm/water HPLC grade)
240 nm ..... max. 0.40
250-260 nm ..... max. 0.30
270-340 nm ..... max. 0.10

Code	Packaging
A4230,0250PE	250 ml
A4230,0500PE	500 ml
A4230,1000GL	1 L
A4230,1000PE	1 L
A4230,2500GL	2.5 L
A4230,2500PE	2.5 L
A4230,5000	5 L
A4230,9025PE	25 L

НеВаРеАКТИВ

Ethanol absolute, untaxed

Alcohol, Ethyl Alcohol

C_2H_6O
M = 46.07 g/mol
CAS 64-17-5
EINECS 200-578-6
CS 22071000

Melting Point .....-114.5 °C (abs.)
Boiling Point .....78.3 °C (abs.)
Density .....0.789 kg/l (abs.) (20 °C)
Refractive Index n20/D .....1.3611 (abs.)
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225

A8075 Ethanol absolute for molecular biology (untaxed)

This ethanol is intended for consumers in the EU and in third countries. EU consumers require an approved tax warehouse

Specifications
DNases/RNases/Proteases .....not detectable
Assay (G.C.) ..... min. 99.8 %
Acidic/alkaline react. subst. ..... max. 0.0002 %
Non-Volatile matter .....max. 0.001 %
Water (K.F.) .....max. 0.2 %

Code	Packaging
A8075,1000PE	1 L
A8075,2500PE	2.5 L

Ethanol absolute partially denatured

Ethyl Alcohol

CH_3CH_2OH
M = 46.07 g/mol
CAS 64-17-5
EINECS 200-578-6
CS 22072000
Index Nr. 603-002-00-5

Melting Point .....-114.1 °C
Boiling Point .....78.5 °C
Density .....0.791 kg/l
Refractive Index n20/D 1.361
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225

212801 Ethanol absolute partially denatured technical grade

Contains 0,3 % v/v of Diethyl Phthalate and 2 ppm of Bitrex. Sells are not allowed in EU except Spain

Specifications
Minimum assay
(in vol. of CH_3CH_2OH) .....99.5 %
Density 20/4 ..... 0.789-0.793
Alkalinity (as NH_3) .....0.002 %
Diethyl Phthalate (as v/v) .....0.3 %
Water (H_2O) .....0.5 %
DO NOT USE FOR ALIMENTARY PURPOSE

Code	Packaging
212801.1211	1000 ml
212801.1214	5 l
212801.2814	5 l
212801.1315	10 l
212801.0716	25 l

Ethanol 99 % denatured with 1 % MEK

Ethyl Alcohol, Alcohol

CH_3CH_2OH
M = 46.07 g/mol
CAS 64-17-5
EINECS 200-578-6
CS 22072000
Index Nr. 603-002-00-5

Melting Point .....-114.5 °C (abs.)
Boiling Point .....78.3 °C (abs.)
Density .....0.789 kg/l (abs.) (20 °C)
Refractive Index n20/D .....1.3611 (abs.)
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225

A4930 Ethanol 99 % denatured with 1 % MEK for analysis

Contains Bitrex 0.98-1.20 g/100 L

This product is tax-free within the EU. Purchasers outside of Germany must specify the address of their local customs office

Specifications
Assay (G.C.) .....min. 99 %
Acidity/Alkalinity ..... max. 0.0005 meq/g
Non-volatile matter ..... max. 0.002 %
Total P ..... max. 0.0001 %
Total S ..... max. 0.0001 %
Total Si ..... max. 0.0002 %
Water (K.F.) ..... max. 0.2 %
Methanol ..... max. 0.05 %
Cr .....max. 0.00001 %
Fe .....max. 0.00001 %
Mn .....max. 0.00001 %
Ni .....max. 0.00001 %
Pb .....max. 0.00001 %
Zn .....max. 0.00001 %

Code	Packaging
A4930,1000	1 L
A4930,2500	2.5 L
A4930,5000	5 L

A5007 Ethanol 99 % denatured with 1 % MEK pure

Contains Bitrex 0.98-1.20 g/100 L

This product is tax-free within the EU. Purchasers outside of Germany must specify the address of their local customs office

Specifications
Assay (G.C.) ..... approx. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Water (K.F.) ..... max. 0.3 %

Code	Packaging
A5007,2500	2.5 L
A5007,5000	5 L
A5007,9010	10 L
A5007,9025PE	25 L

A2795 Ethanol 99 % denatured with 1 % MEK technical grade

Contains Bitrex 0.98-1.20 g/100 L

This product is tax-free within the EU. Purchasers outside of Germany must specify the address of their local customs office

Specifications
Assay (G.C.) ..... approx. 99 %
Water (K.F.) .....max. 0.3 %

Code	Packaging
A2795,2500	2.5 L
A2795,5000	5 L
A2795,9010	10 L
A2795,9025BK	25 L
A2795,9025PE	25 L

НеваРеактив

Ethanol 96 % v/v

Alcohol, Ethyl Alcohol

CH_3CH_2OH
M = 46.07 g/mol
CAS 64-17-5
EINECS 200-578-6
CS 22071000
Index Nr. 603-002-00-5

Melting Point .....-114.5 °C (abs.)
Boiling Point .....78.3 °C (abs.)
Density .....0.789 kg/l (abs.) (20 °C)
Refractive Index n20/D .....1.3611 (abs.)
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225

361085 Ethanol 96 % v/v for UV, IR, HPLC

Specifications
Minimum assay (v/v) ..... 96 %
Density 20/4 ..... 0.804-0.807

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0002 meq/g

Non-volatile matter .....0.0005 %
Suitability for IR spectrometry: .....passes test
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 207 nm (Cut off) .....≥ 10 %
Transmittance at 210 nm .....≥ 35 %
Transmittance at 220 nm .....≥ 55 %
Transmittance at 230 nm .....≥ 72 %
Transmittance at 240 nm .....≥ 90 %

Transmittance at 270-400 nm .....≥ 98 %
Data of interest in HPLC:
Rohrschneider Polarity 4.3
Eluotropic value e° (Al_2O_3) 0.88
Sol. H_2O in solv. at 20 °C .....miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361085.1611	1000 ml

131085 Ethanol 96 % v/v for analysis, ACS

Specifications
Minimum assay (v/v) ..... 96 %
Identity .....IR passes test
Density 20/4 ..... 0.804-0.807

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0002 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.0005 %
Reducing substance to $KMnO_4$ .... passes test

Darkened substances by H_2SO_4 ...passes test
Carbonyl compounds
(as CH_3CHO) .....0.005 %
Acetone (G.C.) .....0.001 %
2-Butanol (G.C.) .....0.02 %
2-Propanol (G.C.) .....0.003 %
Butanone (G.C.) .....0.003 %
Methanol (G.C.) .....0.02 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As.....0.05
Al 0.5
Au 0.05
B.....0.02
Be.....0.02
Ca.....0.5
Co.....0.02
Cu.....0.1
Ga 0.02
Hg.....0.05
K.....0.1
Mg 0.1
Ba..... 0.1
Bi..... 0.05
Cd 0.05
Cr 0.02
Fe..... 0.1
Ge 0.05
In..... 0.05
Li 0.05
Mn..... 0.02

Code	Packaging
131085.1211	1000 ml
131085.1611	1000 ml
131085.1212	2.5 l
131085.1612	2.5 l
131085.1214	5 l
131085.1315	10 l

121085 Ethanol 96 % v/v for analysis

Specifications
Minimum assay (v/v) ..... 96 %
Identity .....IR passes test
Density 20/20 ..... 0.805-0.812

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0005 %
Reducing substance to $KMnO_4$ .... passes test

Darkened substances by H_2SO_4 ...passes test
Carbonyl compounds
(as CH_3CHO) .....0.005 %
Fusel oil .....passes test
Acetone (G.C.) .....0.001 %
2-Butanol (G.C.) .....0.02 %
2-Propanol (G.C.) .....0.02 %
3-Methyl-1-Butanol (G.C.) .....0.05 %
Butanone (G.C.) .....0.003 %
Methanol (G.C.) .....0.02 %
Ca .....0.00005 %

Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.00001 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
121085.1211	1000 ml
121085.1212	2.5 l
121085.1214	5 l
121085.1315	10 l
121085.0716	25 l

631085 Ethanol 96 % v/v (Ph. Eur., BP, USP-NF) GMP - IPEC grade

Specifications
Assay (v/v) (d at 20/20 °C) .....95.1-96.9 %
Assay (v/v)
(d at 15.56/15.56 °C) .....94.9-96.0 %
Identity according to Pharmacopoeias:
(A Ph. Eur / USP) ..... passes test
(B Ph. Eur / USP) .....IR passes test
(C Ph. Eur) ..... passes test
(D Ph. Eur) ..... passes test
Density 20/20 ..... 0.805-0.812
Specific gravity at 15.56 °C 0.812-0.816

Maximum limit of impurities
ABS λ_{max} 240 nm 0.40
ABS λ_{max} 250-260 nm 0.30
ABS λ_{max} 270-340 ..... 0.10
ABS Absorption curve,smooth .....passes test
Appearance .....passes test
Appearance Clarity
of solution USP .....passes test
Appearance Colour
of solution USP .....passes test
Acidity or alkalinity (in CH_3COOH) ...0.0030 %
Non-volatile matter (w/v) .....0.0025 %
Residual solvents (Ph. Eur./USP) .passes test

Benzene ..... 0.0002 %
Volatile impurities (G.C.)
Methanol ..... 0.0200 %
Acetaldehyde and acetal ..... 0.0010 %
Total other impurities ..... 0.0300 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm

Code	Packaging
631085.1214	5 l
631085.0716	25 l

141085 Ethanol 96 % v/v (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (G.C.) (v/v) .....96.0-96.6 %
Identity according to
Pharmacopoeias: ..... passes test
Density 20/20 ..... 0.8051-0.8124

Maximum limit of impurities
Appearance ..... passes test
Acidity or alkalinity ..... passes test
Alkalinity ..... 0.001 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter (w/v) ..... 0.0025 %
Reducing substance to $KMnO_4$ .... passes test
Colour of solution (USP) ..... passes test
Clarity of solution ..... passes test

Absorbance .....passes test
Fusel oil .....passes test
Residual solvents (Ph. Eur./USP) .passes test
Acetone (G.C.) .....0.005 %
1-Pentanol, non-volatile subst. and
carbonized subst. by H_2SO_4 .....passes test
2-Propanol (G.C.) .....0.03 %
Acetone, 2-Propanol and
2-Methyl-2-Propanol .....passes test
Aldehydes (as CH_3CHO) .....0.001 %
Benzene (U.V.) .....0.0002 %
Butanone (G.C.) .....0.02 %
Volatile impurities (G.C.)
Methanol .....0.02 %
Acetaldehyde and acetal .....0.001 %

Benzene ..... 0.0002 %
Total other impurities ..... 0.03 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141085.1211	1000 ml
141085.1212	2.5 l
141085.1214	5 l
141085.1315	10 l
141085.0716	25 l
141085.0719	200 l
141085.9774	1000 l

201085 Ethanol 96 % v/v (F.C.C.) food grade

Extraction solvent for industrial food use

Specifications
Assay (by volume)
(equiv. to 92.3 % w/w), not less than ... 94.9 %
Acidity (as CH_3COOH),
not more than ..... 0.003 %

Alkalinity (as NH_3), not more than ..... 3 ppm
Non-volatile residue, not more than ...0.003 %
Darkened substances by
H_2SO_4 .....passes test
Reducing substances of $KMnO_4$ ...passes test
Fusel oil .....passes test
Solubility in water .....passes test

Ketones, 2-Propanol ..... passes test
Methanol ..... passes test
Arsenic, not more than .....1 ppm
Lead, not more than .....0.5 ppm
Specifications Dir. 2009/32/CE, F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201085.1214	5 l

251085 Ethanol 96 % v/v for clinical diagnosis

Specifications
Assay (G.C.) (v/v) .....96 %
Identity .....IR passes test
Density 20/4 ..... 0.804-0.807

Maximum limit of impurities
Non-volatile matter .....0.0005 %
Filtered product (1 µm).

Code	Packaging
251085.1211	1000 ml
251085.1212	2,5 l
251085.1214	5 l
251085.1215	10 l
251085.1315	10 l

A1868 Ethanol 96 % v/v for analysis

Product can only be sold by AppliChem (Germany)

Specifications
Assay .....min. 96 %
Acidity/Alkalinity .....max. 0.0005 meq/g
Non-volatile matter .....max. 0.001 %

Total P .....max. 0.0001 %
Total S .....max. 0.0001 %
Total Si .....max. 0.0002 %
Acetone .....max. 0.001 %
Aldehydes .....max. 0.001 %
Methanol .....max. 0.05 %

Cr .....max. 0.00001 %
Fe .....max. 0.00001 %
Mn .....max. 0.00001 %
Ni .....max. 0.00001 %
Pb .....max. 0.00001 %
Zn .....max. 0.00001 %

Code	Packaging
A1868,1000	1 L
A1868,2500	2.5 L

A1615 Ethanol 96 % v/v (Ph. Eur., BP) pure, pharma grade

This ethanol is intended for consumers in Germany only. The product may only be purchased at AppliChem Darmstadt

Specifications
Assay (m/m) ..... 92.6-95.2 %
Assay (v/v) ..... 95.1-96.9 %

Acidic/alkaline react. subst. .....passes test
Appearance .....passes test
Density (d 20 °C/20 °C) 0.805-0.812
Identity .....passes test
Non-volatile matter ..... max. 25 mg/L
Volatile org. impurities (G.C.) .....passes test

Absorption
240 nm .....max. 0.40
250-260 nm .....max. 0.30
270-340 nm .....max. 0.10

Code	Packaging
A1615,1000GL	1 L
A1615,2500GL	2.5 L
A1615,5000PE	5 L
A1615,9025PE	25 L

Ethanol 96 % v/v partially denatured

Ethyl Alcohol

CH_3CH_2OH
M = 46.07 g/mol
CAS 64-17-5
EINECS 200-578-6
CS 22072000
Index Nr. 603-002-00-5

Melting Point .....-114.1 °C
Boiling Point ..... 78.5 °C
Density .....0.811 kg/l
Refractive Index n20/D 1.361
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225

212800 Ethanol 96 % v/v partially denatured technical grade

Contains 0,3 % v/v of Diethyl Phthalate and 2 ppm of Bitrex. Sells are not allowed in EU except Spain

Specifications
Minimum assay (in vol. of CH_3CH_2OH) 96.0 %
Density 20/4 ..... 0.804-0.813
Alkalinity (as NH_3) ..... 0.002 %

Diethyl Phthalate (v/v) .....0.3 %
DO NOT USE FOR ALIMENTARY PURPOSE

Code	Packaging
212800.1211	1000 ml
212800.1214	5 l
212800.1315	10 l
212800.0716	25 l
212800.1074	1000 l

Ethanol 96 % denatured with 1 % MEK

Ethyl Alcohol, Alcohol

CH_3CH_2OH
M = 46.07 g/mol
CAS 64-17-5
EINECS 200-578-6
CS 22072000
Index Nr. 603-002-00-5

Melting Point .....-114.5 °C (abs.)
Boiling Point .....78.3 °C (abs.)
Density .....0.789 kg/l (abs.) (20 °C)
Refractive Index n20/D .....1.3611 (abs.)
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225

A2551 Ethanol 96 % denatured with 1 % MEK technical grade

Contains Bitrex 0.94-1.15 g/100 L

This product is tax-free within the EU. Purchasers outside of Germany must specify the address of their local customs office

Specifications
Assay (G.C.) ..... min. 96 %

Code	Packaging
A2551,2500	2.5 L
A2551,5000	5 L
A2551,9010	10 L
A2551,9025PE	25 L

Ethanol 94 % ~ 1 % MEK

Alcohol, Ethyl Alcohol

CH_3CH_2OH
M = 46.07 g/mol
CAS 64-17-5
EINECS 200-578-6
CS 22072000
Index Nr. 603-002-00-5

Melting Point .....-114.5 °C (abs.)
Boiling Point .....78.3 °C (abs.)
Density .....0.789 kg/l (abs.) (20 °C)
Refractive Index n20/D .....1.3611 (abs.)
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225

A2357 Ethanol 94 % denatured with ~ 1 % MEK technical grade

Contains Bitrex 0.92-1.13 g/100 L

This product is tax-free within the EU. Purchasers outside of Germany must specify the address of their local customs office

Specifications
Assay (G.C.) .....min. 94 %

Code	Packaging
A2357,9010	10 L

Ethanol 80 % ~ 1 % MEK

Alcohol, Ethyl Alcohol

CH_3CH_2OH
M = 46.07 g/mol
CAS 64-17-5
EINECS 200-578-6
CS 22072000
Index Nr. 603-002-00-5

Melting Point .....-114.5 °C (abs.)
Boiling Point .....78.3 °C (abs.)
Density .....0.789 kg/l (abs.) (20 °C)
Refractive Index n20/D .....1.3611 (abs.)
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225

A5023 Ethanol 80 % denatured with ~ 1 % MEK technical grade

Contains Bitrex 0.78-0.96 g/100 L

This product is tax-free within the EU. Purchasers outside of Germany must specify the address of their local customs office

Specifications
Assay (G.C.) .....min. 80 %

Code	Packaging
A5023,5000	5 L

Ethanol 70 % v/v

Alcohol, Ethyl Alcohol

CH_3CH_2OH
M = 46.07 g/mol
CAS 64-17-5
EINECS 200-578-6
CS 22089091
CS 22089099
Index Nr. 603-002-00-5

Boiling Point .....78-79 °C
Density .....0.885 kg/l (70 %)
Refractive Index n20/D 1.364
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225

A2192 Ethanol 70 % for analysis

This ethanol is intended for consumers in Germany only. The product may only be purchased at AppliChem Darmstadt

Specifications
Assay (G.C.) .....min. 70 %
Acidity/Alkalinity ..... max. 0.0005 meq/g

Non-volatile matter .....max. 0.001 %
Total P .....max. 0.0001 %
Total S .....max. 0.0001 %
Total Si .....max. 0.0002 %
Acetone .....max. 0.001 %
Aldehydes .....max. 0.001 %
Methanol .....max. 0.05 %

Cr ..... max. 0.00001 %
Fe ..... max. 0.00001 %
Mn ..... max. 0.00001 %
Ni ..... max. 0.00001 %
Pb ..... max. 0.00001 %
Zn ..... max. 0.00001 %

Code	Packaging
A2192,1000PE	1 L
A2192,2500PE	2.5 L
A2192,5000	5 L
A2192,9025PE	25 L

A0913 Ethanol 70 % (DAB) pure, pharma grade

This ethanol is intended for consumers in Germany only. The product may only be purchased at AppliChem Darmstadt

Specifications
Assay (m/m) .....61.6-63.3 %
Assay (v/v) .....69.2-70.8 %
Relative density 0.885-0.889

Code	Packaging
A0913,0250	250 ml
A0913,1000	1 L
A0913,2500	2.5 L
A0913,5000	5 L

192695 Ethanol 70 % v/v (BP) pharma grade

Specifications
Assay (v/v) ..... 69.5-70.4 %

Maximum limit of impurities
Appearance ..... passes test
Acidity or alkalinity ..... passes test
Non-volatile matter (w/v) ..... 0.0025 %
Apparent density (BP) ..... 883.5-885.8 Kg m-3

Residual solvents (Ph. Eur./USP) . passes test
Volatile impurities .....passes test

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm

Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
Microfiltered product (0.22 µm)

Code	Packaging
192695.1211	1000 ml
192695.1212	2,5 l
192695.1214	5 l
192695.1315	10 l
192695.0516	25 l

202695 Ethanol 70 % v/v food grade

Extraction solvent for industrial food use

Specifications
Assay (by volume)
(equiv. to 62.5 % w/w), not less than ..... 70 %
Acidity (as CH_3COOH), not more than
..... 0.003 %

Alkalinity (as NH_3), not more than ..... 3 ppm
Non-volatile residue, not more than ...0.003 %
Darkened substances by H_2SO_4 ...passes test
Reducing substances of $KMnO_4$ ...passes test
Fusel oil .....passes test
Solubility in water .....passes test

Ketones, 2-Propanol ..... passes test
Methanol ..... passes test
Arsenic, not more than .....1 ppm
Lead, not more than .....0.5 ppm
Specifications Dir. 2009/32/CE

Code	Packaging
202695.1214	5 l
202695.0716	25 l
202695.0074	1000 l

252695 Ethanol 70 % v/v for clinical diagnosis

Specifications
Assay (v/v) ..... 70 %
Identity .....IR passes test

Density 20/4 .....0.884-0.887

Maximum limit of impurities
Non-volatile matter ..... 0.0005 %
Filtered product (1 µm).

Code	Packaging
252695.1215	10 l

Ethanol 70 % denatured with Ketones

Ethyl Alcohol, Alcohol

CH_3CH_2OH
M = 46.07 g/mol
CAS 64-17-5
EINECS 200-578-6
CS 22072000
Index Nr. 603-002-00-5

Boiling Point .....78-79 °C
Density .....0.885 kg/l (70 %)
Refractive Index n20/D 1.364
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225

A0565 Ethanol 70 % denatured with Ketones technical grade

Contains Bitrex 0.56-0.84 g/100 L

This product is tax-free within the EU. Purchasers outside of Germany must specify the address of their local customs office

Specifications
Assay (G.C.) .....approx. 70 %

Code	Packaging
A0565,2500	2.5 L
A0565,5000	5 L
A0565,9010	10 L
A0565,9025PE	25 L

Ethanol 68 %

Ethyl Alcohol, Alcohol

CH_3CH_2OH
M = 46.07 g/mol
CAS 64-17-5
EINECS 200-578-6
CS 22089091
Index Nr. 603-002-00-5

Boiling Point ..... 78-79 °C
Density ..... 0.885 kg/l (70 %)
Refractive Index n20/D 1.364
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225

A2075 Ethanol 68 % for alcohol determination in milk

This ethanol is intended for consumers in Germany only. The product may only be purchased at AppliChem Darmstadt

Specifications
Assay (v/v) ..... 68 %

Code	Packaging
A2075,0250	250 ml

Ethanol-Diethyl Ether 1:1

CS 38220000

Density ..... 0.774 kg/l
Solubility ..... Miscible with water
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H224 EUH019 H302 EUH066 H336

251084 Ethanol-Diethyl Ether 1:1 for clinical diagnosis

For microscopy, fixing

Composition:
Ethanol ..... 500 ml
Diethyl Ether ..... 500 ml

Code	Packaging
251084.1610	500 ml

Ethanol-Diethyl Ether 1:1+ Bromophenol Blue

Density ..... 0.765 kg/l
Liquid

UN1993
Class/PG 3/I
ADR 3/I · IMDG 3/I · IATA 3/I
Storage RT

Danger



H224 EUH019 H302 EUH066 H336

285482 Ethanol-Diethyl Ether 1:1+Bromophenol Blue for volumetric analysis

Composition:
Bromophenol Blue ..... 198 mg
Diethyl Ether ..... 55 ml
Ethanol 96 % ..... 55 ml

Code	Packaging
285482.0537	30 l

Ethanol-Diethyl Ether 1:1+ Phenolphthalein

Density ..... 0.765 kg/l
Liquid

UN1993
Class/PG 3/I
ADR 3/I · IMDG 3/I · IATA 3/I
Storage RT

Danger



H224 EUH019 H302 EUH066 H336

285483 Ethanol-Diethyl Ether 1:1+Phenolphthalein for volumetric analysis

Composition:
Phenolphtalein ..... 100 mg
Diethyl Ether ..... 50 ml
Ethanol ..... 50 ml

Code	Packaging
285483.0537	30 l

Ethanolamine

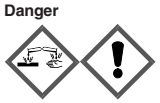
Colamine, 2-Aminoethanol, Monoethanolamine, 2-Aminoethyl Alcohol

$NH_2CH_2CH_2OH$
M = 61.08 g/mol
CAS 141-43-5
EINECS 205-483-3
CS 29221100
Index Nr. 603-030-00-8

Melting Point ..... 10 °C
Liquid

UN2491
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT
Storage under argon

Danger



H302+H312+H332 H314 H335

131924 Ethanolamine for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Density 20/4 ..... 1.016-1.020

Maximum limit of impurities
APHA colour 15

Non-volatile matter ..... 0.2 %
Diethanolamine (G.C.) ..... 0.3 %
Ethanol (G.C.) ..... 0.1 %
Triethanolamine (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.3 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Ca 0.5	Cd 0.05
Co 0.02	Cr 0.02
Cu 0.1	Fe 5
Mg 5	Mn 0.05
Ni 0.02	Pb 0.1

Code	Packaging
131924.1611	1000 ml

A2161 Ethanolamine BioChemica

• May form precipitate in storage if in contact with air

Specifications
Assay (G.C.) ..... min. 99 %

Density (20 °C) 1.02
Heavy metals ..... max. 0.001 %
Diethanolamine ..... max. 0.5 %

Triethanolamine ..... max. 0.5 %
Water ..... max. 0.5 %

Code	Packaging
A2161,0100	100 ml
A2161,0500	500 ml

Ethidium Bromide decontamination see Decontamination Bags

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Ethidium Bromide

Homidium bromide, 2,7-Diamino-1-ethyl-9-phenylphenanthridium Bromide

$C_{21}H_{20}BrN_3$
M = 394.33 g/mol
CAS 1239-45-8
EINECS 214-984-6
CS 29339980
Index Nr. 612-278-00-6

Melting Point .....248-252 °C
Solubility ..... 40 g/L (H_2O)
Solid

UN2811
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 3*
Storage RT

Danger



H330 H341 H302

A1151 Ethidium Bromide BioChemica

Specifications
Assay (titr.) .....min. 95.0 %
λ_{max} (MeOH) ..... 524-527 nm
Loss on drying .....max. 10 %
Solubility (1 %; H_2O) .....clear, red
NH_4Br .....max. 0.1 %

Code	Packaging
A1151,0001	1 g
A1151,0005	5 g
A1151,0010	10 g
A1151,0050	50 g
A1151,0500	500 g

Ethidium Bromide solution 1 %

2,7-Diamino-1-ethyl-9-phenylphenanthridium Bromide solution

EINECS 214-984-6
CS 38220000

Liquid

UN2810
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 2
Storage 2-8 °C

Danger



H302 H330 H341

A1152 Ethidium Bromide solution 1 % BioChemica

Filtered

Specifications
pH (H_2O; 20 °C) 5.0-6.0

Composition:
Ethidium bromide ..... 10 mg/ml

Code	Packaging
A1152,0010	10 ml
A1152,0025	25 ml
A1152,0100	100 ml

Ethidium Bromide solution 0.07 %

2,7-Diamino-1-ethyl-9-phenylphenanthridium Bromide solution

EINECS 214-984-6
CS 38220000

Liquid

WGK 1
Storage 2-8 °C

A2273 Ethidium Bromide solution 0.07 % "dropper-bottle"

Filtered

Composition:
Concentration ..... 0.7 mg/ml

Code	Packaging
A2273,0005	5 ml
A2273,0015	15 ml

Ethidium Bromide substitute see DNA-Dye NonTox

Ethoxyethane see Diethyl Ether stabilized with BHT

2-Ethoxyethanol see 2-Ethoxyethano

Ethyl Acetate

Acetic Acid Ethyl Ester, Acetic Ether

$CH_3COOC_2H_5$
M = 88.10 g/mol
CAS 141-78-6
EINECS 205-500-4
CS 29153100
Index Nr. 607-022-00-5

Melting Point .....-83 °C
Boiling Point ..... 77 °C
Density .....0.903 kg/l
Solubility ..... water 80 g/l at 20 °C
Refractive Index n20/D 1.3719
Liquid

UN1173
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage away from direct light.

Danger



H225 H319 EUH066 H336

361318 Ethyl Acetate for UV, IR, HPLC, ACS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 0.900-0.902

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0003 %
Darkened substances
by H_2SO_4 ..... passes test
Water (H_2O) .....0.01 %
Suitability for IR spectrometry: .....passes test
Fluorescence at 254 nm (as quinine) ..... 2 ppb
Fluorescence at 365 nm (as quinine) ..... 1 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 253 nm (Cut off) .....≥ 10 %
Transmittance at 255 nm .....≥ 20 %
Transmittance at 257 nm .....≥ 32 %
Transmittance at 260 nm .....≥ 50 %
Transmittance at 263 nm .....≥ 80 %
Transmittance at 265 nm .....≥ 90 %
Transmittance at 270-400 nm .....≥ 98 %
Data of interest in HPLC:
P' + 0.25 E 5.8
Rohrschneider Polarity 4.4
Eluotropic value e^o (Al_2O_3) 0.58
Sol. H_2O in solv. at 20 °C 9.8
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361318.1611	1000 ml
361318.1612	2.5 l
361318.0515	10 l

321318 Ethyl Acetate for pesticide analysis

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity .....IR passes test
Density 20/4 ..... 0.900-0.902

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0008 meq/g
Non-volatile matter .....0.0005 %
Water (H_2O) .....0.02 %
Signal ECD of pesticide (Lindane a DDT)
(as Lindane) ..... 5 ng/l
Signal FID of 2-Octanol to Tetradecanol
(as 2-Octanol) .....passes test

Code	Packaging
321318.1611	1000 ml
321318.1612	2.5 l
321318.1646	4 l
321318.0515	10 l
321318.0516	25 l

131318 Ethyl Acetate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/20 ..... 0.901-0.902
Range of Boiling ..... 76-78 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances
by H_2SO_4 ..... passes test
Acetone (G.C.) ..... 0.005 %
Acetaldehyde (G.C.) ..... 0.005 %
Aldehydes ..... passes test
Ethanol (G.C.) ..... 0.1 %
Isopropyl Acetate (G.C.) ..... 0.1 %
Methanol (G.C.) ..... 0.02 %
Methyl Acetate (G.C.) ..... 0.02 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
Al 0.5
As 0.5
Au 0.1
B 0.02
Ba 0.1
Be 0.02
Bi 0.05
Ca 0.5
Cd 0.05
Co 0.02
Cr 0.02
Cu 0.02
Fe 0.1
Ga 0.02
Ge 0.05
Hg 0.05
In 0.05
K 0.1
Li 0.05
Mg 0.1
Mn 0.02

Code	Packaging
131318.1211	1000 ml
131318.1611	1000 ml
131318.1212	2.5 l
131318.1612	2.5 l
131318.1214	5 l
131318.0515	10 l
131318.0716	25 l
131318.0537	30 l

191318 Ethyl Acetate (BP, Ph. Eur.) pharma grade

Specifications
Assay ($C_4H_8O_2$) ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
Density 20/20 ..... 0.898-0.902
Refractive Index n20/D 1.370-1.373

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity ..... passes test
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.003 %
Darkened substances by H_2SO_4 ... passes test
Related substances ..... passes test
Residual solvents (Ph. Eur.) ..... passes test
Water (H_2O) ..... 0.1 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
191318.1212	2,5 l
191318.1214	5 l
191318.0616	25 l
191318.0716	25 l

141318 Ethyl Acetate pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.900-0.905
Acidity ..... 0.0015 meq/g
Non-volatile matter ..... 0.002 %
Ethanol (G.C.) ..... 0.1 %
Methanol (G.C.) ..... 0.2 %
Methyl Acetate (G.C.) ..... 0.2 %
Water (H_2O) ..... 0.3 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141318.1211	1000 ml
141318.1212	2.5 l
141318.1214	5 l
141318.0616	25 l
141318.0716	25 l
141318.0537	30 l

161318 Ethyl Acetate, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.900-0.902
Acidity (as CH_3COOH) ..... 0.003 %
Non-volatile matter ..... 0.001 %
Ethanol (G.C.) ..... 0.25 %
Water (H_2O) ..... 0.05 %

Code	Packaging
161318.1211	1000 ml
161318.1212	2.5 l
161318.1714	5 l
161318.0515	10 l
161318.0516	25 l
161318.0616	25 l
161318.0716	25 l
161318.0537	30 l

211318 Ethyl Acetate technical grade

Specifications
Assay (G.C.) ..... 99 %
Density 20/4 ..... 0.900-0.905
Water (H_2O) ..... 0.3 %

Code	Packaging
211318.1212	2.5 l
211318.1214	5 l
211318.0716	25 l

Ethyl Aldehyde see Acetaldehyde

Ethyl Ether see Diethyl Ether stabilized with BHT

Ethyl Green see Methyl Green (C.I. 42585)

Ethyl Methyl Ketone see 2-Butanone

Ethyl Oxide see Diethyl Ether stabilized with BHT

Ethyl Violet (C.I. 42600)

Basic Violet 4, Ethyl Purple 6 B

$C_{31}H_{42}ClN_3$
M = 492.10 g/mol
CAS 2390-59-2
EINECS 219-231-5
CS 32041300
Solubility .....Miscible with alcohol and glycerol
Solubility ..... alcohol 30 g/l
Solid
WGK 3
Storage RT

123718 Ethyl Violet (C.I. 42600) for analysis

For determination of surfactants

Specifications
Identity ..... IR passes test
A 1 %, 1 cm, λ_{max} (1 cm) ..... > 1600
λ_{max} ABS in H_2O ..... 594-597 nm
T.L.C. ..... passes test

Maximum limit of impurities
Cu ..... 0.005 %
Fe ..... 0.02 %
Ni ..... 0.005 %
Pb ..... 0.01 %

Code	Packaging
123718.1606	25 g

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

HEBAPEAKTMB

1-Ethyl-2-Pyrrolidone

$C_6H_{11}NO$
M = 113.16 g/mol
CAS 2687-91-4
EINECS 220-250-6
CS 29337900

Boiling Point .....212-213 °C
Density .....1.00 g/cm³ (20 °C)
Liquid

WGK 1
Storage RT

Danger



H318

167036 1-Ethyl-2-Pyrrolidone for synthesis

Specifications
Assay .....min. 98 %
Refractive index 1.4655-1.4665
Water (K.F.) .....max. 0.5 %

Code	Packaging
167036.1212	2.5 L

1-Ethyl-3-Pyrrolin-2,5-dione see N-Ethylmaleimide

Ethyl (S)-(-)-Lactate

2-Hydroxypropanoic Acid Ethyl Ester, Lactic Acid Ethyl Ester

$C_5H_{10}O_3$
M = 118.14 g/mol
CAS 687-47-8
EINECS 211-694-1
CS 29181100
Index Nr. 607-129-00-7

Melting Point .....-25 °C
Boiling Point .....154 °C
Density .....1.031 kg/l
Refractive Index n25/D 1.411
Liquid

UN1192
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Danger



H226 H335 H318

201319 Ethyl (S)-(-)-Lactate (F.C.C.) food grade

Specifications
Assay ($C_5H_{10}O_3$), not less than .....98.0 %
IR .....passes test
Refractive Index n20/D 1.410-1.420
Specific gravity at 25/25 .....1.029-1.032
Acidity value 1
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201319.0716	25 l

Ethylene Chloride see 1,2-Dichloroethane

Ethylene Dichloride see 1,2-Dichloroethane

Ethylene Glycol

Glycol, 1,2-Ethanediol, 1,2-Dioxyethane

CH_2OHCH_2OH
M = 62.07 g/mol
CAS 107-21-1
EINECS 203-473-3
CS 29053100
Index Nr. 603-027-00-1

Melting Point .....-12 °C
Boiling Point .....196 °C
Density .....1.11 kg/l (20 °C)
Refractive Index n20/D 1.4318
Liquid

WGK 1
Storage RT

Warning



H302 H373

121316 Ethylene Glycol (Reag. USP, Ph. Eur.) for analysis

Specifications
Minimum assay (G.C.) .....99.5 %
Identity .....IR passes test
Density 20/20 .....1.113-1.115

Maximum limit of impurities
APHA colour 10
Acidity .....0.0005 meq/g
Insoluble matter in H_2O .....passes test
Reducing substance to $KMnO_4$ (as O) .....0.0003 %
Darkened substances by H_2SO_4 .....passes test
Residue on ignition (as SO_4) .....0.003 %
Chloride (Cl) .....0.0001 %
Sulfate (SO_4) .....0.0005 %
Diethyleneglycol (G.C.) .....0.05 %
Water (H_2O) .....0.1 %
Ca .....0.00005 %
Cd .....0.000005 %
Co .....0.000002 %
Cr .....0.000002 %
Cu .....0.000002 %
Fe .....0.00001 %
Mg .....0.00001 %
Mn .....0.000002 %
Ni .....0.000002 %
Pb .....0.00001 %

Code	Packaging
121316.1211	1000 ml
121316.1212	2.5 l
121316.1214	5 l
121316.0715	10 l
121316.0716	25 l
121316.0719	200 l

141316 Ethylene Glycol pure

Specifications
Assay (G.C.) .....99 %
Identity .....IR passes test
Density 20/4 .....1.113-1.117
Acidity (as CH_3COOH) .....0.01 %
Residue on ignition (as SO_4) .....0.01 %
Chloride (Cl) .....0.001 %
Sulfate (SO_4) .....0.01 %
Diethyleneglycol (G.C.) .....0.1 %
Water (H_2O) .....0.3 %
Cu .....0.00002 %
Fe .....0.00005 %
Ni .....0.00002 %
Pb .....0.00002 %

Code	Packaging
141316.1211	1000 ml
141316.1212	2.5 l
141316.1214	5 l
141316.0716	25 l

161316 Ethylene Glycol, 99 % for synthesis

Specifications
Minimum assay (G.C.) .....99 %
Identity .....IR passes test
Density 20/4 .....1.113-1.117
Water (H_2O) .....0.1 %

Code	Packaging
161316.1211	1000 ml
161316.1212	2.5 l
161316.1214	5 l
161316.0715	10 l
161316.0716	25 l

A3682 Ethylene Glycol BioChemica

Specifications
Assay (G.C.) .....min. 99.5 %
Acidity .....max. 0.002 meq/g
Insoluble matter .....passes test
Aldehydes .....max. 0.01 %
Water (K.F.) .....max. 0.1 %
Chloride .....max. 0.0001 %

Code	Packaging
A3682,1000	1 L

Ethylene Glycol bis(sulfosuccinimidylsuccinate) Disodium Salt see Sulfo-EGS

Ethylene Glycol mono-Ethyl Ether

2-Ethoxyethanol, Cellosolve, Ethylglycol, Oxitol

$C_4H_{10}O_2$
M = 90.12 g/mol
CAS 110-80-5
EINECS 203-804-1
CS 29094400
Index Nr. 603-012-00-X

Melting Point ..... -100 °C
Boiling Point ..... 135 °C
Density ..... 0.932 kg/l
Refractive Index n20/D 1.4075
Liquid

UN1171
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Danger



H360FD H226 H331 H302

141317 Ethylene Glycol mono-Ethyl Ether pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.930-0.933
Acidity ..... 0.005 meq/g
Water (H_2O) ..... 0.3 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141317.1211	1000 ml

161317 Ethylene Glycol mono-Ethyl Ether, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.930-0.933
Water (H_2O) ..... 0.2 %

Code	Packaging
161317.0715	10 l
161317.0716	25 l

Ethylene Glycol mono-Methyl Ether

2-Methoxy Ethanol, Methyl Cellosolve, Methylglycol

$HOCH_2CH_2OCH_3$
M = 76.10 g/mol
CAS 109-86-4
EINECS 203-713-7
CS 29094400
Index Nr. 603-011-00-4

Melting Point ..... -85 °C
Boiling Point ..... 124.4 °C
Density ..... 0.966 kg/l
Refractive Index n20/D 1.4028
Liquid

UN1188
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Danger



H360D H226 H332 H312 H302

131897 Ethylene Glycol mono-Methyl Ether for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.964-0.968

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.001 meq/g
Non-volatile matter ..... 0.005 %
Peroxides (as H_2O_2) ..... 0.0003 %*
Water (H_2O) ..... 0.1 %
Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.000002 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %
* At the moment of the batch analysis.

Code	Packaging
131897.1611	1000 ml

161897 Ethylene Glycol mono-Methyl Ether, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.964-0.968
Water (H_2O) ..... 0.1 %

Code	Packaging
161897.0716	25 l

Ethylene Tetrachloride see Tetrachloroethylene

Ethylene Trichloride see Trichloroethylene

Ethylenediamine

1,2-Diaminoethane, 1,2-Ethanediamine

$C_2H_8N_2$
M = 60.10 g/mol
CAS 107-15-3
EINECS 203-468-6
CS 29212100
Index Nr. 612-006-00-6

Melting Point ..... 8.5 °C
Boiling Point ..... 116.5 °C
Density ..... 0.899 kg/l
Refractive Index n20/D 1.454
Liquid

UN1604
Class/PG 8(3)/II
ADR 8(3)/II · IMDG 8(3)/II · IATA 8(3)/II
WGK 2
Storage RT

Danger



H226 H312 H302 H314 H334 H317

161869 Ethylenediamine, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.897-0.900
Water (H_2O) ..... 1 %

Code	Packaging
161869.1611	1000 ml
161869.1612	2.5 l

Ethylenediaminotetraacetic Acid Dipotassium Salt 2-hydrate see EDTA Dipotassium Salt 2-hydrate

Ethylenediaminotetraacetic Acid Tetrasodium Salt 2-hydrate see EDTA Tetrasodium Salt 2-hydrate

Ethylenediaminotetraacetic Acid Tripotassium Salt 2-hydrate see EDTA Tripotassium Salt 2-hydrate

Ethylenedinitrilotetraacetic Acid Dipotassium Salt 2-hydrate see EDTA Dipotassium Salt 2-hydrate

Ethylenedinitrilotetraacetic Acid Tripotassium Salt 2-hydrate see EDTA Tripotassium Salt 2-hydrate

Ethylglycol see Ethylene Glycol mono-Ethyl Ether

НеваРеактив

N-Ethylmaleimide

1-Ethyl-3-Pyrrolin-2,5-dione

$C_6H_7NO_2$
M = 125.13 g/mol
CAS 128-53-0
EINECS 204-892-4
CS 29251995

Melting Point ..... 43-45 °C
Solubility ..... approx. 1 g/L
Solid

UN2928
Class/PG 6.1(8)/II
ADR 6.1(8)/II · IMDG 6.1(8)/II · IATA 6.1(8)/II
WGK 3
Storage 2-8 °C

Danger



H300 H311 H314 H317

A2251 N-Ethylmaleimide BioChemica

Specifications
Assay (G.C.) ..... min. 99 %
Heavy metals ..... max. 0.001 %
Sulfated ash ..... max. 0.05 %

Code	Packaging
A2251,0025	25 g

Eucalyptol

1,3,3-Trimethyl-2-Oxabicyclo[2.2.2]Octane, 1,8-Epoxy-p-Menthane, Cineole

$C_{10}H_{18}O$
M = 154.24 g/mol
CAS 470-82-6
EINECS 207-431-5
CS 29092000

Melting Point ..... 1.5 °C
Boiling Point ..... 177 °C
Density ..... 0.920 kg/l
Refractive Index n20/D 1.458
Liquid

WGK 2
Storage RT

Warning



H226

142085 Eucalyptol (USP) pure, pharma grade

Specifications
Assay (G.C.) ..... 98.0-100.0 %
Identity according to Pharmacopoeias: ..... IR passes test
Density 25/25 ..... 0.921-0.924
Range of Distillation ..... 174-177 °C
Freezing point ..... > 0 °C
Refractive Index n20/D 1.455-1.460
Specific rotation α 25/D (without dil.) ..... -0.5 - +0.5°

Maximum limit of impurities
Residual solvents (Ph. Eur./USP) passes test
Phenol ..... passes test
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
142085.1611	1000 ml

212085 Eucalyptol technical grade

Specifications
Assay (G.C.) ..... 98 %
Density 25/25 ..... 0.915-0.925
Insoluble matter in C_2H_5OH ..... passes test

Code	Packaging
212085.1611	1000 ml

Euflavine see Acriflavine Hydrochloride

Eukitt®, mounting medium

CS 38220000

Melting Point ..... < 0 °C
Boiling Point ..... ~ 137 °C
Solubility ... Soluble in aromatic hydrocarbons.
Solubility ..... Soluble in esters and ketones.
Refractive Index n20/D 1.495
Liquid

UN1866
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Danger



H225 H332 H312 H315

253681 Eukitt®, mounting medium for clinical diagnosis

For microscopy, mounting medium (® Registered trade-mark of O. Kindler GmbH)

Specifications
Identity ..... IR passes test
Refractive Index n20/D 1.493-1.496

Code	Packaging
253681.0008	100 ml
253681.0009	250 ml
253681.0010	500 ml

Eupatorin

3',5-Dihydroxy-4',6,7-Trimethoxyflavone

Origin from *Orthosiphon stamineus*

$C_{18}H_{16}O_7$
M = 344.32 g/mol
CAS 855-96-9
CS 29329900

Storage 2-8 °C

Warning



H302 H335

A9568 Eupatorin for HPLC

Specifications
Assay ..... min. 99 %

Code	Packaging
A9568,0020	20 mg

Europin Hydrochloride

Origin from *Heliotropium*

$C_{16}H_{28}NO_6Cl$
M = 365.84 g/mol
CS 29420000

Storage 2-8 °C

Warning



H302

A9571 Europin Hydrochloride for HPLC

Specifications
Assay ..... min. 97 %

Code	Packaging
A9571,0010	10 mg
A9571,0020	20 mg

Printed on FSC® certified paper from well managed forests

Europin-N-Oxide

Origin from *Heliotropium*

$C_{16}H_{27}NO_7$
M = 345.39 g/mol
CAS 65582-53-8
CS 29420000

Storage 2-8 °C

Warning



H302

A9574 Europin-N-Oxide for HPLC

Specifications
Assay .....min. 97 %

Code	Packaging
A9574,0010	10 mg
A9574,0020	20 mg

Evan's Blue (C.I. 23860)

Direct Blue 53

$C_{34}H_{24}N_6Na_4O_{14}S_4$
M = 960.82 g/mol
CAS 314-13-6
EINECS 206-242-5
CS 32041400

Solid

WGK 2
Storage RT

Danger



H350

A4388 Evan's Blue (C.I. 23860)

Specifications
λ_{max} ..... 605-612 nm
Loss on drying .....max. 12 %

Code	Packaging
A4388,0025	25 g

ExitusPlus™ Activity Test

Color-coded test strips for DNA-ExitusPlus™ activity

CS 38220000

Storage RT

A9411 ExitusPlus™ Activity Test

Code	Packaging
A9411,0025	25 Tests

ExitusPlus™ Washing Powder

CS 38220000

Storage RT

A9581 ExitusPlus™ Washing Powder

Powder mixture to prepare nucleic acid decontamination reagent

• ExitusPlus™ Washing Powder; is a registered trademark of AppliChem GmbH

Specifications
Characteristics of ExitusPlus™ Washing Powder solutions: Rapid nucleic acid degradation, non-specific protein inactivation, anti-bacterial, anti-fungal, anti-viral activity
All components of ExitusPlus™ Washing Powder are readily bio-degradable and not harmful or toxic for humans

No aggressive mineral acids or alkaline substances are used. Equipment and materials are not damaged or corroded even after prolonged incubation times. No toxic fumes
The reagent is active at ambient temperature. Elevated temperatures above approx. 50 °C speed up the reaction and the activity.

Code	Packaging
A9581,9020	20 L

Exonuclease III

Origin expressed in *E. coli*

CS 35079090

Storage -20 °C

A5205 Exonuclease III

Specifications
Supplied with reaction buffer (10X)
Application

Unidirectional nested deletions.
Site-directed mutagenesis.
Preparation of strand-specific probes.

Preparation of single-stranded substrates for dideoxy sequencing.
Concentration ..... 80000-100000 Units/ml

Code	Packaging
A5205,5000	5 KU

Expansine see Patulin

FAD-Na see Flavin Adenine Dinucleotide Disodium Salt 2-hydrate

FALGPA

N-[3-(2-Furylacryloyl)]-L-Leucyl-Glycyl-L-Prolyl-L-Alanine

$C_{23}H_{32}N_4O_7$
M = 476.53 g/mol
CAS 78832-65-2
CS 29321900

Solid

Storage 2-8 °C

A0952 FALGPA BioChemica

Specifications
Assay (from N) .....min. 90 %
Solubility (5 %; MeOH) ....clear, slightly yellow

Code	Packaging
A0952,0025	25 mg

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

Fast Green FCF (C.I. 42053)

Food Green 3

$C_{37}H_{34}N_2Na_2O_{10}S_3$
M = 808.86 g/mol
CAS 2353-45-9
EINECS 219-091-5
CS 32041900

Solid

WGK 3*
Storage RT

Warning



H341

A1401 Fast Green FCF (C.I. 42053)

Specifications
λ_{max} (50 %, EtOH) ..... 622-626 nm
E 1 %/1 cm, λ_{max} 1360-1610
Loss on drying ..... max. 10 %

Code	Packaging
A1401,0025	25 g

Fast Staining in Haematology, Kit for see Kit for Fast Staining in Haematology (Fast Panoptic)

FDA M169 see TSC Agar Base (ISO 7937) (Prepared Bottles) for microbiology

Fehling's A Reagent

Alkaline cupric solution

CS 38220000

Density ..... 1.024 kg/l
Solubility ..... Miscible with water

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H411

251563 Fehling's A Reagent for clinical diagnosis

For determination of glucose in urine and reducing sugars

Composition:
Copper(II) Sulfate 5-hydrate ..... 48.30 g
Sulfuric Acid 96 % ..... 1 ml
Water (s.q.m) ..... 1 l
Identity ..... passes test

Maximum limit of impurities
Suitability for determination of glucose passes test

Code	Packaging
251563.1210	500 ml
251563.1211	1000 ml
251563.1212	2.5 l

Fehling's A Reagent

Alkaline cupric solution

CS 38220000

Density ..... 1.045 kg/l
Solubility ..... Miscible with water

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H411

624568 Fehling's A Reagent VINIKIT for wine analysis

For determination of reducing sugars

Composition:
Copper(II) Sulfate 5-hydrate ..... 70 g
Sulfuric Acid 96 % ..... 1 ml
Water (s.q.m) ..... 1 l

Code	Packaging
624568.1209	250 ml

Fehling's B Reagent

Alkaline cupric solution

CS 38220000

Density ..... 1.215 kg/l

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314

251564 Fehling's B Reagent for clinical diagnosis

For determination of glucose in urine and reducing sugars

Composition:
Sodium Hydroxide ..... 90 g
Potassium Sodium Tartrate 4-hydrate ... 300 g
Water (s.q.m) ..... 1 l
Identity ..... passes test

Maximum limit of impurities
Suitability for determination of glucose passes test

Code	Packaging
251564.1210	500 ml
251564.1211	1000 ml
251564.1212	2.5 l

Fehling's B Reagent

Alkaline cupric solution

CS 38220000

Density ..... 1.239 kg/l
Solubility ..... Miscible with water

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314

624569 Fehling's B Reagent VINIKIT for wine analysis

For determination of reducing sugars

Composition:
Sodium Hydroxide ..... 100 g
Potassium Sodium Tartrate 4-hydrate ....346 g
Water (s.q.m) ..... 1 l

Code	Packaging
624569.1209	250 ml

Ferric Chloride see Iron(III) Chloride

Ferric Nitrate see Iron(III) Nitrate 9-hydrate

Ferriprotoporphyrine IX Chloride see Hemin porcine

Ferroin solution 0,025 mol/l (0,025M)

1,10-Phenanthroline-Iron(II) Sulfate Complex, Tris (1,10-Phenanthroline) Iron(II) Sulfate

$C_{36}H_{24}FeN_6O_4S$
M = 692.24 g/mol
CAS 14634-91-4
EINECS 238-676-6
CS 38220000

Density .....1.008 kg/l
Solubility .....Miscible with water

WGK 2
Storage RT

Warning



H302 H412

283462 Ferroin solution 0.025 mol/l (0.025M) for volumetric analysis

Redox indicator

Specifications
Suitability: as redox indicator ..... passes test

Code	Packaging
283462.1608	100 ml
283462.1609	250 ml

α-Fetoprotein (AFP), human

Origin from human cord serum

CS 30021010

Storage 2-8 °C
Storage Do not freeze!

A6935 α-Fetoprotein (AFP), human

0.2 µm filtered

Supplied liquid in 100 mM PBS, pH 7.4, 0.1 % sodium azide

Specifications
Assay ..... min. 90 %

Appearance ..... colorless to clear straw
Concentration ..... typ. > 1 mg/ml

Code	Packaging
A6935,0500	500 µg

Fetuin low Endotoxin

Origin from fetal calf serum

EINECS 232-762-7
CS 35040090

Solid

Storage -20 °C
Storage at -20 °C stable for min. 2 years

A2783 Fetuin low Endotoxin

freeze-dried, low salt content, water-soluble

Specifications
Assay ..... min. 70 %
Endotoxin .....0-3.0 EU/mg

Protein .....min. 80 %
Water (K.F.) .....max. 5 %

Code	Packaging
A2783,0001	1 g

Fibronectin solution

Bovine Fibronectin Solution

CS 30021099

Storage 2-8 °C

A8350 Fibronectin solution for cell culture

Specifications
Cell Attachment ..... passes test
Fibronectin .....1 mg/ml
Sterility ..... passes test

Code	Packaging
A8350,0001	1 ml
A8350,0005	5 ml

Ficoll® 400

M = approx. 400000 g/mol
CAS 26873-85-8
EINECS 200-334-9
CS 39139000

Solid

Storage RT

A4969 Ficoll® 400 for molecular biology

Non-ionic, synthetic polymere of sucrose

® Registered trademark Pharmacia Biotech

Specifications
DNases/RNases/Proteases .....not detectable

Heavy metals (as Pb) .....max. 0.001 %
Loss on drying .....max. 3 %

Code	Packaging
A4969,0100	100 g

A2252 Ficoll® 400 BioChemica

Non-ionic, synthetic polymere of sucrose

® Registered trademark Pharmacia Biotech

Specifications
Heavy metals (as Pb) .....max. 0.001 %
Loss on drying .....max. 3 %
Solubility (10 %; H_2O) .....clear, colorless

Code	Packaging
A2252,0025	25 g
A2252,0100	100 g
A2252,1000	1 kg
A2252,9025	25 kg

Field's stain A

CS 38220000

Solid

Storage RT

A6592 Field's stain A

Specifications
$\lambda_{1\,max}$ (1 cm; H_2O) ..... approx. 660 nm
$\lambda_{2\,max}$ (1 cm; H_2O) ..... approx. 290 nm

Code	Packaging
A6592,0025	25 g

three-port Filtration Manifold

MAN03NYMC Nylon, three-port Filtration Manifold

Code	Packaging
MAN03NYMC	1 piece

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

НеваРеактив

Firefly Luciferin see D-Luciferin free acid

First Strand cDNA Synthesis-Kit for RT-PCR

RT-PCR First Strand cDNA Synthesis Kit for Reverse Transcription, Reverse Transcription First Strand cDNA Synthesis Kit for RT-PCR

CS 38220000

Storage -20 °C
Storage for long-term storage, store control RNA at -70 °C

A5204 First Strand cDNA Synthesis-Kit for RT-PCR

Specifications
Premixed solutions for the synthesis of single-stranded cDNA from RNA for use as a PCR template
Kit Reagents for 50 reactions

RT Reaction Mix
DTT Solution, 100 mM
Oligo(dT)20 Primer, 40 µM
Random Hexamer Primer, 40 µM
Control RNA /(human total RNA), 1 µg/µl

Primer Mix (human G3PDH amplimere), 10 µM each
DEPC-treated water

Code	Packaging
A5204,0050	50 Reac.

FITC

Fluorescein Isothiocyanate isomer I

$C_{21}H_{11}NO_5S$
M = 389.39 g/mol
CAS 3326-32-7
EINECS 222-042-0
CS 32049000

Solid

Storage 2-8 °C
Storage protected from light

A2162 FITC BioChemica

Specifications
Assay (HPLC) .....min. 90 %
Loss on drying .....max. 2 %

Code	Packaging
A2162,0001	1 g

Fixing B-5

CS 38220000

Density .....1.051 kg/l
Liquid

UN2810
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage RT

Danger



H330 H310 H300 H373 H411

253500 Fixing B-5 for clinical diagnosis

For microscopy

Composition:
Mercury(II) Chloride ..... 6 g
Sodium Acetate 3-hydrate .....2.06 g
Water (s.q.m) .....100 ml

Code	Packaging
253500.1211	1000 ml

Fixing for fast staining (Panoptic No. 1)

CS 38220000

Density .....0.791 kg/l
Solubility .....Miscible with water
Liquid

UN1992
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
Storage RT

Danger



H225 H331 H311 H301 H370

254101 Fixing for fast staining (Panoptic No. 1) for clinical diagnosis

For microscopy, blood smear staining or medullary smear staining

Composition:
Crystal Violet ..... 2 mg
Methanol s.q.m ..... 1000 ml

Code	Packaging
254101.1210	500 ml
254101.1212	2.5 l

Fixing salt see Sodium Thiosulfate anhydrous

Flavin Adenine Dinucleotide Disodium Salt 2-hydrate

FAD-Na_2, Riboflavin-5'-Adenosine Diphosphate Disodium Salt 2-hydrate

$C_{27}H_{31}N_9Na_2O_{15}P_2 \cdot 2H_2O$
M = 865.56 g/mol
CAS 146-14-5
EINECS 282-733-8
CS 29349990

Solid

Storage 2-8 °C
Storage protected from light

A2163 Flavin Adenine Dinucleotide Disodium Salt 2-hydrate BioChemica

Specifications
Assay (photometr.) .....min. 95 %
Water (K.F.) .....max. 10 %

Code	Packaging
A2163,0500	500 mg

Flavin Mononucleotide Monosodium Salt 2-hydrate

Riboflavin 5'-Phosphate Monosodium Salt 2-hydrate, FMN

$C_{17}H_{20}N_4NaO_9P \cdot 2H_2O$
M = 514.36 g/mol
CAS 130-40-5
EINECS 204-988-6
CS 29362300

Solid

Storage RT

A0601 Flavin Mononucleotide Monosodium Salt 2-hydrate BioChemica

Specifications
Assay (photometr.) .....73.0-79.0 %
Heavy metals (as Pb) ..... max. 0.001 %
Loss on drying .....max. 8 %

pH (1 %; H_2O; 20 °C) 5.5-6.5
Solubility (10 %; H_2O) ..... clear

Code	Packaging
A0601,0010	10 g

HeBaPeaKTMB

Florisil® 60-100 mesh

Adsorbent for chromatography, Magnesium Silicate activated

MgO_3Si
M = 100.39 g/mol
CAS 1343-88-0
EINECS 215-681-1
CS 28399090

WGK nwg
Storage RT

177035 Florisil® for chromatography 60-100 mesh

® Registered trademark of U.S. Silica Company

Specifications
Particle size .....60-100 mesh

Code	Packaging
177035.1208	100 g
177035.1210	500 g

Flowers of Sulfur see Sulfur sublimated

Fluid Sabouraud Medium see Glucose Sabouraud Broth (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Fluid Sabouraud Medium USP see Glucose Sabouraud Broth (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Fluorescamine

Fluram

$C_{17}H_{10}O_4$
M = 278.27 g/mol
CAS 38183-12-9
EINECS 253-814-5
CS 29329900

Melting Point .....153-157 °C
Solid

Storage RT

A2164 Fluorescamine BioChemica

Specifications
Assay (UV) .....min. 99 %

Code	Packaging
A2164,0100	100 mg
A2164,0500	500 mg
A2164,0001	1 g

Fluorescein (C.I. 45350)

Solvent Yellow 94

$C_{20}H_{12}O_5$
M = 332.32 g/mol
CAS 2321-07-5
EINECS 219-031-8
CS 32041200

Melting Point ..... 320 °C
Solubility .....water 0.3 g/l
Solubility .....alcohol 20 g/l
Solid

WGK 1
Storage RT

121832 Fluorescein (C.I. 45350) for analysis

Adsorption indicator

Specifications
Identity .....IR passes test
A 1 %, 1 cm, λ_{max} .....> 2200

λ_{max} ABS in NaOH 0.1 mol/l .....487-491 nm
Suitability: as adsorption indicator .....passes test
T.L.C. .....passes test

Maximum limit of impurities
Reagent sensitivity to Br .....passes test

Code	Packaging
121832.1606	25 g
121832.1609	250 g

Fluorescein Sodium (C.I. 45350)

Acid Yellow 73, Uranine

$C_{20}H_{10}Na_2O_5$
M = 376.30 g/mol
CAS 518-47-8
EINECS 208-253-0
CS 32041200

Melting Point .....> 360 °C
Solubility .....water 500 g/l
Solubility .....alcohol 70 g/l
Solid

WGK 1
Storage RT

122389 Fluorescein Sodium (C.I. 45350) for analysis

Adsorption indicator

Specifications
Identity .....IR passes test
A 1 %, 1 cm, λ_{max} .....> 1750
λ_{max} ABS in H_2O ..... 488-490 nm
T.L.C. ..... passes test

Reagent sensitivity to Br .....passes test
Acriflavine .....passes test

Maximum limit of impurities

Code	Packaging
122389.1606	25 g
122389.1608	100 g
122389.1609	250 g
122389.1610	500 g
122389.1611	1000 g

Fluorescein Complexone see Calcein

Fluorescein Isothiocyanate isomer I see FITC

Fluorexone see Calcein

5-Fluoro-2,4(1H,3H)-Pyrimidinedione see 5-Fluorouracil

HeBaPeakTMB

Printed on FSC® certified paper from well managed forests

НеваРеактив

5-Fluoroorotic Acid

5-Fluorouracil-4-Carboxylic Acid

$C_5H_3FN_2O_4$
M = 174.09 g/mol
CAS 703-95-7
CS 29335995

Solid

Storage -20 °C

Warning



H302 H315 H319 H335

A1174 5-Fluoroorotic Acid BioChemica

Specifications
Assay (TLC) .....min. 99 %
Solubility
(5 %; 4 M NH_3) .....clear, slightly yellow

Code	Packaging
A1174,0001	1 g

5-Fluorouracil

5-FU, 2,4-Dihydroxy-5-Fluoropyrimidine, 5-Fluoro-1H-Pyrimidine-2,4-dione, 5-Fluoro-2,4(1H,3H)-Pyrimidinedione

$C_4H_3FN_2O_2$
M = 130.08 g/mol
CAS 51-21-8
EINECS 200-085-6
CS 29335995

Melting Point ..... 282-286 °C (dec.)
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT
Storage protected from light

Danger



H301 H351

A7686 5-Fluorouracil BioChemica

Specifications
Assay (HPLC) .....min. 99 %

Code	Packaging
A7686,0005	5 g

FMN see Flavin Mononucleotide Monosodium Salt 2-hydrate

Folic Acid

Vitamin B_{11}, Vitamin M, Vitamin B_9, Pteroyl-L-Glutamic Acid

$C_{19}H_{19}N_7O_6$
M = 441.41 g/mol
CAS 59-30-3
EINECS 200-419-0
CS 29362900

Solid

Storage protected from light
Storage RT

14B216 Folic Acid (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (HPLC.) (calc. a.a.s) ..... 98.0-102.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Residue on ignition (as SO_4) ..... 0.2 %
Related substances ..... passes test

Residual solvents (Ph. Eur./USP) passes test
Water (H_2O) ..... 5.0-8.5 %

Code	Packaging
14B216.1206	25 g
14B216.1208	50 g

A2085 Folic Acid crystalline BioChemica

Specifications
Assay (HPLC) .....min. 96 %
α20 °C/D; 0.5 %, 0.1 M NaOH ..... 18-23°
Solubility .....0.002 g/L

Sulfated ash ..... max. 0.2 %
Water .....5.0-8.5 %

Code	Packaging
A2085,0010	10 g
A2085,0100	100 g

Folin-Ciocalteu's Reagent

CS 38220000

Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H290

251567 Folin-Ciocalteu's Reagent for clinical diagnosis

Phenol reagent

Composition:
Sodium Tungstate 2-hydrate ..... 10 g
Sodium Molybdate 2-hydrate ..... 2.5 g
ortho-Phosphoric Acid 85 % ..... 5 ml

Hydrochloric Acid 35 % ..... 10 ml
Lithium Sulfate 1-hydrate ..... 15 g
Water (s.q.m) ..... 100 ml

Code	Packaging
251567.1609	250 ml

621567 Folin-Ciocalteu's Reagent VINIKIT for wine analysis

Phenol reagent

Composition:
Sodium Tungstate 2-hydrate ..... 10 g
Sodium Molybdate 2-hydrate ..... 2.5 g
ortho-Phosphoric Acid 85 % ..... 5 ml

Hydrochloric Acid 35 % ..... 10 ml
Lithium Sulfate 1-hydrate ..... 15 g
Water (s.q.m) ..... 100 ml

Code	Packaging
621567.1609	250 ml

A5084 Folin-Ciocalteu's Reagent

Specifications
Concentration
(titr., calc. as acid) .....1.8-2.2 mol/L

Density (20 °C) ..... approx. 1.24 g/ml
n 20 °C/D 1.377-1.381

Code	Packaging
A5084,0500	500 ml

Food Green 3 see Fast Green FCF (C.I. 42053)

Formaldehyde Sodium Sulfoxylate see Sodium Formaldehyde Sulfoxylate x-hydrate

НеваРеактив

HeBaPeaKTMB

Formaldehyde solutions (concentrations: 35-40 %)

Formol, Formalin

CH_2O
M = 30.03 g/mol
CAS 50-00-0
EINECS 200-001-8
CS 29121100
Index Nr. 605-001-00-5

Melting Point ..... -118 °C
Density ..... 1.085 kg/l (20 °C)
Liquid

UN2209
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Danger



H301+H311+H331 H314 H317 H351 H370

131328 Formaldehyde 37-38 % w/w stabilized with methanol for analysis, ACS

Specifications
Assay (Acidim.) ..... 36.5-38.0 %

Maximum limit of impurities
APHA colour 10
Acidity (as HCOOH) ..... 0.025 %
Insoluble matter in H_2O ..... passes test
Residue on ignition (as SO_4) ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Sulfate (SO_4) ..... 0.002 %

Methanol ..... 9.0-14.0 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	1	Al	1	Cu	1
As	1	Au	1	Ga	1
B	1	Ba	1	Hg	1
Be	1	Bi	1	K	10
Ca	5	Cd	1	Mg	1
Co	1	Cr	1	Mo	1
Fe	1	Ge	1	Ni	1
In	1	Li	1	Pb	1
Mn	1	Na	10	S	1
P	1	Pt	1		

Code	Packaging
131328.1211	1000 ml
131328.1212	2.5 l
131328.1214	5 l
131328.0716	25 l

141328 Formaldehyde 37-38 % w/w stabilized with methanol (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay ..... 37.0-38.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
APHA colour 10
Appearance of solution ..... passes test
Acidity ..... passes test

Acidity free (as HCOOH) ..... 0.03 %
Insoluble matter in H_2O ..... passes test
Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
Residual solvents (Ph. Eur./USP) . passes test
Methanol ..... 9.0-15.0 %
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1.300 ppm
Fe ..... 0,0005 %

Code	Packaging
141328.1211	1000 ml
141328.1212	2.5 l
141328.1214	5 l
141328.0716	25 l

211328 Formaldehyde 35-40 % w/v stabilized with methanol technical grade

Specifications
Assay (Acidim.) ..... 35-40 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %
Methanol ..... 9-14 %
Fe ..... 0,002 %

Code	Packaging
211328.1211	1000 ml
211328.1212	2.5 l
211328.1214	5 l
211328.0716	25 l
211328.0719	200 l
211328.9774	1000 l

A0877 Formaldehyde solution 37 % for molecular biology

• **Attention**: All solutions of formaldehyde may contain a precipitate. This has no influence on the application.

Specifications
DNases/RNases/Proteases ..... not detectable

Assay (titr.) ..... min. 37 %
Acidic react. subst. ..... max. 0.05 %
Sulfated ash ..... max. 0.005 %
Methanol ..... 8-10 %
Chloride ..... max. 0.0005 %

Sulfate ..... max. 0.002 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
A0877,0250	250 ml
A0877,0500	500 ml
A0877,1000	1 L

A0823 Formaldehyde solution 37 % BioChemica

• **Attention**: All solutions of formaldehyde may contain a precipitate. This has no influence on the application.

Specifications
Assay (titr.) ..... min. 37 %

Acidic react. subst. ..... max. 0.05 %
Heavy metals (as Pb) ..... max. 0.0005 %
Sulfated ash ..... max. 0.005 %
Methanol ..... 8-10 %

Chloride ..... max. 0.0005 %
Sulfate ..... max. 0.002 %

Code	Packaging
A0823,0500	500 ml
A0823,2500	2.5 L
A0823,5000	5 L

A0936 Formaldehyde solution approx. 37 % for histology

• **Attention**: All solutions of formaldehyde may contain a precipitate. This has no influence on the application.

Specifications
Assay (titr.) ..... min. 36.5 %
Acidic react. subst. ..... max. 0.1 %
Sulfated ash ..... max. 0.01 %
Methanol (G.C.) ..... 8-10 %

Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A0936,1000	1 L
A0936,9025	25 L

Formaldehyde solution 30-36 % w/v

Formalin, Formol

CH_2O
M = 30.03 g/mol
CAS 50-00-0
EINECS 200-001-8
CS 29121100
Index Nr. 605-001-00-5

Boiling Point ..... 96-98 °C
Density ..... 1.08 kg/l
Refractive Index n20/D 1.3765
Liquid

UN2209
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Danger



H331 H311 H301 H314 H351 H317

253572 Formaldehyde 30-36 % w/v concentrated buffered to pH=7 stabilized with methanol for clinical diagnosis

Specifications
Assay (Iodom.) ..... 30-36 %
pH 6.8-7.2

Code	Packaging
253572.1211	1000 ml
253572.1214	5 l

HeBaPeaKTMB

Formaldehyde solutions 10 %

Formalin solution, Formol solution

CS 29121100
Index Nr. 605-001-00-5

Liquid

WGK 2
Storage RT

Warning



H302 H315 H317 H319 H335 H351 H370

143091 Formaldehyde solution 10 % neutralized, stabilized with methanol pure

Specifications
Assay (Iodom.) ..... 10 %

Code	Packaging
143091.1214	5 l
143091.1215	10 l
143091.0716	25 l

A3684 Formaldehyde solution 10 % phosphate buffered for histology

Specifications
pH (20 °C) .....7.0 ± 0.2

Composition:
Formaldehyde ..... min. 10 %
Na_2HPO_4 ..... 6.5 g/L
$NaH_2PO_4 \cdot H_2O$ ..... 4.0 g/L

Code	Packaging
A3684,2500	2.5 L
A3684,5000	5 L
A3684,9010	10 L

Formaldehyde solution 4 %

Formalin solution, Formol solution

CS 38220000
Index Nr. 605-001-00-5

Liquid

WGK 1
Storage RT

Warning



H302 H317 H351

A3697 Formaldehyde solution 4 % phosphate buffered for histology

Specifications
pH (20 °C) .....7.0 ± 0.2

Composition:
Formaldehyde ..... min. 4 %
Na_2HPO_4 ..... 6.5 g/L
$NaH_2PO_4 \cdot H_2O$ ..... 4.0 g/L

Code	Packaging
A3697,5000	5 L
A3697,9010	10 L

Formaldehyde solution 3.7-4.0 %

Formalin, Formol

CH_2O
M = 30.03 g/mol
CAS 50-00-0
EINECS 200-001-8
CS 29121100
Index Nr. 605-001-00-5

Density .....1.019 kg/l
Solubility .....Miscible with water
Liquid

WGK 2
Storage RT

Warning



H351 H317

252931 Formaldehyde 3.7-4.0 % buffered to pH=7 and stabilized with methanol for clinical diagnosis

for histology

Specifications
Assay (Iodom.) ..... 3.7-4.0 %
pH 6.8-7.2
Methanol (w/v) ..... 1-1.5 %

Code	Packaging
252931.0922	48x20 ml
252931.1211	1000 ml
252931.1212	2.5 l
252931.1214	5 l
252931.9914	5 l
252931.1215	10 l
252931.1315	10 l
252931.0716	25 l

Formaldehyde Sulfoxylate Sodium Salt see Sodium Formaldehyde Sulfoxylate x-hydrate

Formalin see Formaldehyde solutions

Formamide

Carbamaldehyde, Methanamide, Formic Acid Amide

$HCONH_2$
M = 45.04 g/mol
CAS 75-12-7
EINECS 200-842-0
CS 29241900
Index Nr. 616-052-00-8

Melting Point ..... 2 °C
Boiling Point ..... 210 °C
Density ..... 1.13 kg/l (20 °C)
Refractive Index n20/D 1.4472
Liquid

WGK 1
Storage RT

Danger



H360D

131956 Formamide for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity .....IR passes test
Density 20/4 ..... 1.132-1.135
Freezing point ..... 2.0-3.0 °C

Maximum limit of impurities
APHA color 10
Formic Acid (HCOOH) ..... 0.02 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]

Ag 0.5	Al 0.5	Li 0.5	Mg..... 1
Au 0.5	B 0.5	Mn 1	Mo 0.5
Ba 0.5	Be 0.5	Na..... 20	Ni..... 1
Bi.....0.5	Ca.....5	P..... 0.5	Pb..... 1
Cd 1	Co.....1	Pt..... 0.5	S..... 0.5
Cr.....1	Cu.....1	Sb..... 0.5	Si..... 0.5
Fe.....1	Ga.....0.5	Sn.....5	
Ge.....0.5	Hg.....0.5		
In.....0.5	K.....20		

Code	Packaging
131956.1211	1000 ml
131956.1611	1000 ml
131956.1212	2,5 l

141956 Formamide pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 1.132-1.135
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.2 %
Formic Acid (HCOOH) ..... 0.02 %
Methanol (G.C.) ..... 0.2 %
Water (H_2O) ..... 0.3 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
141956.1211	1000 ml
141956.3514	5 l
141956.0716	25 l

161956 Formamide, 98 % for synthesis

Specifications
Minimum assay (G.C.) ..... 98 %
Identity ..... IR passes test
Density 20/4 ..... 1.132-1.135
Water (H_2O) ..... 0.2 %

Code	Packaging
161956.1211	1000 ml

A2156 Formamide deionized for molecular biology

• For scientific research and laboratory use only

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (from N) ..... min. 99.5 %
Water ..... max. 0.1 %
Chloride ..... max. 0.00005 %
Fe ..... max. 0.00001 %
Pb ..... max. 0.00001 %

Code	Packaging
A2156,0100	100 ml
A2156,0250	250 ml
A2156,0500	500 ml
A2156,1000	1 L

A0871 Formamide ultrapure

• For scientific research and laboratory use only

Specifications
Assay (from N) ..... min. 99.5 %
pH (1 M; H_2O) 7.0-9.0
Water ..... max. 0.1 %
Chloride ..... max. 0.00005 %
Cu ..... max. 0.0001 %
Fe ..... max. 0.00005 %
Pb ..... max. 0.00005 %
Zn ..... max. 0.0001 %

Code	Packaging
A0871,1000	1 L

A0937 Formamide BioChemica

• For scientific research and laboratory use only

Specifications
Assay (from N) ..... min. 99.5 %
Heavy metals (as Pb) ..... max. 0.0010 %
Water ..... max. 0.1 %
Chloride ..... max. 0.0001 %
A (1 cm/10 M in water HPLC grade)
260 nm ..... max. 0.4
280 nm ..... max. 0.1

Code	Packaging
A0937,2500	2.5 L

Formic Acid 98-100 %

HCOOH
M = 46.03 g/mol
CAS 64-18-6
EINECS 200-579-1
CS 29151100
Index Nr. 607-001-00-0

Melting Point ..... 8 °C (98-100 %)
Boiling Point ..... 101 °C (98-100 %)
Density ..... 1,22 kg/l (98-100 %) (20 °C)
Liquid

UN1779
Class/PG 8(3)/II
ADR 8(3)/II · IMDG 8(3)/II · IATA 8(3)/II
WGK 1
Storage RT

Danger



H226 H314

131030 Formic Acid 98 % for analysis, ACS

Specifications
Minimum assay (Acidim.) ..... 98.0 %

Maximum limit of impurities
APHA colour 15
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.003 %
Chloride (Cl) ..... 0.0005 %
Ammonium (NH_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.0005 %
Sulfite (SO_3) ..... 0.001 %
Acetic Acid (CH_3COOH) ..... 0.05 %
Heavy metals (as Pb) ..... 0.001 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.02	Al	0.1	Cr	0.02
Au	0.1	B	0.05	Cu	0.02
Ba	0.05	Be	0.02	Fe	0.1
Bi	0.05	Ca	0.5	Ga	0.05
Cd	0.05	Co	0.02	Ge	0.02
				Hg	0.1
				In	0.05
				K	0.1
				Li	0.02
				Mg	0.1
				Mn	0.05
				Mo	0.02
				Na	1
				Ni	0.05
				Pb	0.02
				Pt	0.1
				Sb	0.02
				Si	0.1

Code	Packaging
131030.1611	1000 ml
131030.1612	2.5 l
131030.1214	5 l
131030.0716	25 l

141030 Formic Acid 98 % pure

Specifications
Assay (Acidim.) ..... 98 %
Non-volatile matter ..... 0.01 %
Chloride (Cl) ..... 0.001 %
Ammonium (NH_4) ..... 0.01 %
Sulfate (SO_4) ..... 0.005 %
Acetic Acid (CH_3COOH) ..... 0.1 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141030.1611	1000 ml
141030.1612	2.5 l
141030.0716	25 l

201030 Formic Acid 98 % (F.C.C.) food grade

Specifications
Assay (as CH_2O_2), not less than ..... 98.0 %
Specific gravity at 20 °C 1.216-1.220
Non-volatile residue, not more than ..... 0.05 %
Chloride (Cl), not more than ..... 50 ppm
Sulfate (SO_4), not more than ..... 0.004 %
Sulfite ..... passes test
Dilution test ..... passes test
Acetic Acid, not more than ..... 0.4 %
Oxalic Acid, not more than ..... 0.5 %
Aldehydes ..... passes test
Formaldehyde, not more than ..... 0.1 %
Heavy metals (Pb), not more than .. 10 ppm
Specifications Dir.76/463/CEE, F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201030.0716	25 l

211030 Formic Acid 98-100 % technical grade

Specifications
Assay (titr.) ..... approx. 98 %

Code	Packaging
211030.1612	2.5 L
211030.0716	25 L

A3858 Formic Acid 98-100 % BioChemica

Specifications
Assay (titr.) ..... min. 98 %
Heavy metals (as Pb) ..... max. 0.0005 %
Insoluble matter ..... passes test
Acetic acid ..... max. 0.05 %
Chloride ..... max. 0.0005 %
Sulfate ..... max. 0.0001 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.03
280 nm ..... max. 0.01

Code	Packaging
A3858,0500	500 ml

НеваРеактив

Formic Acid 90 %

HCOOH
M = 46.03 g/mol
CAS 64-18-6
EINECS 200-579-1
CS 29151100
Index Nr. 607-001-00-0

Melting Point ..... -9 °C
Boiling Point ..... 107 °C
Density ..... 1.210 kg/l
Liquid

UN1779
Class/PG 8(3)/II
ADR 8(3)/II · IMDG 8(3)/II · IATA 8(3)/II
WGK 1
Storage RT

Danger



H314

175257 Formic Acid 90 %

Specifications
Assay (Acidim.) ..... 89.9-90.1 %

Maximum limit of impurities
Non-volatile matter ..... 0.01 %

Chloride (Cl) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %

Code	Packaging
175257.0716	25 l

Formic Acid 85 %

HCOOH
M = 46.03 g/mol
CAS 64-18-6
EINECS 200-579-1
CS 29151100
Index Nr. 607-001-00-0

Melting Point ..... 8 °C (98-100 %)
Boiling Point ..... 101 °C (98-100 %)
Density ..... 1,22 kg/l (98-100 %) (20 °C)
Liquid

UN1779
Class/PG 8(3)/II
ADR 8(3)/II · IMDG 8(3)/II · IATA 8(3)/II
WGK 1
Storage RT

Danger



H314

121029 Formic Acid 85 % for analysis

Specifications
Minimum assay (Acidim.) ..... 85.0 %

Maximum limit of impurities
APHA colour 15
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.002 %
Chloride (Cl) ..... 0.001 %
Ammonium (NH_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.002 %

Sulfite (SO_3) ..... 0.001 %
Acetic Acid (CH_3COOH) ..... 0.4 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.02	Al	0.05	Cr	0.02
Au	0.1	B	0.05	Cu	0.02
Ba	0.05	Be	0.02	Fe	0.1
Bi	0.05	Ca	0.5	Ga	0.05
Cd	0.05	Co	0.02	Ge	0.02
				Hg	0.1
				In	0.05
				K	0.1
				Li	0.02
				Mg	0.5
				Mn	0.05
				Mo	0.02
				Na	1
				Ni	0.05
				Pb	0.02
				Pt	0.1
				Sb	0.02
				Si	0.1

Code	Packaging
121029.1611	1000 ml
121029.1612	2.5 l

141029 Formic Acid 85 % pure

Specifications
Assay (Acidim.) ..... 85 %
Non-volatile matter ..... 0.01 %
Chloride (Cl) ..... 0.002 %
Ammonium (NH_4) ..... 0.01 %
Sulfate (SO_4) ..... 0.005 %
Cu ..... 0.001 %

Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141029.1611	1000 ml
141029.1214	5 l
141029.0715	10 l
141029.0716	25 l

211029 Formic Acid 85 % technical grade

Specifications
Assay (titr.) ..... approx. 85 %

Code	Packaging
211029.0715	10 L

Formic Acid Sodium Formiate buffer see Kristenson's solution

Forskolin

Origin from *Coleus forskohlii*

$C_{22}H_{34}O_7$
M = 410.51 g/mol
CAS 66575-29-9
EINECS 266-410-9
CS 29329900

Melting Point ..... 228-230 °C
Solid

Storage -20 °C

Warning



H312

A2165 Forskolin BioChemica

Specifications
Assay (TLC) ..... min. 97 %

Code	Packaging
A2165,0005	5 mg
A2165,0010	10 mg

Fraser C/2 Broth see Fraser 1/2 Listeria Broth (ISO 11290-1:1996) (Prepared Bottles) for microbiology

D(-)-Fructose

D-Levulose, Fruit sugar

$C_6H_{12}O_6$
M = 180.16 g/mol
CAS 57-48-7
EINECS 200-333-3
CS 17025000

Melting Point ..... 103 °C
Solid

WGK nwg
Storage RT

142728 D(-)-Fructose (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (as $C_6H_{12}O_6$) ..... 98.0-102.0 %
Identity according to
Pharmacopoeias: ..... passes test
Specific rotation
[α]20/D c=10 (in H_2O) ..... -91.0 to -93.5°

Maximum limit of impurities
Appearance and colour
of solution ..... passes test
Acidity ..... passes test
Loss on drying at 70 ..... 0.5 %

Residue on ignition (as SO_4) ..... 0.1 %
Sugars Foreign sugars ..... passes test
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %
Residual solvents (Ph. Eur./USP) . passes test
Calcium and magnesium (as Ca) ..... 0.005 %
Hydroxymethylfurfural and
related compounds ..... passes test
Water (H_2O) ..... 0.5 %
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1.300 ppm
As ..... 0,0001 %
Ba ..... passes test
Ca ..... 0,002 %
Mg ..... 0,002 %
Pb ..... 0,00005 %

Code	Packaging
142728.1210	500 g
142728.1211	1000 g
142728.1214	5 kg
142728.0415	10 Kg
142728.0416	25 kg

Printed on FSC® certified paper from well managed forests

A3688 D(-)-Fructose BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 10 %, H_2O ..... -91 to -93.5°
Heavy metals (as Pb) ..... max. 0.0005 %
Insoluble matter ..... passes test
pH (10 %; H_2O) ..... 4.5-7.0 (20 °C)
Water (K.F.) ..... max. 0.5 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.04
280 nm ..... max. 0.05

Code	Packaging
A3688,1000	1 kg

D-Fructose-1,6-Diphosphate Trisodium Salt 8-hydrate

Harden-Young - Ester

$C_6H_{11}Na_3O_{12}P_2 \cdot 8H_2O$
M = 550.19 g/mol
CAS 81028-91-3
EINECS 253-778-0
CS 29400000

Solid

Storage 2-8 °C

A1507 D-Fructose-1,6-Diphosphate Trisodium Salt 8-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 98 %
Heavy metals ..... max. 0.001 %
Water ..... approx. 25 %

Code	Packaging
A1507,0010	10 g

Fruit sugar see D(-)-Fructose

5-FU see 5-Fluorouracil

Fuchsin Acidic Disodium Salt (C.I. 42685)

Rubin Acid, Acid Fuchsin, Rubin S, Fuchsin S, Acid Violet 19

$C_{20}H_{17}N_3Na_2O_9S_3$
M = 585.54 g/mol
CAS 3244-88-0
EINECS 221-816-5
CS 32041300

Solid

Storage RT

251331 Fuchsin Acidic Disodium Salt (C.I. 42685) for clinical diagnosis

For microscopy, blood smear staining

Specifications
Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 1.10-1.26
A 1 %, 1 cm, λ_{max} ..... > 800
λ_{max} ABS of
max. ABS in HCl 0.005 mol/l ..... 540-545 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 135 °C ..... 10 %

Code	Packaging
251331.1605	10 g

A2166 Fuchsin Acidic Disodium Salt (C.I. 42685)

Specifications
λ_{max} (pH 3.0; H_2O) ..... 544-550 nm
A (λ_{max} -15 nm) / A (λ_{max} +15 nm) 1.0-1.4
E 1 %/1 cm, λ_{max}, H_2O; pH 3.0 ..... min. 600

Code	Packaging
A2166,0025	25 g
A2166,0100	100 g

Fuchsin basic (C.I. 42510)

Rosaniline Chloride, Basic Fuchsin, Magenta I, Basic Violet 14

$C_{20}H_{20}ClN_3$
M = 337.85 g/mol
CAS 632-99-5
EINECS 211-189-6
CS 32041300

Density ..... 0.88 kg/l (20 °C)
Solid

WGK 3
Storage RT

Danger



H350

251332 Fuchsin Basic (C.I. 42510) for clinical diagnosis

For microscopy, nucleus and Koch's bacilli staining

Specifications
Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 1.16-1.35
A 1 %, 1 cm, λ_{max} ..... > 1600
λ_{max} ABS in C_2H_5OH 50 % ..... 549-552 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 135 °C ..... 15 %

Code	Packaging
251332.1606	25 g
251332.1608	100 g

A1795 Fuchsin basic (C.I. 42510) for microscopy

Specifications
Assay (photometr.) ..... min. 88 %
λ_{max} (50 % EtOH) ..... 550-555 nm
E 1 %/1 cm, λ_{max}, 50 % EtOH 2360-2710
Loss on drying ..... max. 10 %

Code	Packaging
A1795,0025	25 g
A1795,0100	100 g
A1795,0250	250 g

L(-)-Fucose

6-Deoxy-L-Galactose

$C_6H_{12}O_5$
M = 164.16 g/mol
CAS 2438-80-4
EINECS 219-452-7
CS 29400000

Melting Point ..... 143 °C
Solid

Storage RT

A4365 L(-)-Fucose BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 5 %, H_2O ..... -74 to -76°
Heavy metals (as Pb) ..... max. 0.001 %
Water (K.F.) ..... max. 0.5 %

Code	Packaging
A4365,0025	25 g
A4365,0100	100 g

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

Fumaric Acid

Butenedioic Acid, trans-1,2-Ethylenedicarboxylic Acid

M = 116.07 g/mol
CAS 110-17-8
EINECS 203-743-0
CS 29171990
Index Nr. 607-146-00-X

Melting Point ..... 300 °C
Solubility ..... water 6.3 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H319

142344 Fumaric Acid (USP-NF) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 99.5-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.05 %
Residue on ignition (as SO_4) ..... 0.1 %

Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur./USP) . passes test
Maleic Acid (HPLC.) ..... 0.1 %
Water (H_2O) ..... 0.5 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0001 %
Cu ..... 0.001 %

Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
142344.1214	5 kg
142344.0415	10 kg
142344.0416	25 kg

Fumarine see Protopine

Fumonisin B1

Macrofusine

Origin from *Fusarium moniliforme*

$C_{34}H_{59}NO_{15}$
M = 721.83 g/mol
CAS 116355-83-0
CS 29221985

Solubility ..... clear, colorless
Solid

Storage 2-8 °C

Warning



H351

A7722 Fumonisin B1 BioChemica

Specifications
Assay (TLC) ..... approx. 95 %

Code	Packaging
A7722,0005	5 mg

Fungicidin see Nystatin 2-hydrate

6-Furfurylaminopurine see Kinetin

N-[3-(2-Furylacryloyl)]-L-Leucyl-Glycyl-L-Prolyl-L-Alanine see FALGPA

Fusidic Acid Sodium Salt

Sodium Fusidate, Fucidin

$C_{31}H_{47}NaO_6$
M = 538.69 g/mol
CAS 751-94-0
EINECS 212-030-3
CS 29419000

Solid

Storage RT

Warning



H302

A6560 Fusidic Acid Sodium Salt BioChemica

Specifications
Assay ..... min. 98 %
Water (K.F.) ..... max. 5 %

Code	Packaging
A6560,0001	1 g

G418 Disulfate

Antibiotic G418

$C_{20}H_{40}N_4O_{10} \cdot 2H_2SO_4$
M = 692.70 g/mol
CAS 108321-42-2
CS 29419000

Solid

Storage RT

A2167 G418 Disulfate BioChemica

Corresponds to Geneticin® disulfate, a trademark of Gibco Division of Life Technologies

Specifications
Assay (TLC) ..... min. 98 %

Potency (calc. on dried substance) ..... min. 620 µg/mg
Water (K.F.) ..... max. 10 %

Code	Packaging
A2167,0001	1 g
A2167,9010	10 g
A2167,9100	100 g

G418 Disulfate solution, sterile

Antibiotic G418 - Solution

$C_{20}H_{40}N_4O_{10} \cdot 2H_2SO_4$
M = 692.70 g/mol
CAS 108321-42-2
CS 29419000

Liquid

Storage -20 °C

A6798 G418 Disulfate solution, sterile

This product is equivalent to Geneticin® disulfate, a trademark of Gibco Division of Life Technologies

Specifications
Assay (active antibiotic) ..... 50 mg/ml

Code	Packaging
A6798,0020	20 ml
A6798,0050	50 ml

GA see Gibberellic Acid

D(+)-Galactose

Brain sugar, D-Galactopyranose, Cerebrose, Lactoglucose

$C_6H_{12}O_6$
M = 180.16 g/mol
CAS 59-23-4
EINECS 200-416-4
CS 29400000

Melting Point .....167-170 °C (dec.)
Solubility ..... 650 g/L (H_2O)
Solid

WGK nwg
Storage RT

142173 D(+)-Galactose (Ph. Eur.) pure, pharma grade

Specifications
α20 °C/D; 10 %, H_2O,
anhydrous subst. .....78.0-81.5°
Acidic/alkaline react. subst. ..... passes test
Appearance of solution ..... passes test
Identity .....passes test
Sulfated ash ..... max. 0.1 %
Total aerobic microbial
counts .....max. 100 CFU/g
Water (K.F.) ..... max. 1.0 %
Ba .....passes test
Pb .....max. 0.00005 %

Code	Packaging
142173.1210	500 g
142173.1211	1 kg
142173.0914	5 kg

A4073 D(+)-Galactose for cell culture

Specifications
Pyrogen test ..... passes test
Assay (HPLC) .....min. 98 %
α20 °C/D; 10 %, H_2O .....78-81.5°
Heavy metals (as Pb) ..... max. 0.0005 %
pH (10 %; H_2O) 4.5-7.0
Water (K.F.) ..... max. 0.3 %

Code	Packaging
A4073,0500	500 g
A4073,1000	1 kg
A4073,9025	25 kg

A1131 D(+)-Galactose BioChemica

Specifications
Assay (HPLC) .....min. 98 %
α20 °C/D; 10 %, H_2O .....78-81.5°
Heavy metals (as Pb) .....max. 0.001 %
Insoluble matter ..... passes test
pH (10 %; H_2O) 4.5-7.0
Water (K.F.) ..... max. 0.3 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.1

Code	Packaging
A1131,0100	100 g
A1131,0500	500 g
A1131,1000	1 kg

D(+)-Galactose, non animal origin

Brain sugar, Cerebrose, D-Galactopyranose, Lactoglucose

$C_6H_{12}O_6$
M = 180.16 g/mol
CAS 59-23-4
EINECS 200-416-4
CS 29400000

Solubility ..... 650 g/L (H_2O)
Solid

WGK nwg
Storage RT

A7983 D(+)-Galactose BioChemica, non animal origin

Specifications
Assay (HPLC) .....min. 98 %
α20 °C/D; 10 %, H_2O .....79.0-81.0°
Appearance of solution
(H_2O) ..... clear, colorless
Melting range .....162-170 °C
Sulfated ash .....max. 0.10 %
Loss on drying .....max. 0.3 %

Code	Packaging
A7983,0250	250 g
A7983,9025BW	25 kg

α-D-Galactose-1-Phosphate Dipotassium Salt 2-hydrate

α-D-Galactopyranosyl-1-Phosphate

Origin synthetic

$C_6H_{11}K_2O_9P \cdot 2H_2O$
M = 372.36 g/mol
CAS 19046-60-7
CS 29400000

Solid

Storage 2-8 °C

A6823 α-D-Galactose-1-Phosphate Dipotassium Salt 2-hydrate BioChemica

Specifications
Assay (HPLC) .....min. 99 %
α20 °C/D; 1.5 %, H_2O .....+96° ± 1°
Ba-, Li-, Na-, CHA salts ..... max. 0.01 %
Solubility (1 %; H_2O; 21 °C) .... clear, colorless
free phosphate ..... max. 0.1 %

Code	Packaging
A6823,0100	100 mg

Gallic Acid 1-hydrate

3,4,5-Trihydroxybenzoic Acid

$C_7H_6O_5 \cdot H_2O$
M = 188.14 g/mol
CAS 5995-86-8
EINECS 205-749-9
CS 29182900

Melting Point ..... 260 °C
Solubility ..... water 15 g/l at 20 °C
Solid

WGK 2
Storage RT

Warning



H319 H335 H315

152830 Gallic Acid 1-hydrate, 99 % for synthesis

Specifications
Assay (Acidim.) (a.a.s.) .....99 %
Identity ..... IR passes test
Loss on drying at 105 °C .....7-10 %

Code	Packaging
152830.1610	500 g

D-GalNAc see N-Acetyl-D-Galactosamine

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

rHu GDNF

rekombinant Human Glial Derived Neurotrophic Factor

Origin from *E. coli*

M = 30.36 kDa
CS 29371900

Storage -20 °C

A8335 rHu GDNF

Lyophilized after dialysis against 10 mM sodium citrate and 150 mM NaCl

Specifications
We recommend to reconstitute in sterile water at 0.1 mg/ml to prepare a stock solution, which can then be further diluted to other aqueous solutions.
Assay (RP-HPLC) ..... min. 98 %
Assay (SDS-PAGE) ..... min. 98 %

Code	Packaging
A8335,0010	10 µg

Gel Filtration Column for Protein Purification see DextraSEC PRO10

Gel Filtration FPLC see DextraSEP FPLC1

Gel filtration matrix based on dextran composite see AppliXchange-G25 SF

Gel Filtration Matrix Dextran-based see AppliXchange-G25 M

Gel Filtration Mini Spin Columns see DextraSEC Mini-spinPRO Desalt (G-25)

Gel Filtration Nucleic Acids see DextraSEC NA50

Gel Filtration Protein see DextraSEC PRO2

Gelatin

CAS 9000-70-8
EINECS 232-554-6
CS 35030010

Solid

Storage RT

147116 Gelatin powdered, (Ph. Eur., NF) pure, pharma grade

Specifications
E. coli ..... negative
Colony count (yeasts & moulds) ..... max. 100 CFU/g
Conductivity (1 %, H_2O, 30 ± 1 °C) ..... max. 1 mS/cm
Gelatinising capacity ..... 128-192 Bloom
Identity ..... passes test
Loss on drying ..... max. 15 %
pH (1 %; H_2O; 55 °C) 3.8-7.6
Salmonella ..... negative
Total aerobic microbial counts ..... max. 1000 CFU/g
Peroxides ..... max. 0.001 %
Sulfur dioxide ..... max. 0.005 %
Cr ..... max. 0.001 %
Fe ..... max. 0.003 %
Zn ..... max. 0.003 %

Code	Packaging
147116.1210	500 g
147116.1211	1 kg
147116.0914	5 kg

Gelatin 80-100 Blooms

CAS 9000-70-8
EINECS 232-554-6
CS 35030010

Solubility Slightly soluble in cold water. Soluble in hot water.
Solid

WGK nwg
Storage RT

142060 Gelatine 80-100 Blooms (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to Pharmacopoeias: ..... passes test
pH sol. 1 % at 55 °C 3.8-7.6
T.L.C. (phenolic preservatives) ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Loss on drying at 105 °C ..... 15.0 %
Peroxides (as H_2O_2) ..... 0.0010 %
Conductivity sol. 1.0 % at 30 ± 1.0 °C ..... 1 mS/cm
Residual solvents (Ph. Eur./USP) ..... passes test
Sulfur dioxide ..... 0.005 %
Total combined yeast and moulds (TYMC) ..... 100 cfu /g
Total aerobic microbial count (TAMC) ..... 1000 cfu/g
Salmonella absence/10g
Escherichia coli ..... absence/g

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
As ..... 0.00008 %
Cr ..... 0.001 %
Fe ..... 0.003 %
Zn ..... 0.003 %

Code	Packaging
142060.1210	500 g
142060.1211	1000 g

Gellan gum

Agar substitute gelling agent

CAS 71010-52-1
EINECS 275-117-5
CS 39139000

Solid

Storage RT

A5345 Gellan Gum

Specifications
Loss on drying ..... max. 15 %

Code	Packaging
A5345,1000	1 kg

General Absorbent

CS 28399000

Solubility ..... Insoluble in water
Solid

Storage RT

212520 General Absorbent technical grade

Specifications
Absorption power to H_2SO_4 ..... passes test
Absorption power to NaOH ..... passes test
Absorption power to Br ..... passes test

Code	Packaging
212520.1210	500 g
212520.0914	5 kg

Gentamycin Sulfate

Gentamicin Sulfate

$C_{19-21}H_{39-43}N_5O_7 \cdot 2{,}5H_2SO_4$
M = 694.75-723.75 g/mol
CAS 1405-41-0
EINECS 215-778-9
CS 29419000

Solid

WGK 1
Storage RT

Danger



H317 H334

A1492 Gentamycin Sulfate BioChemica

Specifications
Activity (anhydrous subst.) ..... approx. 600 I.U./mg
α20 °C/D; 10 %, H_2O ..... 107-121°
pH (4 %; H_2O) 3.5-5.5
Water (K.F.) ..... max. 15 %
Sulfate ..... 32-35 %

Code	Packaging
A1492,0001	1 g
A1492,0005	5 g
A1492,0010	10 g
A1492,0025	25 g
A1492,1000	1 kg

A4854 Gentamycin Sulfate (Ph. Eur.) pure, pharma grade

* We hereby confirm that the above lot is tested according EP 4.00

Specifications
Activity (anhydrous substance) ..... min. 590 I.U./mg
Appearance of solution ..... passes test
Composition (HPLC) ..... passes test
Identity ..... passes test
pH (4 %; H_2O) 3.5-5.5
Spec. rotation (10 %; H_2O; anhydrous substance) ..... 107-121°
Sulfated ash ..... max. 1.0 %
Methanol ..... max. 1.0 %
Water (K.F.) ..... max. 15 %
Sulfate (anhydrous substance) .... 32.0-35.0 %

Code	Packaging
A4854,0500	500 g

Gentian Violet see Crystal Violet (C.I. 42555)

Gentian Violet Phenique

CS 38220000

Density ..... 0.988 kg/l
Liquid

UN2810
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Warning



H312 H302 H319 H315

251766 Gentian Violet Phenique for clinical diagnosis

Solution for microscopy, bacteria staining according to Gram-Nicolle

Composition:
Gentian Violet ..... 0.67 g
Phenol ..... 2.05 g
Ethanol absolute ..... 11.7 ml
Water ..... 100 ml

Code	Packaging
251766.1609	250 ml

β-D-Gentiobiose

Amygdalose, 6-O-β-D-Glucopyranosyl-D-Glucose

$C_{12}H_{22}O_{11}$
M = 342.30 g/mol
CAS 554-91-6
EINECS 209-074-0
CS 29400000

Solid

WGK 3
Storage RT

A7087 β-D-Gentiobiose

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 2 %, H_2O ..... 8.5-10.5°
Identity ..... passes test
pH (1 %, H_2O) 6.0-7.0
Water (K.F.) ..... max. 1 %

Code	Packaging
A7087,0001	1 g

Gibberellic Acid

GA_3, Gibberellin

$C_{19}H_{22}O_6$
M = 346.38 g/mol
CAS 77-06-5
EINECS 201-001-0
CS 29322985

Solid

WGK 1
Storage RT

A4586 Gibberellic Acid BioChemica

Specifications
Assay (HPLC) ..... approx. 90 %
α20 °C/D; 2 %, MeOH ..... 71-81°
Identity (IR) ..... passes test

Code	Packaging
A4586,0001	1 g
A4586,0005	5 g
A4586,0050	50 g

Giemsa stain

Giemsa's Azur-Eosin-Methylene Blue dye

CAS 51811-82-6
EINECS 257-438-2
CS 38220000

Solid

WGK 2
Storage RT

Warning



H319

251337 Giemsa stain for clinical diagnosis

...matology, blood smears and protozoos
st...

Specifica...
A 1 %, 1 cm, ... 2 ..... > 800
A 1 %, 1 cm, λ_{max} 1 ..... > 300
λ_{max} ABS in CH_3OH ..... 520-530 nm
λ_{max} ABS in CH_3OH ..... 645-655 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 110 °C ..... 10 %

Code	Packaging
251337.1608	100 g

Printed on FSC® certified paper from well managed forests

НеваРеактив

A0909 Giemsa stain

Specifications
$\lambda_{max\ 1}$ (MeOH) ..... 635-653 nm
$\lambda_{max\ 2}$ (MeOH) ..... 520-527 nm
Loss on drying (105 °C) .....max. 10 %

Melting point ..... 300 °C
UV/VIS spectrum ..... passes test

Code	Packaging
A0909,0100	100 g
A0909,5000	5 kg

Giemsa solutions

Giemsa's Solution

CS 38220000

Liquid

UN1230
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 1
Storage RT

Danger



H225 H301+H311+H331 H370

251338 Azur-Eosin-Methylene Blue solution according to Giemsa (slow) for clinical diagnosis

For hematology, blood smear staining

Composition:
Azur-Eosin-Methylene Blue dye according to Giemsa ..... 0.5 g
Methanol ..... 50 ml
Glycerol ..... 50 ml

Maximum limit of impurities
Suitability for hematology stain ..... passes test

Code	Packaging
251338.1608	100 ml
251338.1610	500 ml
251338.1611	1000 ml
251338.1612	2.5 l

A0885 Giemsa solution for microscopy

Specifications
UV spectrum .....complies to reference

Code	Packaging
A0885,0100	100 ml
A0885,0500	500 ml
A0885,2500	2.5 L

[6]-Gingerol

Origin from *Zingiber officinale*

$C_{17}H_{26}O_4$
M = 294.39 g/mol
CAS 23513-14-6
CS 29420000

Storage 2-8 °C

Danger



H301 H315 H319 H335

A3408 [6]-Gingerol for HPLC

Specifications
Assay .....min. 98 %

Code	Packaging
A3408,0010	10 mg

[8]-Gingerol

Origin from *Zingiber officinale*

$C_{19}H_{30}O_4$
M = 322.44 g/mol
CAS 23513-08-8
CS 29420000

Storage 2-8 °C

Warning



H315 H317 H335 H413

A4509 [8]-Gingerol for HPLC

Specifications
Assay .....min. 98 %

Code	Packaging
A4509,0010	10 mg

Glasgow - MEM (BHK 21), powder

Cell culture media

CS 38210000

Storage 2-8 °C

A1321 Glasgow - MEM (BHK 21)

Specifications
with L-Glutamine

with Tryptose/Phosphate-Bouillon
without Sodium hydrogen carbonate

Code	Packaging
A1321,9010	10 L

Glass Wool washed

Glass cotton

CAS 65997-17-3
EINECS 266-046-0
CS 70000000

Solubility ..... Insoluble in water

WGK nwg
Storage RT

211376 Glass Wool washed technical grade

Specifications
matter in HCl ..... 1 %
(Cl) ..... 0.01 %

Code	Packaging
211376.1208	100 g
211376.1209	250 g

Gliotoxin

Origin from *Gliocladium fimbriatum*

$C_{13}H_{14}N_2O_4S_2$
M = 326.04 g/mol
CAS 67-99-2
CS 29419000

Melting Point .....200-202 °C
Solid

UN3462
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage 2-8 °C
Storage protected from light

Danger



H301

A7665 Gliotoxin BioChemica

Specifications
Assay (TLC) .....min. 97 %

λ_{max} ..... 272 nm
Solubility (10 mg/ml MeOH) .... clear, colorless

Code	Packaging
A7665,0005	5 mg

Glucobrassicanapin

4-Pentenylglucosinolate Potassium Salt

Origin from *Brassica napus*

$C_{12}H_{20}KNO_9S_2$
M = 443.52 g/mol
CAS 19041-10-2
CS 29349990

Storage 2-8 °C

A9578 Glucobrassicanapin for HPLC

Specifications
Assay .....min. 98 %

Code	Packaging
A9578,0010	10 mg
A9578,0020	20 mg

Glucobrassicin

3-Indolylmethylglucosinolate Potassium Salt

Origin from *Brassica oleracea*

$C_{16}H_{19}KN_2O_9S_2$
M = 486.56 g/mol
CAS 4356-52-9
CS 29349990

Solid

Storage 2-8 °C

A8692 Glucobrassicin for HPLC

Specifications
Assay .....min. 97 %

Code	Packaging
A8692,0020	20 mg

Glucochloralose see α-Chloralose

Glucoerucin

4-Methylthiobutylglucosinolate Potassium Salt

Origin from *Eruca sativa*

$C_{12}H_{22}KNO_9S_3$
M = 459.61 g/mol
CAS 21973-56-8
CS 29389090

Solid

Storage 2-8 °C

A8978 Glucoerucin for HPLC

Specifications
Assay .....min. 97 %

Code	Packaging
A8978,0020	20 mg

Glucoluteolin see Luteolin-7-Glucoside

Gluconapin

3-Butenylglucosinolate Potassium Salt

Origin from *Brassica napus*

$C_{11}H_{18}KNO_9S_2$
M = 429.50 g/mol
CAS 19041-09-9
CS 29389090

Storage 2-8 °C

A8986 Gluconapin for HPLC

Specifications
Assay .....min. 97 %

Code	Packaging
A8986,0050	50 mg

HebaPeakTMB

Gluconasturtiin

Phenylethylglucosinolate Potassium Salt

Origin from *Nasturtium officinale*

$C_{15}H_{20}KNO_9S_2$
M = 461.16 g/mol
CAS 499-30-9
CS 29389090

Storage 2-8 °C

A8695 Gluconasturtiin for HPLC

Specifications
Assay .....min. 97 %

Code	Packaging
A8695,0020	20 mg

D-Gluconate-6-Phosphate Trisodium Salt see 6-Phosphogluconic Acid Trisodium Salt

D-Gluconic Acid Sodium Salt see Sodium Gluconate

8-Glucopyranosylapigenin see Vitexin

Glucoraphanin

3-(Methylsulfinyl)butyl-Glucosinolate Potassium Salt

Origin from *Brassica oleracea*

$C_{12}H_{22}KNO_{10}S_3$
M = 475.66 g/mol
CAS 21414-41-5
CS 29349990

Storage 2-8 °C

A9582 Glucoraphanin for HPLC

Specifications
Assay .....min. 97 %

Code	Packaging
A9582,0020	20 mg

D(+)-Glucosamine Hydrochloride

2-Amino-2-Deoxy-D-Glucose Hydrochloride, Chitosamin Hydrochloride

$C_6H_{13}NO_5 \cdot HCl$
M = 215.64 g/mol
CAS 66-84-2
EINECS 200-638-1
CS 29329900

Melting Point .....190-194 °C
Solid

Storage RT

A6872 D(+)-Glucosamine Hydrochloride BioChemica

Specifications
Assay (HPLC) .....min. 99 %
α20 °C/D; 2 %, H_2O .....+72.5° ± 1°

Code	Packaging
A6872,1000	1 kg

D(+)-Glucose anhydrous

D-Glucopyranose, Corn sugar, Dextrose, Grape sugar

$C_6H_{12}O_6$
M = 180.16 g/mol
CAS 50-99-7
EINECS 200-075-1
CS 17023050

Melting Point ..... 146 °C
Solid

WGK nwg
Storage RT

131341 D(+)-Glucose anhydrous for analysis, ACS

Specifications
Identity .....IR passes test
Specific rotation α
25/D c=10 (in H_2O) .....52.5-53.0°

Maximum limit of impurities
Acidity (as CH_3COOH) ..... 0.012 %
Insoluble matter in H_2O ..... 0.003 %
Loss on drying at 105 °C ..... 0.2 %
Residue on ignition (as SO_4) ..... 0.01 %

Chloride (Cl) .....0.0025 %
Starch .....passes test
Sulfate and sulfite (as SO_4) .....0.0025 %
As .....0.00004 %
Heavy metals (as Pb) .....0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Al.....5	B.....1	Co.....1	Cr.....1
Ba.....1	Be.....1	Cu.....5	Fe.....5
Ca.....5	Cd.....10	In.....1	K.....1
		Mg.....5	Mn.....1
		Mo.....1	Ni.....5
		Pb.....5	Pt.....1
		Sb.....1	Se.....5
		Sr.....1	Ti.....1
		Tl.....1	V.....1
		Zn.....5	Zr.....1

Code	Packaging
131341.1210	500 g
131341.1211	1000 g
131341.0914	5 kg
131341.0416	25 kg

141341 D(+)-Glucose anhydrous (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to
Pharmacopoeias: ..... passes test
Specific rotation
α n20/D c=10 (in H_2O) .....52.6-53.2°

Maximum limit of impurities
Appearance and colour
of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Residue on ignition (as SO_4) ..... 0.1 %

Chloride (Cl) .....0.0125 %
Sulfate (SO_4) .....0.02 %
Sulfite (as SO_2) .....0.0015 %
Residual solvents (Ph. Eur./USP) .passes test
Foreign sugars, soluble starch
and dextrin .....passes test
Water (H_2O) .....0.5 %
Heavy metals (as Pb) .....0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1.300 ppm
As ..... 0,0001 %
Ba ..... passes test
Ca ..... 0,02 %
Fe ..... 0,0005 %
Pb ..... 0,00005 %

Code	Packaging
141341.1210	500 g
141341.1211	1000 g
141341.0914	5 kg
141341.0416	25 kg

201341 D(+)-Glucose anhydrous (F.C.C.) food grade

Specifications
Assay ($C_6H_{12}O_6$), calc. on the dried basis (of reducing sugars content, glucose equivalent) .....99.5-100.5 %
Specific rotation [α]D .....52.6-53.2°

Loss on drying, not more than .....2.0 %
Residue on ignition, not more than .....0.1 %
Chloride (Cl), not more than .....0.018 %
Starch .....passes test
Sulfur Dioxide, not more than .....0.002 %

Arsenic (as As), not more than .....1 ppm
Lead, not more than .....0.1 ppm
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201341.0416	25 kg

A3666 D(+)-Glucose anhydrous for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (HPLC) ..... min. 99 %
α20 °C/D; 10 %, H_2O ..... 52.5-53.3°
Sulfated ash ..... max. 0.1 %
Water (K.F.) ..... max. 0.2 %
Chloride ..... max. 0.01 %
Sulfate ..... max. 0.02 %
Sulfite ..... max. 0.001 %
As ..... max. 0.0001 %
Ca ..... max. 0.02 %
Pb ..... max. 0.00005 %

Code	Packaging
A3666,1000	1 kg

A0883 D(+)-Glucose anhydrous for cell culture

Specifications
Pyrogen test ..... passes test
Assay (HPLC) ..... min. 99 %
α20 °C/D; 10 %, H_2O ..... 52.5-53.3°
Heavy metals (as Pb) ..... max. 0.0005 %
Sulfated ash ..... max. 0.1 %
Water (K.F.) ..... max. 0.2 %
Chloride ..... max. 0.01 %
Sulfate ..... max. 0.02 %
As ..... max. 0.0001 %

Code	Packaging
A0883,0500	500 g
A0883,1000	1 kg
A0883,5000	5 kg

A1422 D(+)-Glucose anhydrous BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 10 %, H_2O ..... 52.5-53.3°
Heavy metals (as Pb) ..... max. 0.0005 %
Insoluble matter ..... passes test
pH (10 %; H_2O) 4.5-7.0
Water (K.F.) ..... max. 1 %
Chloride ..... max. 0.01 %
Sulfate ..... max. 0.02 %
A (1 cm/0.5 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.05

Code	Packaging
A1422,0500	500 g
A1422,1000	1 kg
A1422,5000	5 kg

D(+)-Glucose 1-hydrate

D-Glucopyranose, Corn sugar, Dextrose, Grape sugar

$C_6H_{12}O_6 \cdot H_2O$
M = 198.17 g/mol
CAS 14431-43-7
EINECS 200-075-1
CS 17023050
Melting Point ..... 83 °C
Solubility ..... 470 g/L (H_2O)
Solid
WGK nwg
Storage RT

143140 D(+)-Glucose 1-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to
Pharmacopoeias: ..... passes test
Specific rotation
α n20/D c=10 (in H_2O) ..... 52.6-53.2°

Maximum limit of impurities
Appearance and colour
of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.0125 %
Sulfate (SO_4) ..... 0.02 %
Sulfite (as SO_2) ..... 0.0015 %
Residual solvents (Ph. Eur./USP) . passes test
Foreign sugars, soluble starch
and dextrins ..... passes test
Water (H_2O) ..... 7.5-9.5 %
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1.300 ppm
As ..... 0,0001 %
Ba ..... passes test
Ca ..... 0,02 %
Fe ..... 0,0005 %
Pb ..... 0,00005 %

Code	Packaging
143140.1211	1000 g
143140.0914	5 kg
143140.0416	25 kg

A3730 D(+)-Glucose 1-hydrate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (HPLC) ..... min. 99 %
α20 °C/D; 10 %, H_2O ..... 52.5-53.3°
Sulfated ash ..... max. 0.1 %
Water (K.F.) ..... 7.0-9.5 %
Chloride ..... max. 0.01 %
Sulfate ..... max. 0.02 %
Sulfite ..... max. 0.001 %
As ..... max. 0.0001 %
Ca ..... max. 0.02 %
Pb ..... max. 0.00005 %

Code	Packaging
A3730,1000	1 kg

A1349 D(+)-Glucose 1-hydrate BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 10 %, H_2O ..... 52.5-53.3°
Heavy metals (as Pb) ..... max. 0.0005 %
Insoluble matter ..... passes test
pH (10 %; H_2O) 5.0-7.0
Water (K.F.) ..... 7.0-9.5 %
Chloride ..... max. 0.01 %
Sulfate ..... max. 0.02 %
A (1 cm/0.5 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.05

Code	Packaging
A1349,1000	1 kg
A1349,5000	5 kg
A1349,9010	10 kg
A1349,9025	25 kg

Glucose-6-Phosphate Disodium Salt 2-hydrate

$C_6H_{11}Na_2O_9P \cdot 2H_2O$
M = 340.13 g/mol
CAS 3671-99-6
EINECS 222-938-1
CS 29400000
WGK 1
Storage 2-8 °C

A3789 Glucose-6-Phosphate Disodium Salt 2-hydrate

Specifications
Assay (enzym.) ..... min. 77 %
Assay ($P_{organ.}$) ..... min. 77 %
Fructose-6-phosphate (enzym.) ..... max. 2 %
Glucose (enzym.) ..... max. 0.2 %
Water (K.F.) ..... 8.5-12.5 %
$P_{organ.}$ ..... min. 8.9 %
Na ..... 11.5-13.5 %

Code	Packaging
A3789,0001	1 g
A3789,0005	5 g
A3789,0010	10 g
A3789,0050	50 g

7-Glucosylapigenin see Apigenin-7-Glucoside

Glucotropaeolin

Benzylglucosinolate

Origin from *Tropaeolum majus*

$C_{14}H_{18}KNO_9S_2$
M = 447.52 g/mol
CAS 5115-71-9
CS 29420000
Solid
Storage 2-8 °C

A5300 Glucotropaeolin for HPLC

Specifications
Assay ..... min. 99 %

Code	Packaging
A5300,0020	20 mg
A5300,0050	50 mg

L-Glutamic Acid

(S)-(+)-Glutamic Acid, L-2-Aminoglutaric Acid

$C_5H_9NO_4$
M = 147.13 g/mol
CAS 56-86-0
EINECS 200-293-7
CS 29224200

Solubility ..... 11 g/L (H_2O)
Solid

WGK nwg
Storage RT

A3723 L-Glutamic Acid for cell culture

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... min. 99 %
α20 °C/D; 10 %, 1 M HCl ..... +30.5° - +32°
pH (0.5 %; H_2O) 3.0-3.5
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
As ..... max. 0.0001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A3723,1000	1 kg

A3712 L-Glutamic Acid BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 10 %, 1 M HCl ..... +30.5° - +32°
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (0.5 %; H_2O) 3.0-3.5
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
A (1 cm/1 M in HCl)
260 nm ..... max. 0.15
280 nm ..... max. 0.15

Code	Packaging
A3712,0250	250 g

A1704 L-Glutamic Acid (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-100.5 %
α20 °C/D; 10 %, 1 M HCl, calc on dried subst. ..... 30.5-32.5°
α20 °C/D; 10 %, 2 M HCl ..... 31.5-32.5°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.1 %
Sulfated ash ..... max. 0.1 %
Ninhydrin positive substances ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
Fe ..... max. 0.001 %

Code	Packaging
A1704,0250	250 g
A1704,0500	500 g
A1704,1000	1 kg
A1704,5000	5 kg
A1704,9010	10 kg

L-Glutamine

L-2-Aminoglutaric Acid-5-Amide

$C_5H_{10}N_2O_3$
M = 146.15 g/mol
CAS 56-85-9
EINECS 200-292-1
CS 29241900

Solubility ..... 100 g/L (H_2O)
Solid

WGK nwg
Storage RT

A3704 L-Glutamine for cell culture

• All amino acids are of non-animal origin

Specifications
Endotoxins ..... max. 6.0 EU/g
Assay (titr.) ..... min. 99 %
α20 °C/D; 10 %, 7 % HCl ..... 31.5-33.0°
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
As ..... max. 0.0001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A3704,0100	100 g
A3704,0500	500 g
A3704,1000	1 kg
A3704,9015	15 kg
A3704,9025	25 kg

A3734 L-Glutamine BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 10 %, 7 % HCl ..... 31.5-33.0°
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.01
280 nm ..... max. 0.01

Code	Packaging
A3734,0100	100 g
A3734,0500	500 g
A3734,1000	1 kg

A1420 L-Glutamine (DAB, USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 99.0-101.0 %
α20 °C/D; 10 %, 2 M HCl, calc on dried subst. ..... 31.5-33.0°
α20 °C/D; 4 %, H_2O ..... 6.3-7.3°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.3 %
pH (25 g/L; H_2O) 4.0-6.0
Sulfated ash ..... max. 0.1 %
Ninhydrin positive substances ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
Fe ..... max. 0.001 %

Code	Packaging
A1420,0250	250 g
A1420,1000	1 kg
A1420,9010	10 kg

L-Glutamic Acid Monopotassium Salt 1-hydrate see Potassium L-Glutamate 1-hydrate

Glutaraldehyde solutions 50 %

Pentane-1,5-dial, Glutardialdehyde, Glutaric Dialdehyde

$OHC(CH_2)_3CHO$
M = 100.12 g/mol
CAS 111-30-8
EINECS 203-856-5
CS 29121990
Index Nr. 605-022-00-X

Melting Point ..... -21 °C (50 %)
Density ..... 1.13 kg/l (50 %)
Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
WGK 2
Storage 2-8 °C
Storage under argon

Danger



H301+H331 H314 H317 H334 H400

143 Glutaraldehyde solution 50 % pure

Aqueous s

Specifications
Assay (titr.) ..... approx. 50 %

Code	Packaging
143858.0716	25 L

A3166 Glutaraldehyde solution 50 % for electron microscopy

2X distilled for electron microscopy

Aqueous solution

Specifications
Assay (titr.) ..... approx. 50 %

Code	Packaging
A3166,0100	100 ml

Glutaraldehyde solutions 25 %

Pentane-1,5-dial, Glutardialdehyde, Glutaric Dialdehyde

$OHC(CH_2)_3CHO$
M = 100.12 g/mol
CAS 111-30-8
EINECS 203-856-5
CS 29121990
Index Nr. 605-022-00-X

Liquid

UN2927
Class/PG 6.1(8)/II
ADR 6.1(8)/II · IMDG 6.1(8)/II · IATA 6.1(8)/II
WGK 2
Storage 2-8 °C
Storage under argon

Danger



H301+H331 H314 H317 H334 H400

253857 Glutaraldehyde solution 25 % for clinical diagnosis

Specifications
Minimum assay (Oximeacidim.) .....25.0 %
Density 20/4 ..... 1.059-1.063

Code	Packaging
253857.1611	1000 ml

163857 Glutaraldehyde solution 25 % for synthesis

Specifications
Minimum assay (Oximeacidim.) .....25 %
Density 20/4 ..... 1.059-1.063

Code	Packaging
163857.1611	1000 ml

A0589 Glutaraldehyde solution 25 % for electron microscopy

2X distilled for electron microscopy

Aqueous solution

Specifications
Assay (titr.) ..... approx. 25 %

Code	Packaging
A0589,0010	10 ml
A0589,0025	25 ml
A0589,0100	100 ml
A0589,0250	250 ml

L-Glutathione oxidized

GSSG

$C_{20}H_{32}N_6O_{12}S_2$
M = 612.64 g/mol
CAS 27025-41-8
EINECS 248-170-7
CS 29309099

Solid

Storage 2-8 °C

A2243 L-Glutathione oxidized BioChemica

Specifications
Assay (HPLC) .....min. 98 %
α25 °C/D; 2 %, H_2O .....-96 to -106°
Loss on drying .....max. 5 %
Solubility (5 %; H_2O) .....clear, colorless
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
A2243,0001	1 g
A2243,0005	5 g
A2243,0025	25 g
A2243,1000	1 kg

L-Glutathione reduced

GSH, γ-L-Glutamyl-L-Cysteinyl-Glycine

$C_{10}H_{17}N_3O_6S$
M = 307.33 g/mol
CAS 70-18-8
EINECS 200-725-4
CS 29309099

Melting Point .....182-185 °C
Solubility .....approx. 100 g/L (H_2O)
Solid

WGK 1
Storage 2-8 °C

A2084 L-Glutathione reduced BioChemica

Specifications
Assay (HPLC) .....min. 97 %
α20 °C/D; 2 %, H_2O .....-16 to -19°
Heavy metals ..... max. 0.0005 %
Solubility (5 %; H_2O) .....clear, colorless

Code	Packaging
A2084,0005	5 g
A2084,0025	25 g
A2084,0100	100 g

Glycerol anhydrous

Glycerol, 1,2,3-Propanetriol

Origin from plants (non-animal origin!)

$C_3H_8O_3$
M = 92.10 g/mol
CAS 56-81-5
EINECS 200-289-5
CS 29054500

Melting Point ..... 18 °C
Density ..... ~ 1.259 kg/l
Refractive Index n20/D 1.4740
Liquid

WGK 1
Storage RT

131339 Glycerol for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) .....99.5 %
Identity .....IR passes test
Density 20/4 ..... 1.257-1.261

Maximum limit of impurities
APHA colour 10
Acidity .....0.0005 meq/g
Alkali .....0.0003 meq/g

Insoluble matter in H_2O .....passes test
Darkened substances by H_2SO_4 ...passes test
Reducing substances of $AgNO_3$ ...passes test
Residue on ignition (as SO_4) .....0.005 %
Chloride (Cl) .....0.0001 %
Ammonium (NH_4) .....0.0005 %
Sulfate (SO_4) .....0.0005 %
Chlorine compounds (as Cl) .....0.003 %
Acrolein and glucose .....passes test

Fatty acid esters (as $C_{15}H_{26}O_6$) .....0.025 %
Water (H_2O) .....0.5 %
Heavy metals (as Pb) .....0.0001 %
As ..... 0.00004 %
Cu .....0.0001 %
Fe .....0.0001 %
Ni .....0.0001 %
Pb .....0.0001 %
DOES NOT COME FROM ANIMAL ORIGIN.

Code	Packaging
131339.1211	1000 ml
131339.1212	2.5 l
131339.1214	5 l

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

631339 Glycerol (Ph. Eur, BP, USP) GMP - IPEC grade

Specifications
Assay (calc. a.a.s) ..... 99.0-101.0 %
Identity according to Pharmacopoeias:
(A Ph. Eur / USP) ..... passes test
(B Ph. Eur / USP) ..... passes test
(C Ph. Eur / USP) ..... passes test
(D Ph. Eur) ..... passes test
Density 25/25 .....≥ 1.249
Refractive Index n20/D 1.470-1.475
Specific gravity at 25 °C .....≥ 1.249

Maximum limit of impurities
Appearance of solution
Appearance Transparent
< formazin 50 .....passes test
Appearance Colourless .....passes test
Acidity or alkalinity .....< 0,2 ml NaOH 0,1M
Residue on ignition (as SO_4) .....0.01 %
Sugars .....passes test
Chloride (Cl) .....0.0010 %
Sulfate (SO_4) .....0.002 %
Color .....passes test
Halogenated compounds
Ph. Eur (as Cl) .....0.0035 %
Chlorinated compounds USP (Cl) .....0.003 %
Residual solvents (Ph. Eur./USP) .passes test
Aldehydes (as CH_2O) .....0.0010 %
Total impurities Tr < Tr glycerine .....0.5 %
Impurity A (Diethyleneglycol) .....0.1 %
Individual Tr < Tr glycerine .....0.1 %
Impurity A and related substances (C.G.)
Diethyleneglycol and ethyleneglycol impurities (CG)
Diethyleneglycol .....0.1 %
Ethyleneglycol .....0.1 %
Esters Ph. Eur. ..... passes test
Fatty Acids and Esters
(USP) ..... < 1 ml NaOH 0,1M
Water (H_2O) .....2.0 %
Heavy metals (as Pb) ..... 0.0005 %
DOES NOT COME FROM ANIMAL ORIGIN.

Code	Packaging
631339.0716	25 l

141339 Glycerol (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay ($C_3H_8O_3$) calc. a.d.s. ..... 99.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
Density 25/25 .....≥ 1.249
Refractive Index n20/D 1.470-1.475

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Residue on ignition (as SO_4) ..... 0.01 %
Sugars ..... passes test
Chloride (Cl) .....0.001 %
Ammonium (NH_4) .....0.001 %
Sulfate (SO_4) .....0.002 %
Color .....passes test
Halogenated compounds (as Cl) .....0.003 %
Residual solvents (Ph. Eur./USP) .passes test
Aldehydes (as CH_2O) .....0.0010 %
Diethyleneglycol (USP) .....0.025 %
Diethyleneglycol and related substances (Ph. Eur.) .....passes test
Esters .....passes test
Ethylenglycol (USP) .....0.025 %
Water (H_2O) .....0.5 %
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
As ..... 0.00015 %
GLYCEROL OF VEGETABLE ORIGIN

Code	Packaging
141339.1210	500 ml
141339.1211	1000 ml
141339.1212	2.5 l
141339.1214	5 l
141339.0716	25 l

151339 Glycerol, 99 % for synthesis

Specifications
Assay (G.C.) ..... 99 %
Identity .....IR passes test
Density 20/4 ..... 1.259-1.263
Water (H_2O) .....0.5 %
GLYCEROL OF VEGETABLE ORIGIN

Code	Packaging
151339.1211	1000 ml
151339.1212	2,5 l

211339 Glycerol technical grade

Specifications
Assay (G.C.) ..... 99.0 %
Density 20/4 ..... 1.257-1.261
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %
Water (H_2O) .....0.5 %
As .....0.0003 %
Fe .....0.005 %
Pb .....0.001 %
GLYCEROL OF VEGETABLE ORIGIN

Code	Packaging
211339.1211	1000 ml
211339.1214	5 l
211339.0716	25 l

A2926 Glycerol anhydrous for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (G.C.) .....min. 99.5 %
Organic chlorine ..... max. 0.0005 %
pH (5 M; H_2O) 5.5-8.0
Fatty acids ..... max. 0.02 %
Water (K.F.) .....max. 0.5 %
Chloride .....max. 0.0001 %
Sulfate .....max. 0.001 %
As .....max. 0.0001 %
Fe .....max. 0.0005 %
Pb .....max. 0.0001 %

Code	Packaging
A2926,0100	100 ml
A2926,0500	500 ml
A2926,1000	1 L
A2926,2500	2.5 L

A3092 Glycerol anhydrous Cell culture grade

Specifications
Pyrogen test ..... passes test
Assay (G.C.) .....min. 99.5 %
Organic chlorine ..... max. 0.0005 %
Fatty acids .....max. 0.02 %
Water (K.F.) .....max. 0.5 %
Chloride .....max. 0.0001 %
Sulfate .....max. 0.001 %
As ..... max. 0.0001 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0001 %

Code	Packaging
A3092,0500	500 ml

A1123 Glycerol anhydrous BioChemica

Specifications
Assay (titr.) .....min. 99.0 %
Heavy metals (as Pb) ..... max. 0.0005 %
Insoluble matter ..... passes test
Organic chlorine ..... max. 0.0005 %
pH (5 M; H_2O) 5.5-8.0
Fatty acids .....max. 0.02 %
Water (K.F.) .....max. 0.5 %
Chloride .....max. 0.0001 %
Sulfate .....max. 0.001 %
A (1 cm/5 M in H_2O)
260 nm .....max. 0.05
280 nm .....max. 0.05

Code	Packaging
A1123,1000	1 L
A1123,2500	2.5 L
A1123,9025	25 L

Glycerol 87 %

1,2,3-Propanetriol, Glycerol

Origin from plants (non-animal origin!)

$C_3H_8O_3$
M = 92.10 g/mol
CAS 56-81-5
EINECS 200-289-5
CS 29054500
Melting Point .....-10 °C
Density ..... 1.221-1.231 kg(l (20 °C)
Refractive Index n20/D 1.4490-1.4550
Liquid
WGK 1
Storage RT

122329 Glycerol 87 % for analysis

Specifications
Assay ($C_3H_8O_3$) .....86.0-88.0 %
Density 20/4 ..... 1.224-1.232

Maximum limit of impurities
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0003 meq/g
Insoluble matter in H_2O ..... passes test
Darkened substances by H_2SO_4 ...passes test
Reducing substances of $AgNO_3$ ...passes test
Residue on ignition (as SO_4) .....0.005 %
Chloride (Cl) .....0.0001 %
Ammonium (NH_4) .....0.0005 %
Sulfate (SO_4) .....0.0005 %
Fatty acid esters (as $C_{15}H_{26}O_6$) .....0.05 %
Water (H_2O) .....12.0-14.0 %
As ..... 0.00004 %
Cu ..... 0.0001 %
Fe ..... 0.0001 %
Ni ..... 0.0001 %
Pb ..... 0.0001 %
DOES NOT COME FROM ANIMAL ORIGIN.

Code	Packaging
122329.1211	1000 ml
122329.1212	2.5 l
122329.1214	5 l

HeBaPeaKTMB

НеваРеактив

142329 Glycerol 87 % (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay ($C_3H_8O_3$) ..... 83.5-88.5 %
Identity according to
Pharmacopoeias: ..... passes test
Refractive Index n20/D 1.449-1.455

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... passes test
Darkened substances
by H_2SO_4 ..... passes test
Residue on ignition (as SO_4) ..... 0.01 %
Sugars ..... passes test
Chloride (Cl) ..... 0.001 %
Ammonium (NH_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.002 %
Halogenated compounds (as Cl) ..... 0.003 %
Residual solvents (Ph. Eur.) ..... passes test
Aldehydes (as CH_2O) ..... 0.001 %
Diethyleneglycol and related
substances ..... passes test
Esters ..... passes test
Water (H_2O) ..... 12.0-16.0 %
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.00015 %
Pb ..... 0.0005 %
DOES NOT COME FROM ANIMAL ORIGIN.

Code	Packaging
142329.1211	1000 ml
142329.1214	5 l
142329.0716	25 l

A3739 Glycerol 87 % for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... 86.0-88.0 %
Aldehyde ..... max. 0.05 %
Water (K.F.) ..... approx. 13 %
Chloride ..... max. 0.0001 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0001 %

Code	Packaging
A3739,0500	500 ml
A3739,1000	1 L

A0970 Glycerol 87 % BioChemica

Specifications
Assay (titr.) ..... 85.0-88.0 %
Heavy metals (as Pb) ..... max. 0.0001 %
Insoluble matter ..... passes test
Aldehyde ..... max. 0.05 %
Water (K.F.) ..... approx. 13 %
Chloride ..... max. 0.0001 %

Code	Packaging
A0970,1000	1 L
A0970,2500	2.5 L
A0970,5000	5 L

β-Glycerol Phosphate Disodium Salt 5-hydrate

Glycerol-2-Phosphate Disodium Salt Hydrate, Disodium Glycerol-2-Phosphate Hydrate

$C_3H_7Na_2O_6P \cdot 5H_2O$
M = 216.04 g/mol · $5H_2O$
CAS 819-83-0
EINECS 212-464-3
CS 29199000

Solid

Storage 2-8 °C

A2253 β-Glycerol Phosphate Disodium Salt 5-hydrate BioChemica

Specifications
Assay (total) ..... min. 99 %
Heavy metals ..... max. 0.002 %
Solubility (5 %; H_2O) ..... clear, colorless
α-Glycerophosphate ..... max. 2 %
Water ..... 26-33 %
Chloride ..... max. 0.01 %
Free phosphate ..... max. 0.01 %
Sulfate ..... max. 0.01 %
As ..... max. 0.0005 %
Ca ..... max. 0.005 %

Code	Packaging
A2253,0100	100 g
A2253,0500	500 g

DL-α-Glycerol Phosphate Magnesium Salt Hydrate

Glycero-3-phosphate Magnesium Salt, Magnesium Glycerophosphate

$C_3H_7MgO_6P \cdot xH_2O$
M = 194.36 g/mol · xH_2O
CAS 927-20-8
EINECS 213-149-3
CS 29199000

Solid

Storage RT

A4558 DL-α-Glycerol Phosphate Magnesium Salt Hydrate pure

Specifications
Assay (titr.) ..... min. 90 %
Heavy metals (as Pb) ..... max. 0.001 %
Residue on ignition (800 °C) ..... 47-52 %
Loss on drying ..... max. 5 %
As ..... max. 0.0003 %

Code	Packaging
A4558,1000	1 kg

Glycerol tri-Acetate

1,2,3-Triacetoxypropane, Triacetin

$C_9H_{14}O_6$
M = 218.21 g/mol
CAS 102-76-1
EINECS 203-051-9
CS 29153900

Melting Point ..... 4 °C
Boiling Point ..... 256 °C
Density ..... 1.159 kg/l
Solubility ..... water 6.8 g/l at 20 °C
Refractive Index n20/D 1.431
Liquid

WGK 1
Storage RT

141922 Glycerol tri-Acetate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 97.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
Density 25/25 ..... 1.152-1.158
Density 20/20 ..... 1.159-1.164
Refractive Index n25/D 1.429-1.430

Maximum limit of impurities
Appearance ..... passes test
Acidity (Ph. Eur.) ..... passes test
Acidity (0.005 % as CH_3COOH)
(USP) ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Glycerol di-Acetate (G.C.) ..... 0.3 %
Glycerol mono-Acetate (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.2 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1.300 ppm
As ..... 0,00015 %
Cd ..... 0,00005 %
Hg ..... 0,00015 %
Pb ..... 0,00002 %

Code	Packaging
141922.1611	1000 ml
141922.0716	25 l

Glyceryl Tributyrate see Tributyrin

НеваРеактив

Glycine

Aminoacetic Acid, Glycocoll

H_2NCH_2COOH
M = 75.07 g/mol
CAS 56-40-6
EINECS 200-272-2
CS 29224985

Melting Point .....232 °C (dec.)
Solubility ..... 225 g/L (H_2O)
Solid

WGK nwg
Storage RT

131340 Glycine (Reag. USP) for analysis, ACS

Specifications
Minimum assay (Perchl. Ac.) ..... 99.0 %
Identity .....IR passes test
pH of 5 % solution 5.9-6.3
T.L.C. ..... passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Darkened substances by H_2SO_4 ...passes test
Loss on drying at 105 °C .....0.2 %
Residue on ignition (as SO_4) .....0.05 %
Chloride (Cl) .....0.005 %
Ammonium (NH_4) .....0.005 %
Sulfate (SO_4) .....0.005 %
Hydrolizable substances .....passes test
Heavy metals (as Pb) .....0.001 %
As ..... 0.0001 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
131340.1209	250 g
131340.1211	1000 g
131340.0914	5 kg
131340.0416	25 kg

631340 Glycine (Ph. Eur, BP, USP) GMP - IPEC grade

Specifications
Assay (Perchl. Ac.)
(calc. a.d.s.) .....98.5-101.0 %
Identity according to Pharmacopoeias:
(A Ph. Eur / USP) .....IR passes test
(B Ph. Eur) ..... passes test
(C Ph. Eur) ..... passes test
pH of 5 % solution 5.9-6.4

Maximum limit of impurities
Appearance of solution
Appearance Transparent
< formazin I < 3 NTU .....passes test
Appearance Colour .....< Y7
Loss on drying at 105 °C .....0.2 %
Residue on ignition (as SO_4) .....0.1 %
Sulfate (SO_4) .....0.0065 %
Ninhydrin positive substances .....0.5 %
Residual solvents (Ph. Eur./USP) .passes test
Hydrolizable substances .....passes test
Chlorides (Cl) .....0.007 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm

Code	Packaging
631340.0914	5 kg
631340.0416	25 kg

141340 Glycine (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Perchl. Ac.) calc.
a.d.s. .....98.5-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 5.9-6.4

Maximum limit of impurities
Appearance of solution ..... passes test
Loss on drying at 105 °C .....0.2 %
Residue on ignition (as SO_4) .....0.1 %
Chloride (Cl) .....0.007 %
Sulfate (SO_4) .....0.0065 %
Ninhydrin-positive substances .....0.5 %
Hydrolizable substances .....passes test
Residual solvents (Ph. Eur./USP) .passes test
Heavy metals (as Pb) .....0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
As ..... 0.00015 %

Code	Packaging
141340.1211	1000 g
141340.0914	5 kg
141340.0416	25 kg

151340 Glycine, 99 % for synthesis

Specifications
Minimum assay ..... 99 %

Code	Packaging
151340.1211	1000 g

A1067 Glycine for molecular biology

• All amino acids are of non-animal origin

Specifications
DNases/RNases/Proteases .....not detectable
Assay (titr.) .....min. 99.5 %
Loss on drying .....max. 0.1 %
pH (5 %; H_2O) 5.9-6.4
Other amino acids .....max. 0.1 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.004 %
Sulfate ..... max. 0.005 %
As ..... max. 0.0001 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
A1067,0500	500 g
A1067,1000	1 kg
A1067,5000	5 kg
A1067,9010	10 kg
A1067,9025	25 kg

A3741 Glycine for cell culture

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) .....min. 99.5 %
Loss on drying .....max. 0.1 %
Other amino acids ..... max. 0.1 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.004 %
Sulfate ..... max. 0.005 %
As ..... max. 0.0001 %
Fe .....max. 0.001 %
Pb .....max. 0.001 %

Code	Packaging
A3741,0500	500 g
A3741,5000	5 kg

A3707 Glycine BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) .....min. 99.5 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Loss on drying .....max. 0.1 % (110 °C)
Other amino acids ..... max. 0.1 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %
A (1 cm/1 M in 1 M HCl)
260 nm .....max. 0.02
280 nm .....max. 0.02

Code	Packaging
A3707,0500	500 g
A3707,1000	1 kg
A3707,5000	5 kg

Glycol Ethylether see 1,4-Dioxane

Glycolic Acid solution 70 %

Hydroxyacetic Acid solution

CAS 79-14-1
EINECS 201-180-5
CS 29181998

Liquid

UN3265
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Danger



H302 H314

167073 Glycolic Acid solution 70 % for synthesis

Specifications
Assay (titr.) ..... min. 70 %
Heavy metals (as Pb) ..... max. 0.001 %
Sulfate ..... max. 0.05 %

Code	Packaging
167073.1214	5 L

Glycylglycine

Diglycine, Gly-Gly

$C_4H_8N_2O_3$
M = 132.12 g/mol
CAS 556-50-3
EINECS 209-127-8
CS 29241900

Solid

WGK 1
Storage RT

A1068 Glycylglycine for buffer solutions

Specifications
Assay (titr.) ..... min. 99.5 %
Heavy metals (as Pb) ..... max. 0.001 %
Loss on drying ..... max. 0.5 %
pH (1 %; H_2O) 5.5-5.9
Chloride ..... max. 0.02 %
A (1 cm/10 % in H_2O)
260 nm ..... max. 0.2
280 nm ..... max. 0.1
405 nm ..... max. 0.02

Code	Packaging
A1068,0100	100 g

Glyoxal solution 40 %

Oxalaldehyde, Ethanedial

$C_2H_2O_2$
M = 58.04 g/mol
CAS 107-22-2
EINECS 203-474-9
CS 29121990
Index Nr. 605-016-00-7

Liquid

WGK 1
Storage 2-8 °C

Warning



H315 H317 H319 H332 H341

A2169 Glyoxal solution 40 % for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... approx. 40 %
Chloride ..... max. 0.01 %
Sulfate ..... max. 0.01 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A2169,9025	25 kg

GMBS

N-(γ-Maleimidobutyryloxy) succinimide ester

$C_{12}H_{12}N_2O_6$
M = 280.20 g/mol
CAS 80307-12-6
CS 29280090

Melting Point ..... 123-125 °C
Solid

Storage 2-8 °C

A7819 GMBS

Specifications
Assay ..... min. 98 %
Identity (NMR) ..... passes test

Code	Packaging
A7819,0100	100 mg

Gold ABConjugation Kit

Kit for rapid Antibody-labeling with Gold nanoparticles (AuNPs)

CS 38220000

Storage 2-8 °C

A9535 Gold ABConjugation Kit

Specifications
Components of the Kit
Gold nanoparticle dispersion (AuNPs)
Conjugation buffer
Blocking solution
Stabilization solution
Neutralization solution
Storage buffer

Code	Packaging
A9535,0001	1 Kit

Gold Orange see Methyl Orange (C.I. 13025)

Gold(III) Chloride-Sodium Chloride ~ 49 % Au

CS 38220000

Solubility ..... Soluble in water.
Solid

Storage RT

141448 Gold(III) Chloride-Sodium Chloride ~ 49 % Au pure

Specifications
Approximate assay (as Au) ..... 49 %
Insoluble matter in H_2O ..... passes test

Code	Packaging
141448.1503	1 g

Graham's Salt see Sodium Polyphosphate

НеваРеактив

Printed on FSC® certified paper from well managed forests

Gram-Hucker's Crystal Violet solution

CS 38220000

Density .....0.980 kg/l
Solubility .....Miscible with water

Storage RT

252532 Gram-Hucker's Crystal Violet Oxalate solution for clinical diagnosis

Composition:
Crystal Violet .....20 g
Ammonium Oxalate .....8 g
Ethanol .....200 ml

Water ..... 800 ml
Identity .....passes test

Maximum limit of impurities
ABS at λ 589.5 ± 2 nm;
dil. 1:12500 ..... 0.310-0.390
Staining suitability ..... passes test

Code	Packaging
252532.1609	250 ml
252532.1611	1000 ml

Gram-Hucker's Safranine O solution

CS 32041300

Density .....0.990 kg/l
Liquid

WGK 1
Storage RT

252531 Gram-Hucker's Safranine O solution for clinical diagnosis

Composition:
Safranine O .....0.25 g
Ethanol absolute .....10 ml
Water (s.q.m) .....100 ml

Maximum limit of impurities
ABS at λ 519 ± 3 nm;
dil. 1:1000 .....0.200-0.285
Staining suitability .....passes test

Code	Packaging
252531.1209	250 ml
252531.1211	1000 ml

Gram-Hucker's Staining Kit

CS 38220000

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225 H319 EUH066 H336 H412

256649 Gram-Hucker's Staining Kit (Droppers) for clinical diagnosis

Specifications
Comprised of:
1x250 ml Alcohol-Acetone 7:3
1x100 ml Lugol's liquor *

1x100 ml Gram-Hucker's Safranine O solution
1x100 ml Gram-Hucker's Crystal Violet Oxalate solution for clinical diagnosis

1 Instructions sheet
* The color of the bottle can change with time. Does not affect stainning.

Code	Packaging
256649.0922	Kit

Gramicidin

Mixture of Gramicidin A, B, C and D

CAS 1405-97-6
EINECS 215-790-4
CS 29419000

Solid

Storage RT

A2170 Gramicidin

Specifications
Assay (HPLC) min. 95 % (Mixture of isomeres)

Ash ..... max. 0.1 %
Loss on drying ..... max. 1 %

Code	Packaging
A2170,0250	250 mg

Griess-Ilosvay's A Reagent

CS 38220000

Density .....1.045 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Danger



H314

171569 Griess-Ilosvay's A Reagent

for detection of nitrites

Composition:
Sulphanilic Acid ..... 0.34 g

Acetic Acid glacial .....30 ml
Water .....64 ml

Code	Packaging
171569.1608	100 ml

Griess-Ilosvay's B Reagent

CS 38220000

Density .....1.042 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Danger



H314

171570 Griess-Ilosvay's B Reagent

for detection of nitrites

Composition:
1-Naphthylamine ..... 70 mg

Acetic Acid glacial .....30 ml
Water .....77.5 ml

Code	Packaging
171570.1608	100 ml

GTP Disodium Salt see Guanosine 5'-Triphosphoric Acid Disodium Salt

HeBaPeakTMB

Guanidine Hydrochloride

Guanidinium Chloride, Carbamidine Chloride, GuaHCl, Aminoformamidine Chloride

$CH_5N_3 \cdot HCl$
M = 95.53 g/mol
CAS 50-01-1
EINECS 200-002-3
CS 29252900
Index Nr. 607-148-00-0

Melting Point ..... 183-188 °C
Solubility ..... 2000 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H302 H315 H319

144229 Guanidine Hydrochloride pure

Specifications
Assay ..... min. 98 %
pH (5 %; H_2O) ..... 3.5-6.5 (20 °C)
Water (K.F.) ..... max. 1 %
Ammonium ..... max. 0.1 %
Fe ..... max. 0.005 %
Pb ..... max. 0.01 %

Code	Packaging
144229.1211	1 kg
144229.1214	5 kg
144229.0416	25 kg

A1106 Guanidine Hydrochloride for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.5 %
pH (6 M; H_2O; 25 °C) 4.5-6.0
Water ..... max. 0.5 %
Ammonium ..... max. 0.05 %
Sulfate ..... max. 0.005 %
Cu ..... max. 0.0001 %
Fe ..... max. 0.0001 %
Pb ..... max. 0.0001 %

Code	Packaging
A1106,0100	100 g
A1106,0250	250 g
A1106,0500	500 g
A1106,1000	1 kg

A3240 Guanidine Hydrochloride ultrapure

Specifications
Assay (titr.) ..... min. 99.5 %
pH (6 M; H_2O) ..... 4.5-6.0 (25 °C)
Water ..... max. 0.5 %
Ammonium ..... max. 0.05 %
Sulfate ..... max. 0.005 %
Cu ..... max. 0.0001 %
Fe ..... max. 0.0001 %
Pb ..... max. 0.0001 %

Code	Packaging
A3240,0500	500 g
A3240,1000	1 kg
A3240,5000	5 kg

A1499 Guanidine Hydrochloride BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 25 °C) 4.0-6.0
Water ..... max. 0.5 %
Ammonium ..... max. 0.05 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %
A (1 cm/50 % in water HPLC grade)
260 nm ..... max. 0.1
280 nm ..... max. 0.05

Code	Packaging
A1499,0250	250 g
A1499,0500	500 g
A1499,1000	1 kg
A1499,5000	5 kg
A1499,9020	20 kg
A1499,9025	25 kg

Guanidine Hydrochloride solution (8 M)

CS 29252900
Index Nr. 607-148-00-0

Liquid

WGK 1
Storage RT

Warning



H302 H315 H319

A0860 Guanidine Hydrochloride solution (8 M) BioChemica

Specifications
pH (25 °C) 4.5-7.5

Composition:
GuaHCl ..... 764.24 g/L

A (1 cm/8 M in H_2O)
280 nm ..... max. 0.25

Code	Packaging
A0860,0500	500 ml

Guanidine Isothiocyanate see Guanidine Thiocyanate

Guanidine Thiocyanate

Guanidine Isothiocyanate, Guanidine Rhodanide, GuaSCN

CH_6N_3SCN
M = 118.16 g/mol
CAS 593-84-0
EINECS 209-812-1
CS 29252900
Index Nr. 615-004-00-3

Melting Point ..... 118-121 °C
Solubility ..... 1420 g/L (H_2O)
Solid

WGK 2
Storage RT

Warning



EUH032 H302+H312+H332 H412

A1107 Guanidine Thiocyanate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99 %
pH (1 M) 4.7-7.0
Water (K.F.) ..... max. 1.0 %
Ammonium ..... max. 0.1 %
Fe ..... max. 0.0005 %
A (1 cm/6 M in water HPLC grade)
280 nm ..... max. 0.6
300 nm ..... max. 0.1

Code	Packaging
A1107,0100	100 g
A1107,0250	250 g
A1107,0500	500 g
A1107,1000	1 kg
A1107,9025	25 kg

A4335 Guanidine Thiocyanate BioChemica

Specifications
Assay (titr.) ..... min. 99 %
pH (1 M) 5.0-7.0
Sulfated ash ..... max. 0.05 %
Water (K.F.) ..... max. 1.0 %
Fe ..... max. 0.0005 %
A (1 cm/33 % in H_2O)
280 nm ..... max. 0.4
300 nm ..... max. 0.05

Code	Packaging
A4335,0500	500 g
A4335,1000	1 kg

A4756 Guanidine Thiocyanate pure

Specifications
Assay ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.0005 %
Sulfated ash ..... max. 0.05 %
Water (K.F.) ..... max. 1.0 %
Fe ..... max. 0.0005 %

Code	Packaging
A4756,1000	1 kg

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

НеваРеактив

Guanidine Thiocyanate solution (6 M in 0.1 M Tris; pH 7.5)

CS 38220000
Index Nr. 615-004-00-3

Liquid

WGK 2
Storage RT

Warning



EUH032 H302+H312+H332 H412

A0703 Guanidine Thiocyanate solution (6 M in 0.1 M Tris; pH 7.5) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
pH (25 °C) 7.3-7.7

Composition:
GuaSCN ..... 708.96 g/L
Tris ..... 12.11 g/L

Code	Packaging
A0703,0250	250 ml
A0703,1000	1 L

Guanidine Thiocyanate solution (4 M in 0.1 M Tris; pH 7.5)

CS 38220000
Index Nr. 615-004-00-3

Liquid

WGK 2
Storage RT

Warning



EUH032 H302+H312+H332 H412

A0861 Guanidine Thiocyanate solution (4 M in 0.1 M Tris; pH 7.5) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable

Composition:
GuaSCN ..... 472.64 g/L
Tris ..... 12.11 g/L

Code	Packaging
A0861,0100	100 ml

Guanosine

Guanine-9-β-D-Ribofuranoside

$C_{10}H_{13}N_5O_5$
M = 283.24 g/mol
CAS 118-00-3
EINECS 204-227-8
CS 29349990

Melting Point ..... 250 °C (dec.)
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301

A0701 Guanosine BioChemica

Specifications
Assay (HPLC) ..... min. 98 %
Heavy metals ..... max. 0.001 %

Code	Packaging
A0701,0100	100 g
A0701,0500	500 g

Guanosine 5'-Triphosphoric Acid Disodium Salt

GTP Disodium Salt

$C_{10}H_{14}Na_2N_5O_{14}P_3$
M = 567.15 g/mol
CAS 56001-37-7
EINECS 252-847-2
CS 29349990

Solid

Storage -20 °C

A1803 Guanosine 5'-Triphosphoric Acid Disodium Salt BioChemica

Specifications
Assay (HPLC) ..... min. 90 %
GDP (HPLC) ..... max. 7 %
GMP (HPLC) ..... max. 3 %

Water ..... max. 8 %
P inorganic ..... max. 0.9 %

Code	Packaging
A1803,0100	100 mg
A1803,0001	1 g

GVPC Agar see Legionella Selective Agar (ISO 11731:1998) (Prepared Plate (∅ 90 mm)) for microbiology

Ham's F12K - Medium, powder

Cell culture media

CS 38210000

Storage 2-8 °C

A1927 Ham's F12K - Medium

Specifications
with L-Glutamine
without Sodium hydrogen carbonate

Code	Packaging
A1927,9050	50 L

Hanks' balanced salts (HBSS), powder

Cell culture media

CS 38210000

Storage RT

A3140 Hanks' balanced salts (HBSS)

Specifications
with 1.0 g/L D(+)-Glucose

without Phenol red
without Sodium hydrogen carbonate

Code	Packaging
A3140,5000	5 L

Hanus Reagent 0.1 mol/l (0,2N)

CS 38220000

Density .....1.069 kg/l
Liquid

UN2920
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H226 H314 H412

281572 Hanus Reagent 0.1 mol/l (0.2N) for volumetric analysis

for determination of iodine indexKeep over 18 °C

Composition:
Iodine ..... 1.32 g
Bromine ..... 0.812 g
Acetic Acid glacial s.q.m ..... 100 ml

Code	Packaging
281572.1611	1000 ml
281572.1612	2.5 l

Harpagoside

8-Cinnamoylharpagid

Origin from *Harpagophytum procumbens*

$C_{24}H_{30}O_{11}$
M = 494.48 g/mol
CAS 19210-12-9
CS 29420000

Solid

Storage 2-8 °C

A3392 Harpagoside for HPLC

Specifications
Assay .....min. 99 %

Code	Packaging
A3392,0050	50 mg

Harris Hematoxylin solution

CS 28259080

Density .....0.994 kg/l
Liquid

UN2024
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage RT

Danger



H332 H312 H302 H373

253949 Harris Hematoxylin solution for clinical diagnosis

Solution for Hematoxylin-Eosin staining, in human and gynaecological samples

Composition:
Mercury(II) Oxide yellow ..... 250 mg
Hematoxylin ..... 500 mg
Aluminium Potassium Sulfate 12-hydrate 10 g
Ethanol 96 % ..... 16 ml
Water ..... 88 ml

Code	Packaging
253949.1610	500 ml
253949.1611	1000 ml
253949.1612	2.5 l

Harris Hematoxylin modified solution

CS 38220000

Density .....1.095 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

256991 Harris Hematoxylin modified solution for clinical diagnosis

Solution for Hematoxylin-Eosin staining, in human and gynaecological samples

Specifications
Suitability for hematoxylin - eosin stain .... passes test

Code	Packaging
256991.1612	2.5 l

Hazen Colour see Colour Standard Pt-Co, 500 APHA

HDL see Lipoprotein, high density (HDL), human

Helianthin see Methyl Orange solution 0.1 %

Heliotrine

(2S)-2-Hydroxy-2-[(R)-1-Methoxyethyl]-3-Methylbutyric Acid [(1S,7aR)-2,3,5,7a-Tetrahydro-1-Hydroxy-1H-Pyrrolizin-7-yl]Methyl Ester

Origin from *Heliotropium*

$C_{16}H_{27}NO_5$
M = 313.39 g/mol
CAS 303-33-3
CS 29399900

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage 2-8 °C

Danger



H301 H373

A9583 Heliotrine for HPLC

Specifications
Assay .....min. 98 %

Code	Packaging
A9583,0020	20 mg
A9583,0050	50 mg

HebaPeaKTMB

Heliotrine-N-Oxide

Origin from *Heliotropium*

$C_{16}H_{27}NO_6$
M = 329.39 g/mol
CAS 6209-65-0
CS 29399900

Storage 2-8 °C

Warning



H302

A9590 Heliotrine-N-Oxide for HPLC

Specifications
Assay .....min. 97 %

Code	Packaging
A9590,0010	10 mg
A9590,0020	20 mg

Helixin C see Nigericin Sodium Salt

Hematoxylin (C.I. 75290)

Natural Black 1

$C_{16}H_{14}O_6 \cdot H_2O$
M = 320.29 g/mol
CAS 517-28-2
EINECS 208-237-3
CS 32030010

Melting Point .....approx. 140 °C
Solubility ..... Soluble in water 10 g/l
.....Soluble in alcohol 30 g/l
Solid

WGK 1
Storage RT

251344 Hematoxylin (C.I. 75290) for clinical diagnosis

for microscopy, vagina smear staining

Specifications
Identity .....IR passes test
Ratio λ_{max} P +/- 15 nm 0.98-1.04
A 1 %, 1 cm, λ_{max} .....> 500

λ_{max} ABS .....490-500 nm
T.L.C. .....passes test

Maximum limit of impurities
Loss on drying at 135 °C ..... 10 %

Code	Packaging
251344.1604	5 g
251344.1606	25 g
251344.1608	100 g

A3865 Hematoxylin (C.I. 75290) for microscopy

Specifications
λ_{max} (Acetonitrile) ..... 290-292 nm
pH (1 %; H_2O; 25 °C) 4.0-7.0
Loss on drying .....max. 6.0 %

Code	Packaging
A3865,0025	25 g
A3865,0100	100 g

Hemin porcine

Hemin Chloride, Ferriprotoporphyrine IX Chloride

$C_{34}H_{31}FeN_4O_4 \cdot HCl$
M = 652.00 g/mol
CAS 16009-13-5
CS 29339980

Solid

Storage 2-8 °C

A0942 Hemin porcine

Specifications
Assay (photometr.) ..... approx. 98 %
Water (K.F.) .....max. 2 %
Fe .....min. 7 %

Code	Packaging
A0942,0005	5 g
A0942,0025	25 g
A0942,0100	100 g

Heparin Sodium Salt

Origin from porcine mucosa

M = 8000-25000 g/mol
CAS 9041-08-1
CS 30019091

Solid

WGK 1
Storage RT

A3004 Heparin Sodium Salt

Specifications
Assay .....min. 150 I.U. / mg
Heavy metals (as Pb) ..... max. 0.003 %
Loss on drying .....max. 8 %
pH (1 %; H_2O) .....5.5-8.0 (20 °C)

Solubility (1 %; H_2O) .....clear, colorless
Na .....9.5-12.5 %

Code	Packaging
A3004,0250	250 mg
A3004,0001	1 g
A3004,0005	5 g

HEPES

N-(2-Hydroxyethyl)-Piperazine-N'-2-Ethanesulfonic Acid, 4-(2-Hydroxyethyl)-1-Piperazine-1-Ethanesulfonic Acid

$C_8H_{18}N_2O_4S$
M = 238.31 g/mol
CAS 7365-45-9
EINECS 230-907-9
CS 29335995

Melting Point .....210-215 °C
Solid

WGK 1
Storage RT

A3724 HEPES for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
Assay .....min. 99.5 %
pH (5 %; H_2O) 4.7-6.0
Water ..... max. 0.25 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %

As .....max. 0.0001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %
A (1 cm/0.1 M HPLC water)
260 nm ..... max. 0.1
280 nm ..... max. 0.05

Code	Packaging
A3724,0100	100 g
A3724,0250	250 g
A3724,0500	500 g
A3724,1000	1 kg

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A3268 HEPES for cell culture

Specifications
Pyrogen test ..... passes test
Assay (titr.) .....min. 99.5 %
pH (1 %; H_2O) 4.7-6.0
Sulfated ash .....max. 0.1 %
Water .....max. 0.5 %
Chloride .....max. 0.005 %
Sulfate .....max. 0.05 %
As .....max. 0.0001 %
Fe .....max. 0.0005 %
Pb .....max. 0.001 %

Code	Packaging
A3268,0100	100 g
A3268,0250	250 g
A3268,0500	500 g
A3268,1000	1 kg
A3268,9025	25 kg

A1069 HEPES for buffer solutions

Specifications
Assay (titr.) .....min. 99.5 %
Heavy metals (as Pb) .....max. 0.001 %
pH (1 %; H_2O) 4.7-6.0
Water .....max. 0.5 %
Chloride .....max. 0.05 %
Sulfate .....max. 0.05 %

Code	Packaging
A1069,0100	100 g
A1069,0250	250 g
A1069,0500	500 g
A1069,1000	1 kg
A1069,5000	5 kg
A1069,9020	20 kg
A1069,9025BW	25 kg

HEPES Sodium Salt

N-(2-Hydroxyethyl)-Piperazine-N'-2-Ethanesulfonic Acid Sodium Salt, 4-(2-Hydroxyethyl)-Piperazine-1-Ethanesulfonic Acid Sodium Salt

$C_8H_{17}N_2NaO_4S$
M = 260.28 g/mol
CAS 75277-39-3
EINECS 278-169-7
CS 29335995

Solid

WGK 1
Storage RT

A4592 HEPES Sodium Salt for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
Assay .....min. 99 %
Heavy metals (as Pb) ..... max. 0.0005 %
Water ..... max. 3 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.1
280 nm ..... max. 0.05

Code	Packaging
A4592,0100	100 g
A4592,0500	500 g

A1070 HEPES Sodium Salt for buffer solitions

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) .....max. 0.001 %
Water (K.F.) .....max. 3 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.1
280 nm ..... max. 0.05

Code	Packaging
A1070,0100	100 g
A1070,0500	500 g

HEPES buffer (1 M)

CS 38220000

Liquid

WGK 1
Storage RT

A6906 HEPES buffer pH 8.0 (1 M) sterile

aqueous Solution

Specifications
pH (20 °C; adjusted with NaOH) .....8.0 ± 0.2

Composition:
HEPES .....238.31 g/L (1 M)

Code	Packaging
A6906,0125	125 ml
A6906,0250	250 ml

A6916 HEPES buffer pH 7.5 (1 M) sterile

aqueous Solution

Specifications
pH (20 °C; adjusted with NaOH) .....7.5 ± 0.2

Composition:
HEPES .....238.31 g/L (1 M)

Code	Packaging
A6916,0125	125 ml
A6916,0250	250 ml

HEPPS

EPPS, 4-(2-Hydroxyethyl)-Piperazine-1-Propanesulfonic Acid

$C_9H_{20}N_2O_4S$
M = 252.33 g/mol
CAS 16052-06-5
EINECS 240-198-8
CS 29335995

Melting Point .....237-239 °C (dec.)
Solid

WGK 3*
Storage RT

A1071 HEPPS for buffer solutions

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) .....max. 0.001 %
Water ..... max. 1 %
A (1 cm/0.1 M in H_2O)
260 nm .....max. 0.05
280 nm .....max. 0.05

Code	Packaging
A1071,9025	25 kg

HEPPSO

4-(2-Hydroxyethyl)-Piperazine-1-(2-Hydroxy)-Propanesulfonic Acid

$C_9H_{20}N_2O_5S$
M = 268.33 g/mol
CAS 68399-78-0
EINECS 269-990-1
CS 29335995

Melting Point .....158-160 °C
Solid

WGK 1
Storage RT

Warning



H315 H319 H335

A1072 HEPPSO for buffer solutions

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) ..... max. 0.0005 %
Water .....max. 7 %
A (1 cm/0.1 M in ...)
260 nm ..... max. 0.1
280 nm ..... max. 0.05

Code	Packaging
A1072,0100	100 g

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

НеваРеактив

НеваРеактив

n-Heptane

1-Methylhexane, n-Dipropylmethane

C_7H_{16}
M = 100.21 g/mol
CAS 142-82-5
EINECS 205-563-8
CS 29011000
Index Nr. 601-008-00-2

Melting Point ..... -90 °C
Boiling Point ..... 98 °C
Density ..... 0.683 kg/l (20 °C)
Refractive Index n20/D 1.3877
Liquid

UN1206
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H225 H304 H315 H336 H410

362062 n-Heptane for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 99.0 %
Density at 20/4 ..... 0.683-0.685

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0003 %
Water (H_2O) ..... 0.005 %
Suitability for IR spectrometry: ..... passes test
Fluorescence at 254 nm (as quinine) ..... 1 ppb
Fluorescence at 365 nm (as quinine) ..... 1 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 200 nm (Cut off) ..... ≥ 20 %
Transmittance at 210 nm ..... ≥ 50 %
Transmittance at 220 nm ..... ≥ 80 %
Transmittance at 230 nm ..... ≥ 92 %
Transmittance at 245-400 nm ..... ≥ 98 %
Data of interest in HPLC:
P' + 0.25 E 0.5
Rohrschneider Polarity 0.2
Eluotropic value e° (Al_2O_3) 0.01
Sol. H_2O in solv. at 20 °C 0.01
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
362062.1611	1000 ml
362062.1612	2.5 l
362062.0314	5 l

322062 n-Heptane for pesticide analysis

Specifications
Assay (G.C.) ..... min. 95 %
Acidity/Alkalinity ..... max. 0.0005 meq/g
Non-volatile matter ..... max. 0.0005 %
Water (K.F.) ..... max. 0.3 %
GC/ECD (retention range lindane to DDT) individual signals (lindane standard) .. max. 5 ng/L
GC/PND (Retention range parathion to coumaphos) individual signals (ethylparathion standard) ..... max. 10 ng/L

Code	Packaging
322062.1612	2.5 L

122062 n-Heptane for analysis

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Density 20/4 ..... 0.683-0.685

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 ... passes test
Sulfur compounds (as S) ..... 0.005 %
Thiophene ..... passes test
Water (H_2O) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As 0.5
B 0.02
Be 0.02
Al 0.5
Au 0.1
Ba 0.1
Bi 0.05
Ca 0.5
Co 0.02
Cu 0.02
Ge 0.05
In 0.05
Li 0.05
Mn 0.02
Na 0.5
P 0.2
Pt 0.1
Cd 0.05
Cr 0.02
Fe 0.1
Hg 0.05
K 0.1
Mg 0.1
Mo 0.02
Ni 0.02
Pb 0.1

Code	Packaging
122062.1611	1000 ml
122062.1612	2.5 l
122062.0314	5 l
122062.3516	25 l
122062.0619	200 l

142062 n-Heptane pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.683-0.685
Acidity ..... 0.001 meq/g
Non-volatile matter ..... 0.005 %
Sulfur compounds (as S) ..... 0.01 %
Water (H_2O) ..... 0.02 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
142062.1611	1000 ml
142062.1612	2.5 l
142062.3515	10 l
142062.0616	25 l
142062.3516	25 l
142062.0537	30 l

162062 n-Heptane, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.683-0.685
Non-volatile matter ..... 0.001 %
Water (H_2O) ..... 0.01 %

Code	Packaging
162062.1611	1000 ml
162062.1714	5 l
162062.0616	25 l
162062.0537	30 l

212062 n-Heptane technical grade

Specifications
Assay (G.C.) ..... 99 %
Density 20/4 ..... 0.682-0.687
Water (H_2O) ..... 0.05 %

Code	Packaging
212062.1612	2.5 l
212062.3515	10 l
212062.3516	25 l

Heptane, alkanes mixture

C_7H_{16}
M = 100.21 g/mol
CAS 142-82-5
EINECS 205-563-8
CS 29011000
Index Nr. 601-008-00-2

Boiling Point ..... 95-105 °C
Density ..... 0.710 kg/l
Liquid

UN1206
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H225 H315 H304 H336 H410

121345 Heptane, alkanes mixture for analysis

Specifications
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 ..... passes test
Sulfur compounds (as S) ..... 0.005 %
Thiophene ..... passes test
Water (H_2O) ..... 0.01 %
Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.000002 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
121345.1611	1000 ml
121345.1612	2.5 l

141345 Heptane, alkanes mixture pure

Specifications
Acidity ..... 0.001 meq/g
Non-volatile matter ..... 0.005 %
Sulfur compounds (as S) ..... 0.01 %
Water (H_2O) ..... 0.02 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141345.1612	2.5 l
141345.0314	5 l

НеваРеактив

161345 Heptane, alkanes mixture for synthesis

Specifications
Non-volatile matter ..... 0.001 %
Water (H_2O) .....0.01 %

Code	Packaging
161345.1714	5 l
161345.0516	25 l
161345.0519	200 l

1-Heptane Sulfonic Acid Sodium Salt

Sodium 1-Heptanesulphonate

$C_7H_{15}NaO_3S$
M = 202.25 g/mol
CAS 22767-50-6
EINECS 245-210-5
CS 29041000

Soluble in water.
Solid

WGK 1
Storage RT

364897 1-Heptane Sulfonic Acid Sodium Salt for HPLC

for ion pair chromatography

Specifications
Minimum assay (Acidim.) calc.
a.d.s. ..... 99.0 %
Identity ..... IR passes test

UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 200 nm .....≥ 70 %
Transmittance at 220 nm .....≥ 90 %
Transmittance at 250 nm .....≥ 98 %

Code	Packaging
364897.1606	25 g

1-Heptane Sulfonic Acid Sodium Salt 1-hydrate

Sodium Heptylsulfonate 1-hydrate

$C_7H_{15}NaO_3S \cdot H_2O$
M = 220.27 g/mol
CAS 207300-90-1
EINECS 245-210-5
CS 29041000

Solid

WGK 1
Storage RT

367128 1-Heptane Sulfonic Acid Sodium Salt 1-hydrate for HPLC

Specifications
Assay (titr.) .....min. 99 %
Alkylbromide .....max. 0.01 %

Solubility (5 %; H_2O) ..... clear, colorless
A (1 cm/0.005 M in water HPLC grade)

200 nm .....max. 0.15
220 nm .....max. 0.06

Code	Packaging
367128.1606	25 g

Hexachloroplatinic(IV) Acid 6-hydrate

Chloroplatinic Acid, Hydrogen Hexachloroplatinate, Platinic Chloride

$H_2Cl_6Pt \cdot 6H_2O$
M = 517.92 g/mol
CAS 18497-13-7
EINECS 241-010-7
CS 28439090

Melting Point ..... 60 °C
Soluble in water.
Solid

UN2507
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Danger



H301 H314 H334 H317

134433 Hexachloroplatinic(IV) Acid 6-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Pt) ..... 37.50 %

Maximum limit of impurities
Insoluble matter in H_2O .....0.01 %
Insoluble matter in C_2H_5OH .....0.01 %
Sensitivity to K ..... passes test

Alkalis and other salts (as SO_4) .....0.05 %
Ag .....0.01 %
Al .....0.02 %
Au .....0.01 %
Ba .....0.02 %
Ca .....0.02 %
Cu .....0.02 %

Fe .....0.02 %
K .....0.02 %
Mg .....0.02 %
Na .....0.02 %
Ni .....0.02 %

Code	Packaging
134433.1603	1 g

1-Hexadecanol see Cetyl Alcohol

Hexadecyl Alcohol see Cetyl Alcohol

Hexadecyltrimethylammonium Bromide see Cetyltrimethylammonium Bromide

Hexamethylenetetramine

1,3,5,7-Tetraazatricyclo [3.3.1.13,7]Decane, Hexamine, HMTA, Methenamine, Urotropine

$(CH_2)_6N_4$
M = 140.19 g/mol
CAS 100-97-0
EINECS 202-905-8
CS 29336940
Index Nr. 612-101-00-2

Melting Point .....285-295 °C
Soluble in water.
Solid

UN1328
Class/PG 4.1/III
ADR 4.1/III · IMDG 4.1/III · IATA 4.1/III
WGK 1
Storage RT

Warning



H228 H317

131346 Hexamethylenetetramine (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Acidim.) (a.d.s.) .....99.0 %
Identity ..... IR passes test
pH of 10 % solution 8.0-9.5

Maximum limit of impurities
Insoluble matter in H_2O .....0.01 %
Loss on drying .....2.0 %
Residue on ignition (as SO_4) .....0.05 %
Chloride (Cl) ..... 0.002 %

Sulfate (SO_4) .....0.005 %
Heavy metals (as Pb) .....0.001 %

Metals by ICP [in mg/Kg (ppm)]

Al	5	B	5	K	5
Ba	5	Be	5	Mn	5
Ca	5	Cd	5	Ni	10
Co	5	Cr	5	Pt	5
Cu	10	Fe	10	Se	5
Ge	5	In	5	Sn	5
				Ti	5
				V	5
				Zr	5

Mg	5
Mo	5
Pb	10
Sb	5
Si	5
Sr	5
Tl	5
Zn	5

Code	Packaging
131346.1210	500 g
131346.1211	1000 g

141346 Hexamethylenetetramine pure

Specifications
Assay (Acidim.) (a.d.s.) ..... 99.0-100.5 %
Identity .....IR passes test
Insoluble matter in H_2O .....0.01 %
Loss on drying .....2.0 %

Residue on ignition (as SO_4) .....0.05 %
Chloride (Cl) .....0.005 %
Sulfate (SO_4) .....0.01 %
Heavy metals (as Pb) .....0.001 %

Code	Packaging
141346.1210	500 g
141346.1211	1000 g
141346.0416	25 kg

НевАреактив

Hexamethylpararosaniline Chloride see Crystal Violet (C.I. 42555)

Hexamine see Hexamethylenetetramine

Hexamminecobalt(III) Chloride

Cobalthexammine Trichloride

$(NH_3)_6CoCl_3$
M = 267.48 g/mol
CAS 10534-89-1
EINECS 234-103-9
CS 28273930

Solid

Storage RT

Warning



H315 H319 H335

A3492 Hexamminecobalt(III) Chloride for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99 %
pH (0.1 M; H_2O; 25 °C) 3-6
Phosphatases ..... not detectable

Code	Packaging
A3492,0025	25 g

n-Hexane

C_6H_{14}
M = 86.18 g/mol
CAS 110-54-3
EINECS 203-777-6
CS 29011000
Index Nr. 601-037-00-0

Melting Point ..... -95 °C
Boiling Point ..... 69 °C
Density ..... 0.661 kg/l
Refractive Index n20/D 1.3751
Liquid

UN1208
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H225 H315 H373 H361f H304 H336 H411

362063 n-Hexane for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 99.0 %
Density 20/4 ..... 0.660-0.662

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0003 %
Water (H_2O) ..... 0.005 %

Suitability for IR spectrometry: ..... passes test
Fluorescence at 254 nm (as quinine) ..... 2 ppb
Fluorescence at 365 nm (as quinine) ..... 2 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 195 nm (Cut off) ..... ≥ 10 %
Transmittance at 200 nm ..... ≥ 20 %
Transmittance at 210 nm ..... ≥ 60 %
Transmittance at 220 nm ..... ≥ 85 %
Transmittance at 225 nm ..... ≥ 90 %
Transmittance at 230 nm ..... ≥ 94 %

Transmittance at 245-400 nm ..... ≥ 98 %
Data of interest in HPLC:
P' + 0.25 E 0.5
Rohrschneider Polarity 0.1
Eluotropic value e° (Al_2O_3) 0.01
Sol. H_2O in solv. at 20 °C 0.01
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
362063.1611	1000 ml
362063.1612	2.5 l

132063 n-Hexane (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Density 20/4 ..... 0.659-0.663
Range of Distillation (> 95 % dist.) ... 67-69 °C
Refractive Index n20/D 1.375-1.376

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %

Darkened substances by H_2SO_4 ... passes test
Sulfur compounds (as S) ..... 0.005 %
Aromatic hydrocarbons (as C_6H_6)
(U.V.) ..... 0.01 %
Thiophene ..... passes test
Water (H_2O) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5
As	0.05	Au	0.05
B	0.2	Ba	0.1
Be	0.02	Bi	0.05
Ca	0.5	Cd	0.05
Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Ga	0.02	Ge	0.05
Hg	0.05	In	0.05
K	0.1	Li	0.05
Mg	0.1	Mn	0.02
Mo	0.02	Na	0.5
Ni	0.02		

Code	Packaging
132063.1611	1000 ml
132063.1612	2.5 l
132063.0314	5 l
132063.0616	25 l

142063 n-Hexane pure

Specifications
Assay (G.C.) ..... 98 %
Identity ..... IR passes test
Density 20/4 ..... 0.660-0.662
Acidity ..... 0.001 meq/g

Non-volatile matter ..... 0.005 %
Sulfur compounds (as S) ..... 0.01 %
Water (H_2O) ..... 0.02 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %

Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
142063.1611	1000 ml
142063.1612	2.5 l
142063.3514	5 l

n-Hexane 95 %

C_6H_{14}
M = 86.18 g/mol
CAS 110-54-3
EINECS 203-777-6
CS 29011000
Index Nr. 601-037-00-0

Melting Point ..... -95 °C
Boiling Point ..... 69 °C
Density ..... 0.663 kg/l
Refractive Index n20/D 1.3751
Liquid

UN1208
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H225 H315 H373 H361f H304 H336 H411

363242 n-Hexane 95 % for UV, IR, HPLC, ACS

Specifications
Minimum assay (en n-Hexane)
(G.C.) ..... 95.0 %
Minimum assay (as isomers) (G.C.) .... 98.5 %

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.0003 %
Sulfur compounds (as S) ..... 0.005 %

Thiophene (C_4H_4S) ..... passes test
Water (H_2O) ..... 0.01 %
Suitability for IR spectrometry: ..... passes test
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 195 nm (Cut off) ..... ≥ 10 %
Transmittance at 200 nm ..... ≥ 20 %
Transmittance at 210 nm ..... ≥ 60 %
Transmittance at 220 nm ..... ≥ 80 %
Transmittance at 230 nm ..... ≥ 94 %
Transmittance at 245-400 nm ..... ≥ 98 %

Data of interest in HPLC:
P' + 0.25 E 0.5
Rohrschneider Polarity 0.1
Eluotropic value e° (Al_2O_3) 0.01
Sol. H_2O in solv. at 20 °C 0.01
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
363242.1611	1000 ml
363242.1612	2.5 l
363242.0537	30 l

323242 n-Hexane 95 % for pesticide analysis

Specifications
Minimum assay (en n-Hexane)
(G.C.) ..... 95.0 %
Minimum assay (as isomers) (G.C.) .... 98.5 %
Identity ..... IR passes test

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.01 %
Signal ECD of pesticide (Lindane a DDT)
(as Lindane) ..... 5 ng/l
Signal FID of 2-Octanol to Tetradecanol
(as 2-Octanol) ..... passes test

Code	Packaging
323242.1611	1000 ml
323242.1612	2.5 l
323242.0515	10 l
323242.0516	25 l
323242.0537	30 l

HeBaPeaKTMB

133242 n-Hexane 95 % for analysis, ACS

Specifications
Minimum assay (en n-Hexane) (G.C.) ..... 95.0 %
Minimum assay (as isomers) (G.C.) ..... 98.5 %
Identity ..... IR passes test

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 ..... passes test

Sulfur compounds (as S) ..... 0.005 %
Aromatic hydrocarbons (C_6H_6) (U.V.) ..... 0.01 %
Thiophene (C_4H_4S) ..... passes test
Water (H_2O) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
Al 0.5
As 0.5
Au 0.1
B 0.02
Ba 0.1
Be 0.02
Bi 0.05
Ca 0.5
Cd 0.05
Co 0.02
Cr 0.02
Cu 0.02
Fe 0.1
Ga 0.02
Ge 0.05
Hg 0.05
In 0.05
K 0.1
Li 0.05
Mg 0.1
Mn 0.02
Mo 0.02
Na 0.5
Ni 0.02
P 0.2
Pb 0.1

Code	Packaging
133242.1611	1000 ml
133242.1612	2.5 l
133242.0537	30 l

143242 n-Hexane 95 % pure

Specifications
Assay (en n-Hexane) (G.C.) ..... 95 %
Identity ..... IR passes test
Acidity ..... 0.001 meq/g
Non-volatile matter ..... 0.005 %
Sulfur compounds (as S) ..... 0.01 %
Water (H_2O) ..... 0.02 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
143242.1611	1000 ml
143242.1612	2.5 l
143242.0516	25 l
143242.0616	25 l
143242.3516	25 l

163242 n-Hexane 95 % for synthesis

Specifications
Minimum assay (en n-Hexane) (G.C.) ..... 95 %
Minimum assay (as isomers) (G.C.) ..... 98.5 %
Identity ..... IR passes test
Non-volatile matter ..... 0.002 %
Water (H_2O) ..... 0.01 %

Code	Packaging
163242.1612	2.5 l

iso-Hexane (n-Hexane < 5 %)

2-Methyl Pentane

C_6H_{14}
M = 86.18 g/mol
CAS 107-83-5
EINECS 203-523-4
CS 29011000
Index Nr. 601-007-00-7

Melting Point ..... -154 °C
Boiling Point ..... 60 °C
Density ..... 0.65 kg/l (20 °C)
Liquid

UN1208
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H225 H304 H315 H336 H411

365261 iso-Hexane for HPLC

Specifications
Assay (G.C.) ..... min. 95 %
Acidity/Alkalinity ..... max. 0.0005 meq/g
Non-volatile matter ..... max. 0.0005 %

Water (K.F.) ..... max. 0.01 %
A (1 cm/water HPLC grade)
210 nm ..... max. 0.3
220 nm ..... max. 0.15
230 nm ..... max. 0.1
240 nm ..... max. 0.05

Code	Packaging
365261.1612	2.5 L

145261 iso-Hexane pure

Specifications
Assay ..... min. 95 %
n-Hexane ..... max. 5 %

Cu ..... max. 0.00001 %
Fe ..... max. 0.00001 %
Pb ..... max. 0.00001 %
Water (K.F.) ..... max. 0.05 %
Zn ..... max. 0.00001 %

Code	Packaging
145261.1612	2.5 L

Hexane, alkanes mixture

C_6H_{14}
M = 86.18 g/mol
CAS 92112-69-1
EINECS 295-570-2
CS 29011000

Melting Point ..... -95 °C
Boiling Point ..... 60-70 °C
Density ..... 0.67 kg/l
Liquid

UN1208
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H225 H315 H411 H304 H336

361347 Hexane, alkanes mixture for HPLC

Specifications
Minimum assay (as isomers C_6H_{14}) (G.C.) ..... 95.0 %

Maximum limit of impurities
Acidity ..... 0.0003 meq/g

Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.01 %
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 200 nm (Cut off) ..... ≥ 10 %
Transmittance at 210 nm ..... ≥ 40 %
Transmittance at 220 nm ..... ≥ 85 %
Transmittance at 254-400 nm ..... ≥ 99 %
For critical jobs, purge with nitrogen. Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361347.1611	1000 ml
361347.1612	2.5 l

321347 Hexane, alkanes mixture for pesticide analysis

Specifications
Minimum assay (as isomers C_6H_{14}) (G.C.) ..... 95.0 %

Maximum limit of impurities
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.0005 %

Water (H_2O) ..... 0.01 %
Signal ECD of pesticide (Lindane a DDT) (as Lindane) ..... 5 ng/l

Code	Packaging
321347.1611	1000 ml
321347.1612	2.5 l

121347 Hexane, alkanes mixture for analysis

Specifications
Minimum assay (as isomers C_6H_{14}) (G.C.) ..... 95.0 %

Maximum limit of impurities
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 .. passes test
Sulfur compounds (as S) ..... 0.005 %
Thiophene ..... passes test

Water (H_2O) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
Al 0.5
As 0.05
Au 0.05
B 0.02
Ba 0.1
Be 0.02
Bi 0.05
Ca 0.5
Cd 0.05
Co 0.02
Cr 0.02
Cu 0.02
Fe 0.1
Ga 0.02
Ge 0.05
Hg 0.05
In 0.05
K 0.1
Li 0.05
Mg 0.1
Mn 0.02
Mo 0.02
Na 0.5
Ni 0.02
P 5.0
Pb 0.1
Pt 0.02
S 0.2
Sb 0.02
Si 0.2

Code	Packaging
121347.1611	1000 ml
121347.1612	2.5 l
121347.0314	5 l
121347.0515	10 l
121347.0316	25 l
121347.0616	25 l
121347.0537	30 l

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141347 Hexane, alkanes mixture pure

Specifications
Assay (as isomers C_6H_{14}) (G.C.) ..... 95 %
Acidity ..... 0.001 meq/g
Non-volatile matter ..... 0.005 %
Sulfur compounds (as S) ..... 0.01 %
Water (H_2O) ..... 0.02 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141347.1611	1000 ml
141347.1612	2.5 l
141347.0314	5 l
141347.0516	25 l

161347 Hexane, 95 % alkanes mixture for synthesis

Specifications
Minimum assay (as isomers C_6H_{14}) (G.C.) ..... 95 %
Non-volatile matter ..... 0.001 %
Water (H_2O) ..... 0.01 %

Code	Packaging
161347.1612	2.5 l
161347.1714	5 l
161347.0515	10 l
161347.0516	25 l
161347.0616	25 l

1-Hexane Sulfonic Acid Sodium Salt

Sodium 1-Hexanesulphonate

$C_6H_{13}NaO_3S$
M = 188.22 g/mol
CAS 2832-45-3
EINECS 220-601-3
CS 29041000

Solubility ..... Soluble in water.
Solid

WGK 1
Storage RT

363428 1-Hexane Sulfonic Acid Sodium Salt for HPLC

for ion pair chromatography

Specifications
Minimum assay (Acidim.) (a.d.s.) ..... 99.0 %
Identity ..... IR passes test
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 200 nm .....≥ 70 %
Transmittance at 220 nm .....≥ 90 %
Transmittance at 250 nm .....≥ 98 %

Code	Packaging
363428.1606	25 g

1-Hexane Sulfonic Acid Sodium Salt 1-hydrate

$C_6H_{13}NaO_3S \cdot H_2O$
M = 206.24 g/mol
CAS 207300-91-2
EINECS 220-601-3
CS 29041000

Solid

Storage RT

367129 1-Hexanes Sulfonic Acid Sodium Salt 1-hydrate for HPLC

Specifications
Assay (titr.) .....min. 99 %
Alkylbromide ..... max. 0.01 %
Solubility (5 %; H_2O) ..... clear, colorless
A (1 cm/0.005 M in water HPLC grade)
200 nm .....max. 0.15
220 nm .....max. 0.06

Code	Packaging
367129.1606	25 g

(2R,3R,4R,5R)-Hexane-1,2,3,4,5,6-hexol see D(-)-Mannitol

Hexanedioic acid see Adipic Acid

Hexylene Glycol see 2-Methyl-2,4-Pentanediol

Iron(II) Sulfate 7-hydrate

Ferrous Sulfate, Green Vitriol

$FeSO_4 \cdot 7H_2O$
M = 278.02 g/mol
CAS 7782-63-0
EINECS 231-753-5
CS 28332980

Melting Point ..... 64 °C
Solubility ..... 400 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H302 H315 H319

131362 Iron(II) Sulfate 7-hydrate for analysis, ACS

Specifications
Minimum assay (Perm.) ..... 99.0 %
pH of 5 % solution 3-4

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.001 %

Phosphate (PO_4) .....0.0005 %
Fe(III) .....0.1 %
As .....0.00004 %

Metals by ICP [in mg/Kg (ppm)]
Be 10
Ca 50
Co 20
Bi 10
Cd 50
Cr 80
Cu..... 10
K..... 20
Mn 300
Na..... 20
Pb..... 5
Ti 10
Hg 10
Mg 20
Mo 10
Ni..... 50
Sr 10
Zn..... 20

Code	Packaging
131362.1210	500 g
131362.1211	1000 g
131362.1214	5 kg
131362.0416	25 kg

141362 Iron(II) Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Cerim.) ..... 99.5-104.5 %
Identity according to Pharmacopoeias: ..... passes test
pH of 5 % solution 3.0-4.0

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.02 %

Phosphate (PO_4) .....0.003 %
Residual solvents (Ph. Eur./USP) .passes test
Fe(III) .....0.3 %
Heavy metals (as Pb) .....0.005 %
As .....0.0003 %
Cr .....0.005 %
Cu .....0.005 %
Hg .....0.0003 %
Mg .....0.025 %
Mn .....0.1 %
Ni .....0.005 %
Pb .....0.001 %
Zn .....0.005 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process. You must not use if it is recovered by yellow-brownish Ferric Sulfate, Basic

Code	Packaging
141362.1210	500 g
141362.1211	1000 g
141362.1214	5 kg
141362.0416	25 kg

201362 Iron(II) Sulfate 7-hydrate (F.C.C.) food grade

Specifications
Assay ($FeSO_4 \cdot 7H_2O$) ..... 99.5-104.5 %
Identity
Sulfate ..... passes test

Iron (ferrous salt) .....passes test
Appearance .....passes test
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 2 ppm

Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201362.1214	5 kg
201362.0416	25 kg

НеВаРеактив

A1035 Iron(II) Sulfate 7-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99.5 %
Heavy metals (as Pb) ..... max. 0.005 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 25 °C) 3.0-4.0
Chloride ..... max. 0.001 %
Phosphate ..... max. 0.001 %
Fe(III) ..... max. 0.02 %
N ..... max. 0.001 %

Code	Packaging
A1035,1000	1 kg

High Density Lipoprotein see Lipoprotein, high density (HDL), human

Histamine Dihydrochloride

2-(4-Imidazolyl) Ethylamine Dihydrochloride

$C_5H_9N_3 \cdot 2HCl$
M = 187.07 g/mol
CAS 56-92-8
EINECS 200-298-4
CS 29332990

Solid

WGK 2
Storage RT

Danger



H315 H317 H319 H334 H335

A4887 Histamine Dihydrochloride BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Loss on drying ..... max. 0.5 %
Sulfated ash ..... max. 0.1 %
Sulfate ..... max. 0.1 %

Code	Packaging
A4887,0005	5 g
A4887,1000	1 kg

A5355 Histamine Dihydrochloride (Ph. Eur.) pure, pharma grade

Specifications
Assay (titr., dried subst.) ..... 98.5-101.0 %
Appearance of solution ..... passes test
Identity ..... passes test
Loss on drying (105 °C) ..... max. 0.5 %
pH (5 %; H_2O) 2.85-3.60
Sulfated ash ..... max. 0.1 %
Histidine (TLC) ..... passes test
Sulfate ..... max. 0.1 %

Code	Packaging
A5355,1000	1 kg

L-Histidine base

L-2-Amino-3-(Imidazolyl-4)-Propionic Acid

$C_6H_9N_3O_2$
M = 155.16 g/mol
CAS 71-00-1
EINECS 200-745-3
CS 29332990

Melting Point ..... 270-275 °C (dec.)
Solubility ..... 42 g/L (H_2O)
Solid

WGK nwg
Storage RT

A3719 L-Histidine base for cell culture

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... min. 99 %
α20 °C/D; 10 %, HCl ..... 11.8-12.8°
pH (2 %; H_2O) 7.0-8.5
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
As ..... max. 0.0001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A3719,5000	5 kg

A3738 L-Histidine base BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 10 %, HCl ..... 11.8-12.8°
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %

Code	Packaging
A3738,0100	100 g
A3738,1000	1 kg

A1341 L-Histidine base (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 11 %, HCl 120 g/L; calc on dried subst. ..... 11.4-12.4°
α25 °C/D; 11 %, 6 M HCl; calc on dried subst. ..... 12.6-14.0°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.2 %
pH (2 %; H_2O; 25 °C) 7.0-8.5
Sulfated ash ..... max. 0.1 %
Ninhydrin positive substances ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.001 %

Code	Packaging
A1341,0100	100 g
A1341,0500	500 g
A1341,1000	1 kg
A1341,5000	5 kg

L-Histidine Hydrochloride 1-hydrate

L-2-Amino-3-(Imidazolyl-4)-Propionic Acid Hydrochloride Monohydrate, (S)-2-Amino-3-(4-Imidazolyl) Propionic Acid mono-Hydrochloride

$C_6H_9N_3O_2 \cdot HCl \cdot H_2O$
M = 209.63 g/mol
CAS 5934-29-2
EINECS 211-438-9
CS 29332990

Solubility ..... 400 g/L (H_2O)
Solid

WGK nwg
Storage RT

A3733 L-Histidine Hydrochloride 1-hydrate BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (G.C.) ..... min. 99 %
α20 °C/D; 10 %, HCl ..... 9.2-10.6°
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Sulfate ..... max. 0.02 %

Code	Packaging
A3733,0100	100 g
A3733,0500	500 g

A1591 L-Histidine Hydrochloride 1-hydrate (Ph. Eur.) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 11 %, HCl 120 g/L; calc on dried subst. ..... 9.2-10.6°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying ..... 7.0-10.0 %
pH (5 %; H_2O) 3.0-5.0
Sulfated ash ..... max. 0.1 %
Ninhydrin positive substances ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.001 %

Code	Packaging
A1591,0050	50 g
A1591,0100	100 g
A1591,0500	500 g
A1591,1000	1 kg

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

НеваРеактив

Histofix® decalcifier 1

CS 38220000

Density .....1.038 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315 H351 H361f

256239 Histofix® decalcifier 1 for clinical diagnosis

(® Registered trade-mark of Panreac Química S.L.U.)
slow decalcifier and fixing agent

Specifications
Suitability: as decalcifier .....passes test

Code	Packaging
256239.1211	1000 ml

Histofix® decalcifier 2

CS 38220000

Density .....1.048 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

256238 Histofix® decalcifier 2 for clinical diagnosis

(® Registered trade-mark of Panreac Química S.L.U.)
medium decalcifier for fixed tissues

Specifications
Suitability: as decalcifier .....passes test

Code	Packaging
256238.1211	1000 ml

Histofix® decalcifier 3

CS 38220000

Density .....1.046 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

256237 Histofix® decalcifier 3 for clinical diagnosis

(® Registered trade-mark of Panreac Química S.L.U.)
fast decalcifier for fixed tissues

Specifications
Suitability: as decalcifier .....passes test

Code	Packaging
256237.1211	1000 ml

Histofix® marrow decalcifier

CS 38220000

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
Storage RT

Danger



H331 H311 H301 H373 H412

256284 Histofix® marrow decalcifier for clinical diagnosis

(® Registered trade-mark of Panreac Química S.L.U.)

Specifications
Comprised of:
3x100 ml Solution A fixative
3x100 ml Solution B decalcifier

Code	Packaging
256284.0922	pack

Histofix® Preservative ready to use

CS 38220000

Density .....1.019 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

Warning



H351 H317

256462 Histofix® Preservative ready to use for clinical diagnosis

Specifications
Assay (Iodom.) ..... 3.7-4.0 %
pH 6.8-7.2
Methanol (w/v) ..... 1-1.5 %

Code	Packaging
256462.0905	45x10 ml
256462.0955	44x20 ml
256462.0962	45x30 ml
256462.0961	45x40 ml
256462.0967	24x75 ml
256462.0943	16x125ml
256462.0944	12x200ml
256462.09149	10x600ml
256462.09118	1,5 l
256462.0931	3 l

Histofix® Spray fixative

CS 38220000

Density .....0.825 kg/l
Solubility ..... Miscible with alcohol and water
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225

256700 Histofix® Spray fixative for clinical diagnosis

(® Registered trade-mark of Panreac Química S.L.U.)

Composition:
Polyethylene Glycol 6000 ..... 50 gr.
Water ..... 75 ml
Ethanol s.q.m .....925 ml

Code	Packaging
256700.3408	6X100ml

Histofluid®

CS 38220000

Boiling Point ..... 137 °C
Density .....0.950 kg/l
Solubility ..... Insoluble in water
Liquid

UN1866
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
Storage RT

Danger



H225 H332 H312 H315

255598 Histofluid®, mounting medium for clinical diagnosis

(® Registered trade-mark of Paul Marienfeld GmbH&Co.KG)
for microscopy, mounting medium

Specifications
Refractive Index n20/D 1.493-1.496

Code	Packaging
255598.0010	500 ml

Hoechst 33258 see Bisbenzimide H33258

Hoechst 33342 see Bisbenzimide H33342

HPBCD see 2-Hydroxypropyl-β-Cyclodextrin

Hyaluronidase

Origin from ovine testes

CAS 37326-33-3
EINECS 253-464-3
CS 35079090

Solid

Storage -20 °C

A1937 Hyaluronidase Grade I

Specifications
Activity ..... min. 500 U/mg material
salt-free, freeze-dried

Code	Packaging
A1937,0001	1 g
A1937,0005	5 g
A1937,0010	10 g
A1937,0100	100 g

Hydrazine di-Hydrochloride see Hydrazinium di-Chloride

Hydrazine Hydrate see Hydrazinium Hydroxide 80 %

Hydrazinium di-Chloride

Hydrazine di-Hydrochloride

H_2N-NH_2 · 2HCl
M = 104.97 g/mol
CAS 5341-61-7
EINECS 226-283-2
CS 28251000
Index Nr. 007-014-00-6

Melting Point ..... 198 °C
Boiling Point ..... 200 °C
Solubility ..... water 272 g/l at 32 °C
Solid

UN3288
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H350 H331 H311 H301 H317 H410

122595 Hydrazinium di-Chloride (Reag. USP) for analysis

Specifications
Minimum assay (Iodom.) .....99.0 %
Identity .....IR passes test

Maximum limit of impurities
Insoluble matter in H_2O .....0.01 %
Residue on ignition (as SO_4) .....0.05 %
Sulfate (SO_4) .....0.002 %
Ca .....0.001 %
Cd .....0.0005 %
Co .....0.0005 %
Cr .....0.0005 %
Cu .....0.0005 %
Fe .....0.0005 %
K .....0.005 %
Mg .....0.0005 %
Mn .....0.0005 %
Na .....0.005 %
Ni .....0.0005 %
Pb .....0.0005 %
Zn .....0.0005 %

Code	Packaging
122595.0416	25 kg

Hydrazinium Hydroxide 80 %

Hydrazine Hydrate

H_4N_2 · H_2O
M = 50.06 g/mol
CAS 10217-52-4
EINECS 206-114-9
CS 28251000
Index Nr. 007-008-00-3

Melting Point ..... -51 °C
Boiling Point ..... 119 °C
Density .....1.030 kg/l
Solubility ..... Soluble in water.
Liquid

UN2030
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
Storage RT

Danger



H350 H331 H311 H301 H314 H317 H410

121349 Hydrazinium Hydroxide 80 % for analysis

Specifications
Minimum assay (Iodom.) .....80.0 %

Maximum limit of impurities
Chloride (Cl) .....0.003 %
Sulfate (SO_4) .....0.005 %
Cu .....0.0005 %
K .....0.005 %
Na .....0.015 %
Ni .....0.0005 %
Pb .....0.0005 %

Code	Packaging
121349.1214	5 l

HeBaPeakTMB

Hydrazinium Sulfate

Hydrazine Sulfate

$H_2N\text{-}NH_2 \cdot H_2SO_4$
M = 130.12 g/mol
CAS 10034-93-2
EINECS 233-110-4
CS 28251000
Index Nr. 007-014-00-6

Melting Point ..... 254 °C
Solubility ..... water 34.1 g/l at 25 °C
Solid

UN3288
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H350 H331 H311 H301 H317 H410

131350 Hydrazinium Sulfate for analysis, ACS

Specifications
Minimum assay (Iodom.) ..... 99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4) ..... 0.02 %

Chloride (Cl) ..... 0.001 %
Heavy metals (as Pb) ..... 0.001 %

Metals by ICP [in mg/Kg (ppm)]

Ba	5	Be	5
Cd	5	Co	5
Cu	10	Fe	10
In	5	Mn	5
Ni	10	Pb	10
Si	5	Sr	5

Code	Packaging
131350.1210	500 g

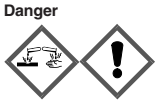
Hydrobromic Acid 48 %

HBr
M = 80.92 g/mol
CAS 10035-10-6
EINECS 233-113-0
CS 28111910
Index Nr. 035-002-01-8

Boiling Point ..... 126 °C
Density ..... 1.49 kg/l
Liquid

UN1788
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 3
Storage RT

Danger



H314 H335

131017 Hydrobromic Acid 48 % for analysis, ACS, ISO

Specifications
Assay (Acidim.) ..... 47.0-49.0 %
Density 20/4 ..... ≥ 1.49

Maximum limit of impurities
Residue on ignition (as SO_4) ..... 0.002 %
Chloride (Cl) ..... 0.03 %
Phosphate (PO_4) ..... 0.0005 %
Iodide (I) ..... 0.002 %
Sulfate and sulfite (as SO_4) ..... 0.003 %

Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.01	Al	0.1
As	0.5	Au	0.1
B	0.1	Ba	0.1
Be	0.02	Bi	0.05
Ca	0.5	Cd	0.05
Co	0.02	Cr	0.1
Cu	0.02	Fe	0.1
Ga	0.05	Ge	0.02
Hg	0.1	In	0.05
K	0.5	Li	0.02
Mg	0.1	Mn	0.05
Mo	0.02	Ni	0.02
Pb	0.02	Pt	0.1
Sb	0.02	Se	0.01
Si	0.1	Sn	0.05

Code	Packaging
131017.1611	1000 ml

141017 Hydrobromic Acid 48 % pure

Specifications
Assay (Acidim.) ..... 48 %
Density 20/4 ..... ≥ 1.49
Residue on ignition (as SO_4) ..... 0.01 %
Chloride (Cl) ..... 0.05 %

Phosphate (PO_4) ..... 0.001 %
Sulfate and sulfite (as SO_4) ..... 0.01 %
As ..... 0.00005 %
Ca ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Mg ..... 0.005 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141017.1611	1000 ml

Hydrochloric Acid 37 %

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000
Index Nr. 017-002-00-2

Liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314 H335

381020 Hydrochloric Acid 37 % for trace metal analysis (ppm)

Specifications
Assay (titr.) ..... 36-38 %
Total P ..... max. 0.2 ppm
Total S ..... max. 0.5 ppm
Ca ..... max. 0.2 ppm

Cr ..... max. 0.005 ppm
Cu ..... max. 0.01 ppm
Fe ..... max. 0.1 ppm
K ..... max. 0.2 ppm
Mg ..... max. 0.02 ppm
Na ..... max. 1 ppm
Ni ..... max. 0.01 ppm
Pb ..... max. 0.005 ppm
Zn ..... max. 0.05 ppm

Code	Packaging
381020.1611	1 L
381020.1612	2.5 L

471020 Hydrochloric Acid 37 % (max. 0.0000005 % Hg) for analysis, ACS, ISO

Specifications
Assay (Acidim.) ..... 36.5-38.0 %
Density 15/4 ..... ≥ 1.19

Maximum limit of impurities
APHA colour 10
Appearance ..... passes test
Residue on ignition (as SO_4) ..... 0.0005 %
Chlorine (Cl) ..... 0.0001 %
Ammonium (NH_4) ..... 0.0003 %

Bromide (Br) ..... 0.005 %
Sulfate (SO_4) ..... 0.0001 %
Sulfite (SO_3) ..... 0.0001 %
Extractable organic substances ..... passes test
Heavy metals (as Pb) ..... 0.0001 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.1
As	0.01	Au	0.1
B	0.2	Ba	0.05
Be	0.02	Bi	0.05
Ca	0.5	Cd	0.01
Co	0.01	Cr	0.02
Cu	0.02	Fe	0.1
Ga	0.05	Ge	0.02
Hg	0.0000005 %	In	0.05
K	0.1	Li	0.02
Mg	0.1	Mn	0.01
Mo	0.01	Na	0.5
Ni	0.02	Pb	0.02

Code	Packaging
471020.1611	1000 ml
471020.1612	2.5 l

131020 Hydrochloric Acid 37 % for analysis, ACS, ISO

Specifications
Assay (Acidim.) ..... 36.5-38.0 %
Density 15/4 ..... ≥ 1.19

Maximum limit of impurities
APHA colour 10
Appearance ..... passes test
Residue on ignition (as SO_4) ..... 0.0005 %
Chlorine (Cl) ..... 0.0001 %
Ammonium (NH_4) ..... 0.0003 %
Bromide (Br) ..... 0.005 %

Phosphate (PO_4) ..... 0.00005 %
Sulfate (SO_4) ..... 0.0001 %
Sulfite ..... 0.0001 %
Extractable organic substances ..... passes test
Heavy metals (as Pb) ..... 0.0001 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.1
As	0.01	Au	0.1
B	0.2	Ba	0.05
Be	0.02	Bi	0.05
Ca	0.5	Cd	0.01
Co	0.01	Cr	0.02
Cu	0.02	Fe	0.2
Ga	0.05	Ge	0.02
Hg	0.1	In	0.05
K	0.1	Li	0.02
Mg	0.1	Mn	0.01
Mo	0.01	Na	0.5
Ni	0.02		

Code	Packaging
131020.1211	1000 ml
131020.1611	1000 ml
131020.1212	2.5 l
131020.1612	2.5 l
131020.1214	5 l
131020.0716	25 l
131020.0819	200 l

Printed on FSC® certified paper from well managed forests

141020 Hydrochloric Acid 37 % (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 36.5-38.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Non-volatile matter ..... 0.01 %
Residue on ignition (as SO_4) ..... 0.005 %
Chlorine (Ph. Eur.) ..... 0.0004 %
Ammonium (NH_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.0005 %
Sulfate (SO_4) (USP-NF) ..... passes test
Sulfite (USP-NF) ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Bromine or Chlorine (USP-NF) ..... passes test
Bromide or Iodide (USP-NF) ..... passes test
Heavy metals (as Pb) ..... 0.0002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141020.1211	1000 ml
141020.1611	1000 ml
141020.1212	2,5 l
141020.1612	2.5 l
141020.1214	5 l
141020.0716	25 l

201020 Hydrochloric Acid 37 % (E-507, F.C.C.) food grade

Specifications
Assay, not less than ..... 23 °Bé
Concentration of HCl, not less than ..... 37 %
Identity
Chloride ..... passes test
Specific gravity, not less than 1.19
Non-volatile residue, not more than ..... 0.5 %
Reducing substances (as SO_2),
not more than ..... 0.007 %
Sulfate (SO_4), not more than ..... 0.5 %
Color ..... passes test
Oxidizing substances (as Cl2),
not more than ..... 0.003 %
Extractable organic compounds: Total
org.comp. (Non-Fluorine-cont),
not more than ..... 5 ppm
Including:
Benzene, not more than ..... 0.05 ppm
Fluorinated org. compounds (total),
not more than ..... 25 ppm
Arsenic, not more than ..... 1 ppm
Mercury, not more than ..... 0.10 ppm
Lead, not more than ..... 1 ppm
Iron, not more than ..... 5 ppm
Heavy metals (as Pb), not more than .... 1 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201020.0716	25 l

211020 Hydrochloric Acid 37 % technical grade

Specifications
Assay (Acidim.) ..... 36.5-39 %
Density 15/4 ..... 1.185-1.195
Ammonium (NH_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %
As ..... 0.0003 %
Fe ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
211020.1611	1000 ml
211020.1212	2,5 l
211020.1214	5 l
211020.0716	25 l

Hydrochloric Acid 35 %

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000
Index Nr. 017-002-01-X

Melting Point ..... -26 °C
Boiling Point ..... 85 °C
Density ..... 1.185 kg/l
Liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314 H335

711019 Hydrochloric Acid 35 % for trace metal analysis (ppt)

Specifications
Assay (Acidim.) ..... 32-35 %

Metals by ICP (in ppt)

Ag	10	Al	20	Ca	10	Cd	10
As	50	Au	50	Ce	10	Co	10
B	100	Ba	10	Cr	10	Cs	10
Be	10	Bi	10	Cu	10	Dy	1
				Er	1	Eu	1
				Fe	10	Ga	10
				Gd	1	Hf	10
				Hg	50	Ho	1
				In	1	K	10
				La	1	Li	10
				Lu	10	Mg	10
				Mn	10	Mo	10
				Na	10	Nb	1
				Nd	1	Ni	20
				Pb	10		

Code	Packaging
711019.0009	250 ml
711019.0010	500 ml

721019 Hydrochloric Acid 35 % for trace metal analysis (ppb)

Specifications
Assay (Acidim.) ..... 34-37 %

Maximum limit of impurities
APHA colour 10
Chlorine Free (Cl) ..... 0.00005 %
Bromide (Br) ..... 0.001 %
Total Sulfur ..... 0.00003 %
Total Phosphorus ..... 0.000001 %

Metals by ICP (ppb)

Ag	1	Al	1	Er	0.1	Eu	0.1
As	0.5	Au	0.5	Fe	1	Ga	0.1
B	1	Ba	0.1	Gd	0.1	Hf	0.1
Be	0.1	Bi	0.1	Hg	0.1	Ho	0.1
Ca	1	Cd	0.1	In	0.1	K	1
Ce	0.1	Co	0.1	La	0.1	Li	0.1
Cr	0.5	Cs	0.1	Lu	0.1	Mg	0.5
Cu	0.5	Dy	0.1	Mn	0.1	Mo	0.1

Code	Packaging
721019.0010	500 ml
721019.0011	1000 ml
721019.0012	2.5 l

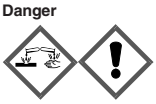
Hydrochloric Acid 30-32 %

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000
Index Nr. 017-002-00-2

Liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314 H335

382176 Hydrochloric Acid 30 % for trace metal analysis (ppm)

Specifications
Assay (titr.) ..... min. 30 %
Total P ..... max. 0.2 ppm
Total S ..... max. 0.5 ppm
Total Si ..... max. 0.5 ppm
Ca ..... max. 0.2 ppm
Cr ..... max. 0.005 ppm
Cu ..... max. 0.01 ppm
Fe ..... max. 0.1 ppm
K ..... max. 0.2 ppm
Mg ..... max. 0.02 ppm
Na ..... max. 1 ppm
Ni ..... max. 0.005 ppm
Pb ..... max. 0.001 ppm
Zn ..... max. 0.02 ppm

Code	Packaging
382176.1611	1 L

132176 Hydrochloric Acid 32 % for analysis, ISO

Specifications
Minimum assay (Acidim.) ..... 32 %
Density 15/4 ..... ≥ 1.16

Maximum limit of impurities
APHA colour 10
Residue on ignition (as SO_4) ..... 0.0005 %
Chlorine (Cl) ..... 0.0001 %
Ammonium (NH_4) ..... 0.0003 %
B ..... 0.005 %
Phosphate (PO_4) ..... 0.00005 %
Sulfate (SO_4) ..... 0.0001 %
Sulfite (SO_3) ..... 0.0001 %
Heavy metals (as Pb) ..... 0.0001 %
Al ..... 0.00001 %
As ..... 0.000001 %
Ba ..... 0.000005 %
Be ..... 0.000002 %
Ca ..... 0.00005 %
Cd ..... 0.000001 %
Co ..... 0.000001 %
Cr ..... 0.000002 %
Cu ..... 0.000002 %
Fe ..... 0.00002 %
K ..... 0.00001 %
Li ..... 0.000002 %
Mg ..... 0.00001 %
Mn ..... 0.000001 %
Na ..... 0.00005 %
Ni ..... 0.000002 %
Pb ..... 0.000002 %
Sr ..... 0.000002 %
Zn ..... 0.000005 %

Code	Packaging
132176.1211	1000 ml
132176.1611	1000 ml
132176.1212	2,5 l
132176.1612	2.5 l
132176.1214	5 l
132176.0716	25 l

НеваРеактив

142176 Hydrochloric Acid 32 % pure

Specifications
Assay (Acidim.) ..... 32 %
Density 15/4 ..... ≥ 1.165
Residue on ignition (as SO_4) ..... 0.005 %
Chlorine (Cl) ..... 0.001 %
Ammonium (NH_4) ..... 0.001 %
Bromide (Br) ..... 0.01 %
Sulfate (SO_4) ..... 0.0005 %
Sulfite (SO_3) ..... 0.0005 %
As ..... 0.00001 %
Cu ..... 0.0005 %
Fe ..... 0.0001 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
142176.1212	2.5 l
142176.0716	25 l

212176 Hydrochloric Acid 32 % technical grade

Specifications
Assay (titr.) ..... approx. 32 %

Code	Packaging
212176.1212	2.5 L
212176.1214	5 L
212176.0715	10 L
212176.0716	25 L

142794 Hydrochloric Acid 30 % pure

Specifications
Assay (titr.) ..... min. 30 %
Free chlorine ..... max. 0.0004 %
Heavy metals (as Pb) ..... max. 0.0002 %
Identity ..... passes test
Residue after evaporation ..... max. 0.01 %
Sulfate ..... max. 0.002 %
As ..... max. 0.0002 %

Code	Packaging
142794.1212	2.5 L
142794.1214	5 L

Hydrochloric Acid 25 %

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000
Index Nr. 017-002-00-2

Liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314 H335

133378 Hydrochloric Acid 25 % for analysis, ISO

Specifications
Minimum assay (Acidim.) ..... 25.0 %
Density 15/4 ..... ≥ 1.12

Maximum limit of impurities
APHA colour 10
Residue on ignition (as SO_4) ..... 0.0005 %
Chlorine (Cl) ..... 0.0001 %
Ammonium (NH_4) ..... 0.0003 %
Bromide (Br) ..... 0.005 %
Sulfate (SO_4) ..... 0.0001 %
Sulfite (SO_3) ..... 0.0001 %
Heavy metals (as Pb) ..... 0.0001 %
Al ..... 0.00001 %
As ..... 0.000001 %
Ba ..... 0.000005 %
Be ..... 0.000002 %
Ca ..... 0.00005 %
Cd ..... 0.000001 %
Co ..... 0.000001 %
Cr ..... 0.000002 %
Cu ..... 0.000002 %
Fe ..... 0.00002 %
K ..... 0.00001 %
Li ..... 0.000002 %
Mg ..... 0.00001 %
Mn ..... 0.000001 %
Na ..... 0.00005 %
Ni ..... 0.000002 %
Pb ..... 0.000002 %
Sr ..... 0.000002 %
Zn ..... 0.000005 %

Code	Packaging
133378.1211	1000 ml
133378.1611	1000 ml
133378.1212	2,5 l
133378.1612	2.5 l
133378.1214	5 l

143378 Hydrochloric Acid 25 % pure

Specifications
Assay (titr.) ..... min. 25 %
Free chlorine ..... max. 0.0004 %
Heavy metals (as Pb) ..... max. 0.0002 %
Identity ..... passes test
Residue after evaporation ..... max. 0.01 %
Sulfate ..... max. 0.002 %
As ..... max. 0.0002 %

Code	Packaging
143378.1212	2.5 L

213378 Hydrochloric Acid 25 % technical grade

Specifications
Assay (titr.) ..... approx. 25 %

Code	Packaging
213378.1214	5 L
213378.0716	25 L

Hydrochloric Acid 20 %

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000
Index Nr. 017-002-00-2

Liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Warning



H315 H319 H335 H290

122523 Hydrochloric Acid 20 % for analysis

Specifications
Assay (titr.) ..... min. 20 %
Bromide ..... max. 0.005 %
Phosphate ..... max. 0.00005 %
Sulfate ..... max. 0.0001 %
Al ..... max. 0.000005 %
As ..... max. 0.000001 %
Ca ..... max. 0.00005 %
Fe ..... max. 0.00002 %
Na ..... max. 0.00005 %
Ni ..... max. 0.000002 %
Pb ..... max. 0.000002 %
Zn ..... max. 0.000005 %

Code	Packaging
122523.1211	1 L
122523.1214	5 L

142523 Hydrochloric Acid 20 % pure

Specifications
Assay (titr.) ..... min. 20 %
Free chlorine ..... max. 0.0004 %
Heavy metals (as Pb) ..... max. 0.0002 %
Identity ..... passes test
Res. after evaporation ..... max. 0.01 %
Sulfate ..... max. 0.002 %
As ..... max. 0.0002 %

Code	Packaging
142523.1214	5 L

Hydrochloric Acid 15 %

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000
Index Nr. 017-002-00-2

Liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Warning



H315 H319 H335 H290

146316 Hydrochloric Acid 15 % pure

Specifications
Assay (titr.) ..... min. 15 %
Free chlorine ..... max. 0.0004 %
Heavy metals (as Pb) ..... max. 0.0002 %
Identity ..... passes test
Res. after evaporation ..... max. 0.01 %
Sulfate ..... max. 0.002 %
As ..... max. 0.0002 %

Code	Packaging
146316.1214	5 L

Hydrochloric Acid 10 %

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000
Index Nr. 017-002-00-2

Liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Warning



H315 H319 H335 H290

123006 Hydrochloric Acid 10 % for analysis

Specifications
Assay (titr.) ..... min. 10 %
Bromide ..... max. 0.005 %
Phosphate ..... max. 0.00005 %
Sulfate ..... max. 0.0001 %
Al ..... max. 0.000005 %
As ..... max. 0.000001 %
Ca ..... max. 0.00005 %
Fe ..... max. 0.00002 %
Na ..... max. 0.00005 %
Ni ..... max. 0.000002 %
Pb ..... max. 0.000002 %
Zn ..... max. 0.000005 %

Code	Packaging
123006.1211	1 L
123006.1212	2.5 L

143006 Hydrochloric Acid 10 % (Ph. Eur., NF) pure, pharma grade

Specifications
Assay (titr.) ..... 9.5-10.5 % (w/v)
Assay (titr.) ..... 9.5-10.5 % (w/w)
Appearance of substance ..... passes test
Free bromine or chlorine ..... passes test
Free chlorine ..... max. 0.0001 %
Heavy metals (as Pb) ..... max. 0.0002 %
Identity ..... passes test
Non-volatile matter ..... max. 0.01 %
Residue on ignition ..... max. 0.01 %
Sulfate (Ph. Eur.) ..... max. 0.0005 %
Sulfate (USP) ..... passes test
Sulfite ..... passes test

Code	Packaging
143006.1211	1 L
143006.1212	2.5 L
143006.0715	10 L
143006.0716	25 L

213006 Hydrochloric Acid 10 % technical grade

Specifications
Assay (titr.) ..... approx. 10 %

Code	Packaging
213006.1214	5 L
213006.0715	10 L
213006.0716	25 L

Hydrochloric Acid 3.2 %

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000
Index Nr. 017-002-00-2

Liquid

UN1789
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H290

147099 Hydrochloric Acid 3.2 % pure

Specifications
Assay (titr.) ..... min. 3.2 %
Bromide ..... max. 0.01 %
Phosphate ..... max. 0.0001 %
Sulfate ..... max. 0.0005 %
Al ..... max. 0.0005 %
As ..... max. 0.0001 %
Ca ..... max. 0.001 %
Fe ..... max. 0.0002 %
Na ..... max. 0.005 %
Ni ..... max. 0.0005 %
Pb ..... max. 0.0001 %
Zn ..... max. 0.0005 %

Code	Packaging
147099.1214	5 L

Hydrochloric Acid 1.128 % (w/v)

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000
Index Nr. 017-002-00-2

Liquid

UN1789
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H290

127088 Hydrochloric Acid 1.128 % (w/v) for analysis

Specifications
Assay (titr.) ..... 1.126-1.130 %
Bromide ..... max. 0.005 %
Phosphate ..... max. 0.00005 %
Sulfate ..... max. 0.0001 %
Al ..... max. 0.000005 %
As ..... max. 0.000001 %
Ca ..... max. 0.00005 %
Fe ..... max. 0.00002 %
Na ..... max. 0.00005 %
Ni ..... max. 0.000002 %
Pb ..... max. 0.000002 %
Zn ..... max. 0.000005 %

Code	Packaging
127088.1212	2.5 L

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

Hydrochloric Acid 10 mol/l (10N)

HCl
M = 36.46 g/mol
CAS 7647-01-0
CS 28061000
CS 38220000
Index Nr. 017-002-01-X

Liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314 H335

187051 Hydrochloric Acid 10 mol/l (10N) volumetric solution

Specifications
Factor limits 0.995-1.005

Code	Packaging
187051.1211	1 L

Hydrochloric Acid 6 mol/l (6N)

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000
Index Nr. 017-002-01-X

Density .....1.09 kg/l
Liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Warning



H319 H335 H315

182883 Hydrochloric Acid 6 mol/l (6N) volumetric solution

Specifications
Titer at 20 °C ..... 1.000 ± 0.001

Code	Packaging
182883.1211	1000 ml

Hydrochloric Acid 5 mol/l (5N)

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000
Index Nr. 017-002-01-X

Density .....1.09 kg/l
Liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Warning



H319 H335 H315

182109 Hydrochloric Acid 5 mol/l (5N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182109.1211	1000 ml
182109.1215	10 l

Hydrochloric Acid 4 mol/l (4N)

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
Index Nr. 017-002-01-X

Density .....1.065 kg/l
Liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Warning



H319 H335 H315

182552 Hydrochloric Acid 4 mol/l (4N) volumetric solution

Specifications
Titer at 20 °C ..... 1.000 ± 0.001

Code	Packaging
182552.1211	1000 ml
182552.1214	5 l

Hydrochloric Acid 3 mol/l (3N)

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000
Index Nr. 017-002-01-X

Density .....1.046 kg/l
Liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Warning



H319 H335 H315

182057 Hydrochloric Acid 3 mol/l (3N) volumetric solution

for analysis of raw fat

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182057.1211	1000 ml
182057.1214	5 l
182057.1315	10 l

Hydrochloric Acid 2 mol/l (2N)

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000

Density .....1.035 kg/l
Liquid

UN1789
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

182108 Hydrochloric Acid 2 mol/l (2N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182108.1211	1000 ml
182108.1214	5 l
182108.1315	10 l
182108.0716	25 l

Hydrochloric Acid 1 mol (36.461g HCl) to prepare 1l of 1N solution

CAS 7647-01-0
EINECS 231-595-7
CS 28061000
Index Nr. 017-002-01-X

Liquid
Plastic or glass ampoules containing clear colourless liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK nwg
Storage RT

Danger



H314 H335

303112 Hydrochloric Acid 1 mol (36.461g HCl) to prepare 1l of 1N solution

Specifications
Titer at 20 °C 0.998-1.002
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
303112.1920	1 bottle

Hydrochloric Acid 1 mol/l

HCl - Standard volumetric solutions

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 38220000
Index Nr. 017-002-00-2

Liquid

UN1789
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H290

181021 Hydrochloric Acid 1 mol/l (1N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181021.1211	1000 ml
181021.1212	2.5 l
181021.1214	5 l
181021.0715	10 l
181021.1315	10 l
181021.0716	25 l

A6578 Hydrochloric Acid 1 mol/l (1 M) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) .....1 mol/L
Bromide .....max. 0.005 %
Phosphate ..... max. 0.00005 %
Sulfate ..... max. 0.0001 %
Al ..... max. 0.000005 %
As ..... max. 0.000001 %
Ca ..... max. 0.00005 %
Fe ..... max. 0.00002 %
Na .....max. 0.00005 %
Ni .....max. 0.000002 %
Pb .....max. 0.000002 %
Zn .....max. 0.000005 %

Code	Packaging
A6578,0500	500 ml
A6578,1000	1 L

Hydrochloric Acid 1 mol/l (1N)

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000

Density .....1.011 kg/l
Liquid

UN1789
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

186985 Hydrochloric Acid 1 mol/l (1N) (Reag. Ph. Eur.) volumetric solution

Standardised against Sodium Carbonate Indicator: Methyl Orange

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
186985.1211	1000 ml

Hydrochloric Acid 0.5 mol/l (0.5N)

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000

Density .....1.007 kg/l
Liquid

UN1789
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

181022 Hydrochloric Acid 0.5 mol/l (0.5N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181022.1211	1000 ml
181022.1214	5 l
181022.1315	10 l

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Hydrochloric Acid 0.310 mol/l (1.128 % w/v)

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000

Density .....1.005 kg/l
Liquid

UN1789
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

185423 Hydrochloric Acid 0.310 mol/l (1,128 % w/v) volumetric solution

for determination of starch in feed, according to Ewers. Indicator: Methyl Red

Specifications
Titer at 20 °C 0.995-1.005

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
185423.1211	1000 ml
185423.1214	5 l

Hydrochloric Acid 0.25 mol/l (0.25N)

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000

Density .....1.004 kg/l
Liquid

UN1789
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

182318 Hydrochloric Acid 0.25 mol/l (0.25N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
182318.1211	1000 ml
182318.1315	10 l

Hydrochloric Acid 0.1 mol (3.646 g HCl) to prepare 1l of 0.1N solution

CAS 7647-01-0
EINECS 231-595-7
CS 28061000

Liquid
Plastic or glass ampoules containing clear colourless liquid

UN1789
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

303110 Hydrochloric Acid 0.1 mol (3.646g HCl) to prepare 1l of 0.1N solution

Specifications
Titer at 20 °C 0.998-1.002

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
303110.1920	1 bottle

Hydrochloric Acid 0.1 mol/l (0.1N)

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000

Density .....1.001 kg/l
Liquid

UN1789
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

181023 Hydrochloric Acid 0.1 mol/l (0.1N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability ..... NIST

Code	Packaging
181023.1211	1000 ml
181023.1212	2.5 l
181023.1214	5 l
181023.0715	10 l
181023.1315	10 l

Hydrochloric Acid 0.05 mol/l (0.05N)

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000

Density .....1.000 kg/l
Liquid

UN1789
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

182107 Hydrochloric Acid 0.05 mol/l (0.05N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182107.1211	1000 ml

Hydrochloric Acid 0.02 mol/l (0.02N)

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000

Density .....1.000 kg/l
Liquid

UN1789
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

183458 Hydrochloric Acid 0.02 mol/l (0.02N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C .....1.000 ± 0.001

Code	Packaging
183458.1211	1000 ml

Hydrochloric Acid 0.01 mol/l (0.01N)

Muriatic Acid

HCl
M = 36.46 g/mol
CAS 7647-01-0
EINECS 231-595-7
CS 28061000

Density ..... 1.000 kg/l
Liquid

UN1789
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

182884 Hydrochloric Acid 0.01 mol/l (0.01N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182884.1211	1000 ml

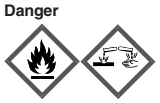
Hydrochloric Acid-Alcohol - Mixture (0.75 % HCl)

CS 38220000

Liquid

UN2924
Class/PG 3(8)/II
ADR 3(8)/II · IMDG 3(8)/II · IATA 3(8)/II
Storage RT

Danger



H225 H290

257097 Hydrochloric Acid-Alcohol - Mixture (0.75 % HCl) solution for clinical diagnosis

Specifications
Hydrochloric Acid ..... 0.75 %

Code	Packaging
257097.1211	1 L

Hydrofluoric Acid 48 %

HF
M = 20.01 g/mol
CAS 7664-39-3
EINECS 231-634-8
CS 28111100
Index Nr. 009-003-00-1

Melting Point ..... -35 °C
Boiling Point ..... 106 °C
Density ..... 1.16 kg/l
Liquid

UN1790
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
WGK 2
Storage RT

Danger



H330 H310 H300 H314

711028 Hydrofluoric Acid 48 % for trace metal analysis (ppt)

Specifications
Assay (Acidim.) ..... 47-51 %

Maximum limit of impurities

Metals by ICP (in ppt)
Ag..... 10
As..... 50
B..... 100
Al..... 20
Au 20
Ba 10
Be 10
Ca 10
Ce 10
Cr.....10
Cu 10
Er.....1
Fe 10
Gd.....1
Hf.....10
Bi 10
Cd.....10
Co.....10
Cs.....10
Dy.....1
Eu.....1
Ga.....10
Ge.....10
Hg.....50
Ho 1
K..... 10
Li 10
Mg..... 10
Mo..... 10
Nb 10
Ni..... 20
In..... 1
La..... 10
Lu..... 1
Mn..... 10
Na 10
Nd 1

Code	Packaging
711028.0010	500 ml

721028 Hydrofluoric Acid 48 % for trace metal analysis (ppb)

Specifications
Assay (Acidim.) ..... 47-51 %

Maximum limit of impurities
APHA colour 10
Chloride (Cl) ..... 0.0004 %
Fluosilicic Acid ..... 0.0020 %
Total Sulfur ..... 0.00001 %
Total Phosphorus ..... 0.000005 %

Metals by ICP (ppb)
Ag 0.5
As 0.5
B 1
Be 0.1
Ca 1
Ce 0.1
Cr.....1
Cu 0.5
Al 1
Au 0.2
Ba 0.1
Bi 0.1
Cd.....0.1
Co.....0.1
Cs.....0.1
Dy.....0.1
Er 0.1
Fe..... 1
Gd 0.1
Hf 0.1
Ho 0.1
K..... 1
Li 0.1
Mg..... 1
Eu 0.1
Ga 0.1
Ge 0.1
Hg 1
In..... 0.1
La..... 0.1
Lu..... 0.1
Mn..... 0.1

Code	Packaging
721028.0010	500 ml

131028 Hydrofluoric Acid 48 % for analysis, ACS, ISO

Specifications
Assay (Acidim.) ..... 48.0-51.0 %

Maximum limit of impurities
Reducing substance to $KMnO_4$ .... passes test
Residue on ignition (as SO_4) ..... 0.0005 %
Chloride (Cl) ..... 0.0005 %
Phosphate (PO_4) ..... 0.0001 %
Fluosilicic acid (F_6H_2Si) ..... 0.01 %
Sulfate and sulfite (as SO_4) ..... 0.0005 %

As ..... 0.000005 %
Heavy metals (as Pb) ..... 0.00005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.04
Au 0.1
Ba 0.2
Bi 0.05
Cd.....0.02
Cr.....0.02
Al 0.1
B 0.05
Be 0.04
Ca.....0.5
Co.....0.04
Cu.....0.04
Fe..... 0.2
Ge 0.02
In 0.05
Li 0.04
Mn..... 0.1
Na 0.2
Pb..... 0.05
Sb..... 0.02
Sn..... 0.05
Ga 0.05
Hg 0.1
K 0.1
Mg..... 0.2
Mo..... 0.02
Ni 0.02
Pt 0.1
Si..... 0.1

Code	Packaging
131028.1210	500 ml
131028.1211	1000 ml
131028.1212	2.5 l
131028.0716	25 l

Hydrofluoric Acid 40 %

HF
M = 20.01 g/mol
CAS 7664-39-3
EINECS 231-634-8
CS 28111100
Index Nr. 009-003-00-1

Boiling Point ..... 112 °C
Boiling Point ..... 106 °C
Liquid

UN1790
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
WGK 2
Storage RT

Danger



H300+H310+H330 H314

133070 Hydrofluoric Acid 40 % for analysis, ISO

Specifications
Assay (Acidim.) ..... 40-42 %

Maximum limit of impurities
Reducing substance to $KMnO_4$ .... passes test
Residue on ignition (as SO_4) ..... 0.0005 %
Chloride (Cl) ..... 0.0005 %
Phosphate (PO_4) ..... 0.0001 %
Fluosilicic acid (F_6H_2Si) ..... 0.01 %
Sulfate and sulfite (as SO_4) ..... 0.0005 %

As ..... 0.000005 %
Heavy metals (as Pb) ..... 0.00005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.04
Au 0.1
Ba 0.2
Bi 0.05
Cd.....0.02
Cr.....0.04
Al 0.1
B 0.05
Be 0.04
Ca.....0.5
Co.....0.04
Cu.....0.04
Fe..... 0.2
Ge 0.02
In 0.05
Li 0.04
Mn..... 0.1
Na 0.4
Pb..... 0.1
Sb..... 0.02
Sn..... 0.05
Ga 0.05
Hg 0.1
K 0.2
Mg..... 0.2
Mo..... 0.02
Ni 0.04
Pt 0.1
Si..... 0.1

Code	Packaging
133070.1211	1000 ml
133070.1212	2.5 l

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

143070 Hydrofluoric Acid 40 % pure

Specifications
Assay (titr.) ..... min. 40 %
Heavy metals (as Pb) ..... max. 0.0005 %
Res. of ignition (as sulfate) ..... max. 0.005 %
Chloride ..... max. 0.002 %
Hexafluorosilicate ..... max. 0.01 %
Sulfate ..... max. 0.001 %
Fe ..... max. 0.001 %

Code	Packaging
143070.1211	1 L
143070.1212	2.5 L

213070 Hydrofluoric Acid 40 % technical grade

Specifications
Assay (Acidim.) ..... 40-42 %
Chloride (Cl) ..... 0.005 %
Fe ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
213070.1211	1000 ml
213070.1212	2.5 l
213070.1214	5 l

Hydrogen Peroxide 50 %

H_2O_2
M = 34.01 g/mol
CAS 7722-84-1
EINECS 231-765-0
CS 28470000
Index Nr. 008-003-00-9

Melting Point ..... -26 °C (30° %)
Boiling Point ..... 107 °C (30 %)
Liquid

UN2014
Class/PG 5.1(8)/II
ADR 5.1(8)/II · IMDG 5.1(8)/II · IATA 5.1(8)/II
WGK 1
Storage RT

Danger



H302+H332 H314 H272 H335

147064 Hydrogen Peroxide 50 % pure

stabilized with 190-220 mg/L Phosphate

Specifications
Assay (titr.) ..... approx. 50 %
Acidic react. subst. ..... max. 0.025 %
Residue on ignition ..... max. 0.05 %

Code	Packaging
147064.1211	1 L
147064.3514	5 L

Hydrogen Peroxide 35 %

H_2O_2
M = 34.01 g/mol
CAS 7722-84-1
EINECS 231-765-0
CS 28470000
Index Nr. 008-003-00-9

Melting Point ..... -26 °C (30 %)
Boiling Point ..... 107 °C (30 %)
Density ..... 1.13 (35 %)
Density ..... 1.13 kg/l (35 %; 20 °C)
Liquid

UN2014
Class/PG 5.1(8)/II
ADR 5.1(8)/II · IMDG 5.1(8)/II · IATA 5.1(8)/II
WGK 1
Storage RT

Danger



H318 H302 H315 H335

137145 Hydrogen Peroxide 35 % for analysis

stabilized

Specifications
Assay (titr.) ..... min. 35 %
Acidic react. subst. ..... max. 0.025 %
Non-volatile matter ..... max. 0.05 %
Cr ..... max. 0.0001 %
Cu ..... max. 0.0001 %
Fe ..... max. 0.0001 %
Ni ..... max. 0.0001 %
Pb ..... max. 0.0001 %
Zn ..... max. 0.0001 %

Code	Packaging
137145.1211	1 L

147145 Hydrogen Peroxide 35 % pure

stabilized

Specifications
Assay (titr.) ..... min. 35 %
Acidic react. subst. ..... max. 0.025 %
Non-volatile matter ..... max. 0.05 %

Code	Packaging
147145.1211	1 L
147145.3514	5 L

217145 Hydrogen Peroxide 35 % technical grade

stabilized

Specifications
Assay (titr.) ..... approx. 35 %
Acidic react. subst. ..... max. 0.2 %

Code	Packaging
217145.3514	5 L
217145.3515	10 L
217145.3516	25 L

Hydrogen Peroxide 33 % w/v

Hydrogen Dioxide, Hydroperoxide

H_2O_2
M = 34.01 g/mol
CAS 7722-84-1
EINECS 231-765-0
CS 28470000
Index Nr. 008-003-00-9

Melting Point ..... -26 °C
Boiling Point ..... 107 °C
Density ..... 1.11 kg/l
Liquid

UN2014
Class/PG 5.1(8)/II
ADR 5.1(8)/II · IMDG 5.1(8)/II · IATA 5.1(8)/II
WGK 1
Storage away from direct light.

Danger



H302 H318

131077 Hydrogen Peroxide 33 % w/v (110 vol.) for analysis, ACS, ISO

Specifications
Assay (in vol. O_2) (Perm.) ..... 110 vol.
Assay (Perm.) w/w ..... 30.0-32.0 %

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0006 meq/g
Non-volatile matter ..... 0.002 %
Chloride (Cl) ..... 0.0001 %
Nitrogen compounds (as N) ..... 0.0004 %
Ammonium (NH_4) ..... 0.0005 %
Phosphate (PO_4) ..... 0.0002 %
Sulfate (SO_4) ..... 0.0005 %
Nitrate (NO_3) ..... 0.0002 %
Heavy metals (as Pb) ..... 0.0001 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.1	Be	0.02
As	0.5	Au	0.1	Ca	0.5
B	0.5	Ba	0.1	Co	0.02
Bi	0.05	Cd	0.05	Cr	0.02
Cu	0.02	Fe	0.1	Ga	0.05
Ge	0.05	Hg	0.1	In	0.05
K	1	Li	0.02	Mg	0.1
Mn	0.02	Mo	0.02	Na	1
Ni	0.05	Pb	0.1		

Code	Packaging
131077.1209	250 ml
131077.1211	1000 ml
131077.1212	2,5 l
131077.1214	5 l

141077 Hydrogen Peroxide 33 % w/v (110 vol.) stabilized (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (in vol. O_2) (Perm.) ..... 110 vol.
Assay (Perm.) w/w ..... 29.0-31.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Acidity ..... passes test
Non-volatile matter ..... 0.05 %
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.005 %
Sulfate (SO_4) ..... 0.001 %
Residual solvents (Ph. Eur./USP) ..... passes test
Organic stabilizers ..... 0.05 %
Heavy metals (as Pb) ..... 0.0001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.00005 %

Code	Packaging
141077.1211	1000 ml
141077.1214	5 l
141077.0716	25 l

НеВаРеактив

211077 Hydrogen Peroxide 33 % w/v (110 vol.) stabilized technical grade

Specifications
Assay (Perm.) w/v .....33 %
Assay (in vol. O2) (Perm.) ..... 110 vol.
Chloride (Cl) .....0.01 %
Sulfate (SO_4) .....0.01 %

Code	Packaging
211077.1214	5 l
211077.0716	25 l
211077.0718	60 l

Hydrogen Peroxide 30 % w/w

Hydrogen Dioxide, Hydroperoxide

H_2O_2
M = 34.01 g/mol
CAS 7722-84-1
EINECS 231-765-0
CS 28470000
Index Nr. 008-003-00-9

Density .....1.11 kg/l
Liquid

UN2014
Class/PG 5.1(8)/II
ADR 5.1(8)/II · IMDG 5.1(8)/II · IATA 5.1(8)/II
WGK 1
Storage RT

Danger



H302 H318

716323 Hydrogen Peroxide 30 % w/w for trace metal analysis (ppt)

Specifications
Assay (H_2O_2 w/w) ..... 30-32 %

Maximum limit of impurities
Metals (ppt)

Ag	10	Al	50	Be	10	Bi	10
As	100	Au	10	Ca	100	Cd	10
B	100	Ba	10	Ce	1	Co	10
				Cr	10	Cs	1
				Cu	10	Dy	1
				Er	1	Eu	1
				Fe	20	Ga	10
				Gd	1	Ge	10

Hf	1	Hg	50
Ho	1	In	1
K	20	La	1
Li	10	Lu	1
Mg	20	Mn	10
Mo	10	Na	50
Nb	10	Nd	1
Ni	20		

Code	Packaging
716323.0010	500 ml

Hydrogen Peroxide 30 % (w/v)

Hydrogen Dioxide, Hydroperoxide

H_2O_2
M = 34.01 g/mol
CAS 7722-84-1
EINECS 231-765-0
CS 28470000
Index Nr. 008-003-00-9

Melting Point .....-26 °C
Boiling Point ..... 107 °C
Density .....1.10 kg/l
Liquid

UN2014
Class/PG 5.1(8)/II
ADR 5.1(8)/II · IMDG 5.1(8)/II · IATA 5.1(8)/II
WGK 1
Storage RT

Danger



H302 H318

121076 Hydrogen Peroxide 30 % w/v (100 vol.) for analysis

Specifications
Minimum assay (Perm.) w/v .....30.0 %
Assay (in vol. O_2) (Perm.) ..... 100 vol.

Maximum limit of impurities
APHA colour 10
Acidity .....0.0008 meq/g
Non-volatile matter ..... 0.005 %
Chloride (Cl) ..... 0.0001 %
Nitrogen compounds (as N) ..... 0.001 %

Phosphate (PO_4) .....0.0005 %
Sulfate (SO_4) .....0.0005 %
Heavy metals (as Pb) .....0.0001 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.2
As	0.5	Au	0.1
B	0.5	Ba	0.1
Be	0.02	Bi	0.05
Ca	0.5	Cd	0.05

Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Ga	0.05	Ge	0.05
Hg	0.1	In	0.05
K	5	Li	0.02
Mg	0.1	Mn	0.02
Mo	0.02	Na	10
Ni	0.05	Pb	0.1
Pt	0.1	Sb	0.02

Code	Packaging
121076.1211	1000 ml
121076.1214	5 l

141076 Hydrogen Peroxide 30 % w/v (100 vol.) stabilized pure

Specifications
Assay (Perm.) w/v .....30 %
Assay (in vol. O_2) (Perm.) ..... 100 vol.
Acidity .....0.012 meq/g
Non-volatile matter .....0.05 %

Chloride (Cl) .....0.005 %
As .....0.00005 %
Cu .....0.001 %
Fe .....0.0005 %

Ni .....0.001 %
Pb .....0.001 %

Code	Packaging
141076.1210	500 ml
141076.1211	1000 ml
141076.1214	5 l

Hydrogen Peroxide 10 % w/w

H_2O_2
M = 34.01 g/mol
CAS 7722-84-1
EINECS 231-765-0
CS 28470000
Index Nr. 008-003-00-9

Melting Point .....-26 °C (30° %)
Boiling Point ..... 107 °C (30 %)
Liquid

UN2984
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage RT

Danger



H302 H318

125513 Hydrogen Peroxide 10 % w/w for analysis

stabilized

Specifications
Assay (titr.) ..... approx. 10 %

Acidic react. subst. ..... max. 0.005 %
Cr .....max. 0.0001 %
Cu .....max. 0.0001 %
Fe .....max. 0.0001 %

Ni .....max. 0.0001 %
Pb .....max. 0.0001 %
Zn .....max. 0.0001 %

Code	Packaging
125513.1211	1 L

Hydrogen Peroxide 6 % stabilized

Hydrogen Dioxide, Hydroperoxide

H_2O_2
M = 34.01 g/mol
CAS 7722-84-1
EINECS 231-765-0
CS 28470000
Index Nr. 008-003-00-9

Density .....1.02 kg/l
Liquid

WGK 1
Storage RT

Warning



H319

142660 Hydrogen Peroxide 6 % stabilized (BP) pure, pharma grade

Specifications
Assay (in vol. O_2) (Perm.) ..... 20 vol.
Assay (Perm.) w/v ..... 5.0-7.0 %
[illegible]ntity according to
[illegible]copoeias: ..... passes test

Maximum limit of impurities
Acidity ..... passes test

Non-volatile matter .....0.02 %
Chloride (Cl) .....0.001 %
Phosphate (PO_4) .....0.005 %
Sulfate (SO_4) .....0.001 %
Organic stabilizers .....0.025 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
As ..... 0.00005 %

Code	Packaging
142660.1211	1000 ml
142660.1214	5 l

НеваРеактив

Hydrogen Peroxide 3 % w/v stabilized

Hydrogen Dioxide, Hydroperoxide

H_2O_2
M = 34.01 g/mol
CAS 7722-84-1
EINECS 231-765-0
CS 28470000

Density .....1.009 kg/l
Liquid

WGK 1
Storage RT

622772 Hydrogen Peroxide 3 % stabilized VINIKIT for wine analysis

Specifications
Assay (Perm.) w/v ..... 3 %

Code	Packaging
622772.1209	250 ml
622772.1211	1000 ml

Hydrogen peroxide 0.9 % w/v

Hydrogen Dioxide, Hydroperoxide

H_2O_2
M = 34.01 g/mol
CAS 7722-84-1
EINECS 231-765-0
CS 28470000

Density .....1.000 kg/l
Liquid

WGK 1
Storage RT

624904 Hydrogen Peroxide 0.9 % VINIKIT for wine analysis

for determination of the sulphurous gas (SO_2), according to Paul

Composition:
Hydrogen Peroxide 30 % w/v ..... 3 ml
Water (s.q.m) ..... 100 ml

Code	Packaging
624904.1209	250 ml

Hydriodic Acid 57 %

HI
M = 127.91 g/mol
CAS 10034-85-2
EINECS 233-109-9
CS 28111980
Index Nr. 053-002-01-6

Boiling Point ..... 127 °C
Density .....1.70 kg/l
Solubility ..... Soluble in water.
Liquid
Clear, colourless liquid when freshly distilled, yellow to brown on exposure to light and air

UN1787
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 3
Storage RT

Danger



H314

132213 Hydriodic Acid 57 % for analysis, ACS

Specifications
Assay (Acidim.) ..... 55.0-58.0 %

Maximum limit of impurities
Residue on ignition (as SO_4) ..... 0.01 %
Sulfate (SO_4) ..... 0.002 %
P compounds (as PO_4) ..... 0.001 %
Chloride and bromide (as Cl) ..... 0.05 %
Free iodine (I2) ..... 0.75 %
Heavy metals (as Pb) ..... 0.001 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	1	K	1
As	5	Au	0.1	Li	0.1
B	0.05	Ba	0.1	Mg	1
Be	0.1	Bi	0.05	Mn	0.1
Ca	1	Cd	0.1	Mo	0.1
Co	0.1	Cr	0.1	Na	1
Cu	0.1	Fe	1	Ni	0.1
Ga	0.05	Ge	0.05	Pb	0.1
Hg	0.1	In	0.05	Pt	0.1
				Sb	0.05
				Si	0.1
				Sn	0.05
				Sr	0.1

Code	Packaging
132213.1611	1000 ml

142213 Hydriodic Acid 57 % pure

Specifications
Assay (Acidim.) ..... 55-58 %
Residue on ignition (as SO_4) ..... 0.1 %
Sulfate (SO_4) ..... 0.01 %

Chloride and bromide (as Cl) ..... 0.1 %
As ..... 0.0005 %
Cu ..... 0.001 %
Fe ..... 0.001 %

Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
142213.1609	250 ml

Hydroquinone

1,4-Benzenediol, 1,4-Dihydroxybenzene

$C_6H_4(OH)_2$
M = 110.11 g/mol
CAS 123-31-9
EINECS 204-617-8
CS 29072200
Index Nr. 604-005-00-4

Melting Point ..... 170 °C
Boiling Point ..... 287 °C
Solubility ..... water 70 g/l at 20 °C
Solid
White crystals, turns to grey on exposure to air and light

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 1
Storage RT

Danger



H302 H351 H318 H317 H341 H400

141351 Hydroquinone (USP) pure, pharma grade

Specifications
Assay (calc. a.d.s.) ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test
Melting range ..... 172-174 °C

Maximum limit of impurities
Insoluble matter in H_2O ..... passes test

Residue on ignition (as SO_4) ..... 0.1 %
Sulfate (SO_4) ..... 0.05 %
Residual solvents (Ph. Eur./USP) .passes test
Pyrocatechol ..... 0.05 %
Water (H_2O) ..... 0.5 %
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141351.1211	1000 g
141351.0914	5 kg
141351.0416	25 kg

161351 Hydroquinone, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %

Identity ..... IR passes test
Melting range ..... 172-174 °C

Code	Packaging
161351.1211	1000 g

HeBaPeaKTMB

Hydrotimetric Liquor

CS 38220000

Density .....0.920 kg/l
Liquid

UN1993
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
Storage RT

Danger



H225

171386 Hydrotimetric Liquor

for determination of hardness of water accordingto Boutron and BoudetStorage over 18 °C

Composition:
Pure olive oil ..... 28.3 ml
Formaldehyde 35-40 % .....5 ml
Sodium Hydroxide pellets .....4.46 g
Ethanol absolute .....552.4 ml
Water .....452.6 ml

Code	Packaging
171386.1211	1000 ml

2-Hydroxy-1,2,3-Propanetricarboxylic Acid Potassium Salt see tri-Potassium Citrate 1-hydrate

2-Hydroxy-3,5-Dinitrobenzoic Acid see 3,5-Dinitrosalicylic Acid

4-Hydroxy-4-Methyl-2-Pentanone

2-Methyl-2-Pentanol-4-One, Diacetone Alcohol

$CH_3COCH_2C(CH_3)_2OH$
M = 116.16 g/mol
CAS 123-42-2
EINECS 204-626-7
CS 29141990
Index Nr. 603-016-00-1

Melting Point .....-47 °C
Boiling Point .....166 °C
Density .....0.938 kg/l
Refractive Index n20/D 1.4233
Liquid

UN1148
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
Storage RT

Warning



H319

151083 4-Hydroxy-4-Methyl-2-Pentanone, 98 % for synthesis

Specifications
Assay (G.C.) .....98 %
Identity .....IR passes test

Code	Packaging
151083.1612	2.5 l

7-Hydroxy-5,6-Dimethoxycumarin see Umckalin

2-Hydroxy-5-Chlorothymol see 5-Chlorcarvacrol

4-Hydroxyaniline see 4-Aminophenol

2-Hydroxybenzoic Acid see Salicylic Acid

4-Hydroxybenzoic Acid Methyl Ester see Methyl-4-Hydroxybenzoate

1-p-Hydroxybenzoylaucubin see Agnusid

DL-Hydroxybutanedioic Acid see DL-Malic Acid

4-Hydroxybutiric Acid Lactone see gamma-Butyrolactone

Hydroxydaunorubicin see Doxorubicin Hydrochloride

Hydroxylammonium Chloride

Hydroxylamine Hydrochloride

$(NH_3OH)Cl$
M = 69.49 g/mol
CAS 5470-11-1
EINECS 226-798-2
CS 28251000
Index Nr. 612-123-00-2

Melting Point ..... 151 °C
Solubility ..... in water 1,000 g/l at 20 °C
Solid

UN1759
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 3
Storage RT

Danger



H290 H351 H312 H302 H373 H319 H315 H317 H400

471914 Hydroxylammonium Chloride (max. 0.000001 % Hg) for analysis, ACS, ISO

Specifications
Minimum assay (Perm.) .....99.5 %
pH sol. 5 % 2.5-4.0

Maximum limit of impurities
Acidity .....0.25 meq/g
Insoluble matter in C_2H_5OH ..... 0.005 %
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4) .....0.01 %

Sulfur compounds (as SO_4) .....0.002 %
Ammonium (NH_4) ..... 0.05 %
As .....0.0001 %
Hg .....0.000001 %
Heavy metals (as Pb) .....0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Bi 5
Co 5
Cd.....5
Cr.....5
Cu 5
Ga 5
In 5
Mg 5
Na 50
Pb.....5
Tl 5
Zn.....5
Fe..... 5
Ge..... 5
K 50
Mn..... 5
Ni 5
Sr 5
V 5
Zr 5

Code	Packaging
471914.1209	250 g

131914 Hydroxylammonium Chloride (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (Perm.) .....99.5 %
pH of 5 % solution 2.5-4.0

Maximum limit of impurities
Acidity .....0.25 meq/g
Insoluble matter in C_2H_5OH ..... 0.005 %
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4) .....0.01 %

Sulfur compounds (as SO_4) .....0.002 %
Ammonium (NH_4) ..... 0.05 %
As .....0.0001 %
Heavy metals (as Pb) .....0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Bi 5
Co 5
Cu 5
Cd.....5
Cr.....5
Fe.....5
Ga 5
In 5
Mg 5
Na 50
Pb.....5
Tl 5
Zn.....5
Ge..... 5
K 50
Mn..... 5
Ni 5
Sr 5
V 5
Zr 5

Code	Packaging
131914.1209	250 g
131914.1211	1000 g
131914.1214	5 kg

141914 Hydroxylammonium Chloride pure

Specifications
As .....99 %
Acidity .....0.5 meq/g
Insoluble matter in H_2O .....0.01 %
Residue on ignition (as SO_4) .....0.2 %

Sulfate (SO_4) ..... 0.05 %
As .....0.0001 %
Cu .....0.002 %
Fe .....0.002 %
Ni .....0.002 %
Pb .....0.002 %

Code	Packaging
141914.1209	250 g
141914.1211	1000 g
141914.1214	5 kg

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

HebaPeaktnB

HeBaPeaKTMB

Hydroxymethanesulfonic Acid SodiumSalt see Sodium Formaldehyde Sulfoxylate x-hydrate

1-Hydroxynaphthalene see 1-Naphthol

L-Hydroxyproline

trans-L-4-Hydroxypyrrolidine-2-Carboxylic Acid

$C_5H_9NO_3$
M = 131.1 g/mol
CAS 51-35-4
EINECS 200-091-9
CS 29339980

Solubility ..... 361 g/L (H_2O)
Solid

WGK nwg
Storage RT

A3742 L-Hydroxyproline for cell culture

• All amino acids are of non-animal origin

Specifications

Pyrogen test	passes test	pH (5 %; H_2O)	5.5-6.5
Assay (titr.)	min. 99 %	Other amino acids	max. 0.5 %
α20 °C/D; 5 %, H_2O	-74 to -77°	Ammonium	max. 0.1 %
		Chloride	max. 0.02 %
		Sulfate	max. 0.02 %
		As	max. 0.0001 %
		Fe	max. 0.001 %
		Pb	max. 0.001 %

Code	Packaging
A3742,0100	100 g
A3742,0250	250 g

A1705 L-Hydroxyproline pure

• All amino acids are of non-animal origin

Specifications

Assay (titr.)	99.0-101.0 %	Loss on drying	max. 0.2 %
α20 °C/D; 5 %, H_2O	-74 to -77°	Sulfated ash	max. 0.1 %
Heavy metals (as Pb)	max. 0.001 %	Other amino acids	max. 0.5 %
		Ammonium	max. 0.02 %
		Chloride	max. 0.02 %
		Sulfate	max. 0.02 %

Code	Packaging
A1705,0250	250 g

(S)-2-Hydroxypropanoic Acid see Lactic Acid

2-Hydroxypropyl-β-Cyclodextrin

HPBCD

CAS 128446-35-5
CS 29400000

Melting Point ..... 278 °C (dec.)
Solid

Storage RT

A0367 2-Hydroxypropyl-β-Cyclodextrin

Specifications

Assay (HPLC)	min. 97 %
Heavy metals (as Pb)	max. 0.001 %
Loss on drying	max. 7.5 %
As	max. 0.0003 %

Code	Packaging
A0367,0025	25 g
A0367,0100	100 g
A0367,1000	1 kg

6-Hydroxypurine see Hypoxanthine

8-Hydroxyquinoline

8-Quinolinol, Oxine

C_9H_7NO
M = 145.16 g/mol
CAS 148-24-3
EINECS 205-711-1
CS 29334990

Melting Point ..... 75 °C
Boiling Point ..... 267 °C
Solubility ..... water 2.2 g/l at 60 °C
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 2
Storage RT

Warning



H332 H302

131352 8-Hydroxyquinoline (Reag. Ph. Eur.) for analysis, ACS

Specifications

Minimum assay (G.C.)	99.0 %	**Maximum limit of impurities**	
Identity	IR passes test	Insoluble matter in C_2H_5OH	0.05 %
Suitability: for Mg determination	passes test	Residue on ignition (as SO_4)	0.05 %
Melting range	72.5-74.0 °C	Chloride (Cl)	0.005 %
		Sulfate (SO_4)	0.01 %
		Water (H_2O)	0.2 %
		Cu	0.001 %
		Fe	0.001 %
		Mg	0.005 %
		Ni	0.001 %
		Pb	0.001 %

Code	Packaging
131352.1608	100 g

DL-Hydroxysuccinic Acid see DL-Malic Acid

S(-)-2-Hydroxysuccinic Acid see L(-)-Malic Acid

2-Hydroxytoluene see o-Cresol

Hydroxytyrosol

3,4-Dihydroxyphenylethanol

Origin from *Olea europaea*

$C_8H_{10}O_3$
M = 154.17 g/mol
CAS 10597-60-1
CS 29420000

Liquid

WGK 1
Storage 2-8 °C

A5303 Hydroxytyrosol for HPLC

Specifications

Assay	min. 98 %

Code	Packaging
A5303,0025	25 mg

HeBaPeaKTMB

Hygromycin B

$C_{20}H_{37}N_3O_{13}$
M = 527.53 g/mol
CAS 31282-04-9
EINECS 250-545-5
CS 29419000

Solid

UN3462
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 3
Storage 2-8 °C

Danger



H300+H310+H330 H318 H334

A5347 Hygromycin B

Specifications
Assay (HPLC) .....min. 80 %
Activity .....min. 1000 U/mg
Loss on drying .....max. 5 %
Sulfated ash .....max. 5 %

Code	Packaging
A5347,0100	100 mg
A5347,0250	250 mg
A5347,1000	1 g

Hygromycin B solution

$C_{20}H_{37}N_3O_{13}$
M = 527.53 g/mol
CAS 31282-04-9
EINECS 250-545-5
CS 38220000

Density ..... 1.15 kg/l (20 °C)
Liquid

UN2810
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3*
Storage -20 °C

Warning



H302+H332

A2175 Hygromycin B solution

Specifications
Activity .....approx. 46 KU/ml

Composition:
Hygromycin B ..... approx. 41.2 mg/ml

Code	Packaging
A2175,0005	5 ml
A2175,0025	25 ml

Hyperforin / Adhyperforin - Dicyclohexylammonium Salt (4 :1)

Origin naturally mixture from *Hypericum perfor*
CS 29213099

Storage 2-8 °C

Warning



H302 H315 H319 H335

A9592 Hyperforin / Adhyperforin - Dicyclohexylammonium Salt (4 :1) for HPLC

Specifications
Assay .....min. 95 %

Code	Packaging
A9592,0005	5 mg
A9592,0010	10 mg

Hyperin see Hyperosid

Hyperosid

Quercetin-3-β-D-galactoside, Hyperin

Origin from *Hypericum perforatum*

$C_{21}H_{20}O_{12}$
M = 464.38 g/mol
CAS 482-36-0
EINECS 207-580-6
CS 29389090

Solid

WGK 1
Storage 2-8 °C

Warning



H302

A2062 Hyperosid HPLC grade

Specifications
Assay (HPLC) .....min. 99 %

Code	Packaging
A2062,0050	50 mg

A1791 Hyperoside pure

Specifications
Assay (HPLC) .....min. 97 %

Code	Packaging
A1791,0100	100 mg

Hypophosphorous Acid 50 %

H_3PO_2
M = 66.00 g/mol
CAS 6303-21-5
EINECS 228-601-5
CS 28111980

Density ..... 1.25 kg/l (20 °C)
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 3
Storage RT

Danger



H314

147095 Hypophosphorous Acid 50 % pure

Specifications
Assay (titr.) ..... approx. 50 %

Chloride ..... max. 0.05 %
Pb ..... max. 0.005 %

Code	Packaging
147095.1211	1 L

НеваРеактив

Hypoxanthine

Sarkine, 6-Hydroxypurine

$C_5H_4N_4O$
M = 136.11 g/mol
CAS 68-94-0
EINECS 200-697-3
CS 29335995

Melting Point .....> 250 °C (dec.)
Solid

Storage RT

A0700 Hypoxanthine BioChemica

Specifications
Assay (HPLC) .....min. 99.5 %
Heavy metals ..... max. 0.001 %
Loss on drying ..... max. 0.5 %
Sulfated ash ..... max. 0.2 %

Code	Packaging
A0700,1000	1 kg

Hypoxanthine Sodium Salt

$C_5H_3N_4NaO$
M = 158.09 g/mol
CAS 45738-97-4
CS 29335995

Solid

Storage RT

A7729 Hypoxanthine Sodium Salt BioChemica

Specifications
Assay .....min. 97 %
λ_{max} ..... 251-256 nm
Appearance of solution ..... clear
Heavy metals (as Pb) ..... max. 0.001 %
Identity (UV) ..... passes test
Loss on drying (110 °C) .....max. 3.0 %
pH (0.5 % in H_2O; 20 °C) 9.0-10.5

Code	Packaging
A7729,1000	1 Kg

Hypoxanthine-9- see Inosine

IBMX see 3-Isobutyl-1-Methylxanthine

Idaein chloride see Cyanidin-3-Galactoside Chloride

Imidazole

1,3-Diaza-2,4-cyclopentadiene, Glyoxaline

$C_3H_4N_2$
M = 68.08 g/mol
CAS 288-32-4
EINECS 206-019-2
CS 29332990

Melting Point .....88-90 °C
Solubility ..... 663 g/L (H_2O)
Solid

UN3263
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H302 H314 H361d

132536 Imidazole (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay ..... 99.0 %
Identity .....IR passes test
pH of 5 % solution 9.5-10.5
Melting range ..... 88-90 °C

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %

Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Water (H_2O) ..... 0.2 %
Ca ..... 0.001 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %

Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.005 %
Mg ..... 0.001 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
132536.1210	500 g

162536 Imidazole, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity .....IR passes test

Melting range .....88-90 °C
Water (H_2O) ..... 0.5 %

Code	Packaging
162536.1211	1000 g
162536.0914	5 kg

A1378 Imidazole for molecular biology

Specifications
DNases/RNases .....not detectable
Proteases/Phosphatases .....not detectable
Assay (titr.) .....min. 99.5 %
pH (0.1 M; H_2O; 25 °C) 9.5-11.0
Water .....max. 0.2 %

Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %
Al ..... max. 0.0005 %
As ..... max. 0.00001 %
Cd ..... max. 0.0005 %
Fe ..... max. 0.0005 %

Mn ..... max. 0.0005 %
Pb ..... max. 0.0005 %
Zn ..... max. 0.0005 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.1
280 nm ..... max. 0.1

Code	Packaging
A1378,0050	50 g
A1378,0100	100 g
A1378,0250	250 g

A3635 Imidazole ultrapure

Specifications
Assay (titr.) .....min. 99.5 %
pH (0.1 M; H_2O) .....9.5-11.0 (25 °C)
Water .....max. 0.2 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %

Al ..... max. 0.0005 %
As ..... max. 0.00001 %
Cd ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Mn ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Zn ..... max. 0.0005 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.1
280 nm ..... max. 0.1

Code	Packaging
A3635,0100	100 g
A3635,0250	250 g

A1073 Imidazole for buffer solutions

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Water .....max. 0.5 %
Chloride ..... max. 0.05 %
Sulfate ..... max. 0.05 %

Code	Packaging
A1073,0100	100 g
A1073,0500	500 g
A1073,1000	1 kg
A1073,5000	5 kg

2,2'-Iminodiethanol see Diethanolamine

Immersion Oil

CAS 8001-79-4
EINECS 232-293-8
CS 15153090

Boiling Point ..... 313 °C
Density ..... 0.960 kg/l
Solubility ..... Insoluble in water
Refractive Index n20/D 1.48
Liquid

Storage RT

251002 Immersion Oil for clinical diagnosis

Specifications
Identity ..... IR passes test
Density 20/4 ..... 0.955-0.965
Refractive Index n20/D 1.477-1.481

Maximum limit of impurities
Insoluble matter in C_2H_5OH ..... passes test

Code	Packaging
251002.1207	50 ml
251002.1208	100 ml
251002.1209	250 ml

Immersion Oil

CAS 8012-95-1
EINECS 232-384-2
CS 38220000

Liquid

WGK 2
Storage RT

Warning



H304 H413

A3494 Immersion Oil BioChemica

The product is free of PCBs

Specifications
Density (20 °C) ..... 0.879-0.885 g/cm³

Kin. viscosity (20 °C) ..... 221-241 mm²/s
n 20 °C/D 1.480-1.482

Code	Packaging
A3494,0100	100 ml
A3494,0500	500 ml

A0699 Immersion Oil, fluorescence-free for microscopy

highly UV-permeable

The product is free of PCBs

Specifications
Density (20 °C) ..... 0.879-0.885 g/cm³
Kin. viscosity (20 °C) ..... 221-241 mm²/s

n 20 °C/D 1.480-1.482
T (400 nm/H_2O) ..... min. 99 %

Code	Packaging
A0699,0100	100 ml
A0699,0250	250 ml
A0699,1000	1 L

A3655 Immersion Oil, fluorescence-free 'dropper-bottle'

The product is free of PCBs

Specifications
Density (20 °C) ..... 0.879-0.885 g/cm³
Kin. viscosity (20 °C) ..... 221-241 mm²/s

n 20 °C/D 1.480-1.482
T (400 nm/H_2O) ..... min. 99 %

Code	Packaging
A3655,0005	5 ml
A3655,0015	15 ml

Immersion Oil from cedarwood

CS 38220000

WGK 2
Storage RT

Warning



H317 H411

A6586 Immersion Oil from cedarwood

Specifications
Density (d 20 °C/4 °C) 0.940-0.960

n 20 °C/D 1.496-1.516
Suitability for microscopy ..... passes test

Code	Packaging
A6586,0100	100 ml

Immersion Oil purified

CAS 8000-27-9
CS 33013000

Density ..... 0.990 kg/l
Solubility ..... Insoluble in water
Refractive Index n20/D 1.518
Liquid

Storage RT

254561 Immersion Oil purified for clinical diagnosis

for microscopy

Specifications
Identity ..... IR passes test

Density 20/4 ..... 0.986-0.996
Refractive Index n20/D 1.518-1.525

Maximum limit of impurities
Insoluble matter in C_2H_5OH ..... passes test
Insoluble matter in $C_2H_5OC_2H_5$ ..... passes test

Code	Packaging
254561.1208	100 ml

Incubator-Clean™

CS 38220000

Storage RT

A5230 Incubator-Clean™

sterile solution

• Incubator-Clean™ is a registered trademark of AppliChem GmbH

non-toxic and biodegradable ingredients.

fully compatible with common work surfaces
Disinfectant solution for incubators and sterile benches.

Code	Packaging
A5230,0500	500 ml
A5230,1000	1 L
A5230,5000RF	5 L

Incuwater-Clean™

CS 38220000

Storage 2-8 °C

5219 Incuwater-Clean™

• Incuwater-Clean™ is a registered trademark of AppliChem GmbH

for the prevention of microbial growth in incubator water baths.

100X concentrated solution. Use 50 ml per 5 liter of incubator water bath.
Disinfectant solution for CO_2-incubator water baths.

Code	Packaging
A5219,0100	100 ml

Printed on FSC® certified paper from well managed forests

HeBaPeaKTMB

Indicator 4.4, Mixed (Methyl Red-Methylene Blue)

CS 38220000

Density .....0.828 kg/l
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225

282430 Indicator 4.4. Mixed (Methyl Red-Methylene Blue) for volumetric analysis

for ammonia titrations. pH 4,4 red violet; 5,8 green

Composition:
Methyl Red ..... 100 mg
Methylene Blue ..... 50 mg

Water ..... 10.4 ml
Ethanol absolute s.q.m ..... 100 ml

Code	Packaging
282430.1609	250 ml

Indicator 4.4, Mixed (Methyl Red-Methylene Blue) VINIKIT

CS 38220000

Density .....0.931 kg/l
Liquid

UN1993
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
Storage RT

Danger



H225

624905 Indicator 4.4, Mixed (Methyl Red-Methylene Blue) VINIKIT for wine analysis

for determination of sulfurous gas (SO_2) in wines, according to Paul. pH 4,4 violet; 5,8 green

Composition:
Methyl Red ..... 100 mg
Methylene Blue ..... 50 mg

Ethanol absolute ..... 50 ml
Water (s.q.m) ..... 100 ml

Code	Packaging
624905.1208	100 ml

Indicator 4.8, Mixed (Methyl Red-Bromocresol Green)

CS 38220000

Density .....0.799 kg/l
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225

283303 Indicator 4.8, Mixed (Methyl Red-Bromocresol Green) for volumetric analysis

for ammonia titrations. pH 4,8 pink violet; 5,5 emerald green

Composition:
Methyl Red ..... 41 mg

Bromocresol Green .....60 mg
Ethanol absolute s.q.m ..... 100 ml

Code	Packaging
283303.1609	250 ml

Indicator Buffer Tablets

CS 38220000

Solubility ..... Soluble in water. tablets

Storage RT

Danger



H302 H319 H334 H317

285406 Indicator Buffer Tablets for volumetric analysis

for the hardness water determination with EDTA

Specifications
Suitability: as hardness indicator ... passes test
Disintegration time at 25 °C ..... ≤ 100 s

Code	Packaging
285406.1208	100 g

Indicator, Mixed (Dimidium Bromide-Disulfine Blue)

CS 38220000

Density .....1.023 kg/l
Liquid

UN3265
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H371 H332 H312 H302 H319 H315

286330 Indicator, Mixed (Dimidium Bromide-Disulfine Blue) for volumetric analysis

for determination of surfactants. pale pink; pale blue

Composition:
Dimidium Bromide ..... 80 mg
Disulphine Blue ..... 40 mg

Sulfuric Acid 96 % ..... 36 ml
Methanol ..... 100 ml
Water (s.q.m) ..... 1000 ml

Code	Packaging
286330.1612	2.5 l

Indicator Solvent

CS 38220000

Density .....0.76 kg/l
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225

281298 Indicator Solvent for volumetric analysis

for oil and fat acidity

Composition:
Phenolphtalein ..... 1.5 mg
Ethyl Ether ..... 50 ml
Ethanol ..... 50 ml

Code	Packaging
281298.1611	1000 ml
281298.1612	2,5 l
281298.0515	10 l
281298.0537	30 l

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

Indicine-N-Oxide

Origin from *Heliotropium*

$C_{15}H_{25}NO_6$
M = 315.36 g/mol
CAS 41708-76-3
CS 29399900

Storage 2-8 °C

Warning



H302

A9593 Indicine-N-Oxide for HPLC

Specifications
Assay .....min. 96 %

Code	Packaging
A9593,0010	10 mg
A9593,0020	20 mg

Indigo Carmine (C.I. 73015)

5,5'-Indigosulphonic Acid Disodium Salt, Acid Blue 74, Indigotine

$C_{16}H_8N_2O_8S_2Na_2$
M = 466.36 g/mol
CAS 860-22-0
EINECS 212-728-8
CS 32041200

Solubility ..... in water at 25 °C
Solid

Storage RT

251246 Indigo Carmine (C.I. 73015) for clinical diagnosis

for microscopy, nucleus and glycogen staining

Specifications
Ratio λ_{max} P +/- 15 nm 0.98-1.07

A 1 %, 1 cm, λ_{max} ..... > 380
λ_{max} ABS in H_2O ..... 606-612 nm
T.L.C. .....passes test

Maximum limit of impurities
Loss on drying at 135 °C .....10 %

Code	Packaging
251246.1605	10 g

Indigotine see Indigo Carmine (C.I. 73015)

1H-Indole-3-Butyric Acid

4-(3-Indolyl)Butyric Acid, IBA

$C_{12}H_{13}NO_2$
M = 203.24 g/mol
CAS 133-32-4
EINECS 205-101-5
CS 29339980

Melting Point ..... 125 °C
Solubility Slightly soluble in water. Soluble in alcohol.
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage between 2-8 °C

Warning



H332 H302

155494 1H-Indole-3-Butyric Acid, 99 % for synthesis

Specifications
Assay .....99 %
Identity .....IR passes test

Code	Packaging
155494.1606	25 g

3-Indolylmethylglucosinolate Potassium Salt see Glucobrassicin

3-Indoxyl-β-D-Glucopyranoside anhydrous

YTM-b -D-glc, YTM-β-D-Glucoside, Plant Indican

$C_{14}H_{17}NO_6$
M = 295.29 g/mol
CAS 487-60-5
CS 29420000

Solubility ..... Soluble in water.
Solid

Storage -25 to -30 °C

A9729 Indoxyl-β-D-Glucoside anhydrous BioChemica

Specifications
Minimum assay (HPLC.) .....99.0 %
Identity .....IR passes test

T.L.C. .....passes test

Maximum limit of impurities
Insoluble matter in in H_2O .....passes test
Water (H_2O) .....0.5 %

Code	Packaging
A9729,0001	1 g

Inermin see (-)-Maackiain

Infusorial Earth see Siliceous Earth purified and calcined

Ingrain Blue 1 see Alcian Blue 8 (C.I. 74240)

Inosine

Hypoxanthine-9-β-D-Ribofuranoside

$C_{10}H_{12}N_4O_5$
M = 268.23 g/mol
CAS 58-63-9
EINECS 200-390-4
CS 29349990

Melting Point .....212-213 °C (dec.)
Solid

WGK 1
Storage RT

A0698 Inosine BioChemica

Specifications
Assay (titr.) .....min. 99 %

E 1 %/1 cm, 248 nm; pH 6 450-465
Heavy metals (as Pb) ..... max. 0.001 %

Code	Packaging
A0698,0010	10 g

meso-Inosit see myo-Inositol

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

myo-Inositol

meso-Inosit

$C_6H_{12}O_6$
M = 180.16 g/mol
CAS 87-89-8
EINECS 201-781-2
CS 29061390

Melting Point ..... 224-227 °C
Solubility ..... 140 g/L (H_2O)
Solid

WGK 1
Storage RT

A1716 myo-Inositol BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Loss on drying ..... max. 0.5 %
Sulfated ash ..... max. 0.1 %

Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %

Code	Packaging
A1716,0100	100 g
A1716,0250	250 g
A1716,9010	10 kg

rHu Insulin

recombinant Human Insulin

CS 29371900

Storage -20 °C

A8211 rHu Insulin

Specifications
Endotoxin ..... max. 10 Units/mg
Bioidentity (USP Insulin) min. 26.0 Units/mg (on dried substance)
Activity (USP Insulin; HPLC) min. 27.5 Units/mg (on dried substance)

Bioburden (total) ..... max. 300 cfu/g
Loss on drying (105 °C; 16 h) ..... max. 10 %
Proinsulin ..... max. 0.001 %
Residue on ignition ..... max. 2.5 % (on dried substance)
Total nitrogen (N) ..... 14.5-16.5 % (on dried substance)

Limit of high molecular weight proteins ..... max. 1.0 %
Zn ..... max. 1.0 %

Code	Packaging
A8211,0025	25 mg

INT see Iodonitrotetrazolium Chloride

Iodine-Potassium Iodide solution see Lugol's solution (concentrated) 5 % Iodine

Iodine crude

I_2
M = 253.81 g/mol
CAS 7553-56-2
EINECS 231-442-4
CS 28012000
Index Nr. 053-001-00-3

Melting Point ..... 113.6 °C
Boiling Point ..... 185.24 °C
Solubility ..... water 0.3 g/l at 20 °C
Solid

UN3495
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H302 H312 H332 H315 H372 H319 H335 H400

213168 Iodine crude technical grade

Specifications
Assay (Iodom.) ..... 99 %
Non-volatile matter ..... 0.05 %
Chloride and bromide (as Cl) ..... 0.05 %

Code	Packaging
213168.1608	100 g
213168.1609	250 g

Iodine resublimed pearls

I_2
M = 253.81 g/mol
CAS 7553-56-2
EINECS 231-442-4
CS 28012000
Index Nr. 053-001-00-3

Melting Point ..... 113.6 °C
Boiling Point ..... 185.24 °C
Solubility ..... water 0.3 g/l at 20 °C
Solid

UN3495
Class/PG 8(6.1)/III
ADR 8(6.1)/III · IMDG 8(6.1)/III · IATA 8(6.1)/III
WGK 1
Storage RT

Danger



H302+H312+H332 H315 H319 H335 H372 H400

131771 Iodine resublimed pearls for analysis, ACS

Specifications
Minimum assay (Iodom.) ..... 99.8 %
Identity ..... passes test

Maximum limit of impurities
Insoluble matter in KI ..... passes test
Non-volatile matter ..... 0.01 %
Chlorine and Bromine (as Cl) ..... 0.005 %

Chloride and bromide (as Cl) ..... 0.005 %
Ca ..... 0.001 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.005 %
K ..... 0.005 %

Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131771.1608	100 g
131771.1609	250 g
131771.1610	500 g
131771.1611	1000 g
131771.0416	25 kg

141771 Iodine resublimed pearls (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Iodom.) ..... 99.8-100.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Non-volatile matter ..... 0.05 %
Residual solvents (Ph. Eur./USP) . passes test

Chloride and bromide (as Cl) ..... 0.025 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141771.1608	100 g
141771.1609	250 g
141771.1610	500 g
141771.1611	1000 g
141771.1614	5 kg

Iodine 0.5 mol/l (1N)

I_2
M = 253.81 g/mol
CAS 7553-56-2
EINECS 231-442-4
CS 28012000
Index Nr. 053-001-00-3

Density .....1.284 kg/l
Liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 1
Storage RT

Warning



H411

182162 Iodine 0.5 mol/l (1N) volumetric solution

Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182162.1611	1000 ml

Iodine 0.05 mol (12.690 g I2) to prepare 1l of 0.1N solution

CAS 7553-56-2
EINECS 231-442-4
CS 28012000

Plastic or glass ampoules containing clear brown liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 1
Storage RT

Warning



H411

303119 Iodine 0.05 mol (12.690g I2) to prepare 1l of 0.1N solution

Specifications
Titer at 20 °C 0.998-1.002

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
303119.1920	1 bottle

Iodine 0.05 mol/l (0.1N)

I_2
M = 253.81 g/mol
CAS 7553-56-2
EINECS 231-442-4
CS 28012000
Index Nr. 053-001-00-3

Density .....1.026 kg/l
Liquid

WGK 1
Storage RT
H412

181772 Iodine 0.05 mol/l (0.1N) (Reag. USP, Ph. Eur.) volumetric solution

Standardised against Sodium Thiosulphate 0,1 M. Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181772.1611	1000 ml
181772.1612	2.5 l

Iodine 0.025 mol/l (0.05N)

I_2
M = 253.81 g/mol
CAS 7553-56-2
EINECS 231-442-4
CS 28012000
Index Nr. 053-001-00-3

Density .....1.015 kg/l
Liquid

WGK 1
Storage RT
H412

182161 Iodine 0.025 mol/l (0.05N) (Reag. USP) volumetric solution

Standardised against Sodium Thiosulphate 0,1 M. Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182161.1611	1000 ml

Iodine 0.02365 mol/l (0.0473N)

I_2
M = 253.81 g/mol
CAS 7553-56-2
EINECS 231-442-4
CS 28012000
Index Nr. 053-001-00-3

Density .....1.040 kg/l
Liquid

WGK 1
Storage RT
H412

182915 Iodine 0.02365 mol/l (0.0473N) (ASTM D 1510) volumetric solution

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182915.1612	2.5 l

Iodine 0.01 mol/l (0.02N)

Iodine liquor

I_2
M = 253.81 g/mol
CAS 7553-56-2
EINECS 231-442-4
CS 28012000
Index Nr. 053-001-00-3

Density .....1.005 kg/l
Liquid

WGK 1
Storage RT
H412

181969 Iodine 0.01 mol/l (0.02N) volumetric solution

Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181969.1611	1000 ml

НеваРеактив

Iodine (Iodate-Iodide) N/50

CS 38220000

Density .....1.007 kg/l
Liquid

WGK 1
Storage RT

185733 Iodine (Iodate-Iodide) N/50 volumetric solution

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
185733.1611	1000 ml

Iodine (Iodate-Iodide) N/64

CS 38220000

Density .....1.005 kg/l
Liquid

WGK 1
Storage RT

186880 Iodine (Iodate-Iodide) N/64 volumetric solution

Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
186880.1211	1000 ml

Iodine (Iodate-Iodide) N/128

CS 38220000

Density .....1.00 kg/l
Liquid

WGK 1
Storage RT

625448 Iodine (Iodate-Iodide) N/128 VINIKIT for wine analysis

for determination of sulphurous gas in wines.
Indicator: Starch

Specifications
Titer at 20 °C ..... 1.00 ± 0.01

Code	Packaging
625448.1211	1000 ml

Iodine mono-Bromide

Bromine Iodide

IBr
M = 206.84 g/mol
CAS 7789-33-5
EINECS 232-159-9
CS 28129000

Melting Point ..... 40 °C
Solubility Reacts violently with water and ethanol. Miscible with ether, chloroform or benzene
Solid

UN3260
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314 H335

141770 Iodine mono-Bromide pure

Specifications
Assay (Iodom.) ..... 98 %
Insoluble matter in CH_3COOH ..... 0.01 %
Residue on ignition ..... 0.1 %

Code	Packaging
141770.2208	100 g
141770.2209	250 g

Iodine mono-Chloride

Chlorine Iodide, Iodine Monochloride, Wijs Chloride

ICl
M = 162.36 g/mol
CAS 7790-99-0
EINECS 232-236-7
CS 28121099

Melting Point ..... 27.2 °C
Density .....3.20 kg/l
Solubility Reacts violently with water and ethanol. Miscible with ether, chloroform or benzene
Solid

UN1792
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 3
Storage RT

Danger



H314 H335

15A884 Iodine mono-Chloride, 98 % for synthesis

Specifications
Assay (Iodom.) ..... 98 %

Code	Packaging
15A884.2208	100 g

Iodine Monochloride see Iodine mono-Chloride

Iodoacetamide

C_2H_4INO
M = 184.96 g/mol
CAS 144-48-9
EINECS 205-630-1
CS 29241900

Melting Point .....91-94 °C
Solid

WGK 3
Storage 2-8 °C

Warning



H315 H317 H319 H335

A1666 Iodoacetamide BioChemica

• May darken in storage

Specifications
Assay (HPLC) .....min. 99 %
Water .....max. 6 %

Code	Packaging
A1666,0025	25 g
A1666,0100	100 g
A1666,1000	1 kg

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Iodoacetic Acid Sodium Salt

Sodium Iodoacetate

$C_2H_2INaO_2$
M = 207.93 g/mol
CAS 305-53-3
EINECS 206-165-7
CS 29159000

Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage 2-8 °C
Storage protected from light

Danger



H301 H315 H318 H335

A2097 Iodoacetic Acid Sodium Salt BioChemica

• May darken in storage

Specifications
Assay (titr.) .....min. 98 %
Heavy metals .....max. 0.001 %
Solubility (2 %; MeOH) .....clear
Water .....max. 1 %
Chloride .....max. 0.01 %
Sulfate .....max. 0.01 %

Code	Packaging
A2097,2500	2.5 kg

Iodobromide see Iodine mono-Bromide

Iodoform

Triiodomethane

I_3CH
M = 393.73 g/mol
CAS 75-47-8
EINECS 200-874-5
CS 29033990

Melting Point .....123 °C
Solubility ..... Very slightly soluble in water.
Solid

WGK 3
Storage RT

Warning



H332 H312 H302

141909 Iodoform pure

Specifications
Assay (Arg.) .....99 %
Identity .....IR passes test
Insoluble matter in CH_3COCH_3 .....0.05 %
Residue on ignition (as SO_4) .....0.1 %
Cu .....0.002 %
Fe .....0.002 %
Ni .....0.002 %
Pb .....0.002 %

Code	Packaging
141909.1614	5 kg

Iodomethane

Methyl Iodide

CH_3I
M = 141.94 g/mol
CAS 74-88-4
EINECS 200-819-5
CS 29033990
Index Nr. 602-005-00-9

Melting Point .....-66.5 °C
Boiling Point .....42.5 °C
Density .....2.278 kg/l
Solubility ..... water 13.6 g/l at 20 °C
Refractive Index n20/D 1.5304
Liquid
Clear, colourless liquid turns brown on exposure to air

UN2644
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 3
Storage RT

Danger



H312 H331 H301 H335 H315 H351

15A886 Iodomethane, 99 % stabilized with copper for synthesis

Specifications
Minimum assay (G.C.) .....99 %
Identity .....IR passes test
Density 20/4 .....2.270-2.285
Water (H_2O) .....0.1 %

Code	Packaging
15A886.1611	1000 g

Iodonitrotetrazolium Chloride

Iodonitrotetrazolium Violet, INT, 2-(4-Iodophenyl)-3-(4-Nitrophenyl)-5-Phenyl-2H-Tetrazolium Chloride

$C_{19}H_{13}ClIN_5O_2$
M = 505.69 g/mol
CAS 146-68-9
EINECS 205-676-2
CS 29339980

Storage protected from light
Storage RT

A6248 Iodonitrotetrazolium Chloride BioChemica

Specifications
Assay (titr.) .....min. 97 %
Melting point .....approx. 245 °C (dec.)
Solubility (5 %; hot MeOH/H_2O 1:1)
..... clear, deep yellow

Code	Packaging
A6248,0005	5 g
A6248,0025	25 g

Iodonitrotetrazolium Violet see Iodonitrotetrazolium Chloride

4-[3-(4-Iodophenyl)-2-(4-Nitrophenyl)-2H-5-Tetrazolio]-1,3-Benzene Disulfonate see WST-1

Ionol see Butylhydroxytoluene

Ionomycin Calcium Salt

Origin from *Streptomyces conglobatus*

$C_{41}H_{70}O_9Ca$
M = 747.09 g/mol
CAS 56092-82-1
CS 29419000

Solid

Storage -20 °C
Storage protected from light

Warning



H302

A2177 Ionomycin Calcium Salt BioChemica

Specifications
Assay (TLC) .....min. 98 %

Code	Packaging
A2177,0001	1 mg

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

IPL 41 - Medium, powder

Cell culture media

CS 38210000

Storage 2-8 °C

A1964 IPL 41 - Medium

Specifications
with L-Glutamine
without Sodium hydrogen carbonate

Code	Packaging
A1964,5000	5 L
A1964,9010	10 L

A2027 IPL 41 - Medium

Specifications
without L-Glutamine
without Sodium hydrogen carbonate

Code	Packaging
A2027,9050	50 L
A2027,9100	100 L

IPTG

Isopropyl β-D-Thiogalactopyranoside

$C_9H_{18}O_5S$
M = 238.30 g/mol
CAS 367-93-1
EINECS 206-703-0
CS 29329900

Melting Point ..... 110-112 °C
Solid

Storage -20 °C
Storage protected from light

A4773 IPTG for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (HPLC) ..... min. 99 %
α20 °C/D; 1 %, H_2O ..... -28.5 to -34.5°
Dioxane ..... not detectable
Water (K.F.) ..... max. 1.0 %

Code	Packaging
A4773,0001	1 g
A4773,0005	5 g
A4773,0025	25 g
A4773,0050	50 g
A4773,0100	100 g

A1008 IPTG BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 1 %, H_2O ..... -28.5 to -34.5°
pH (5 %; H_2O) 5.0-7.0
Dioxane ..... max. 0.0001 %
Water (K.F.) ..... max. 1.0 %

Code	Packaging
A1008,0001	1 g
A1008,0005	5 g
A1008,0025	25 g
A1008,0050	50 g
A1008,0100	100 g
A1008,0250	250 g

A7211 IPTG from plant origin galactose

Specifications
Assay (HPLC) ..... min. 99.5 %
α20 °C/D; 1 %, H_2O ..... -29 to -33°
Solubility (5 %; H_2O) ..... clear, colorless
Dioxane ..... not detectable
Water (K.F.) ..... max. 1.0 %

Code	Packaging
A7211,0025	25 g
A7211,1000	1 kg

Iron Alum see Ammonium Iron(III) Sulfate 12-hydrate

Iron Alum, Iron(III) Ammonium Sulfate see Alum Iron Ammonium saturated solution

Iron metal

Fe
M = 55.85 g/mol
CAS 7439-89-6
EINECS 231-096-4
CS 72052900

Melting Point ..... 1,535 °C
Boiling Point ..... 2,750 °C
Solubility ..... Insoluble in water
Solid

WGK nwg
Storage RT

211934 Iron metal, fine granulated technical grade

Specifications
Assay (Iodom.) ..... 97 %

Code	Packaging
211934.1209	250 g
211934.1211	1000 g

Iron(II) Chloride 4-hydrate

Ferrous Chloride 4-hydrate

$Cl_2Fe \cdot 4H_2O$
M = 198.81 g/mol
CAS 13478-10-9
EINECS 231-843-4
CS 28273920

Solubility ..... water 1,600 g/l at 10 °C
Solid

WGK 1
Storage RT

Danger



H302 H315 H318

141868 Iron(II) Chloride 4-hydrate pure

Specifications
Assay (Perm.) ..... 98 %

Code	Packaging
141868.1209	250 g
141868.1211	1000 g
141868.1214	5 kg

Iron(III) Chloride anhydrous

Ferric Chloride, Flores martis, Iron Sesquichloride, Iron Trichloride

$FeCl_3$
M = 162.21 g/mol
CAS 7705-08-0
EINECS 231-729-4
CS 28273920

Melting Point ..... 305 °C
Boiling Point ..... 315 °C
Solubility ..... water 920 g/l at 20 °C
Solid
Black to dark grey crystalline powder turning orange on exposure to moist air

UN1773
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H302 H314

15A813 Iron(III) Chloride anhydrous, 97 % for synthesis

Specifications
Minimum assay (Iodom.) .....97 %

Code	Packaging
15A813.1609	250 g
15A813.1611	1000 g

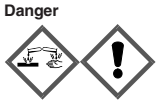
Iron(III) Chloride 6-hydrate

$FeCl_3 \cdot 6H_2O$
M = 270.30 g/mol
CAS 10025-77-1
EINECS 231-729-4
CS 28273920

Melting Point ..... 37 °C
Solubility ..... water 920 g/l at 20 °C
Solid

UN3260
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H290 H302 H315 H317 H318

131358 Iron(III) Chloride 6-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Iodom.) ..... 97.0-102.0 %

Maximum limit of impurities
Insoluble matter in HCl .....0.01 %
Sulfate (SO_4) .....0.01 %
P compounds (as PO_4) .....0.01 %
Fe(II) .....0.002 %
Nitrate (NO_3) .....0.01 %
As .....0.002 %
Ca .....0.01 %
Cu .....0.003 %
K .....0.005 %
Mg .....0.005 %
Mn .....0.1 %
Na .....0.02 %
Pb .....0.01 %
Zn .....0.003 %

Code	Packaging
131358.1209	250 g
131358.1211	1000 g

141358 Iron(III) Chloride 6-hydrate pure

Specifications
Assay (Iodom.) ..... 97 -102 %
Acidity ..... passes test
Sulfate (SO_4) .....0.05 %
P compounds (as PO_4) .....0.05 %
Fe(II) ..... 0.005 %
As ..... 0.001 %
Ca ..... 0.1 %
Cu .....0.015 %
K .....0.05 %
Na .....0.1 %
Pb .....0.005 %
Zn .....0.01 %

Code	Packaging
141358.1210	500 g
141358.1211	1000 g
141358.1214	5 kg
141358.0416	25 kg

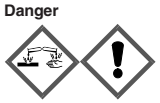
Iron(III) Chloride solution 30 %

CAS 7705-08-0
EINECS 231-729-4
CS 28273920

Density .....1.306 kg/l
Liquid

UN2582
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H290 H302 H315 H317 H318

211359 Iron(III) Chloride 30 % aqueous solution technical grade

30 % w/w FeCl3-50 % w/w $FeCl3.6H_2O$

Specifications
Assay (as FeCl3) (Iodom.) w/w .....30 %
Assay (as $FeCl3.6H_2O$) (Iodom.) w/w .....50 %

Code	Packaging
211359.1211	1000 ml
211359.0716	25 l

Iron(III) Chloride solution 14 % w/w

CAS 7705-08-0
EINECS 231-729-4
CS 28273920

Density .....1.435 kg/l
Liquid

UN2582
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H290 H302 H315 H317 H318

196997 Iron(III) Chloride solution 14 % w/w (as Fe) pharma grade

Specifications
Assay (as Fe) (Iodom.) .....13.8-14.1 % *
Appearance Clear < formazin I ..... passes test
Acidity (≤ 0.1 % as HCl) ..... passes test *
Chlorine Free ..... passes test *
Sulfate (SO_4) .....0.007 % *
Fe(II) .....0.004 % *

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
Al .....0.005 %
As .....0.0005 %
Cd .....0.002 %
Cr .....0.001 %
Cu .....0.001 %
Hg .....0.000 000 5 %
Mn .....0.005 %
Mo .....0.002 %
Ni .....0.002 %
Pb .....0.001 %
V .....0.001 %
Zn .....0.001 %

This solution is suitable as raw material for the pharmaceutical industry.
* Specifications analyzed according to $FeCl_3 6H_2O$ Ph. Eur. method.

Code	Packaging
196997.9774	1000 l

Iron(III) Citrate Hydrate

Citric Acid Iron(III) Salt

$FeC_6H_5O_7 \cdot xH_2O$
CAS 28633-45-6
EINECS 249-117-0
CS 29181500

Solubility .....5 g/L (H_2O)
Solid

WGK 1
Storage RT

142027 Iron(III) Citrate Hydrate pure

Specifications
Assay (iodometr.) .....16.5-18.5 % Fe
Identity ..... passes test
Cl ..... max. 0.05 %
NH_4 ..... max. 0.5 %
As ..... max. 0.0005 %

Code	Packaging
142027.1211	1 kg

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

HeBaPeaKTMB

A5175 Iron(III) Citrate Hydrate for cell culture

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... 16.5-18.5 % Fe
Identity ..... passes test
Cl ..... max. 0.05 %
NH_4 ..... max. 0.5 %
As ..... max. 0.0005 %

Code	Packaging
A5175,0100	100 g

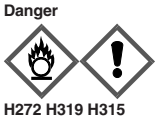
Iron(III) Nitrate 9-hydrate

$Fe(NO_3)_3 \cdot 9H_2O$
M = 404.00 g/mol
CAS 7782-61-8
EINECS 233-899-5
CS 28342980

Melting Point ..... 47 °C
Solubility ..... Soluble in water.
Solid

UN1466
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage between 2-8 °C

Danger



H272 H319 H315

141297 Iron(III) Nitrate 9-hydrate pure

Specifications
Assay (Iodom.) ..... 98 %
Insoluble matter in H_2O ..... 0.05 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.02 %
Fe(II) ..... 0.01 %
Ca ..... 0.02 %
Cu ..... 0.005 %
Mg ..... 0.02 %
Pb ..... 0.005 %
Zn ..... 0.01 %

Code	Packaging
141297.1210	500 g
141297.1211	1000 g
141297.1214	5 kg
141297.0416	25 kg

Iron(III) Sulfate x-hydrate

$Fe_2(SO_4)_3 \cdot xH_2O$
M = 399.87 (anh) g/mol
CAS 10028-22-5
EINECS 233-072-9
CS 28332980

Solubility ..... Very slightly soluble in water.
Solid

WGK 1
Storage RT

141360 Iron(III) Sulfate x-hydrate ~ 75 % pure

Specifications
Chloride (Cl) ..... 0.03 %
Fe(II) ..... 0.1 %
Nitrate (NO_3) ..... 0.05 %
Cu ..... 0.01 %

Code	Packaging
141360.1210	500 g
141360.1211	1000 g
141360.1214	5 kg

Iscove's mod. Dulbecco's - Medium (IMDM), powder

Cell culture media

CS 38210000

Storage 2-8 °C

A1322 Iscove's mod. Dulbecco's - Medium (IMDM)

Specifications
with L-Glutamine

with 25 mM HEPES
without Sodium hydrogen carbonate

Code	Packaging
A1322,9010	10 L

Isoacteosid

Isoverbascosid

Origin from *Harpagophytum procumbens*

$C_{29}H_{36}O_{15}$
M = 624.59 g/mol
CAS 61303-13-7
CS 29420000

Solid

Storage 2-8 °C

A3790 Isoacteosid for HPLC

Specifications
Assay ..... min. 99 %

Code	Packaging
A3790,0020	20 mg

Isoamyl Alcohol

Isopentyl Alcohol, iso-Butylcarbinol, iso-Pentyl Alcohol, Isobutylcarbino, iso-Amyl Alcohol

$C_5H_{11}OH$
M = 88.15 g/mol
CAS 123-51-3
EINECS 204-633-5
CS 29051900
Index Nr. 603-006-00-7

Melting Point ..... -117 °C
Boiling Point ..... 131 °C
Density ..... 0.81 kg/l (20 °C)
Solubility ..... 25 g/L (H_2O)
Liquid

UN1105
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Warning



EUH066 H226 H332 H335

131079 Isoamyl Alcohol (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (as $C_5H_{12}O$) (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.809-0.812

Maximum limit of impurities
Acidity ..... 0.002 meq/g
Non-volatile matter ..... 0.003 %
Carbonyl compounds (as HCHO) ..... 0.05 %
2-Pentanol (G.C.) ..... 0.5 %
Acids and esters (as Pentyl acetate) ..... 0.2 %
Water (H_2O) ..... 0.15 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As 0.05
B 0.02
Be 0.02
Ca 0.5
Co 0.02
Al 0.5
Au 0.05
Ba 0.1
Bi 0.05
Cd 0.05
Cr 0.02
Cu 0.02
Ga 0.02
Hg 0.05
K 0.1
Mg 0.1
Mo 0.02
Ni 0.02
Pb 0.01
S 0.2
Fe 0.1
Ge 0.05
In 0.05
Li 0.05
Mn 0.02
Na 0.5
P 0.2
Pt 0.02

Code	Packaging
131079.1611	1000 ml
131079.1612	2.5 l

121079 Isoamyl Alcohol according to Gerber for analysis

for determination of fat in milk

Specifications
Assay (as $C_5H_{12}O$) (G.C.) ..... 98.5 %
Suitability: for fats determination acc. to Gerber passes test

Maximum limit of impurities
Organic impurities ..... passes test
Water (H_2O) ..... 0.3 %

Code	Packaging
121079.1211	1000 ml
121079.1212	2.5 l
121079.0716	25 l

141079 Isoamyl Alcohol pure

Specifications
Assay (as $C_5H_{12}O$) (G.C.) .....98.0 %
Identity .....IR passes test
Density 20/4 ..... 0.809-0.812
Acidity .....0.006 meq/g
Non-volatile matter .....0.01 %
1-Pentanol (G.C.) .....1 %
Water (H_2O) .....0.5 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141079.1211	1000 ml
141079.0716	25 l

A2610 Isoamyl Alcohol for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (G.C.) .....min. 99 %
Free acid .....max. 0.01 %
Non-volatile matter .....max. 0.002 %
Aldehydes .....max. 0.005 %
Furfurol ..... max. 0.0001 %
n-Amyl alcohol ..... max. 0.5 %
Water (K.F.) ..... max. 0.2 %
Al ..... max. 0.00005 %
Ba ..... max. 0.00001 %
Cd ..... max. 0.000005 %
Co ..... max. 0.00001 %
Cr ..... max. 0.000005 %
Fe .....max. 0.00001 %
Mg .....max. 0.00001 %
Mn .....max. 0.000005 %
Ni .....max. 0.000005 %
Pb .....max. 0.00001 %
Zn .....max. 0.00001 %

Code	Packaging
A2610,0500	500 ml

Isobutanol

2-Methyl-1-Propanol, iso-Butanol, Isobutyl Alcohol, iso-Butyl Alcohol

$(CH_3)_2CHCH_2OH$
M = 74.12 g/mol
CAS 78-83-1
EINECS 201-148-0
CS 29051490
Index Nr. 603-108-00-1
Melting Point .....-108 °C
Boiling Point ..... 108 °C
Density .....0.802 kg/l
Solubility ..... water 95 g/l at 20 °C
Refractive Index n20/D 1.3955
Liquid
UN1212
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Danger



H226 H335 H315 H318 H336

131089 Isobutanol (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) .....99.0 %
Identity .....IR passes test
Density 20/4 ..... 0.801-0.802
Range of Distillation (> 96 % dist.) 107-109 °C
Refractive Index n15/D 1.397-1.399

Maximum limit of impurities
APHA colour 10
Acidity .....0.0005 meq/g
Alkalinity .....0.0005 meq/g
Insoluble matter in H_2O .....passes test
Non-volatile matter .....0.001 %
Darkened substances by H_2SO_4 ... passes test
Peroxides (as H_2O2) .....0.001 %
Butanal (G.C.) .....0.01 %
Butanone (G.C.) .....0.02 %
Isobutanal (G.C.) .....0.05 %
Water (H_2O) .....0.1 %

Metals by ICP [in mg/Kg (ppm)]
Ag .....0.05 Al 0.5
As..... 0.05
B..... 0.02
Be..... 0.02
Ca 0.5
Co 0.02
Cu 0.02
Ga 0.02
Hg 0.05
K..... 0.1
Mg..... 0.1
Au 0.05
Ba 0.1
Bi..... 0.05
Cd 0.05
Cr..... 0.02
Fe..... 0.1
Ge..... 0.05
In..... 0.05
Li..... 0.05
Mn..... 0.02

Code	Packaging
131089.1611	1000 ml
131089.1612	2.5 l
131089.0716	25 l

141089 Isobutanol pure

Specifications
Assay (G.C.) .....99 %
Identity .....IR passes test
Density 20/4 ..... 0.801-0.802
Acidity .....0.002 meq/g
Non-volatile matter .....0.01 %
Isobutanal (G.C.) .....0.05 %
Water (H_2O) .....0.5 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141089.1211	1000 ml
141089.0716	25 l

201089 Isobutanol (F.C.C.) food grade

Specifications
Assay (G.C.), not less than .....98.0 %
IR ..... passes test
Density 25/25 .....0.799-0.801
Refractive Index n20/D 1.392-1.397
Acidity value, not more than 2.0
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201089.9774	1000 l

161089 Isobutanol, 99 % for synthesis

Specifications
Minimum assay (G.C.) .....99 %
Identity .....IR passes test
Density 20/4 .....0.801-0.802
Non-volatile matter .....0.001 %
Water (H_2O) .....0.1 %

Code	Packaging
161089.1214	5 l

Isobutyl Alcohol see Isobutanol

3-Isobutyl-1-Methylxanthine

IBMX

$C_{10}H_{14}N_4O_2$
M = 222.25 g/mol
CAS 28822-58-4
EINECS 249-259-3
CS 29335995
Melting Point .....202-203 °C
Solid
WGK 1
Storage 2-8 °C

Warning



H302

A0695 3-Isobutyl-1-Methylxanthine BioChemica

Specifications
Assay (HPLC) .....min. 98 %

Code	Packaging
A0695,0500	500 mg
A0695,0001	1 g

L-Isoleucine

L-2-Amino-3-Methylpentanoic Acid

$C_6H_{13}NO_2$
M = 131.18 g/mol
CAS 73-32-5
EINECS 200-798-2
CS 29224985
Melting Point .....279-280 °C
Solubility ..... 32 g/L (H_2O)
Solid
WGK nwg
Storage RT

A3642 L-Isoleucine for cell culture

• All amino acids are of non-animal origin

Specifications
Ninhydrin test ..... passes test
Assay .....min. 99 %
α20 °C/D (c = 6, 6 M HCl .....39.0-41.8°
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
As .....max. 0.0001 %
Fe .....max. 0.001 %
Pb .....max. 0.001 %

Code	Packaging
A3642,1000	1 kg

Printed on FSC® certified paper from well managed forests

A1440 L-Isoleucine (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 4 %; 250 g/L HCl; calc on dried subst. ..... 40.0-43.0°
α25 °C/D; 4 %; 6 N HCl ..... 38.9-41.8°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.3 %
pH (1 %; H_2O) 5.5-7.0
Sulfated ash ..... max. 0.1 %
Ninhydrin positive substances ..... max. 0.2 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.001 %

Code	Packaging
A1440,1000	1 kg

Isooctane

2,2,4-Trimethylpentane, iso-Butyltrimethylmethane, iso-Octane

C_8H_{18}
M = 114.23 g/mol
CAS 540-84-1
EINECS 208-759-1
CS 29011000
Index Nr. 601-009-00-8

Melting Point ..... -107.4 °C
Boiling Point ..... 99.3 °C
Density ..... 0.69 kg/l
Refractive Index n20/D 1.3916
Liquid

UN1262
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H315 H304 H336 H410

362064 Isooctane for UV, IR, HPLC, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Density 25/4 ..... ≤ 0.690

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0003 %
Sulfur compounds (as S) ..... 0.005 %
Water (H_2O) ..... 0.005 %
Suitability for IR spectrometry: ..... passes test
Fluorescence at 254 nm (as quinine) ..... 1 ppb
Fluorescence at 365 nm (as quinine) ..... 1 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 205 nm (Cut off) ..... ≥ 10 %
Transmittance at 210 nm ..... ≥ 50 %
Transmittance at 220 nm ..... ≥ 80 %
Transmittance at 235 nm ..... ≥ 90 %
Transmittance at 245-400 nm ..... ≥ 98 %
Data of interest in HPLC:
P' + 0.25 E 0.1
Rohrschneider Polarity 0.1
Eluotropic value e° (Al_2O_3) 0.01
Sol. H_2O in solv. at 20 °C 0.011
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
362064.1611	1000 ml
362064.1612	2.5 l

322064 Isooctane for pesticide analysis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 25/4 ..... ≤ 0.690

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.01 %
Signal ECD of pesticide (Lindane a DDT) (as Lindane) ..... 5 ng/l
Signal FID of 2-Octanol to Tetradecanol (as 2-Octanol) ..... passes test

Code	Packaging
322064.1611	1000 ml
322064.1612	2.5 l

132064 Isooctane (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Density 20/20 ..... 0.691-0.696
Range of Distillation (> 95 % dist.) ..... 98-100 °C
Refractive Index n20/D 1.391-1.393

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %
Sulfur compounds (as S) ..... 0.005 %
Water (H_2O) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Ca	0.5
As	0.05	Au	0.05	Co	0.02
B	0.02	Ba	0.1	Cu	0.02
Be	0.02	Bi	0.05	Ga	0.02
				Hg	0.05
				K	0.1
				Mg	0.1
				Mo	0.02
				Ni	0.02
				Pb	0.1

Cd	0.05	Li	0.05
Cr	0.02	Mn	0.02
Fe	0.1	Na	0.5
Ge	0.05	P	0.2
In	0.05	Pt	0.02

Code	Packaging
132064.1611	1000 ml
132064.1612	2.5 l
132064.0314	5 l
132064.3516	25 l
132064.0619	200 l

142064 Isooctane pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 25/4 ..... ≤ 0.690
Acidity ..... 0.001 meq/g
Non-volatile matter ..... 0.005 %
Water (H_2O) ..... 0.05 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
142064.1611	1000 ml
142064.1612	2.5 l
142064.0314	5 l
142064.0616	25 l

162064 Isooctane, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Density 25/4 ..... ≤ 0.690
Non-volatile matter ..... 0.001 %
Water (H_2O) ..... 0.02 %

Code	Packaging
162064.1611	1000 ml
162064.1612	2.5 l
162064.0314	5 l

212064 Isooctane technical grade

Specifications
Assay (G.C.) ..... 99 %
Density 25/4 ..... ≤ 0.690
Acidity ..... 0.005 meq/g
Water (H_2O) ..... 0.1 %

Code	Packaging
212064.1612	2.5 l
212064.3516	25 l

Isoparaffin G

CAS 90622-57-4
EINECS 292-459-0
CS 27101985

Melting Point ..... - 50 °C
Boiling Point ..... 158-176 °C
Density ..... 0.751 kg/l
Solubility ..... Insoluble in water
Refractive Index n20/D 1.418
Liquid

UN3295
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
Storage RT

Danger



H226 H304

125273 Isoparaffin G for analysis

Specifications
Identity ..... IR passes test

Maximum limit of impurities
Non-volatile matter ..... 0.005 %
Sulfur compounds (as S) ..... 0.001 %
Aromatic compounds (UV) (as C_6H_6) ..... 0.05 %
Water (H_2O) ..... 0.05 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	K	0.1
As	0.05	Au	0.05	Mg	0.1
B	0.02	Ba	0.1	Mo	0.02
Be	0.02	Bi	0.05	Ni	0.02
Ca	0.5	Cd	0.05	Pb	0.1
Co	0.02	Cr	0.02	S	0.2
Cu	0.02	Fe	0.1	Si	0.2
Ga	0.02	Ge	0.05	Sr	0.2
Hg	0.1	In	0.05		

Li	0.05		
Mn	0.02		
Na	0.5		
P	0.2		
Pt	0.02		
Sb	0.02		
Sn	0.1		

Code	Packaging
125273.1612	2,5 l
125273.1214	5 l

Isoparaffin H (Substitute of Xylene)

CAS 90622-58-5
EINECS 292-460-6
CS 27122090

Melting Point ..... < - 50 °C
Boiling Point ..... 173-193 °C
Density ..... 0.765 kg/l
Solubility ..... Insoluble in water
Refractive Index n20/D 1.425
Liquid

UN3295
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
Storage RT

Danger



H304 H413 EUH066

255069 Isoparaffin H (Substitute of Xylene) for clinical diagnosis

Specifications
Identity ..... IR passes test

Maximum limit of impurities
Non-volatile matter ..... 0.005 %
Sulfur compounds (as S) ..... 0.001 %

Aromatic compounds (UV)
(as C_6H_6) ..... 0.05 %
Water (H_2O) ..... 0.05 %

Code	Packaging
255069.2711	1000 ml
255069.2714	5 l

Isopentane

2-Methylbutane, Isopentane

C_5H_{12}
M = 72.15 g/mol
CAS 78-78-4
EINECS 201-142-8
CS 29011000
Index Nr. 601-006-00-1

Melting Point ..... -159.9 °C
Boiling Point ..... 27.8 °C
Density ..... 0.620 kg/l
Solubility ..... water 0.36 g/l at 20 °C
Refractive Index n20/D 1.3537
Liquid

UN1265
Class/PG 3/I
ADR 3/I · IMDG 3/I · IATA 3/I
WGK 2
Storage RT

Danger



H224 H304 EUH066 H336 H411

363501 Isopentane for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 99.5 %
Density 20/4 ..... 0.618-0.622

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0003 %

Water (H_2O) ..... 0.005 %
Suitability for IR spectrometry: ..... passes test
Fluorescence at 254 nm (as quinine) .... 2 ppb
Fluorescence at 365 nm (as quinine) .... 2 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 200 nm ..... ≥ 50 %
Transmittance at 210 nm ..... ≥ 80 %
Transmittance at 215 nm ..... ≥ 90 %
Transmittance at 240-400 nm ..... ≥ 98 %

Data of interest in HPLC:
P' + 0.25 E 0.5
Rohrschneider Polarity 0.0
Eluotropic value e° (Al_2O_3) 0.00
Sol. H_2O in solv. at 20 °C 0.01
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
363501.1611	1000 ml

123501 Isopentane for analysis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.618-0.622

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 .. passes test

Sulfur compounds (as S) ..... 0.002 %
n-Pentane (G.C.) ..... 0.5 %
Thiophene ..... passes test
Water (H_2O) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5
As	0.05	Au	0.05
B	0.02	Ba	0.1
Be	0.02	Bi	0.05
Ca	0.5	Cd	0.05
Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Ga	0.02	Ge	0.05
Hg	0.05	In	0.05
K	0.1	Li	0.05
Mg	0.1	Mn	0.02
Mo	0.02	Na	0.5
Ni	0.02	P	0.2
Pb	0.1		

Code	Packaging
123501.1611	1000 ml

143501 Isopentane pure

Specifications
Assay (G.C.) ..... 98 %
Identity ..... IR passes test
Density 20/4 ..... 0.618-0.622
Acidity ..... 0.001 meq/g

Non-volatile matter ..... 0.005 %
Sulfur compounds (as S) ..... 0.005 %
n-Pentane (G.C.) ..... 1 %
Water (H_2O) ..... 0.02 %
Cu ..... 0.00002 %

Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
143501.1611	1000 ml
143501.3514	5 l

Isopropyl Acetate

2-Propyl Acetate, Acetic Acid iso-Propyl Ester, Isopropyl Acetate

$CH_3COOC_3H_7$
M = 102.13 g/mol
CAS 108-21-4
EINECS 203-561-1
CS 29153900
Index Nr. 607-024-00-6

Melting Point ..... -73.4 °C
Boiling Point ..... 90 °C
Density ..... 0.871 kg/l
Solubility ..... water 31 g/l at 20 °C
Refractive Index n20/D 1.3773
Liquid

UN1220
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H319 EUH066 H336

121374 Isopropyl Acetate for analysis

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Density 20/4 ..... 0.869-0.873

Maximum limit of impurities
Acidity (as CH_3COOH) ..... 0.01 %
Non-volatile matter ..... 0.002 %

1-Propyl Acetate (G.C.) ..... 0.1 %
2-Propanol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.1 %
Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.000002 %

Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
121374.1611	1000 ml

161374 Isopropyl Acetate, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test

Density 20/4 ..... 0.869-0.873
Acidity (as CH_3COOH) ..... 0.01 %

Non-volatile matter ..... 0.002 %
Water (H_2O) ..... 0.1 %

Code	Packaging
161374.0616	25 l

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Isopropyl Myristate

Isopropyl Tetradecanoate, Myristic Acid Isopropyl Ester

$C_{17}H_{34}O_2$
M = 270.46 g/mol
CAS 110-27-0
EINECS 203-751-4
CS 29159070

Melting Point ..... 0-1 °C
Density ..... 0.85 g/cm³ (20 °C)
Solubility ..... 0.05 mg/L (H_2O)
Liquid

WGK nwg
Storage RT

143712 Isopropyl Myristate (Ph. Eur.) pure, pharma grade

Specifications
Assay (G.C.) ..... min. 90.0 %
Acid value ..... max. 1.0
Appearance of solution ..... passes test
Ash ..... max. 0.1 %
Identity ..... passes test
Iodine value ..... max. 1.0
Refractive index 1.434-1.437
Saponification No. ..... 202 -212
Viscosity ..... 5-6 mPas
Water (K.F.) ..... max. 0.1 %

Code	Packaging
143712.1211	1 L
143712.1212	2.5 L
143712.3516	25 L

163712 Isopropyl Myristate, 98 % for synthesis

Specifications
Minimum assay (G.C.) ..... 98 %
Density 20/4 ..... 0.852-0.854

Code	Packaging
163712.1611	1000 ml

Isopropyl tetradecanoate see Isopropyl Myristate

Isoquercitrin

Quercetin-3-Glucoside, 3,3',4',5,7-Pentahydroxyflavone-3-β-Glucoside, Trifoliin

Origin for origin please inquire

$C_{21}H_{20}O_{12}$
M = 464.38 g/mol
CAS 21637-25-2
CS 29389090

Solid

Storage 2-8 °C

Warning



H302 H335

A2064 Isoquercitrin for HPLC

Specifications
Assay (HPLC) ..... min. 99 %

Code	Packaging
A2064,0020	20 mg

Isovaleryl-L-val-L-val-statinyl-L-ala-statine see Pepstatin A

Isovitexin

Origin from *Saponaria officinalis*

$C_{21}H_{20}O_{10}$
M = 432.38 g/mol
CAS 38953-85-4
CS 29420000

Solid

Storage 2-8 °C

A5305 Isovitexin for HPLC

Specifications
Assay ..... min. 99 %

Code	Packaging
A5305,0010	10 mg

J SI-124 see Cucurbitacin I

Joklik - MEM, modified for spinner culture, powder

Cell culture media

CS 38210000

Storage 2-8 °C

A1539 Joklik - MEM, modified for spinner culture

Specifications
with Earle's salts (modified)
with L-Glutamine
without Antibiotics
without Calcium chloride
without Sodium hydrogen carbonate

Code	Packaging
A1539,1000	1 L

KAA Agar see Kanamycin Esculin Azide Agar (CeNAN) (DehydratedCulture Media) for microbiology

KAA Broth see Kanamycin Esculin Azide Broth (CeNAN) (Dehydrated Culture Media) for microbiology

Kaempferol

Robigenin, 3',4',5,7-Tetrahydroxyflavone, Trifolitin

Origin from *Aesculus hippocastanum*

$C_{15}H_{10}O_6$
M = 286.24 g/mol
CAS 520-18-3
CS 29329900

Solid

Storage 2-8 °C

A3288 Kaempferol 97 % pure

Specifications
Assay (HPLC) ..... min. 97 %

Code	Packaging
A3288,9025	25 g

Kaempferol-3-Glucoside

Astragalin

Origin from *Aesculus hippocastanum*

$C_{21}H_{20}O_{11}$
M = 448.38 g/mol
CAS 480-10-4
CS 29329900

Solid

Storage 2-8 °C

A2066 Kaempferol-3-glucoside for HPLC

Specifications
Assay (HPLC) .....min. 99 %

Code	Packaging
A2066,0010	10 mg

Kanamycin Esculin Azide Agar

CS 38220000

Solid

Storage RT

A5758 Kanamycin Esculin Azide Agar

Specifications
pH before autoclaving ..... approx. 7.0 (20 °C)

Composition:
Agar ..... 15.0 g/L
Ammonium Ferric Citrate ..... 0.5 g/L
Esculin ..... 1.0 g/L
Kanamycin ..... 0.02 g/L
Peptones .....25.3 g/L
Sodium Azide .....0.15 g/L
Sodium Chloride .....5.0 g/L
Sodium Citrate .....1.0 g/L

Code	Packaging
A5758,0500	500 g

Kanamycin Sulfate

Kanamycin

$C_{18}H_{36}N_4O_{11} \cdot H_2SO_4$
M = 582.58 g/mol
CAS 25389-94-0
CS 29419000

Solid

Storage RT

Danger



H360

A1493 Kanamycin Sulfate BioChemica

Specifications
Assay ..... min. 750 I.U./mg
α20 °C/D; 1 %, H_2O ..... 112-123°
Loss on drying (60 °C) ..... max. 1.5 % (1 Torr)
pH (1 %; H_2O) 6.5-8.5
Kanamycin B .....max. 4 %

Code	Packaging
A1493,0005	5 g
A1493,0010	10 g
A1493,0025	25 g
A1493,0050	50 g
A1493,1000	1 kg

A4789 Kanamycin Sulfate (Ph. Eur., BP) pure, pharma grade

Specifications
Assay (dried subst.) ..... min. 750 I.U./mg
α20 °C/D; 1 %, H_2O,
dried subst. ..... 112-123°
Abnormal toxicity ..... passes test
Identity .....passes test
Loss on drying
(0.67 kPa; 3 h; 60 °C) ..... max. 1.5 %
pH (1 %; H_2O; 25 °C) 6.5-8.5
Sulfated ash ..... max. 0.5 %
Kanamycin B .....max. 4.0 %
Sulfate (dried subst.) ..... 15.0-17.0 %

Code	Packaging
A4789,0010	10 g
A4789,0025	25 g
A4789,0100	100 g

Kaolin

CAS 1332-58-7
EINECS 310-127-6
CS 25070020

Solid

WGK nwg
Storage RT

141149 Kaolin (Ph. Eur.) pure, pharma grade

Specifications
Acidic/alkaline react. subst. ..... passes test
Adsorption power ..... passes test
Colony count
(yeasts & moulds) ..... max. 100 CFU/g
HCl-soluble matter ..... max. 1 %
Heavy metals (as Pb) ..... max. 0.005 %
Identity .....passes test
Organic substances .....passes test
Swelling power .....passes test
Total aerobic microbial counts .....max. 1000 CFU/g
Chloride .....max. 0.025 %
Sulfate .....max. 0.1 %
Ca .....max. 0.025 %

Code	Packaging
141149.0914	5 kg

Karl Fischer's Reagent Composite

CS 38220000

Density .....1.130 kg/l
Solubility .....Miscible with water
Liquid

UN2929
Class/PG 6.1(3)/II
ADR 6.1(3)/II · IMDG 6.1(3)/II · IATA 6.1(3)/II
Storage RT

Danger



H360FD H225 H332 H312 H302 H411

281574 Karl Fischer's Reagent Composite for volumetric analysis

for water determination. 1 ml corresponds to min. 0,005 g of H_2O

Specifications
1 ml of Reagent corresponds to minimum 5 mg of water

Code	Packaging
281574.1611	1000 ml
281574.1612	2.5 l

Kerosene see Petroleum Ether 190-250 °C-Kerosene

HeBaPeaKTMB

α-Ketoglutaric Acid

2-Oxoglutaric Acid

$C_5H_6O_5$
M = 146.10 g/mol
CAS 328-50-7
EINECS 206-330-3
CS 29183000

Melting Point ..... 114-116 °C
Solid

WGK 1
Storage 2-8 °C

Danger



H318

A1138 α-Ketoglutaric Acid BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Loss on drying ..... max. 1 %

pH (1 %; H_2O; 20 °C) 1.5-2.0
A (1 cm/1 % in H_2O)
430 nm ..... max. 0.2

Code	Packaging
A1138,0250	250 g
A1138,1000	1 kg

α-Ketobutyric Acid Sodium Salt

2-Oxobutyric Acid Sodium Salt

$C_4H_5NaO_3$
M = 124.07 g/mol
CAS 2013-26-5
EINECS 217-937-8
CS 29183000

Solubility ..... readily soluble (H_2O)
Solid

WGK 1
Storage 2-8 °C

Warning



H315 H319 H335

A1945 α-Ketobutyric Acid Sodium Salt BioChemica

Specifications
Assay (titr.) ..... min. 98 %
Water (K.F.) ..... max. 2 %

Code	Packaging
A1945,0025	25 g
A1945,0200	200 g
A1945,1000	1 kg

KIA, Kligler Agar see Kligler Iron Agar (Dehydrated Culture Media) for microbiology

Kieselgur see Siliceous Earth purified and calcined

Kinetin

N^6-Furfuryladenine, 6-Furfurylaminopurine

$C_{10}H_9N_5O$
M = 215.22 g/mol
CAS 525-79-1
EINECS 208-382-2
CS 29349990

Solid

WGK 1
Storage RT

A4907 Kinetin BioChemica

Specifications
Assay (HPLC) ..... min. 99 %

Heavy metals (as Pb) ..... max. 0.0005 %
Residue on ignition ..... max. 0.1 %

Code	Packaging
A4907,0005	5 g

King Agar B Base see King B Medium (Dehydrated Culture Media) for microbiology

Kit for Fast Staining in Haematology (Fast Panoptic)

CS 38220000

UN1992
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
Storage RT

Danger



H225 H331 H311 H301 H370

254807 Kit for Fast Staining in Haematology (Fast Panoptic) for clinical diagnosis

Specifications
Comprised of:
253998 Blue for fast staining (Panoptic No. 3) (1x500 ml)
253999 Eosin for fast staining (Panoptic No. 2) (1x500 ml)
254101 Fixing for fast staining (Panoptic No. 1) (1x500 ml)

Code	Packaging
254807.0922	pack

Kjeldahl see Kjeldahl Catalyst (Cu) (0.3 % $CuSO_4 \cdot 5H_2O$) tablets

Kjeldahl Catalyst (Cu-Se) powder

CS 38220000

Solubility ..... Soluble in water.
Solid

UN3288
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage RT

Danger



H373 H412

172429 Kjeldahl Catalyst (Cu-Se) powder

(Potassium Sulfate + Copper(II) Sulfate + Selenium). For N determination according to Wieber

Composition:
Potassium Sulfate ..... 96.5 %
Copper(II) Sulfate 5-hydrate ..... 1.5 %
Selenium ..... 2 %

Code	Packaging
172429.1211	1000 g
172429.1214	5 kg

Printed on FSC® certified paper from well managed forests

Kjeldahl Catalyst (Cu) (0.3 % $CuSO_4 \cdot 5H_2O$) tablets

CS 38220000

tablets
3,5 and 5,0 g Tablets

Storage RT
H412

173350 Kjeldahl Catalyst (Cu) (0.3 % in $CuSO_4 \cdot 5H_2O$) tablets

(Potassium Sulfate + Copper(II) Sulfate). Missouri Catalyst

Composition:
Potassium Sulfate ..... 99.7 %
Copper(II) Sulfate 5-hydrate ..... 0.3 %

Code	Packaging
173350.1230	1250 g
173350.1213	3.5 kg
173350.1214	5 kg

Kjeldahl Catalyst (Cu) (6.25 % $CuSO_4 \cdot 5H_2O$) tablets

CS 38220000

Solubility ..... Soluble in water.
tablets

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
Storage RT

Warning



H411

174428 Kjeldahl Catalyst (Cu) (6.25 % in $CuSO_4 \cdot 5H_2O$) tablets

according to Directive 93/28/EEC (Potassium Sulfate + Copper(II) Sulfate)

Composition:
Potassium Sulfate ..... 93.75 %
Copper(II) Sulfate 5-hydrate ..... 6.25 %

Code	Packaging
174428.1246	4 kg

Kjeldahl Catalyst (Cu) (9 % $CuSO_4 \cdot 5H_2O$) tablets

CS 38220000

Solubility ..... Soluble in water.
tablets

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
Storage RT

Warning



H411

175639 Kjeldahl Catalyst (Cu) (9 % in $CuSO_4 \cdot 5H_2O$) tablets

(Potassium Sulfate + Copper(II) Sulfate).For N determination

Composition:
Potassium Sulfate ..... 91 %
Copper(II) Sulfate 5-hydrate ..... 9 %

Code	Packaging
175639.12111	1650 g
175639.1214	5 kg

Kjeldahl Catalyst (Cu-Se) (1.5 % $CuSO_4 \cdot 5H_2O$ + 2 % Se) tablet

CS 38220000

Solubility ..... in water at 20 °C
tablets

UN3288
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage RT

Danger



H373 H412

172926 Kjeldahl Catalyst (Cu-Se) (1.5 % $CuSO_4 \cdot 5H_2O$ + 2 % Se) tablets

(Potassium Sulfate + Copper(II) Sulfate + Selenium). For N determination according to Wieninger

Composition:
Potassium Sulfate ..... 96.5 %
Copper(II) Sulfate 5-hydrate ..... 1.5 %
Selenium ..... 2 %

Code	Packaging
172926.1211	1000 g
172926.1213	3.5 kg
172926.1214	5 kg

Kjeldahl Catalyst (Cu-Se) (9 % $CuSO_4 \cdot 5H_2O$ + 0.9 % Se) tablets

CS 38220000

tablets

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
Storage RT

Warning



H411

175570 Kjeldahl Catalyst (Cu-Se) (9 % $CuSO_4 \cdot 5H_2O$ + 0.9 % Se) tablets

(Potassium Sulfate + Selenium metal + Copper(II) Sulfate 5-hydrate). For soil analysis

Composition:
Copper(II) Sulfate 5-hydrate ..... 9 %
Potassium Sulfate ..... 90 %
Selenium metal ..... 0.9 %

Code	Packaging
175570.1246	4 kg

Kjeldahl Catalyst (Cu-TiO2) tablets

CS 38220000

Solubility ..... Very slightly soluble in water.
tablets

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
Storage RT

Warning



H411

173349 Kjeldahl Catalyst (Cu-TiO2) tablets

(Potassium Sulfate + Sodium Sulfate + Copper(II) Sulfate 5-hydrate + Titanium(IV) Oxide)

Composition:
Sodium Sulfate ..... 47.17 %
Potassium Sulfate ..... 47.17 %
Copper(II) Sulfate 5-hydrate ..... 2.83 %
Titanium(IV) Oxide ..... 2.83 %

Code	Packaging
173349.12178	875 g
173349.1230	1250 g
173349.1296	3.71 kg
173349.1214	5 kg

НеваРеактив

Kjeldahl Catalyst (Se) tablets

CS 38220000

Solubility ..... Soluble in water.
tablets
3,5 and 5,0 g Tablets

Storage RT

173348 Kjeldahl Catalyst (Se) tablets

(Potassium Sulfate + Selenium)

Composition:
Potassium Sulfate .....99.9 %
Selenium .....0.1 %

Code	Packaging
173348.1213	3.5 kg
173348.1214	5 kg

Kovacs' Reagent

Indole reagent

CS 28061000

Density .....0.924 kg/l
Solubility .....Miscible with water
Liquid

UN2920
Class/PG 8(3)/II
ADR 8(3)/II · IMDG 8(3)/II · IATA 8(3)/II
WGK 1
Storage between 2-8 °C

Danger



H225 H302 H335 H315 H318 H336

252908 Kovacs' Reagent for clinical diagnosis

For detection of indole Procedure: Add about 0,5 ml of the Kovacs reagent to a broth culture that has been incubated for 24-48 hours. Shake gently. Red to pink-purple colour development indicates a positive indole test. The test can be also carried out after a 18 hours incubation; in this case, the reagent is added to only 1 or 2 ml of broth culture. If the reaction test is negative, incubation must be continued for 24 hours.

Composition:
4-(Dimethylamino) benzaldehyde .....50 g
Hydrochloric Acid 37 % .....250 ml
1-Butanol .....750 ml

Code	Packaging
252908.1608	100 ml

Kristenson's solution

Formic Acid Sodium Formiate buffer

CS 38220000

Liquid

UN3265
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314

A4181 Kristenson's solution

Specifications
pH (20 °C) 2.2-2.7

Composition:
Formic acid ..... 200 ml/L
Sodium Formiate ..... 42.67 g/L

Code	Packaging
A4181,1000	1 L

Kühne's Methylene Blue Phenicated solution

CS 38220000

Density .....0.995 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

Warning



H312 H302

251172 Kühne's Methylene Blue Phenicated solution for clinical diagnosis

for microscopy

Composition:
Methylene Blue ..... 9 g
Ethanol absolute ..... 90 ml
Phenol ..... 26 ml
Water ..... 1000 ml

Identity ..... passes test

Maximum limit of impurities
Staining suitability ..... passes test

Code	Packaging
251172.1208	100 ml
251172.1209	250 ml
251172.1211	1000 ml

Kupfer(I) Cyanide

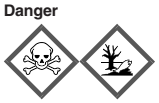
Cupricin

CuCN
M = 89.56 g/mol
CAS 544-92-3
EINECS 208-883-6
CS 28371900
Index Nr. 006-007-00-5

Melting Point ..... 474 °C
Solubility .....Insoluble in water
Solid

UN1587
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage RT

Danger



H330 H310 H300 EUH032 H410

141263 Copper(I) Cyanide pure

Specifications
Assay (Compl.) ..... 98 %
Insoluble matter in NaCN ..... passes test

Chloride (Cl) .....0.2 %
Sulfate (SO_4) .....0.1 %

Water (H_2O) .....0.5 %
Fe ..... 0.005 %

Code	Packaging
141263.1214	5 kg

Kuromanin Chloride

Cyanidin-3-Glucoside Chloride

Origin from *Rubus fructicosus*

$C_{21}H_{21}ClO_{11}$
M = 484.84 g/mol
CAS 7084-24-4
[illegible]9420000

Solid

Storage 2-8 °C

A7[illegible] Kuromanin Chloride for HPLC

Specifica
Assay .....min. 97 %

Code	Packaging
A7888,0010	10 mg

НеваРеактив

Labeling Kit with Colorada 490 dye - Minimal Label Approach see Colorada 490 DIGE Labeling Kit

Labeling Kit with Colorada 550 dye - Minimal Label Approach see Colorada 550 DIGE Labeling Kit

Labeling Kit with Colorada 645 dye - Minimal Label Approach see Colorada 645 DIGE Labeling Kit

Lacmus (C.I. 1242)

Litmus

CAS 1393-92-6
CS 32030010

Solid

Storage RT

147100 Lacmus pure (C.I. 1242)

Specifications
λ_1 (pH 5.0) ..... 498-503 nm
λ_2 (pH 8.0) ..... 580-585 nm
Loss on drying ..... max. 10 % (110 °C)

Code	Packaging
147100.1208	100 g

Lactic Acid

(S)-2-Hydroxypropanoic Acid

$C_3H_6O_3$
M = 90.08 g/mol
CAS 79-33-4
EINECS 201-196-2
CS 29181100

Melting Point ..... 18 °C
Boiling Point ..... 122 °C
Density ..... 1.20 kg/l
Refractive Index n20/D 1.4251
Liquid

WGK 1
Storage RT

Warning



H319 H315

121034 L(+)-Lactic Acid for analysis

Specifications
Minimum assay (Acidim.) ..... 85.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... passes test
Darkened substances by H_2SO_4 ... passes test
Residue on ignition (as SO_4) ..... 0.02 %
Chloride (Cl) ..... 0.001 %
Sulfate (SO_4) ..... 0.002 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00001 %
Cu ..... 0.0005 %
Fe ..... 0.0002 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
121034.1211	1000 ml
121034.1214	5 l

141034 L(+)-Lactic Acid (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay ($C_3H_6O_3$) ..... 88.0-92.0 %
Minimum assay
(as S-enantiomer) ..... 95.0 % del $C_3H_6O_3$
Identity according to
Pharmacopoeias: ..... passes test
Density 20/20 ..... 1.20-1.21

Maximum limit of impurities
Appearance ..... passes test
Insoluble matter in
Ether-insoluble substances ..... passes test
Insoluble matter in H_2O ..... passes test
Darkened substances by H_2SO_4 ... passes test
Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.002 %
Sulfate (SO_4) ..... 0.002 %
Residual solvents (Ph. Eur.) ..... passes test
Citric, oxalic and
phosphoric acids ..... passes test
Volatile fatty acids ..... passes test
Sugars and other reducing
substances ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0001 %
Ca ..... 0.02 %

Code	Packaging
141034.1210	500 ml
141034.1211	1000 ml
141034.1212	2.5 l
141034.1214	5 l
141034.0715	10 l
141034.0716	25 l

201034 L(+)-Lactic Acid (F.C.C.) food grade

Specifications
Assay (as $C_3H_6O_3$), not less than ..... 85.0 %
Residue on ignition, not more than ..... 0.1 %
Chloride (Cl), not more than ..... 0.02 %
Sulfate (SO_4), not more than ..... 0.05 %
Citric, Oxalic, Phosphoric,
or Tartaric Acids ..... passes test
Sugars and other reducing
substances ..... passes test
Cyanide, not more than ..... 5 ppm
Arsenic (as As), not more than ..... 3 ppm
Iron, not more than ..... 10 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 0.5 ppm
Heavy metals (as Pb),
not more than ..... 10 ppm
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201034.1214	5 l

Lactic acid calcium salt see Calcium Lactate 5-hydrate

L(+)-Lactic Acid Lithium Salt crystalline

Lithium-L-Lactate

$C_3H_5LiO_3$
M = 96.01 g/mol
CAS 27848-80-2
EINECS 248-692-5
CS 29181100

Solid

Storage RT

A0982 L(+)-Lactic Acid Lithium Salt crystalline BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Solubility (1 %; H_2O) ..... clear, colorless
Water ..... max. 2 %

Code	Packaging
A0982,1000	1 kg
A0982,5000	5 kg
A0982,9025	25 kg

L(+)-Lactic Acid Sodium Salt see L(+)-Sodium Lactate crystalline

Lactophenol Blue solution

CS 38220000

Density ..... 1.172 kg/l
Liquid

UN2927
Class/PG 6.1(8)/II
ADR 6.1(8)/II · IMDG 6.1(8)/II · IATA 6.1(8)/II
Storage RT

Danger



H311 H301 H314

253724 Lactophenol Blue solution for clinical diagnosis

for mycology, bacteriology

Composition:
Methyl Blue ..... 50 mg
Phenol ..... 25 g
L(+)-Lactic Acid ..... 20.8 ml
Glycerol ..... 39.5 ml
Water (s.q.m) ..... 100 ml

Code	Packaging
253724.1608	100 ml

D(+)-Lactose 1-hydrate

Lactobiose, 4-O-b-D-Galactopyranosyl-D-Glucose, Milk sugar

$C_{12}H_{22}O_{11} \cdot H_2O$
M = 360.32 g/mol
CAS 10039-26-6
EINECS 200-559-2
CS 17021100

Solubility ..... 216 g/L (H_2O)
Solid

WGK nwg
Storage RT

141375 D(+)-Lactose 1-hydrate (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to Pharmacopoeias: ..... passes test
Specific rotation α n20/D c= 10 (in H_2O) ..... 54.4-55.9°

Maximum limit of impurities
ABS λ_{max} 270-300 nm 1 % sol. in H_2O 0.07
ABS λ_{max} 400 nm 10 % sol. in H_2O 0.04
ABS λ_{max} 210-220 nm 1 % sol. in H_2O 0.25
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... passes test

Loss on drying at 80 °C ..... 0.5 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.02 %
Residual solvents (Ph. Eur./USP) . passes test
Water (H_2O) ..... 4.5-5.5 %
Total aerobic microbial count (TAMC) ..... 100 cfu /g
Yeasts and molds ..... 50 cfu/g
Escherichia coli .....negative
Salmonella .....negative
Microbial limits: .....negative
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1.300 ppm
As ..... 0,0001 %
Product obtained from animal milk with collection in the same conditions that the milk obtained for human consumption.

Code	Packaging
141375.1210	500 g
141375.1211	1000 g
141375.0914	5 kg
141375.0416	25 kg

A0880 D(+)-Lactose 1-hydrate BioChemica

Specifications
α20 °C/D; 10 %, H_2O ..... 54.4-55.9°
Heavy metals (as Pb) ..... max. 0.0005 %
Insoluble matter ..... passes test

Water (K.F.) ..... 4.5-5.5 %
Cr ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Zn ..... max. 0.0005 %

Code	Packaging
A0880,1000	1 kg
A0880,5000	5 kg

Lactose Peptone Broth, DEV

CS 38210000

Solid

Storage RT

A8175 Lactose peptone broth, DEV

Specifications
pH before autoclaving ..... approx. 7.2 (20 °C)

Composition:
Bromocresol purple ..... 0.02 g/L
Lactose ..... 10.0 g/L
Peptones ..... 20.0 g/L
Sodium Chloride ..... 5.0 g/L

Code	Packaging
A8175,0500	500 g

Lactulose

$C_{12}H_{22}O_{11}$
M = 342.30 g/mol
CAS 4618-18-2
EINECS 225-027-7
CS 29400000

Melting Point ..... 163-165 °C
Solid

Storage RT

A0887 Lactulose BioChemica

Specifications
Assay (HPLC) ..... min. 98 %
α20 °C/D; 1 %, H_2O ..... -46 to -50°

Heavy metals ..... max. 0.001 %
Sulfated ash ..... max. 0.2 %
Water (K.F.) ..... max. 1 %

Code	Packaging
A0887,0025	25 g

Lanthanum(III) Chloride 7-hydrate

$LaCl_3 \cdot 7H_2O$
M = 371.37 g/mol
CAS 10025-84-0
EINECS 233-237-5
CS 28469000

Melting Point ..... 91 °C
Solubility ..... Soluble in water.
Solid

WGK 2
Storage RT

122848 Lanthanum(III) Chloride 7-hydrate for analysis

Specifications
Minimum assay (Compl.) ..... 98.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %

Sulfate (SO_4) ..... 0.005 %
Ca ..... 0.005 %
Cu ..... 0.0003 %
Fe ..... 0.0005 %
K ..... 0.005 %
Mg ..... 0.0003 %
Na ..... 0.01 %
Pb ..... 0.0005 %
Zn ..... 0.001 %

Code	Packaging
122848.1208	100 g
122848.1209	250 g

Lanthanum(III) Nitrate 6-hydrate

$La(NO_3)_3 \cdot 6H_2O$
M = 433.02 g/mol
CAS 10277-43-7
EINECS 233-238-0
CS 28469000

Melting Point ..... 40 °C
Boiling Point ..... 126 °C
Solubility ..... water 1,580 g/l at 25 °C
Solid

UN1477
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage RT

Danger



H272 H319 H335 H315

122669 Lanthanum(III) Nitrate 6-hydrate for analysis

Specifications
Minimum assay (Compl.) ..... 99 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.005 %

Sulfate (SO_4) ..... 0.002 %
Ca ..... 0.005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.005 %
Mg ..... 0.0005 %
Na ..... 0.01 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
122669.1208	100 g
122669.1209	250 g

Lanthanum Nitrate 0.1 mlol/l (0.1N)

CS 38220000

Liquid

Storage RT

Warning



H319

187042 Lanthanum Nitrate 0.1 mlol/l (0.1N) volumetric solution

Specifications
Factor limits 0.995-1.005

Code	Packaging
187042.1211	1 L

Lanthanum(III) Oxide

La_2O_3
M = 325.81 g/mol
CAS 1312-81-8
EINECS 215-200-5
CS 28469000

Melting Point ..... 2,315 °C
Boiling Point ..... 4,200 °C
Solubility ..... Insoluble in water
Solid

WGK nwg
Storage RT

122705 Lanthanum(III) Oxide (Reag. Ph. Eur.) for analysis

Flux. For AA-spectrophotometry

Specifications
Minimum assay (Compl.) (a.i.s.) .....99 %

Maximum limit of impurities
Al ..... 0.001 %

Ca ..... 0.005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0003 %
Fe ..... 0.0003 %
K ..... 0.005 %
Mg ..... 0.0003 %

Mn ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0003 %
Pb ..... 0.0005 %
Sr ..... 0.001 %
Zn ..... 0.0003 %

Code	Packaging
122705.1607	50 g
122705.1609	250 g

142705 Lanthanum(III) Oxide pure

Specifications
Assay (Compl.) (a.i.s.) .....98 %
Insoluble matter in HNO_3 ..... 0.025 %
Cu ..... 0.005 %

Fe ..... 0.005 %
Ni ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
142705.1208	100 g
142705.1209	250 g

Lasiocarpine

7-Angelyleuropine

Origin from *Heliotropium*

$C_{21}H_{33}NO_7$
M = 441.49 g/mol
CAS 303-34-4
CS 29399900

UN1544
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage 2-8 °C

Danger



H301 H373

A9596 Lasiocarpine for HPLC

Specifications
Assay (HPLC) .....min. 96 %

Code	Packaging
A9596,0010	10 mg
A9596,0020	20 mg

Lasiocarpine-N-oxide

7-Angelyleuropine

Origin from *Heliotropium*

$C_{21}H_{33}NO_8$
M = 457.49 g/mol
CAS 127-30-0
CS 29399900

UN1544
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage 2-8 °C

Danger



H301 H373

A9600 Lasiocarpine-N-Oxide for HPLC

Specifications
Assay (HPLC) .....min. 96 %

Code	Packaging
A9600,0010	10 mg
A9600,0020	20 mg

N-Lauroylsarcosine Sodium Salt

Lauroylsarcosinate, N-Dodecanoyl-N-Methylglycine Sodium Salt, Sarkosyl

$C_{15}H_{28}NNaO_3$
M = 293.39 g/mol
CAS 137-16-6
EINECS 205-281-5
CS 34021190

Solid

UN2811
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 1
Storage RT

Danger



H315 H317 H318 H330

A7402 N-Lauroylsarcosine Sodium Salt for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) .....min. 97 %
Water (K.F.) .....max. 6 %

Code	Packaging
A7402,0100	100 g
A7402,0500	500 g

HeBaPeaKTMB

Printed on FSC® certified paper from well managed forests

A1163 N-Lauroylsarcosine Sodium Salt ultrapure

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Loss on drying ..... max. 0.5 %
pH (5 %; H_2O; 20 °C) 7.0-9.0
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %

Code	Packaging
A1163,0025	25 g

A0422 N-Lauroylsarcosine Sodium Salt pure

Specifications
Assay (titr., calc. on dried substance) ..... min. 97 %
Water (K.F.) ..... max. 6 %

Code	Packaging
A0422,0100	100 g
A0422,0500	500 g

N-Lauroylsarcosinate solution 30 %

N-Dodecanoyl-N-methylglycine Sodium Salt - Solution, Sodium Lauroylsarcosinate - Solution

CS 29241900

Liquid

UN2810
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 1
Storage 2-8 °C

Danger



H315 H318 H330

A3457 N-Lauroylsarcosinate solution 30 % pure

Specifications
Appearance of solution ..... clear, yellowish
pH (H_2O; 20 °C) 7.0-9.0

Composition:
Lauroylsarcosinate ..... 300 g/L

Code	Packaging
A3457,0500	500 ml

Lauryl-β-D-Maltoside see n-Dodecyl-β-D-Maltoside

Lauryltrimethylammonium Bromide see Dodecyltrimethylammonium Bromide

LB Broth, Miller see Luria Broth Base (Dehydrated Culture Media) for microbiology

LB Medium see Luria Broth Base (Dehydrated Culture Media) for microbiology

LB-Agar - Powder according to Lennox

CS 38210000

Solid

Storage RT

A7459 LB-Agar - Powder according to Lennox

for Luria-Bertani Agar plates according to Lennox for cultivation of E. coli in molecular biology

Specifications
Appearance after heating ... clear, brown liquid
Gel strength ..... passes test

Composition:
Agar ..... 15 g/L
NaCl ..... 5 g/L
Tryptone ..... 10 g/L
Yeast extract ..... 5 g/L

Code	Packaging
A7459,0500G	500 g
A7459,1000KG	1 kg

LB-Agar - Powder according to Miller

CS 38210000

Storage RT

A0927 LB-Agar - Powder according to Miller

for Luria-Bertani Agar plates according to Miller for cultivation of E. coli in molecular biology

Composition:
Agar (A0949) ..... 15 g/L
NaCl (A1149) ..... 10 g/L
Tryptone (A1553) ..... 10 g/L
Yeast extract (A1552) ..... 5 g/L

Code	Packaging
A0927,2500KG	2.5 kg
A0927,1000KG	1 kg
A0927,9010	10 L

LB-Medium - Powder according to Lennox

Luria-Bertani - Medium according to Lennox

CS 38210000

Storage RT

A6666 LB-Medium - Powder according to Lennox

Luria-Bertani-Medium according to Lennox for cultivation of E. coli in molecular biology

Composition:
NaCl (A1149) ..... 5 g/L
Tryptone (A1553) ..... 10 g/L
Yeast extract (A1552) ..... 5 g/L

Code	Packaging
A6666,2500KG	2.5 kg
A6666,0500G	500 g
A6666,1000KG	1 kg

LB-Medium - Powder according to Miller

LB-Medium, high salt

CS 38210000

Storage RT

A0954 LB-Medium - Powder according to Miller

Luria-Bertani-Medium according to Miller for cultivation of E. coli in molecular biology

Composition:
NaCl ..... 10 g/L
Tryptone ..... 10 g/L
Yeast extract ..... 5 g/L

Code	Packaging
A0954,2500KG	2.5 kg
A0954,0500G	500 g
A0954,1000KG	1 kg
A0954,9010	10 L

Lipoprotein, low density (LDL), human see Lipoprotein, low density (LDL), human

Lead Oxide see Lead(II) Oxide

Lead Subacetate see Lead(II) Hydroxideacetate

Lead(II) Acetate Basic see Lead(II) Hydroxideacetate

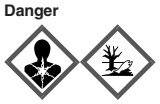
Lead(II) Acetate 3-hydrate

$Pb(CH_3COO)_2 \cdot 3H_2O$
M = 379.33 g/mol
CAS 6080-56-4
EINECS 206-104-4
CS 29152900
Index Nr. 082-005-00-8

Melting Point ..... 71 °C
Solubility ..... water 410 g/l at 20 °C
Solid

UN1616
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H360Df H373 H410

131466 Lead(II) Acetate 3-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Assay (Compl.) ..... 99.5-103.0 %

Maximum limit of impurities
Insoluble matter in CH_3COOH ..... 0.005 %
Chloride (Cl) ..... 0.0005 %

Nitrate and nitrite (as NO_3) ..... 0.002 %
Ca ..... 0.005 %
Cd ..... 0.001 %
Co ..... 0.001 %
Cu ..... 0.001 %
Fe ..... 0.001 %

K ..... 0.005 %
Mg ..... 0.005 %
Na ..... 0.01 %
Ni ..... 0.001 %
Zn ..... 0.001 %

Code	Packaging
131466.1210	500 g
131466.1214	5 kg
131466.0416	25 kg

141466 Lead(II) Acetate 3-hydrate pure

Specifications
Assay (Compl.) ..... 99 %
Insoluble matter in CH_3COOH ..... 0.025 %
Chloride (Cl) ..... 0.005 %

Cu ..... 0.003 %
Fe ..... 0.003 %

Code	Packaging
141466.1211	1000 g
141466.1214	5 kg
141466.0416	25 kg

Lead(II) Hydroxideacetate

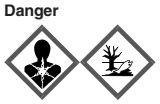
Lead Subacetate, Lead(II) Acetate Basic

M = 870.6 g/mol
CAS 1335-32-6
EINECS 215-630-3
CS 29152900
Index Nr. 082-007-00-9

Solubility ..... water 62 g/l at 20 °C
Solid

UN2291
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H360Df H373 H351 H410

131467 Lead(II) Hydroxideacetate for sugar analysis according to Horne, ACS

Specifications
Minimum assay (as Pb) (Compl.) ..... 72.0 %

Maximum limit of impurities
Insoluble matter in CH_3COOH ..... 0.02 %

Insoluble matter in H_2O ..... 1.0 %
Loss on drying at 105 °C ..... 1.5 %
Chloride (Cl) ..... 0.003 %
Nitrate and nitrite (as NO_3) ..... 0.003 %
Minimum basic lead (as PbO) ..... 33.0 %

Ca ..... 0.01 %
Cu ..... 0.002 %
Fe ..... 0.002 %
K ..... 0.02 %
Na ..... 0.05 %

Code	Packaging
131467.1214	5 kg

Lead(II) Hydroxideacetate solution ~ 23 % w/w

M = 807.6 g/mol
CAS 1335-32-6
EINECS 215-630-3
CS 29152900
Index Nr. 082-007-00-9

Density ..... 1.330 kg/l
Liquid

UN2810
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage RT

Danger



H360Df H373 H351 H410

146958 Lead(II) Hydroxideacetate solution ~ 23 % w/w (as Pb) pure

Specifications
Assay (as Pb) (Compl.) (w/w) ..... 21.0-25.6 %

Code	Packaging
146958.0716	25 l
146958.0719	200 l

Lead(II) Hydroxideacetate solution

Lead Subacetate, Lead(II) Acetate Basic

M = 870.6 g/mol
CAS 1335-32-6
EINECS 215-630-3
CS 29152900
Index Nr. 082-007-00-9

Density ..... 1.200 kg/l
Solubility ..... Miscible with water
Liquid

UN2810
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H360Df H373 H351 H410

141477 Lead(II) Hydroxideacetate solution pure

Specifications
Assay (as PbO) (Compl.) w/v ..... 20-25 %
Density 20/4 ..... 1.20-1.25

Code	Packaging
141477.1211	1000 ml
141477.0716	25 l

HeBaPeaKTMB

Lead(II) Nitrate

$Pb(NO_3)_2$
M = 331.20 g/mol
CAS 10099-74-8
EINECS 233-245-9
CS 28342920
Index Nr. 082-001-00-6

Melting Point ..... 470 °C
Solubility ..... water 525 g/l at 20 °C
Solid

UN1469
Class/PG 5.1(6.1)/II
ADR 5.1(6.1)/II · IMDG 5.1(6.1)/II · IATA 5.1(6.1)/II
WGK 3
Storage RT

Danger



H360Df H332 H302 H373 H410

131473 Lead(II) Nitrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Compl.) ..... 99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.001 %

Metals by ICP [in mg/Kg (ppm)]
Ag.....5 Al.....5 As.....5 B.....5 Bi.....5 Cd.....5 Cr.....5 Fe.....5 Ge.....5 In.....5 Li.....5 Au.....5 Be.....5 Ca.....50 Co.....5 Cu.....5 Ga.....5 Hg.....5 K.....20 Mn.....5 Mo.....5 Ni.....5 Sb.....5 Sn.....5 Ti.....5 Zr.....5 Na.....20 Pt.....5 Si.....5 Sr.....5 Zn.....5

Code	Packaging
131473.1210	500 g
131473.0416	25 kg

141473 Lead(II) Nitrate pure

Specifications
Assay (Compl.) ..... 98 %
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.005 %
Ca ..... 0.05 %
Cu ..... 0.002 %
Fe ..... 0.002 %

Code	Packaging
141473.1211	1000 g
141473.0416	25 kg

Lead(II) Oxide

Lead Monoxide, Lead Protoxide, Litharge

PbO
M = 223.20 g/mol
CAS 1317-36-8
EINECS 215-267-0
CS 28241000
Index Nr. 082-001-00-6

Melting Point ..... 890 °C
Boiling Point ..... 1,470 °C
Solubility ..... Insoluble in water
Solid

UN2291
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H360Df H332 H302 H373 H410

141475 Lead(II) Oxide (DAC) pure, pharma grade

Specifications
Assay (Compl.) ..... 99.0-100.5 %

Maximum limit of impurities
Insoluble matter in CH_3COOH dil ..... 0.2 %
Loss on ignition 700 °C ..... 0.2 %
Chloride (Cl) ..... 0.05 %
Nitrate (NO_3) ..... 0.05 %
Cu ..... 0.005 %
Fe ..... 0.005 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141475.1210	500 g

Lecithins

L-α-Phosphatidylcholine

CAS 8002-43-5
EINECS 232-307-2
CS 29232000

Solid

Storage -20 °C

A0893 Lecithin from Egg BioChemica

Specifications
Phosphatidylcholine .....min. 60 %
E. coli .....negative
Iodine value 60-70
Peroxide number .....max. 3.0
Lysophosphatidylcholine .....max. 3 %
nonpolar lipides .....max. 20 %
Water (K.F.) .....max. 2 %

Code	Packaging
A0893,0100	100 g
A0893,0250	250 g
A0893,0500	500 g
A0893,1000	1 kg
A0893,9010	10 kg

A2218 Lecithin from Soybean 90 %

Specifications
Phosphatidylcholine .....min. 90 %
Endotoxin .....max. 6 EU/g
Free fatty acids .....max. 0.5 %
Heavy metals ..... max. 0.001 %
Iodine value 97-107
Water (K.F.) ..... max. 2 %

Code	Packaging
A2218,0050	50 g
A2218,0100	100 g
A2218,0250	250 g

A2182 Lecithin from Soybean 30 %

Specifications
Phosphatidylcholine ..... approx. 30 %
Water (K.F.) .....max. 5 %

Code	Packaging
A2182,1000	1 kg

Lectins

Concanavalin A

M = approx. 110000 g/mol
CAS 11028-71-0
EINECS 291-083-4
CS 29420000

Storage -20 °C

A1884 Lectin from Canavalia ensiformis (Con A)

Specifications
Activity: < 2 µg/ml with trypsinized human erythrocytes
Isolation: affinity chromatography in the presence of Ca and Mn ions
Solubility: 5 mg/ml in PBS buffer at 20 °C supplied as white lyophilisate, salt-free

Code	Packaging
A1884,9025	25 g

Legionella Agar (BCYEx) see BCYEx Agar (ISO 11731:1998) (Prepared Plate (∅ 90 mm)) for microbiology

Legionella Selective, Agar (BCYE) see Legionella Selective Agar (ISO 11731:1998) (Prepared Plate (∅ 90 mm)) for microbiology

Leibovitz's L15 - Medium, powder

Cell culture media

CS 38210000

Storage 2-8 °C

A1323 Leibovitz's L15 - Medium

Specifications
with L-Glutamine
without Sodium hydrogen carbonate

Code	Packaging
A1323,9050	50 L

A8377 Leibovitz's L15 - Medium w/o L-Glutamine

Code	Packaging
A8377,9020	20 L

Leishman Stain see Eosin-Methylene Blue dye according to Leishman

L-Leucine

L-2-Amino-iso-Hexanoic Acid

$C_6H_{13}NO_2$
M = 131.18 g/mol
CAS 61-90-5
EINECS 200-522-0
CS 29224985

Solubility ..... 24.5 g/L (H_2O)
Solid

WGK nwg
Storage RT

A3496 L-Leucine Cell culture grade

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) .....min. 99 %
α20 °C/D; 4 %, 6 M HCl .....14.9-16.5°

Other amino acids .....max. 0.5 %
Ammonium .....max. 0.02 %
Chloride .....max. 0.02 %
Sulfate .....max. 0.02 %

As .....max. 0.0001 %
Fe .....max. 0.001 %
Pb .....max. 0.001 %

Code	Packaging
A3496,1000	1 kg

A3460 L-Leucine BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) .....min. 99 %
α20 °C/D; 4 %, 6 M HCl .....14.9-16.5°
Heavy metals (as Pb) .....max. 0.001 %

Insoluble matter .....passes test
Other amino acids .....max. 0.5 %
Ammonium .....max. 0.02 %
Chloride .....max. 0.02 %

Sulfate .....max. 0.02 %
A (1 cm/0.1 M in 1 M HCl)
260 nm .....max. 0.05
280 nm .....max. 0.05

Code	Packaging
A3460,0100	100 g
A3460,1000	1 kg

A1426 L-Leucine (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 4 %, HCl 250 g/L, calc on dried subst. .....14.5-16.5°
α25 °C/D; 4 %, 6 N HCl .....14.9-17.3°

Appearance of solution .....passes test
Heavy metals (as Pb) .....max. 0.001 %
Identity .....passes test
Loss on drying (3 h; 105 °C) ..... max. 0.2 %
pH (1 %; H_2O; 25 °C) 5.5-7.0
Sulfated ash ..... max. 0.1 %

Ninhydrin positive substances .....max. 0.5 %
Ammonium .....max. 0.02 %
Chloride .....max. 0.02 %
Sulfate .....max. 0.03 %
Fe .....max. 0.001 %

Code	Packaging
A1426,1000	1 kg

Leupeptin Hemisulfate

Ac-Leu-Leu-Argininal

$C_{20}H_{38}N_6O_4 \cdot 0{,}5H_2SO_4$
M = 475.60 g/mol
CAS 103476-89-7
CS 29419000

Solid

WGK 1
Storage -20 °C

A2183 Leupeptin Hemisulfate

Specifications
Assay (HPLC) .....min. 96.5 %
Solubility (1 %; H_2O) .....clear

Code	Packaging
A2183,0005	5 mg
A2183,0010	10 mg
A2183,0025	25 mg
A2183,0100	100 mg

Levamisole Hydrochloride

Tetramisole Hydrochloride

$C_{11}H_{12}N_2S \cdot HCl$
M = 240.76 g/mol
CAS 16595-80-5
EINECS 240-654-6
CS 29349990

Melting Point .....227-229 °C
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT
Storage protected from light

Danger



H301

A4341 Levamisole Hydrochloride

Specifications
Assay (titr.) .....min. 99 %
α20 °C/D; 5 %, H_2O .....-121 to -128°

Code	Packaging
A4341,0010	10 g

LIA Medium see Lysine Iron Agar (Dehydrated Culture Media) for microbiology

HebaPeakTMB

Lidocaine Hydrochloride

$C_{14}H_{22}N_2O \cdot HCl$
M = 270.80 g/mol
CAS 73-78-9
CS 29242910

Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage RT

Danger



H301

A2870 Lidocaine Hydrochloride (Ph. Eur., USP) pure, pharma grade

Specifications
Assay (HPLC, calc on dried subst.) ..... 97.5-102.5 %
Assay (titr., calc on dried subst.) ..... 99.0-101.0 %
Appearance of solution ..... clear, colorless
Heavy metals (as Pb) ..... max. 0.0005 %
Identity ..... passes test
Melting point ..... 74-79 °C
pH (0.5 %; H_2O) 4.0-5.5
Sulfated ash ..... max. 0.1 %
Related subst. (HPLC) ..... passes test
Water (K.F.) ..... 5.5-7.0 %
Sulfate ..... max. 0.1 %

Code	Packaging
A2870,0500	500 g

Light Green solution 0.1 %

$C_{37}H_{34}N_2Na_2O_9S_3$
M = 792.84 g/mol
CAS 5141-20-8
CS 32041200

Density ..... 0.997 kg/l
Liquid

WGK 1
Storage RT

253524 Light Green solution 0.1 % for clinical diagnosis

for microscopy, animal tissue staining

Composition:
Light Green SF yellowish ..... 0.1 g
Water (s.q.m) ..... 100 ml

Code	Packaging
253524.1210	500 ml

Light liquid Paraffin d(20/4)= 0,845

CAS 8012-95-1
EINECS 232-384-2
CS 27101985

Boiling Point ..... 300-450 °C
Density ..... 0.845 kg/l
Liquid

Storage away from direct light.

146257 Light liquid Paraffin (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to Pharmacopoeias: ..... passes test
Density 20/20 ..... 0.810-0.875
Density 25/25 ..... 0.818-0.880
Viscosity kinematic 39.9-40.1 °C ..... 3.0-33.5 mm^2/s
Viscosity dynamic 19.9-20.1 °C ...25-80 mPas

Maximum limit of impurities
Acidity or alkalinity ..... passes test
Darkened substances by H_2SO_4 ... passes test
Sulfur compounds ..... passes test
Solid Paraffin ..... passes test
Residual solvents (Ph. Eur./USP) passes test
Polycyclic aromatic hydrocarbons ..... passes test
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
146257.1211	1000 ml
146257.1212	2.5 l
146257.0715	10 l

Ligroin see Petroleum Ether 40-60 °C

Lime see Calcium Oxide natural

Linoleic Acid

Origin from sunflower oil

$C_{18}H_{32}O_2$
M = 280.50 g/mol
CAS 60-33-3
EINECS 200-470-9
CS 29161500

Liquid

WGK 1
Storage under Argon
Storage 2-8 °C

A4778 Linoleic Acid for cell culture

Specifications
Assay (G.C.) ..... min. 98 %
Appearance ..... clear, slightly yellowish liquid

Code	Packaging
A4778,0005	5 g
A4778,0010	10 g

DL-α-Lipoic Acid

DL-6,8-Thioctic Acid

$C_8H_{14}O_2S_2$
M = 206.33 g/mol
CAS 1077-28-7
EINECS 200-534-6
CS 29349990

Melting Point ..... 59-62 °C
Solid

WGK 3*
Storage 2-8 °C

Danger



H302

A4065 DL-α-Lipoic Acid BioChemica

Specifications
Assay (titr.) ..... min. 98 %
Heavy metals (as Pb) ..... max. 0.005 %
Loss on drying ..... max. 0.5 %
Sulfated ash ..... max. 0.1 %

Code	Packaging
A4065,0005	5 g
A4065,0025	25 g

Lipoprotein, high density (HDL), human

α-Lipoprotein, HDL, High Density Lipoprotein

Origin from human serum
CS 38220000

Storage -20 °C

A6965 Lipoprotein, high density (HDL), human

supplied as frozen liquid, non sterile, no preservatives

Specifications
Lipoprotein Electrophoresis ... one major band
Appearance ..... orange
Triglyceride ..... min. 700 mg/dl
Cholesterol (total) ..... min. 1000 mg/dl

Code	Packaging
A6965,0010	10 mg
A6965,0100	100 mg

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Lipoprotein, low density (LDL), human

Low Density Lipoprotein, β-Lipoprotein, LDL

Origin from human serum

CS 38220000

Storage -20 °C

A6961 Lipoprotein, low density (LDL), human

supplied as frozen liquid, non sterile, no preservatives

Triglyceride ..... approx. 3000 mg/dl
Appearance ..... orange

Specifications
Cholesterol (total) ..... 2000-5500 mg/dl

Code	Packaging
A6961,0010	10 mg
A6961,0100	100 mg

Liquid Paraffin see Vaseline Oil d(20/4)= 0.87

Liquid Pepsin

CAS 9001-75-6
EINECS 232-629-3
CS 35079090
Index Nr. 647-008-00-6

Density .....1.215 kg/l
Liquid

WGK nwg
Storage RT

Danger



H334

176408 Liquid Pepsin

Specifications
Proteolytic Activity .....660 u Ph. Eur./ml

Code	Packaging
176408.1214	5 l

Listeria Chromogenic Lipase C Supplement see Lipase C Selective Enrichment (Supplement) for microbiology

Litharge see Lead(II) Oxide

Lithium Acetate 2-hydrate

$C_2H_3LiO_2 \cdot 2H_2O$
M = 102.01 g/mol
CAS 6108-17-4
EINECS 208-914-3
CS 29152900

Solubility .....clear, colorless (1 M; H_2O)
Solid

WGK 1
Storage RT

A3478 Lithium Acetate 2-hydrate for analysis

Specifications
Assay (titr.) .....min. 99 %
pH (1 M; H_2O; 25 °C) 7.5-9.5
Chloride .....max. 0.005 %
Sulfate ..... max. 0.01 %
Ca ..... max. 0.005 %
Cu ..... max. 0.005 %
Fe ..... max. 0.005 %
Na .....max. 0.01 %
Pb .....max. 0.001 %
Zn .....max. 0.005 %

Code	Packaging
A3478,0500	500 g
A3478,1000	1 kg

Lithium Carbonate

Li_2CO_3
M = 73.89 g/mol
CAS 554-13-2
EINECS 209-062-5
CS 28369100

Melting Point ..... 720 °C
Solubility ..... water 13 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H302

131391 Lithium Carbonate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Acidim.) .....99.0 %

Maximum limit of impurities
Insoluble matter in HCl .....0.01 %
Chloride (Cl) ..... 0.005 %
Sulfur compounds (as SO_4) ..... 0.2 %
Ammonium (NH_4) ..... 0.0005 %
Nitrate (NO_3) ..... 0.0005 %
Heavy metals (as Pb) ..... 0.002 %
Ca ..... 0.01 %
Cu ..... 0.001 %
Fe .....0.002 %
K .....0.01 %
Mg .....0.01 %
Na .....0.1 %
Ni .....0.001 %
Pb .....0.001 %

Code	Packaging
131391.1210	500 g

141391 Lithium Carbonate pure

Specifications
Assay (Acidim.) .....98 %
Insoluble matter in HCl .....0.05 %
Chloride (Cl) .....0.05 %
Sulfur compounds (as SO_4) ..... 0.3 %
Ammonium (NH_4) ..... 0.005 %
Nitrate (NO_3) ..... 0.005 %
Cu ..... 0.005 %
Fe .....0.005 %
Ni .....0.005 %
Pb .....0.005 %

Code	Packaging
141391.1209	250 g

Lithium Chloride

LiCl
M = 42.39 g/mol
CAS 7447-41-8
EINECS 231-212-3
CS 28273985

Melting Point ..... 614 °C
Solubility .....832 g/L (20 °C)
Solid

WGK 1
Storage RT

Warning



H302 H315 H319

131392 Lithium Chloride (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Arg.) .....99 %

Maximum limit of impurities
Alkalinity .....0.008 meq/g
Insoluble matter in H_2O .....0.01 %
Loss on drying at 105 °C ..... 1.0 %
Sulfate (SO_4) ..... 0.01 %
Solubility at 6 % in
N,N-Dimethylacetamide 363145 ... passes test
Heavy metals (as Pb) ..... 0.002 %

Metals by ICP [in mg/Kg (ppm)]
Ba..... 30
Ca 50
Fe..... 10
K 50
Na 2000

Code	Packaging
131392.1210	500 g

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

HeBaPeaKTMB

141392 Lithium Chloride pure

Specifications
Assay (Arg.) ..... 98 %
Insoluble matter in H_2O ..... 0.05 %
Nitrogen compounds (as N) ..... 0.005 %
Phosphate (PO_4) ..... 0.003 %
Sulfate (SO_4) ..... 0.05 %
Cu ..... 0.002 %
Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141392.1209	250 g
141392.1211	1000 g
141392.1214	5 kg

A6286 Lithium Chloride for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99 %
Insoluble matter ..... passes test
Loss on drying ..... max. 1 %
Sulfate ..... max. 0.01 %
As ..... max. 0.005 %
Ca ..... max. 0.01 %
Fe ..... max. 0.005 %
Na ..... max. 0.15 %

Code	Packaging
A6286,0100	100 g
A6286,0250	250 g

A0958 Lithium Chloride BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Insoluble matter ..... passes test
Loss on drying ..... max. 1 %
Sulfate ..... max. 0.01 %
As ..... max. 0.005 %
Ca ..... max. 0.01 %
Fe ..... max. 0.005 %
Na ..... max. 0.15 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.05

Code	Packaging
A0958,0500	500 g
A0958,9010	10 kg

Lithium Chloride 1 mol/l in ethanol

LiCl
M = 42.39 g/mol
CAS 7447-41-8
CS 38220000

Density ..... 0.800 kg/l
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225

285250 Lithium Chloride 1 mol/l in ethanol for volumetric analysis

electrolyte for non-aqueous media

Composition:
Lithium Chloride ..... 4.24 g
Ethanol absolute s.q.m ..... 100 ml

Code	Packaging
285250.1209	250 ml

Lithium Dodecylsulfate

Lithium Laurylsulfate, LiDS

$C_{12}H_{25}LiO_4S$
M = 272.33 g/mol
CAS 2044-56-6
EINECS 218-058-2
CS 29209010

Solid

WGK 2
Storage RT

Warning



H302 H315 H319

A1385 Lithium Dodecylsulfate BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Chloride ..... max. 0.01 %
Phosphate ..... max. 0.0001 %
Cu ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.001 %
A (1 cm/0.1 M in water)
260 nm ..... max. 0.05
280 nm ..... max. 0.05

Code	Packaging
A1385,0010	10 g
A1385,0050	50 g
A1385,1000	1 kg

Lithium Hydroxide 1-hydrate

$LiOH \cdot H_2O$
M = 41.96 g/mol
CAS 1310-66-3
EINECS 215-183-4
CS 28252000

Solubility ..... 223 g/L (H_2O)
Solid

UN2680
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H302 H314

121928 Lithium Hydroxide 1-hydrate for analysis

Specifications
Assay (titr.) ..... min. 99 %
Lithium carbonate ..... max. 1 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %
Al ..... max. 0.0005 %
Ca ..... max. 0.005 %
Cr ..... max. 0.0005 %
Cu ..... max. 0.0005 %
Fe ..... max. 0.0005 %
K ..... max. 0.005 %
Na ..... max. 0.005 %
Pb ..... max. 0.005 %
Zn ..... max. 0.005 %

Code	Packaging
121928.1211	1 kg
121928.1214	5 kg

di-Lithium tetra-Borate

Lithium Biborate, Lithium Borate

$Li_2B_4O_7$
M = 169.12 g/mol
CAS 12007-60-2
EINECS 234-514-3
CS 28402090

Melting Point ..... 930 °C
Solubility ..... water 29 g/l at 20 °C
Solid

WGK 1
Storage RT

122903 di-Lithium tetra-Borate for analysis

flux

Specifications
Minimum assay (Acidim.) ..... 98.0 %

Maximum limit of impurities
Chloride (Cl) ..... 0.005 %
Phosphate (PO_4) ..... 0.05 %
Sulfate (SO_4) ..... 0.02 %
Silicate (as SiO_2) ..... 0.01 %
Loss on melting ..... 2.0 %
Fluoride (F) ..... 0.002 %
Al ..... 0.005 %
As ..... 0.0002 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.001 %
Cu ..... 0.0005 %
Fe ..... 0.001 %
K ..... 0.005 %
Mg ..... 0.002 %
Mn ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.002 %
Zn ..... 0.001 %

Code	Packaging
122903.1211	1000 g

Lithium Lactate see L(+)-Lactic Acid Lithium Salt crystalline

Loading buffer DNA I

CS 38220000 Storage RT

A3144 Loading buffer DNA I

6X Gel loading buffer for DNA samples 6fold concentrated solution for agarose and acrylamide gel electrophoresis

Composition:
Bromophenol blue Na-salt ..... 0.25 %
Ficoll® 400 ..... 15 %

Code	Packaging
A3144,0005	5 ml
A3144,0010	10 ml

Loading buffer DNA II

CS 38220000 Storage RT

A2571 Loading buffer DNA II

6X Gel loading buffer for DNA samples 6fold concentrated solution for agarose and acrylamide gel electrophoresis

Composition:
Bromophenol blue sodium salt ..... 0.25 %
Ficoll® 400 ..... 15 %
Xylene cyanol FF ..... 0.25 %

Code	Packaging
A2571,0025	25 ml

Loading buffer DNA IV (for Agarose gels)

CS 38220000 Storage RT

A3481 Loading buffer DNA IV (for Agarose gels)

10X Gel loading buffer for DNA samples for agarose gel elelectrophoresis

Composition:
Bromophenol blue ..... 0.25 %
EDTA · Na_2 (pH 8.0) ..... 100 mM
Ficoll® 400 ..... 20 %
SDS ..... 1.0 %
Xylene cyanol FF ..... 0.25 %

Code	Packaging
A3481,0010	10 ml
A3481,0025	25 ml

Loeffler's Methylene Blue solution

CS 38220000 Density ..... 0.987 kg/l Liquid WGK 1 Storage RT

251171 Löffler's Methylene Blue Alkali solution for clinical diagnosis

for microscopy

Composition:
Methylene Blue ..... 0.365 g
Potassium Hydroxide 0.1 mol/l ..... 1.62 ml
Ethanol absolute ..... 9.1 ml
Water ..... 91 ml

Identity ..... passes test

Maximum limit of impurities
Staining suitability ..... passes test

Code	Packaging
251171.1208	100 ml
251171.1209	250 ml

D-Luciferin free acid

(S)-2-(6-Hydroxy-2-Benzothiazolyl)-2-Thiazoline-4-Carboxylic Acid, Firefly Luciferin

$C_{11}H_8N_2O_3S_2$
M = 280.32 g/mol
CAS 2591-17-5
EINECS 219-981-3
CS 29342080

Melting Point ..... 202-204 °C
Solid

Storage -20 °C
Storage protected from light

A1029 D-Luciferin free acid

Specifications
Assay (HPLC) ..... min. 99 %
Mol. absorption (1 %; MeOH; 329 nm)
..... min. 17900 L/(mol cm)
Water (K.F.) ..... max. 1.0 %

Code	Packaging
A1029,0025	25 mg
A1029,0050	50 mg
A1029,0100	100 mg

D-Luciferin Sodium Salt

(S)-2-(6-Hydroxy-2-Benzothiazolyl)-2-Thiazoline-4-Carboxylic Acid Sodium Salt

$C_{11}H_7NaN_2O_3S_2$
M = 302.31 g/mol
CAS 103404-75-7
CS 29342080

Solid

Storage -20 °C
Storage protected from light

A1006 D-Luciferin Sodium Salt

Specifications
Assay (HPLC) ..... min. 98.5 %
Molar
absorption ..... min. 17500 (385 nm pH 11.5)
Solubility ..... clear, yellow
..... (4 mg in 1 ml 0.005 M Glycine)

Code	Packaging
A1006,0010	10 mg
A1006,0025	25 mg
A1006,0050	50 mg
A1006,0100	100 mg

Luff-Schoorl's Reagent

CS 38220000 Density ..... 1.157 kg/l Liquid Storage RT **H412**

172174 Luff-Schoorl's Reagent

for determination of sugar in meats

Composition:
Sodium Carbonate anhydrous ..... 14.36 g
Citric Acid anhydrous ..... 5.47 g
Copper(II) Sulfate 5-hydrate ..... 2.6 g
Water (s.q.m) ..... 100 ml

Code	Packaging
172174.1211	1000 ml

Lugol see Lugol's Liquor

Lugol's Iodine Iodized solution see Lugol's Liquor

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

Lugol's Liquor

CS 38220000

Boiling Point ..... 100 °C
Density ..... 1.008 kg/l
Liquid

WGK nwg
Storage RT
H412

251774 Lugol's Liquor for clinical diagnosis

Mordant solution for staining of microorganisms according to Gram

Composition:
Potassium Iodide ..... 0.66 g
Iodine ..... 0.4 g
Water (s.q.m) ..... 100 ml

Identity ..... passes test
Suitability for Gram-Hucker stain .. passes test

Code	Packaging
251774.1608	100 ml
251774.1609	250 ml
251774.1611	1000 ml

Lugol's solution (concentrated) 5 % Iodine

Iodine-Potassium Iodide solution

CS 38220000

Liquid

WGK nwg
Storage RT
Storage protected from light

257041 Lugol's solution (concentrated) 5 % Iodine for clinical diagnosis

Specifications
pH (20 °C; H_2O) 4.0-4.5

Composition:
Iodine ..... 50 g/L
Potassium Iodide ..... 100 g/L

Code	Packaging
257041.1608	100 ml
257041.1610	500 ml
257041.1611	1 L

Lugol's solution (diluted) 0.33 % Iodine

CS 38220000

Liquid

WGK nwg
Storage RT
Storage protected from light

256977 Lugol's solution (diluted) 0.33 % Iodine for clinical diagnosis

Specifications
pH (20 °C; H_2O) 4.0-4.5

Composition:
Iodine ..... 3.33 g/L
Potassium Iodide ..... 6.66 g/L

Code	Packaging
256977.1609	250 ml
256977.1611	1 L

Luminol

3-Aminophthalhydrazide, 5-Amino-1,2,3,4-Tetrahydrophthalazine-1,4-dione

$C_8H_7N_3O_2$
M = 177.17 g/mol
CAS 521-31-3
EINECS 208-309-4
CS 29339980

Melting Point ..... 319 °C
Solid

WGK 3
Storage RT
Storage under argon

Warning



H315 H319 H335

A2185 Luminol

Specifications
Assay (HPLC) ..... min. 95 %
$\lambda_{max\ 1}$ (0.1 M NaOH) ..... 344 -350 nm
$\lambda_{max\ 2}$ (0.1 M NaOH) ..... 297-303 nm
Water (K.F.) ..... max. 1 %

Code	Packaging
A2185,0005	5 g
A2185,0010	10 g
A2185,0025	25 g

Luria-Bertani - Medium according to Lennox see LB-Medium - Powder according to Lennox

Lutein

β,ε-Carotene-3,3'-diol, Xanthophyll

Origin from *Brassica oleracea*

$C_{40}H_{56}O_2$
M = 568.88 g/mol
CAS 127-40-2
CS 29420000

Solid

Storage -20 °C

A1283 Lutein pure

Specifications
Assay ..... min. 90 %

Code	Packaging
A1283,0005	5 mg

Luteolin

Digitoflavone, 3',4',5,7-Tetrahydroxyflavone

Origin from *Reseda luteola*

$C_{15}H_{10}O_6$
M = 286.23 g/mol
CAS 491-70-3
CS 29420000

Solid

Storage 2-8 °C

Warning



H315 H319 H335

A3424 Luteolin for HPLC

Specifications
Assay .....min. 99 %

Code	Packaging
A3424,0020	20 mg

Luteolin-7-Glucoside

Cynarosid, Glucoluteolin

Origin from *Reseda luteola*

$C_{21}H_{20}O_{11}$
M = 448.38 g/mol
CAS 5373-11-5
CS 29329900

Solid

Storage 2-8 °C

A4510 Luteolin-7-Glucoside for HPLC

Specifications
Assay .....min. 99 %

Code	Packaging
A4510,0020	20 mg

Lycopin

ψ,ψ-Carotene, (all-trans)-Lycopin

Origin from *Solanum lycopersicum*

$C_{40}H_{56}$
M = 536.88 g/mol
CAS 502-65-8
CS 32030010

Solid

Storage -20 °C

A5311 Lycopin for HPLC

Specifications
Assay .....min. 90 %

Code	Packaging
A5311,0005	5 mg

L-Lysine 1-hydrate

Lys, 2,6-Diaminocaproic Acid, L-2,6-Diamino-n-hexanoic Acid Monohydrate, 2,6-Diaminohexanoic Acid

$C_6H_{14}N_2O_2 \cdot H_2O$
M = 164.21 g/mol
CAS 39665-12-8
EINECS 200-294-2
CS 29224100

Melting Point ..... 225 °C
Solubility ..... 300 g/L (H_2O)
Solid

Storage RT

15A390 L-Lysine 1-hydrate, 98 % for synthesis

Specifications
Minimum assay .....98 %

Code	Packaging
15A390.1608	100 g

A3448 L-Lysine 1-hydrate for cell culture

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) .....min. 99 %
α20 °C/D; 8 %, 6 M HCl .....25.5-27.0°
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
As .....max. 0.0001 %
Fe .....max. 0.001 %
Pb .....max. 0.001 %

Code	Packaging
A3448,0100	100 g

A3466 L-Lysine 1-hydrate BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) .....min. 99 %
α20 °C/D; 8 %, 6 M HCl .....25.5-27.0°
Heavy metals (as Pb) ..... max. 0.001 %
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride .....max. 0.02 %
Sulfate .....max. 0.02 %

Code	Packaging
A3466,0500	500 g

A1342 L-Lysine 1-hydrate (DAB) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.)
.....98.5-101.5 %
α20 °C/D; 8 %, 6 M HCl, calc on dried subst.
.....25.5-27.0°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
pH (2.5 %; H_2O) 9.0-10.5
Sulfated ash ..... max. 0.1 %
Ninhydrin-positive substances ..... max. 0.5 %
Water (K.F.) .....10.0-11.5 %
Ammonium .....max. 0.02 %
Chloride .....max. 0.03 %
Sulfate .....max. 0.02 %
Fe .....max. 0.001 %

Code	Packaging
A1342,0100	100 g
A1342,0250	250 g
A1342,9010	10 kg

НеваРеактив

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L-Lysine Monohydrochloride

L-2,6-Diamino-n-hexanoic Acid Monohydrochloride, Lys-HCl

$C_6H_{14}N_2O_2 \cdot HCl$
M = 182.65 g/mol
CAS 657-27-2
EINECS 211-519-9
CS 29224100

Melting Point ..... 264-265 °C
Solubility ..... 420 g/L (H_2O)
Solid

WGK 1
Storage RT

A3713 L-Lysine Monohydrochloride for cell culture

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... min. 99 %
α20 °C/D; 8 %, 6 M HCl ..... 21.0-21.4°
pH (10 %; H_2O) 5-6
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Sulfate ..... max. 0.02 %
As ..... max. 0.0001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A3713,1000	1 kg

A3735 L-Lysine Monohydrochloride BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 8 %, 6 M HCl ..... 21.0-21.4°
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Sulfate ..... max. 0.02 %
A (1 cm/0.5 M in H_2O)
260 nm ..... max. 0.1
280 nm ..... max. 0.1

Code	Packaging
A3735,1000	1 kg

A1706 L-Lysine Monohydrochloride (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 8 %, HCl 250 g/L, calc on dried subst. ..... 21.0-22.5°
α25 °C/D; 8 %, 6 M HCl ..... 20.4-21.4°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.4 %
Sulfated ash ..... max. 0.1 %
Ninhydrin positive substances ..... max. 0.2 %
Ammonium ..... max. 0.02 %
Chloride ..... 19.0-19.6 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.003 %

Code	Packaging
A1706,1000	1 kg
A1706,5000	5 kg
A1706,9010	10 kg

Lysis buffer with CTAB see CTAB - Lysis buffer

Lysozyme

Muramidase

Origin from chicken egg white

M = approx. 14400 g/mol
CAS 9001-63-2
EINECS 232-620-4
CS 35079090

Solid

Storage -20 °C

A4972 Lysozyme for molecular biology

Hydrochloride form salt-free, albumin-free, freeze-dried

Specifications
DNases/RNases/Proteases ..... not detectable
Activity (pH 6.2) ..... min. 20000 U/mg

Code	Packaging
A4972,0001	1 g
A4972,0010	10 g
A4972,0050	50 g

A3711 Lysozyme BioChemica

Hydrochloride form salt-free, albumin-free, freeze-dried

Specifications
Activity (pH 6.2) ..... min. 20000 U/mg

Code	Packaging
A3711,0001	1 g
A3711,0010	10 g
A3711,0050	50 g

(-)-Maackiain

Demethylpterocarpin, Inermin

Origin from *Baptisia tinctoria*

$C_{16}H_{12}O_5C_{40}H_{56}$
M = 284.27 g/mol
CAS 2035-15-6
CS 29420000

Storage 2-8 °C

A9641 (-)-Maackiain for HPLC

Specifications
Assay ..... min. 98 %

Code	Packaging
A9641,0010	10 mg
A9641,0020	20 mg

MacConkey-Agar

CS 38220000

Solid

Storage RT

A3750 MacConkey-Agar

• **Attention**: Altered composition

Specifications
pH before autoclaving ..... approx. 7.4 (20 °C)

Composition:
Agar ..... 15.0 g/L
Bile salts ..... 1.5 g/L
Crystal Violet ..... 0.001 g/L
Lactose ..... 10.0 g/L
Neutral Red ..... 0.03 g/L
Peptones ..... 20.5 g/L
Sodium Chloride ..... 5.0 g/L

Code	Packaging
A3750,0500	500 g

[illegible]leyine see Protopine

НеваРеактив

Macrofusine see Fumonisin B1

Magenta I see Fuchsin basic (C.I. 42510)

Magnesia glowed see Magnesium Oxide

Magnesium

Mg
M = 24.31 g/mol
CAS 7439-95-4
EINECS 231-104-6
CS 81049000
Index Nr. 012-002-00-9

Melting Point ..... 651 °C
Boiling Point ..... 1,107 °C
Solubility ..... Insoluble in water
Solid

UN1869
Class/PG 4.1/III
ADR 4.1/III · IMDG 4.1/III · IATA 4.1/III
WGK nwg
Storage RT

Danger



H228 H261

141945 Magnesium metal, filings pure

Specifications
Assay (Compl.) ..... 99 %
Insoluble matter in HCl ..... passes test
Al ..... 0.05 %
Cu ..... 0.005 %
Fe ..... 0.05 %
Mn ..... 0.1 %
Ni ..... 0.005 %
Pb ..... 0.005 %
Si ..... 0.1 %
Zn ..... 0.005 %

Code	Packaging
141945.0914	5 kg
141945.0616	25 kg

211841 Magnesium metal, ribbon technical grade

ribbon 3 mm x 0,2 mm

Specifications
Assay (Compl.) ..... 99 %
Insoluble matter in HCl ..... passes test
Cu ..... 0.005 %
Fe ..... 0.05 %
Ni ..... 0.005 %
Pb ..... 0.005 %
Zn ..... 0.02 %

Code	Packaging
211841.1106	25 g

Magnesium Acetate 4-hydrate

$Mg(CH_3COO)_2 \cdot 4H_2O$
M = 214.46 g/mol
CAS 16674-78-5
EINECS 205-554-9
CS 29152900

Melting Point ..... 80 °C
Solubility ..... water 1,200 g/l at 15 °C
Solid

WGK 1
Storage RT

131394 Magnesium Acetate 4-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Compl.) ..... 98.0-102.0 %
pH of 5 % solution 7.5-8.5

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
As ..... 0.0003 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Al 1
Au 5
Ba 10
Ca 100
Cd 5
Co 5
Cr 5
Cu 5
Fe 5
Ga 5
In 5
Li 5
Mo 5
Na 5
Ni 5
Pb 5
Sb 5
Sr 5
Zn 5
Zr 5
Ge 5
K 50
Mn 10
Na 50
Pb 5
Sr 50
Zr 5

Code	Packaging
131394.1210	500 g
131394.1211	1000 g

Magnesium Bromide 6-hydrate

$MgBr_2 \cdot 6H_2O$
M = 292.22 g/mol
CAS 13446-53-2
EINECS 232-170-9
CS 28275900

Melting Point ..... 165 °C
Solubility ..... water 3,160 g/l at 0 °C
Solid

WGK 3
Storage RT

122433 Magnesium Bromide 6-hydrate for analysis

Specifications
Assay (Compl.) ..... 98.0-101.0 %

Maximum limit of impurities
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.05 %
Ammonium (NH_4) ..... 0.002 %
As ..... 0.0001 %
Ba ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
122433.0416	25 kg

Magnesium Carbonate basic see Magnesium Hydroxide Carbonate light

Magnesium Chloride 6-hydrate

$MgCl_2 \cdot 6H_2O$
M = 203.30 g/mol
CAS 7791-18-6
EINECS 232-094-6
CS 28273100

Melting Point ..... 116 °C (dec.)
Solubility ..... 1670 g/L (H_2O)
Solid

WGK nwg
Storage RT

131396 Magnesium Chloride 6-hydrate for analysis, ACS, ISO

Specifications
Assay (Compl.) ..... 99.0-102.0 %
pH of 5 % solution 5.0-6.5

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Nitrogen compounds (as N) ..... 0.002 %
Ammonium (NH_4) ..... 0.002 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.002 %
Nitrate (NO_3) ..... 0.001 %
As ..... 0.00005 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Ba 20
Bi 5
Cd 5
Cr 5
Au 5
Be 5
Ca 50
Co 5
Cu 5
Fe 5
Ge 5
In 5
Mn 5
Na 50
Pb 5
Sr 50
Tl 5
Zn 10
Ga 5
Hg 5
K 50
Mo 5
Ni 5
Si 5
Ti 5
V 5
Zr 5

Code	Packaging
131396.1210	500 g
131396.1211	1000 g

631396 Magnesium Chloride 6-hydrate (Ph. Eur., BP) GMP - IPEC grade

Specifications
Assay (Compl.) ..... 98.0-101.0 %
Identity according to Pharmacopoeias:
Chloride ..... passes test
Magnesium ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Appearance Clear < formazin I ..... passes test
Appearance Colourless ..... passes test
Acidity or alkalinity (< 0.3 ml HCl or NaOH 0.01N) ..... passes test
Bromide (Br) ..... 0.05 %
Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur.) ..... passes test
Water (H_2O) ..... 51.0-55.0 %
Heavy metals (Pb) ..... 0.001 %
As ..... 0.0002 %
Ca ..... 0.1 %
Fe ..... 0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
631396.0914	5 kg
631396.0416	25 kg

НеваРеактив

НеВаРеАКТИВ

191396 Magnesium Chloride 6-hydrate (USP, BP, Ph. Eur.) pharma grade

Specifications
Assay (Compl.) ..... 98.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 4.5-7.0

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... 0.005 %
Bromide (Br) ..... 0.05 %
Sulfate (SO_4) ..... 0.005 %
Residual solvents (Ph. Eur./USP) . passes test
Water (H_2O) ..... 51.0-55.0 %
Heavy metals (as Pb) ..... 0.001 %
Al ..... 0.0001 %
As ..... 0.0002 %
Ba ..... passes test
Ca ..... 0.01 %
Fe ..... 0.001 %
K ..... 0.05 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
191396.1211	1000 g

141396 Magnesium Chloride 6-hydrate (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) ..... 98.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Ammonium (NH_4) ..... 0.005 %
Bromide (Br) ..... 0.05 %
Phosphate (PO_4) ..... 0.003 %
Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur.) ..... passes test
Water (H_2O) ..... 51.0-55.0 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
Al ..... 0.0001 %
As ..... 0.0002 %
Ca ..... 0.1 %
Fe ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141396.1209	250 g
141396.1210	500 g
141396.1211	1000 g
141396.0914	5 kg
141396.0416	25 kg

201396 Magnesium Chloride 6-hydrate (E-511, F.C.C.) food grade

Specifications
Assay ($MgCl_2.6H_2O$) ..... 99.0-105.0 %
Identity
Chloride ..... passes test
Magnesium ..... passes test
Appearance ..... passes test
Sulfate (SO_4), not more than ..... 0.03 %
Ammonium, not more than ..... 0.005 %
Arsenic, not more than ..... 3 ppm
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201396.1211	1000 g

A4425 Magnesium Chloride 6-hydrate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.5 %
pH (5 %; H_2O; 25 °C) 5.0-6.5
Water (K.F.) ..... 51-55 %
Ammonium ..... max. 0.002 %
Phosphate ..... max. 0.0005 %
Sulfate ..... max. 0.002 %
As ..... max. 0.0001 %
Ba ..... max. 0.002 %
Ca ..... max. 0.005 %
Fe ..... max. 0.0005 %
K ..... max. 0.001 %
Mn ..... max. 0.0005 %
Na ..... max. 0.001 %
Pb ..... max. 0.0005 %

Code	Packaging
A4425,0250	250 g
A4425,0500	500 g
A4425,1000	1 kg

A1036 Magnesium Chloride 6-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99.5 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 25 °C) 5.0-6.5
Ammonium ..... max. 0.002 %
Phosphate ..... max. 0.0005 %
Sulfate ..... max. 0.002 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.03
280 nm ..... max. 0.02

Code	Packaging
A1036,0500	500 g

Magnesium Chloride 6-hydrate special

$MgCl_2 \cdot 6H_2O$
M = 203.30 g/mol
CAS 7791-18-6
EINECS 232-094-6
CS 28273100

Melting Point ..... 117 °C
Solubility ..... water 1,670 g/l at 20 °C
Solid

WGK nwg
Storage RT

204759 Magnesium Chloride 6-hydrate special (E-511, F.C.C.) food grade

Specifications
Assay ($MgCl_2.6H_2O$) ..... 101-103 %
Sulfate (SO_4), not more than ..... 0.03 %
Ammonium, not more than ..... 0.005 %
Arsenic, not more than ..... 3 ppm
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Heavy metals (as Pb), not more than ..... 10 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
204759.0416	25 kg

Magnesium Chloride solutions

CS 38220000

Liquid

WGK nwg
Storage RT

A5324 Magnesium Chloride solution (100 mM) for molecular biology

suitable for PCR

Specifications
DNases/RNases/Proteases ..... not detectable
Concentration ..... 100 mM

Code	Packaging
A5324,0001	1 ml

A5076 Magnesium Chloride 25 mmol/l (25 mM) for molecular biology

suitable for PCR

Specifications
DNases/RNases/Proteases ..... not detectable
Concentration ..... 25 mM

Composition:
$MgCl_2 \cdot 6H_2O$ ..... 5.08 g/L

Code	Packaging
A5076,0005	5 ml

Magnesium Chloride 1 mol/l (1 M)

CS 38220000

Liquid

WGK nwg
Storage RT

A3888 Magnesium Chloride 1 mol/l (1 M)

Composition:
$MgCl_2 \cdot 6H_2O$ ..... 203.30 g/L

Code	Packaging
A3888,0500	500 ml

НеВаРеАКТИВ

Magnesium Citrate

Magnesium Hydrogen Citrate, Citric Acid Magnesium Salt

$C_6H_6MgO_7$
M = 214.43 g/mol
CAS 7779-25-1
EINECS 231-923-9
CS 29181500

Solubility ..... 250 g/L (H_2O)
Solid

WGK nwg
Storage RT

147118 Magnesium Citrate pure

Specifications
Assay (Mg) ..... 8.0-9.0 %
pH (5 %; H_2O) 3.5-4.5
Sulfate ..... max. 0.2 %
As ..... max. 0.0003 %
Cu ..... max. 0.0025 %
Pb ..... max. 0.001 %
Zn ..... max. 0.0025 %

Code	Packaging
147118.1211	1 kg
147118.1214	5 kg

tri-Magnesium di-Phosphate 5-hydrate

Magnesium Phosphate, tertiary

$Mg_3(PO_4)_2 \cdot 5H_2O$
M = 352.93 g/mol
CAS 10233-87-1
EINECS 231-824-0
CS 28352990

Solubility ..... Insoluble in water
Solid

Storage RT

201399 tri-Magnesium di-Phosphate 5-hydrate (F.C.C.) food grade

Specifications
Assay (as $Mg_3(PO_4)_2$), calc. on the ignited basis ..... 98.0-101.5 %
Loss on heating ..... 20.0-27.0 %
Fluoride, not more than ..... 10 ppm
Arsenic (as As), not more than ..... 3 ppm
Lead, not more than ..... 2 ppm
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201399.0416	25 kg

Magnesium Hydrogen Citrate see Magnesium Citrate

Magnesium Hydrogen Phosphate 3-hydrate

Magnesium Phosphate secondary

$MgHPO_4 \cdot 3H_2O$
M = 174.34 g/mol
CAS 7782-75-4
EINECS 231-823-5
CS 28352990

Solubility ..... water 0.25 g/l at 20 °C
Solid

WGK 1
Storage RT

201927 Magnesium Hydrogen Phosphate 3-hydrate (E-343ii, F.C.C.) food grade

Specifications
Assay (as $Mg_2P_2O_7$) a.i.s., not less than ..... 96.0 %
Identity
Phosphate ..... passes test
Magnesium ..... passes test
Appearance ..... passes test
MgO content, a.a.s. ..... 33.0 %
Loss on ignition ..... 29.0-36.0 %
Fluoride, not more than ..... 10 ppm
Arsenic (as As), not more than ..... 1 ppm
Cadmium, not more than ..... 1 ppm
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 1 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201927.0416	25 kg

Magnesium Hydroxide

Magnesium Hydrate

$Mg(OH)_2$
M = 58.33 g/mol
CAS 1309-42-8
EINECS 215-170-3
CS 28161000

Melting Point ..... 350 °C
Solubility ..... Insoluble in water.Soluble ..... in diluted acids.
Solid

WGK nwg
Storage RT

Warning



H319 H335 H315

141840 Magnesium Hydroxide (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) ..... 95.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in CH_3COOH ..... 0.1 %
Soluble matter in H_2O ..... 2.0 %
Loss on ignition 900 °C ..... 30.0-32.5 %
Chloride (Cl) ..... 0.1 %
Sulfate (SO_4) ..... 0.5 %
Residual solvents (Ph. Eur.) ..... passes test
Heavy metals (as Pb) ..... 0.003 %
As ..... 0.0004 %
Ca ..... 1.5 %
Fe ..... 0.07 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141840.1211	1000 g

Magnesium Hydroxide Carbonate light

Magnesium Carbonate basic

M = 485.00 g/mol
CAS 12125-28-9
EINECS 235-192-7
CS 28369911

Solid

WGK nwg
Storage RT

147147 Magnesium Hydroxide Carbonate light pure (Ph. Eur.) pure, pharma grade

Specifications
Assay (titr., calc. on MgO) ..... 40.0-45.0 %
Acetic acid-insoluble matter ..... max. 0.05 %
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.002 %
Identity ..... passes test
Water-soluble matter ..... max. 1 %
Chloride ..... max. 0.07 %
Sulfate ..... max. 0.3 %
As ..... max. 0.0002 %
Ca ..... max. 0.75 %
Fe ..... max. 0.04 %
Hg ..... max. 0.0001 %
Pb ..... max. 0.0002 %

Code	Packaging
147147.0416	25 kg

HeBaPeaKTMB

Magnesium Nitrate 6-hydrate

$Mg(NO_3)_2 \cdot 6H_2O$
M = 256.41 g/mol
CAS 13446-18-9
EINECS 233-826-7
CS 28342980

Melting Point ..... 90 °C
Solubility ..... water 420 g/l at 20 °C
Solid

UN1474
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage RT

Danger



H272

131402 Magnesium Nitrate 6-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Compl.) ..... 98.0-102.0 %
pH of 5 % solution 5.0-8.2

Maximum limit of impurities
Acidity (as HNO_3) ..... 0.005 %
Alkalinity ..... 0.001 %
Insoluble matter in H_2O ..... 0.003 %
Chloride (Cl) ..... 0.001 %

Ammonium (NH_4) ..... 0.003 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.002 %
As ..... 0.0001 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Al 5
Ba 20
Be 5
Ca..... 100
Co 5
Cr 5
Cu 5
Fe 2
Ga 10
Ge 5
K..... 50
Mn 5
Mo 5
Na..... 50
Ni..... 5
Pb..... 5
Sb..... 5
Si..... 5
Sr 20
Ti 5

Code	Packaging
131402.1210	500 g
131402.1211	1000 g
131402.0416	25 kg

141402 Magnesium Nitrate 6-hydrate pure

Specifications
Assay (Compl.) ..... 98 %
pH of 5 % solution 4.0-8.5
Acidity (as HNO_3) ..... 0.01 %
Alkalinity ..... 0.005 %

Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.01 %
Ammonium (NH_4) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
As ..... 0.0001 %

Ca ..... 0.05 %
Cu ..... 0.002 %
Fe ..... 0.001 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141402.1210	500 g
141402.0914	5 kg
141402.0416	25 kg

Magnesium Oxide

MgO
M = 40.30 g/mol
CAS 1309-48-4
EINECS 215-171-9
CS 25199010

Melting Point ..... 2,800 °C
Boiling Point ..... 3,600 °C
Solubility ..... water 0.08 g/l at 20 °C
Solid

WGK 1
Storage RT

141276 Magnesium Oxide light (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) calc. a.i.s. ..... 98.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in CH_3COOH ..... 0.1 %
Soluble matter in H_2O ..... 2.0 %

Loss on ignition 900 °C ..... 8.0 %
Chloride (Cl) ..... 0.15 %
Sulfate (SO_4) ..... 1.0 %
Residual solvents (Ph. Eur.) ..... passes test
Heavy metals (as Pb) ..... 0.003 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
As ..... 0.0004 %
Ca ..... 1.5 %
Fe ..... 0.1 %

Code	Packaging
141276.1211	1000 g

211276 Magnesium Oxide technical grade

Specifications
Assay (Compl.) ..... 90 %
Insoluble matter in HCl ..... 0.2 %

Chloride (Cl) ..... 0.2 %
Sulfur compounds (as SO_4) ..... 0.2 %

Code	Packaging
211276.1209	250 g
211276.1210	500 g

Magnesium Perchlorate Hydrate (desiccant)

$Mg(ClO_4)_2$
M = 223.21 g/mol
CAS 64010-42-0
EINECS 233-108-3
CS 28299010

Melting Point ..... 251 °C
Solubility ..... Soluble in water.
Solid

UN1475
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 1
Storage RT

Danger



H271 H319 H335 H315

136064 Magnesium Perchlorate hydrate (desiccant) for analysis, ACS

Specifications
Suitability: for moisture absorption passes test

Maximum limit of impurities
Acidity ..... 0.005 meq/g

Alkalinity ..... 0.025 meq/g
Loss on drying at 190 °C ..... 8 %

Code	Packaging
136064.1210	500 g

Magnesium Phosphate di-Basic see Magnesium Hydrogen Phosphate 3-hydrate

Magnesium Phosphate tri-Basic see tri-Magnesium di-Phosphate 5-hydrate

Magnesium Silicate activated see Florisil® 60-100 mesh

Magnesium Stearate

Octadecanoic Acid Magnesium Salt, Stearic Acid Magnesium Salt

$Mg(C_{18}H_{35}O_2)_2$
M = 591.27 g/mol
CAS 557-04-0
EINECS 209-150-3
CS 29157050

Solubility ..... Insoluble in water
Solubility ..... Miscible with water, ethanol and ether
Solid

Storage RT

142029 Magnesium Stearate (BP, Ph. Eur.) pure, pharma grade

Specifications
Minimum assay (G.C. as methyl ester) (stearic acid) ..... 40.0 %
Minimum assay (G.C. as methyl ester) (stearic + palmitic acids) ..... 90.0 %
Assay (as Magnesium Compl.) calc. a.d.s. ..... 4.0-5.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solut. of the fatty acids. ..... passes test
Acidity or alkalinity ..... passes test
Loss on drying at 105 °C ..... 6.0 %
Chloride (Cl) ..... 0.1 %
Sulfate (SO_4) ..... 0.3 %
Acid value of the fatty acids 195-210
Residual solvents (Ph. Eur.) ..... passes test

Total combined yeast and moulds (TYMC) ..... 100 cfu /g
Total aerobic microbial count (TAMC) ..... 1000 cfu/g
Salmonella absence/10g
Escherichia coli ..... absence/g
Heavy metals (as Pb) ..... 0.002 %
Cd ..... 0.0003 %
Ni ..... 0.0005 %
Pb ..... 0.001 %

Code	Packaging
142029.0415	10 kg

НеВаРеактив

Magnesium Sulfate anhydrous

Epsom Salt

$MgSO_4$
M = 120.37 g/mol
CAS 7487-88-9
EINECS 231-98-2
CS 28332100

Solid

WGK 1
Storage RT

142486 Magnesium Sulfate anhydrous pure

* Use this product as drying agent only! Do not prepare reagents with this product!

Specifications
Assay (titr.) .....min. 98 %
Heavy metals (as Pb) .....max. 0.005 %
Loss on drying (650 °C) ..... max. 1 %
$CaSO_4$ ..... max. 0.5 %

Code	Packaging
142486.1211	1 kg
142486.1214	5 kg
142486.0415	10 kg

212486 Magnesium Sulfate anhydrous technical grade

Specifications
Assay (Compl.) .....96 %

Code	Packaging
212486.1211	1000 g
212486.1214	5 kg

Magnesium Sulfate dried

$MgSO_4 \cdot xH_2O$
M = 120.37 g/mol · xH_2O
CAS 22189-08-8
EINECS 231-298-2
CS 28332100

Solid

WGK nwg
Storage RT

127113 Magnesium Sulfate dried for analysis

Specifications
Assay (titr.) ..... 62-70 %
Insoluble matter .....max. 0.05 %
Loss on drying (600 °C) ..... 26-32 %
Chloride ..... max. 0.01 %
As ..... max. 0.0002 %
Ca ..... max. 0.01 %
Fe ..... max. 0.0005 %
Pb .....max. 0.0005 %
Zn .....max. 0.0005 %

Code	Packaging
127113.1211	1 kg
127113.0415	10 kg

147113 Magnesium Sulfate dried (BP) pure, pharma grade

Specifications
Assay (titr., as $MgSO_4$) ..... 62.0-70.0 %
Acidic/alkaline react. subst. ..... passes test
Heavy metals (as Pb) ..... max. 0.0015 %
Identity .....passes test
Insoluble matter .....passes test
Chloride .....max. 0.04 %
As .....max. 0.0003 %
Fe .....max. 0.003 %

Code	Packaging
147113.1211	1 kg

Magnesium Sulfate dried, powder

Epsom Salt

$MgSO_4 \cdot xH_2O$
M = 120.36 (anh) g/mol
CAS 7487-88-9
EINECS 231-298-2
CS 28332100

Solubility ..... Soluble in water.
Solid

WGK 1
Storage RT

141673 Magnesium Sulfate 65 % dry, powder (BP) pure, pharma grade

Specifications
Assay (Compl.) calc. a.d.s. ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O .....passes test
Loss on drying at 450 °C .....30.0-38.0 %
Chloride (Cl) ..... 0.04 %
Heavy metals (as Pb) ..... 0.0015 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1,300 ppm
As .....0.0003 %
Ca .....0.05 %
Fe .....0.003 %

Code	Packaging
141673.0416	25 kg

Magnesium Sulfate 7-hydrate

Epsom Salt

$MgSO_4 \cdot 7H_2O$
M = 246.48 g/mol
CAS 10034-99-8
EINECS 231-298-2
CS 28332100

Solubility ..... 710 g/L (H_2O)
Solid

WGK 1
Storage RT

131404 Magnesium Sulfate 7-hydrate for analysis, ACS

Specifications
Assay (Compl.) ..... 99.5-102.0 %
Identity ..... passes test
pH of 5 % solution 5.0-7.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Ammonium (NH_4) ..... 0.002 %
Phosphate (PO_4) ..... 0.001 %
Nitrate (NO_3) .....0.001 %
As .....0.00005 %
Heavy metals (as Pb) .....0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	5	Al	5	Cu	5
Au	5	B	5	Ga	5
Be	5	Bi	5	In	5
Ca	40	Cd	5	Li	5
Co	5	Cr	5	Mo	5
Fe	5	Ge	5	K	50
Mn	1	Na	50	Ni	5
Pb	5	Sb	5	Se	5
Si	5	Sn	5	Sr	50
Ti	5				

Code	Packaging
131404.1210	500 g
131404.1211	1000 g
131404.0914	5 kg
131404.0416	25 kg

631404 Magnesium Sulfate 7-hydrate (Ph. Eur, BP) GMP - IPEC grade

Specifications
Assay (Compl.) (calc. a.a.s) ..... 99.0-100.5 %
Identity according to Pharmacopoeias:
[illegible]lfate ..... passes test
[illegible]gnesium ..... passes test

Maximum limit of impurities
Appearance of solution
Appearance Clear < formazin I ..... passes test
Appearance Colourless .....passes test
Acidity or alkalinity
(< 0.2 ml HCl or NaOH 0.01N) ..... passes test
Loss on drying .....48.0-52.0 %
Chloride (Cl) ..... 0.0300 %
Residual solvents (Ph. Eur.) .....passes test
Heavy metals (as Pb) .....0.0010 %
As .....0.0002 %
Fe .....0.0020 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
631404.0416	25 kg

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

141404 Magnesium Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) (calc. a.a.s) ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 5.0-9.2

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Loss on drying at 450 °C .....48.0-52.0 %
Chloride (Cl) .....0.014 %
Ammonium (NH_4) .....0.005 %
Phosphate (PO_4) .....0.002 %
Residual solvents (Ph. Eur./USP) .passes test
Heavy metals (as Pb) .....0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1.300 ppm
As ..... 0,00015 %
Cd ..... 0,00005 %
Fe ..... 0,002 %
Hg ..... 0,00015 %
Pb ..... 0,00005 %
Se ..... 0,003 %

Code	Packaging
141404.1210	500 g
141404.1211	1000 g
141404.0914	5 kg
141404.0416	25 kg

201404 Magnesium Sulfate 7-hydrate (F.C.C.) food grade

Specifications
Assay ($MgSO_4$) after ignition,
not less than ..... 99.5 %
Identity
Sulfate .....passes test
Magnesium .....passes test
Appearance .....passes test
Loss on ignition .....40.0-52.0 %
Lead, not more than .....4 ppm
Selenium, not more than ..... 0.003 %
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201404.1214	5 kg
201404.0416	25 kg

211404 Magnesium Sulfate 7-hydrate technical grade

Specifications
Assay (Compl.) ..... 98-102 %
pH of 5 % solution 5.0-8.2
Insoluble matter in H_2O .....0.025 %
Ammonium (NH_4) .....0.005 %
Heavy metals (as Pb) .....0.002 %

Code	Packaging
211404.0416	25 kg

A6287 Magnesium Sulfate 7-hydrate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) .....min. 99.5 %
Total N ..... max. 0.002 %
Chloride ..... max. 0.0005 %
As .....max. 0.0001 %
Ca .....max. 0.005 %
Cu .....max. 0.00005 %
Fe .....max. 0.0001 %
Mn .....max. 0.0001 %
Na .....max. 0.001 %
Pb ..... max. 0.0005 %
Zn ..... max. 0.00001 %

Code	Packaging
A6287,0250	250 g

A6414 Magnesium Sulfate 7-hydrate for cell culture

Specifications
Pyrogen test ..... passes test
Assay (titr.) .....min. 99.5 %
Total N ..... max. 0.002 %
Chloride ..... max. 0.0005 %
As .....max. 0.0001 %
Ca .....max. 0.005 %
Cu .....max. 0.00005 %
Fe .....max. 0.0001 %
Mn .....max. 0.0001 %
Na .....max. 0.001 %
Pb ..... max. 0.0005 %
Zn ..... max. 0.00001 %

Code	Packaging
A6414,0500	500 g

A4101 Magnesium Sulfate 7-hydrate BioChemica

Specifications
Assay (titr.) .....min. 99.5 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O) ..... 5.0-8.5 (20 °C)
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.02
280 nm ..... max. 0.02

Code	Packaging
A4101,1000	1 kg
A4101,5000	5 kg

Magnesium Sulfate 0.01 mol/l (0.02N)

CS 38220000
Liquid
WGK nwg
Storage RT

187098 Magnesium Sulfate 0.01 mol/l (0.02N) volumetric solution

Specifications
Factor limits 0.998-1.002

Code	Packaging
187098.1211	1 L

Malachite Green G see Brilliant Green (C.I. 42040)

Malachite Green Oxalate (C.I. 42000)

Basic Green 4, N,N,N',N'-Tetramethyl-4,4'-Diaminotriphenylcarbenio Oxalate

$C_{52}H_{54}N_4O_{12}$
M = 927.02 g/mol
CAS 2437-29-8
EINECS 219-441-7
CS 32041300
Index Nr. 607-007-00-3
Melting Point .....~ 159 °C
Solubility ..... water 400 g/l at 20 °C
Solubility .....alcohol 500 g/l
Solid
UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H318 H361d H410 H302

251761 Malachite Oxalate Green (C.I. 42000) for clinical diagnosis

for microscopy, staining of cytoplasm of vegetal cells

Specifications
Identity .....IR passes test
Ratio λ_{max} P +/- 15 nm 1.00-1.15
A 1 %, 1 cm, λ_{max} ..... > 1450
λ_{max} ABS in H_2O .....616-620 nm
T.L.C. .....passes test

Maximum limit of impurities
Loss on drying at 110 °C .....7 %

Code	Packaging
251761.1606	25 g
251761.1608	100 g

Maleic Acid

Toxilic Acid, cis-Butenedioic Acid, Butenedioic Acid, cis-1,2-Ethylenedicarboxylic Acid

HOOCCHCHCOOH
M = 116.07 g/mol
CAS 110-16-7
EINECS 203-742-5
CS 29171990
Index Nr. 607-095-00-3
Melting Point .....134-138 °C
Solubility ..... 788 g/L (H_2O)
Solid
WGK 1
Storage RT

Warning



H302 H315 H317 H319 H335

141882 Maleic Acid (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (acidim.) calc. a.d.s. ..... 99.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... passes test
Residue on ignition (as SO_4) .....0.1 %
Residual solvents (Ph. Eur.) .....passes test
Fumaric Acid .....passes test
Water (H_2O) .....1.5 %
Heavy metals (as Pb) .....0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1,300 ppm
Fe ..... 0.0005 %

Code	Packaging
141882.1210	500 g
141882.1211	1000 g
141882.0416	25 kg

A1841 Maleic Acid (Ph. Eur.) pure, pharma grade

Specifications
Assay (titr., calc. on anhydrous subst.) ..... 99.0-101.0 %
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Sulfated ash ..... max. 0.1 %
Fumaric acid ..... passes test
Water (K.F.) ..... max. 2.0 %
Fe ..... max. 0.0005 %

Code	Packaging
A1841,0500	500 g

N-(γ-Maleimidobutyryloxy) succinimide ester see GMBS

L(-)-Malic Acid

S(-)-2-Hydroxysuccinic Acid

$C_4H_6O_5$
M = 134.09 g/mol
CAS 97-67-6
EINECS 202-601-5
CS 29181998

Solubility ..... 160 g/L (H_2O)
Solid

Storage RT

Warning



H315 H319 H335

A2130 L(-)-Malic Acid BioChemica

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 5 %, Pyridine ..... -27 to -30°
Solubility (5 %; H_2O) ..... clear, colorless
Water (K.F.) ..... max. 0.5 %

Code	Packaging
A2130,0500	500 g

DL-Malic Acid

DL-Hydroxybutanedioic Acid, DL-Hydroxysuccinic Acid

$C_4H_6O_5$
M = 134.09 g/mol
CAS 617-48-1
EINECS 210-514-9
CS 29181998

Melting Point ..... 130 °C
Solubility ..... water 1,440 g/l at 20 °C
Solid

Storage RT

Warning



H319

142051 DL-Malic Acid (USP-NF) pure, pharma grade

Specifications
Assay (Acidim.) ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test
Melting range ..... 128-131 °C

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.1 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.02 %
Residual solvents (Ph. Eur./USP) . passes test
Fumaric Acid ..... 1.0 %
Maleic Acid ..... 0.05 %
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0001 %

Code	Packaging
142051.0914	5 kg

Malonic Acid

$C_3H_4O_4$
M = 104.06 g/mol
CAS 141-82-2
EINECS 205-503-0
CS 29171910

Melting Point ..... 136 °C
Solubility ..... 735 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H302 H319

167082 Malonic Acid for synthesis

Specifications
Assay (titr.) ..... min. 99 %
Identity (IR) ..... passes test

Code	Packaging
167082.1209	250 g
167082.1211	1 kg

Malt Extract

CAS 8002-48-0
EINECS 232-310-9
CS 38210000

Solid

Storage RT

A3215 Malt extract for microbiology

Specifications
E. coli ..... negative/10 g
Loss on drying ..... max. 6 %
pH (3 %; H_2O) 4.8-5.8
Residue on ignition ..... max. 4.5 %
Salmonella ..... negative/25 g
Total aerobic microbial counts .. max. 10000/g
Yeast and moulds ..... max. 20/g
Maltose ..... min. 60 %
Chloride (as NaCl) ..... max. 1 %

Code	Packaging
A3215,0500	500 g
A3215,9025	25 kg

Malt Extract Agar

CS 38210000

Solid

WGK nwg
Storage RT

A5789 Malt Extract Agar for microbiology

• **Attention**: Please note that a supplement (A6789) exists for this agar. Please order separately.

Specifications
pH before autoclaving ..... approx. 5.4 (20 °C)

Composition:
Agar ..... 15 g/L
Malt extract ..... 30 g/L
Peptones ..... 5 g/L

Code	Packaging
A5789,0500	500 g

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

HeBaPeaKTMB

Maltodextrin white

Dextrin from corn starch

CAS 9050-36-6
EINECS 232-940-4
CS 35051010

Solid

WGK 1
Storage RT

A4804 Maltodextrin white pure

Specifications

Appearance	white powder	Sulfated ash	max. 0.1 %
Identity (IR)	passes test	Water (K.F.)	max. 5 %
pH (40 %; H_2O; 20 °C)	4.0-5.0	As	max. 0.000002 %
Solubility (5 %; H_2O)	clear, colorless	Ca	max. 0.001 %
		Cd	max. 0.000001 %
		Hg	max. 0.000001 %
		K	max. 0.0005 %
		Mg	max. 0.0002 %
		Na	max. 0.03 %
		Pb	max. 0.000005 %

Code	Packaging
A4804,1000	1 kg

D(+)-Maltose 1-hydrate

Malt sugar, 4-O-α-D-Glucopyranosyl- D-Glucose, 4-(α-D-Glucosido)-D-Glucose, Maltobiose

$C_{12}H_{22}O_{11} \cdot H_2O$
M = 360.32 g/mol
CAS 6363-53-7
EINECS 200-716-5
CS 17029010

Solubility 1080 g/L (H_2O)
Solid

WGK nwg
Storage RT

141797 D(+)-Maltose 1-hydrate pure

Specifications

Acidity (as CH_3COOH)	0.01 %	Fe	0.001 %
Insoluble matter in H_2O	0.01 %	Ni	0.001 %
Residue on ignition (as SO_4)	0.05 %	Pb	0.001 %
Chloride (Cl)	0.005 %		
Sulfate and sulfite (as SO_4)	0.01 %		
Cu	0.001 %		

Code	Packaging
141797.1208	100 g
141797.1210	500 g
141797.1211	1000 g
141797.0914	5 kg

A3891 D(+)-Maltose 1-hydrate BioChemica

Specifications

Assay (HPLC)	min. 95 %	Insoluble matter	passes test	A (1 cm/0.1 M in H_2O)	
α20 °C/D; 4 %, H_2O	135-139°	pH (20 %; H_2O; 25 °C)	4.0-6.5	260 nm	max. 0.1
Heavy metals (as Pb)	max. 0.0005 %	Glucose (TLC)	max. 1 %	280 nm	max. 0.1
		Water (K.F.)	max. 6.0 %		

Code	Packaging
A3891,0500	500 g
A3891,1000	1 kg

Maltotriose

$C_{18}H_{32}O_{16}$
M = 504.44 g/mol
CAS 1109-28-0
EINECS 214-174-2
CS 29400000

Solid

WGK nwg
Storage RT

A7782 Maltotriose BioChemica

Specifications

Assay (HPLC)	min. 97 %
α20 °C/D; 3 %, H_2O	162-168°
Water (K.F.)	max. 5 %

Code	Packaging
A7782,0001	1 g
A7782,0005	5 g
A7782,0025	25 g

Malvidin Chloride

Origin from *Malva silvestris*

$C_{17}H_{15}ClO_7$
M = 366.75 g/mol
CAS 643-84-5
EINECS 211-403-8
CS 29329900

Solid

Storage 2-8 °C

A8720 Malvidin Chloride for HPLC

Specifications

Assay	min. 97 %

Code	Packaging
A8720,0010	10 mg

Malvidin-3-Glucoside see Oenin Chloride

Malvinchloride

Malvidin-3,5-Diglucoside Chloride

Origin from *Malva paradisi*

$C_{29}H_{35}ClO_{17}$
M = 691.02 g/mol
CAS 16727-30-3
CS 29389090

Storage 2-8 °C

A8704 Malvinchloride for HPLC

Specifications

Assay	min. 97 %

Code	Packaging
A8704,0020	20 mg

HebaPeakTMB

Manassantin B

Origin from *Saururus chinensis*

$C_{41}H_{48}O_{11}$
M = 716.30 g/mol
CAS 88497-88-5
CS 29321900

Storage 2-8 °C

Warning



H302+H332 H319 H335

A9007 Manassantin B for HPLC

Specifications
Assay .....min. 98 %

Code	Packaging
A9007,0010	10 mg

D-Mandelate dehydrogenase, bacterial

Origin of bacterial origin

M = ~ 60 kDa
CS 35079090

Storage -20 °C

A7834 D-Mandelate Dehydrogenase, bacterial technical grade

lyophilized

Specifications
Activity .....min. 65 U/mg

Code	Packaging
A7834,0010	10 KU

Manganese(II) Acetate 4-hydrate

$Mn(CH_3COO)_2 \cdot 4H_2O$
M = 245.09 g/mol
CAS 6156-78-1
EINECS 211-334-3
CS 29152900

Solubility ..... 330 g/L (H_2O)
Solid

WGK 3
Storage RT

Warning



H318

141407 Manganese(II) Acetate 4-hydrate pure

Specifications
Assay (titr.) .....min. 99 %
Chloride .....max. 0.002 %
Sulfate ..... max. 0.005 %
Ca ..... max. 0.01 %
Fe ..... max. 0.001 %
Pb .....max. 0.005 %
Zn .....max. 0.005 %

Code	Packaging
141407.0415	10 kg

211407 Manganese(II) Acetate 4-hydrate technical grade

Specifications
Assay (Compl.) .....97 %
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.05 %
Fe .....0.01 %
Pb .....0.005 %

Code	Packaging
211407.0416	25 kg

Manganese(II) Carbonate x-hydrate

$MnCO_3 \cdot xH_2O$
M = 114.95 (anh) g/mol
CAS 598-62-9
EINECS 209-942-9
CS 28369917

Solubility ..... water 0.065 g/l at 25 °C
Solid

WGK 3
Storage RT

141409 Manganese(II) Carbonate x-hydrate pure

Specifications
Assay (as Mn) (Compl.) ..... 43-46 %
Insoluble matter in HNO_3+H_2O_2 .....0.05 %
Chloride (Cl) .....0.02 %
Sulfate (SO_4) ..... 0.5 %
Cu ..... 0.01 %
Fe ..... 0.01 %
Ni ..... 0.05 %
Pb .....0.01 %
Zn .....0.02 %

Code	Packaging
141409.0914	5 kg

Manganese(II) Chloride 4-hydrate

$MnCl_2 \cdot 4H_2O$
M = 197.91 g/mol
CAS 13446-34-9
EINECS 231-869-6
CS 28273985

Melting Point ..... 58 °C
Solubility ..... 1980 g/L (H_2O)
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 1
Storage RT

Warning



H302 H411

191410 Manganese(II) Chloride 4-hydrate (USP) pharma grade

Specifications
Assay (Compl.) calc. applied anh. subst. ..... 98.0-101.0 %
Identity according to Pharmacopoeias: ..... passes test
pH of 5 % solution 3.5-6.0

Maximum limit of impurities
Insoluble matter in H_2O .....0.005 %
Loss on drying at 150 °C .....36.0-38.5 %
Sulfate (SO_4) .....0.005 %
Non-precipitated substances by $S(NH_4)_2$ (as SO_4) ..... 0.2 %
Residual solvents (Ph. Eur./USP) . passes test

Heavy metals (as Pb) .....0.0005 %
Fe .....0.0005 %
Zn .....passes test
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
191410.0416	25 kg

141410 Manganese(II) Chloride 4-hydrate pure

Specifications
Assay (Compl.) ..... 98-102 %
pH of 5 % solution 3.5-6.0
Insoluble matter in H_2O ..... 0.025 %
Sulfate (SO_4) .....0.025 %
Ca ..... 0.1 %
Cu .....0.002 %
Fe .....0.003 %
Pb .....0.002 %
Zn .....0.02 %

Code	Packaging
141410.1210	500 g
141410.0416	25 kg

A2087 Manganese(II) Chloride 4-hydrate BioChemica

Specifications
Assay (titr.) .....min. 98 %
Heavy metals (as Pb) .....max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 20 °C) 3.5-6.0
Sulfate ..... max. 0.005 %

Code	Packaging
A2087,0100	100 g

HeBaPeakTMB

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Manganese(II) Nitrate 4-hydrate

$Mn(NO_3)_2 \cdot 4H_2O$
M = 251.01 g/mol
CAS 20694-39-7
EINECS 233-828-8
CS 28342980

Melting Point ..... 37 °C
Solubility ..... water 3,800 g/l at 20 °C
Solid

UN2724
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage Not recommended in areas with a very hot climate

123224 Manganese(II) Nitrate 4-hydrate for analysis

Specifications
Minimum assay (Compl.) ..... 98 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.005 %
Ammonium (NH_4) ..... 0.05 %
Sulfate (SO_4) ..... 0.005 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.001 %
K ..... 0.01 %
Mg ..... 0.005 %
Na ..... 0.05 %
Ni ..... 0.002 %
Pb ..... 0.001 %
Zn ..... 0.005 %

Code	Packaging
123224.1214	5 kg
123224.0416	25 kg

143224 Manganese(II) Nitrate 4-hydrate pure

Specifications
Assay (Compl.) ..... 97 %
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.005 %
Ammonium (NH_4) ..... 0.1 %
Sulfate (SO_4) ..... 0.005 %
Ca ..... 0.005 %
Cd ..... 0.002 %
Cu ..... 0.002 %
Fe ..... 0.005 %
K ..... 0.01 %
Mg ..... 0.01 %
Na ..... 0.01 %
Ni ..... 0.005 %
Pb ..... 0.005 %
Zn ..... 0.05 %

Code	Packaging
143224.1210	500 g

Manganese(II) Sulfate 1-hydrate

$MnSO_4 \cdot H_2O$
M = 169.01 g/mol
CAS 10034-96-5
EINECS 232-089-9
CS 28332980
Index Nr. 025-003-00-4

Melting Point ..... 117 °C
Solubility ..... water 762 g/l at 20 °C
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 1
Storage RT

Warning



H373 H411

131413 Manganese(II) Sulfate 1-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Compl.) ..... 98.0-101.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Reducing substance to $KMnO_4$ (as O) ..... 0.0005 %
Loss on ignition ..... 10.0-12.0 %
Chloride (Cl) ..... 0.005 %
Heavy metals (as Pb) ..... 0.002 %
Ca ..... 0.005 %
Cu ..... 0.0005 %
Fe ..... 0.002 %
K ..... 0.01 %
Mg ..... 0.005 %
Na ..... 0.05 %
Ni ..... 0.02 %
Pb ..... 0.001 %
Zn ..... 0.005 %

Code	Packaging
131413.1210	500 g
131413.1211	1000 g
131413.0416	25 kg

141413 Manganese(II) Sulfate 1-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) (calc. a.a.s) ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Loss on ignition ..... 10.0-12.0 %
Chloride (Cl) ..... 0.0100 %
Non-precipit. substances by $S(NH_4)_2$ ..... 0.5 %
Residual solvents (Ph. Eur./USP) ..passes test
Heavy metals (as Pb) ..... 0.002 %
As ..... 0.0004 %
Cu ..... 0.003 %
Fe ..... 0.0010 %
Pb ..... 0.003 %
Zn ..... 0.0050 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141413.1210	500 g
141413.1211	1000 g
141413.1214	5 kg

201413 Manganese(II) Sulfate 1-hydrate (F.C.C.) food grade

Specifications
Assay ($MnSO_4.H_2O$) ..... 98.0-102.0 %
Identity
Sulfate ..... passes test
Manganese ..... passes test
Appearance ..... passes test
Loss on ignition ..... 10.0-13.0 %
Arsenic, not more than ..... 3 ppm
Lead, not more than ..... 4 ppm
Selenium, not more than ..... 0.003 %
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201413.1214	5 kg

D(-)-Mannitol

Cordycepic Acid, D-Mannite, (2R,3R,4R,5R)-Hexane-1,2,3,4,5,6-hexol

$C_6H_{14}O_6$
M = 182.17 g/mol
CAS 69-65-8
EINECS 200-711-8
CS 29054300

Solubility ..... 156 g/L (H_2O)
Solid

Storage RT

132067 D(-)-Mannitol for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 98.0 %
Identity ..... IR passes test
Melting range ..... 165-168 °C
Specific rotation α n20/D c=10 (in $B_4O_7Na_2.10H_2O$ 13 %) ..... 23.3-24.3°

Maximum limit of impurities
Acidity ..... 0.0008 meq/g
Insoluble matter in H_2O ..... 0.01 %
Darkened substances by H_2SO_4 ...passes test
Loss on drying at 105 °C ..... 0.05 %
Residue on ignition (as SO_4) ..... 0.01 %
Reducing sugars (as $C_6H_{12}O_6$) ..... 0.05 %
Chloride (Cl) ..... 0.0025 %
Sulfate (SO_4) ..... 0.005 %
D(-)-Sorbitol (G.C.) ..... 1 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0,0001 %
Ca ..... 0,001 %
Cu ..... 0,0005 %
Fe ..... 0,0005 %
Ni ..... 0,0001 %
Pb ..... 0,00005 %
Zn ..... 0,0005 %

Code	Packaging
132067.1210	500 g
132067.1211	1000 g
132067.0914	5 kg

142067 D(-)-Mannitol (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (calc. a.d.s.) ..... 98.0-101.5 %
Identity according to Pharmacopoeias: ..... passes test
Melting range ..... 165-168 °C
Specific rotation α n20/D c=10 (in $B_4O_7Na_2.10H_2O$ 13 %) ..... +23.0 -+25.0°
Specific rotation α 25/D c= 1 (in $(NH_4)_6Mo_7O_{24}.4H_2O$ 4 %) ..... 137-145°

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity ..... 0.0008 meq/g
Alkalinity ..... 0.006 meq/g
Insoluble matter in H_2O ..... 0.01 %
Loss on drying at 105 °C ..... 0.2 %
Residue on ignition (as SO_4) ..... 0.1 %
Reducing sugars (as $C_6H_{12}O_6$) ..... 0.05 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Conductivity at 20 °C (c=20 % w/v in H_2O) ..... 20 uS.cm^{-1}
Related substances:
Residual solvents (Ph. Eur./USP) .passes test
D (-)-Sorbitol ..... 2.0 %
D (-)-Maltitol ..... 2.0 %
Isomalt ..... 2.0 %
Not specified impurities ..... 0.10 %
Total impurities ..... 2.0 %
Water (H_2O) ..... 0.5 %
Total combined yeast and moulds (TYMC) ..... 100 cfu /g
Total aerobic microbial count (TAMC) ..... 1000 cfu/g
Salmonella absence/10g
Escherichia coli ..... absence/g
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1.300 ppm
As ..... 0,0001 %
Ni ..... 0,0001 %
Pb ..... 0,00005 %

Code	Packaging
142067.1210	500 g
142067.1211	1000 g
142067.0914	5 kg
142067.0416	25 kg

HeBaPeaKTMB

A1903 D(-)-Mannitol BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 8 %, borate compl. ..... 23-25°
Heavy metals (as Pb) ..... max. 0.0005 %
Insoluble matter ..... passes test
Loss on drying ..... max. 0.1 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.01 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.05

Code	Packag
A1903,0500	500 g
A1903,1000	1 kg

A4831 D(-)-Mannitol low endotoxin, (Ph. Eur., BP, USP, JP) pure, pharma grade

Specifications
Assay (HPLC, calc on dried subst.) ..... 98.0-101.5 %
α25 °C/D; 1 %, molybdate compl. .... 137-145°
E. coli ..... negative
Acidic react. subst. ..... passes test
Appearance of solution ..... passes test
Colony count (yeasts & moulds) ..... max. 100 CFU/g
Conductivity (25 °C; 20 % in H_2O) ..... max. 20 µS/cm
Endotoxins ..... max. 1 I.U./g
Heavy metals (as Pb) ..... max. 0.0005 %
Identity ..... passes test
Loss on drying (4 h; 105 °C) ..... max. 0.3 %
Melting point ..... 166-169 °C
Red. sugars (as Glc) (Ph. Eur., BP) ..... max. 0.1 %
Red. sugars (as Glc) (USP, JP) .... passes test
Related subst. (HPLC) ..... passes test
Salmonella ..... negative
Sulfated ash ..... max. 0.1 %
Sum of rel. subst. ..... max. 2.0 %
Total aerobic microbial counts ..... max. 1000 CFU/g
Water ..... max. 0.5 %
Chloride ..... max. 0.007 %
Sulfate ..... max. 0.01 %
As ..... max. 0.0001 %
Ni ..... max. 0.0001 %
Pb ..... max. 0.00005 %

Code	Packaging
A4831,1000	1 kg
A4831,5000	5 kg

D(+)-Mannose

$C_6H_{12}O_6$
M = 180.16 g/mol
CAS 3458-28-4
EINECS 222-392-4
CS 29400000
Melting Point ..... 133 °C
Solid
Storage RT

A2187 D(+)-Mannose BioChemica

Specifications
Assay (HPLC) ..... min. 98 %
α20 °C/D; 10 %, H_2O ..... 13.5-14.9°
Heavy metals ..... max. 0.001 %
Loss on drying ..... max. 0.5 %

Code	Packaging
A2187,0100	100 g
A2187,0250	250 g
A2187,9010	10 kg

Marine Agar 2216 see Marine Agar (Dehydrated Culture Media) for microbiology

Marine Broth 2216 see Marine Broth (Dehydrated Culture Media) for microbiology

Masson's Trichrome Kit

CS 38220000
UN3316
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
Storage RT

Danger



H225 H301 H311H331

256692 Masson's Trichrome Kit for clinical diagnosis

With aniline blue

Specifications
Consists of:
1x30ml Masson's Trichrome Kit with aniline blue Reagent A
1x30ml Masson's Trichrome Kit with aniline blue Reagent B
1x30ml Masson's Trichrome Kit with aniline blue Reagent C
1x30ml Masson's Trichrome Kit with aniline blue Reagent D
1x30ml Masson's Trichrome Kit with aniline blue Reagent E
1x30ml Masson's Trichrome Kit with aniline blue Reagent F
1 Instructions sheet

Code	Packaging
256692.0922	Kit

Matrix effect reduction see CrossDown Buffer

maxXbond™

Regeneration Kit for DNA Binding Columns

CS 38220000
Storage RT

MB007 maxXbond™

Specifications
suited for pure silica matrices: 100 % - no DNA detectable
quick & easy: 30 minutes only!
bio-degradable and non-toxic
no damage to silica matrix
just like new: full binding capacity after the re-generation
savings of up to 70 % when isolating nucleic acids

Code	Packaging
MB007,0200	1 Kit
MB007,1000	1 Kit

May-Gruenwald solution

Eosin-Methylene blue - Solution acc. to May-Grünwald, May Grünwald's solution

CS 32041900
Boiling Point ..... 65 °C
Liquid
UN1230
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 1
Storage RT

Danger



H225 H301+H311+H331 H370

251416 May Grünwald's Eosin-Methylene Blue solution for clinical diagnosis

For hematology, blood smear staining

Composition:
May Grünwald's Eosin-Methylene Blue dye ..... 0.25 g
Methanol s.q.m ..... 100 ml
Identity ..... passes test

Maximum limit of impurities
ABS at 516 ± 3 nm; dil. 1:1000 .... 0.100-0.160
ABS at 656 ± 6 nm; dil. 1:1000 .... 0.145-0.200
Staining suitability ..... passes test

Code	Packaging
251416.1610	500 ml
251416.1611	1000 ml
251416.1612	2.5 l

HeBaPeaKTMB

A0415 May-Gruenwald solution for microscopy

for preparation of the blood elements; in combination with Giemsa - Solution (A0885) for panoptical staining by Pappenheim

Code	Packaging
A0415,0500	500 ml
A0415,2500	2.5 L

Mayer's Hemalaun solution

CS 38220000 | Liquid | WGK 1, Storage RT

A0884 Mayer's Hemalaun solution for microscopy

for Cytodiagnostic

Code	Packaging
A0884,0500	500 ml
A0884,1000	1 L
A0884,2500	2.5 L

Mayer's Hematoxylin solution

CS 38220000 | Liquid | Storage RT

Warning



H302

254766 Mayer's Hematoxylin solution for clinical diagnosis

for cytology

Composition:

Hematoxylin	1.0 g
Aluminium Potassium Sulfate 12-hydrate	50 g
Sodium Iodate	0.2 g
Chloral hydrate	50 g
Citric Acid anhydrous	1 g
Water	1000 ml
Identity	passes test
λ_{max} ABS in H_2O	551-556 nm
ABS max. dil. 1:100 in H_2O	> 0.350

Code	Packaging
254766.1610	500 ml
254766.1611	1000 ml

A4840 Mayer's Hematoxylin solution

Specifications
UV spectrum ..... passes test

Code	Packaging
A4840,0500	500 ml
A4840,1000	1 L

mCP Medium see m-CP Agar (Prepared Plate (∅ 55 mm)) for microbiology

Medium 199 with Earle's salts, powder

Cell culture media

CS 38210000 | Storage 2-8 °C

A9210 Medium 199 with Earle's Salts

Specifications
without D(+)-Glucose
without L-Glutamine
with 25 mM HEPES
without Nicotinic acid
without Phenol red
without Sodium hydrogen carbonate

Code	Packaging
A9210,9020	20 L

A1325 Medium 199 with Earle's Salts

Specifications
with L-Glutamine
without Sodium hydrogen carbonate

Code	Packaging
A1325,9050	50 L

A2022 Medium 199 with Earle's Salts

Specifications
without L-Glutamine
without Sodium hydrogen carbonate

Code	Packaging
A2022,9050	50 L

A9611 Medium 199 with Earle's Salts

Specifications
without L-Glutamine
without Methionine
with 25 mM HEPES
without Sodium pyruvate
without Phenol red
without Sodium hydrogen carbonate

Code	Packaging
A9611,9020	20 L

Medium A see Tryptone Soy Broth (TSB) (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Medium B see Tryptone Soy Agar (TSA) (Ph. Eur.) (Contact Plate) for microbiology

Medium C see Sabouraud Glucose Agar+Chloramphenicol (Ph. Eur.) (irradiated) (Prepared Plate (∅ 90 mm)) for microbiology

Medium D see Lactosed Broth (Dehydrated Culture Media) for microbiology

Medium G see MacConkey Broth (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Medium H see MacConkey Agar (Ph. Eur., ISO 21567) (Dehydrated Culture Media) for microbiology

Medium K. XLD Agar see XLD Medium (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Medium L see Brilliant Green Agar (Dehydrated Culture Media) for microbiology

Medium [illegible] Triple Sugar Iron Agar (Dehydrated Culture Media) for microbiology

Medium N see [illegible]imide Agar (Ph. Eur.) (Dehydrated Culture Media) for microbiology

НеваРеактив

Medium O see Baird-Parker Agar (ISO 6888) (Prepared Plate (∅ 90 mm)) for microbiology

Medium S see R2A Agar (Ph. Eur.) (Dehydrated Culture Media) for microbiology

MEGA-8

Octanoyl-N-methylglucamide, OMEGA

$C_{15}H_{31}NO_6$
M = 321.42 g/mol
CAS 85316-98-9
CS 29241900

Melting Point ..... 88-89 °C Storage 2-8 °C
Solid

A1386 MEGA-8

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 2 %, H_2O ..... -16.5 to -18.5°
pH (1 %; H_2O) 5.5-6.5

Solubility (2 %; H_2O; 20 °C) .... clear, colorless
A (1 cm/1 % in water HPLC grade)
260 nm ..... max. 0.01

Code	Packaging
A1386,0250	250 g
A1386,0500	500 g

MEK see 2-Butanone

Meletin see Quercetin

D(+)-Melibiose 1-hydrate

6-O-α-D-Galactopyranosyl-D-glucose

$C_{12}H_{22}O_{11} \cdot H_2O$
M = 360.32 g/mol
CAS 66009-10-7
EINECS 209-568-6
CS 29400000

Melting Point ..... 176-181 °C WGK 3
Solubility ..... clear, colorless Storage RT
Solid

A7715 D(+)-Melibiose 1-hydrate BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 5 %, H_2O; 10 h ..... 134-140°

Heavy metals ..... max. 0.001 %
Fe ..... max. 0.0005 %

Code	Packaging
A7715,0025	25 g

Melitose see D(+)-Raffinose 5-hydrate

Melitriose see D(+)-Raffinose 5-hydrate

α-MEM, powder

Cell culture media

CS 38210000 Storage 2-8 °C

A1329 α-MEM

Specifications
with L-Glutamine
with Deoxyribonucleosides

with Ribonucleosides
without Sodium hydrogen carbonate

Code	Packaging
A1329,9010	10 L

A1913 α-MEM

Specifications
without L-Glutamine
with Deoxyribonucleosides

with Ribonucleosides
without Sodium hydrogen carbonate

Code	Packaging
A1913,9050	50 L

A9612 α-MEM

Specifications
without L-Glutamine
without Biotine

without Deoxyribonucleosides
without Sodium hydrogen carbonate

Code	Packaging
A9612,9020	20 L

MEM with Earle's salts, powder

Cell culture media

CS 38210000 Storage 2-8 °C

A1956 MEM with Earle's salts

Specifications
with L-Glutamine
with 25 mM HEPES

with NEAA
without Sodium hydrogen carbonate

Code	Packaging
A1956,9010	10 L

MEM with Hanks' salts, powder

Cell culture media

CS 38210000 Storage 2-8 °C

A1335 MEM with Hanks' salts

Specifications
with L-Glutamine
without Sodium hydrogen carbonate

Code	Packaging
A1335,9050	50 L

A1336 MEM with Hanks' salts

Specifications
with L-Glutamine

with 25 mM HEPES
without Sodium hydrogen carbonate

Code	Packaging
A1336,9050	50 L

НеваРеактив

A5567 MEM with Hanks' salts

Specifications
with L-Glutamine
without Sodium hydrogen carbonate

Code	Packaging
A5567,9010	10 L

Menadione

2-Methyl-1,4-Naphthoquinone, Vitamin K_3

$C_{11}H_8O_2$
M = 172.19 g/mol
CAS 58-27-5
EINECS 200-372-6
CS 29146990

Solid

WGK 1
Storage RT
Storage protected from light

Warning



H302 H315 H319 H335

A2091 Menadione

Specifications
Assay (HPLC) ..... min. 97 %
Melting point ..... 104-106 °C

Code	Packaging
A2091,0025	25 g

β-Mercaptoethanol

Monothioethylene Glycol, 2-Mercaptoethanol

C_2H_6OS
M = 78.13 g/mol
CAS 60-24-2
EINECS 200-464-6
CS 29309099

Melting Point ..... -40 °C
Boiling Point ..... 157 °C
Density ..... 1.12 g/ml
Refractive Index n20/D 1.5006
Liquid

UN2966
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage 2-8 °C

Danger



H310+H330 H301 H315 H318 H410

A1108 β-Mercaptoethanol Molecular biology grade

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (G.C.) ..... min. 99 %
Water (K.F.) ..... max. 0.5 %

Code	Packaging
A1108,0025	25 ml
A1108,0100	100 ml
A1108,0250	250 ml
A1108,0500	500 ml

A4338 β-Mercaptoethanol BioChemica

Specifications
Assay (G.C.) ..... min. 99 %
Water (K.F.) ..... max. 0.5 %

Code	Packaging
A4338,0100	100 ml
A4338,0250	250 ml

2-Mercaptoethylamine Hydrochloride see Cysteamine Hydrochloride

Mercury Biiodide see Mercury(II) Iodide red

Mercury metal

Hg
M = 200.59 g/mol
CAS 7439-97-6
EINECS 231-106-7
CS 28054090
Index Nr. 080-001-00-0

Melting Point ..... -38.8 °C
Boiling Point ..... 356.7 °C
Density ..... 13.534 kg/l
Silvery white, heavy, mobile, liquid metal

UN2809
Class/PG 8(6.1)/III
ADR 8(6.1)/III · IMDG 8(6.1)/III · IATA 8(6.1)/III
Storage RT

Danger



H360D H330 H372 H410

131421 Mercury metal tridistilled (Reag. Ph. Eur.) for analysis, ACS

for polarography

Maximum limit of impurities
Appearance ..... passes test
Insoluble matter in HNO_3 ..... 0.002 %
Non-volatile matter ..... 0.0005 %
Residue after reduction ..... 0.002 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0,5	Al	1	K	2
Au	0,1	B	0,1	Mg	0,5
Ba	1	Be	0,1	Mo	0,1
Bi	0,1	Ca	5	Ni	0,1
Cd	0,1	Co	0,1	Pt	0,1
Cr	0,1	Cu	0,1	Se	0,1
Fe	0,5	Ga	0,1	Sr	0,1
Ge	0,1	In	0,1	Tl	0,1
Li	0,1	Mn	0,1	Na	5
Pb	0,1	Sb	1	Sn	0,1
Ti	0,1	V	0,1	Zr	0,1
Zn	0,5				

Code	Packaging
131421.2209	250 g
131421.2211	1000 g

141421 Mercury metal pure

Specifications
Residue after reduction ..... 0.05 %

Code	Packaging
141421.2211	1000 g

Mercury(II) Acetate

$Hg(CH_3COO)_2$
M = 318.68 g/mol
CAS 1600-27-7
EINECS 216-491-1
CS 28521000
Index Nr. 080-004-00-7

Melting Point ..... 179-182 °C
Solubility ..... Soluble in water.
Solid

UN1629
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H330 H310 H300 H373 H410

131417 Mercury(II) Acetate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay ..... 99.0 %

Maximum limits of impurities
Insoluble matter in H... ..... 0.01 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %
Residue after reduction ..... 0.02 %
Other heavy metals (as Pb) ..... 0.002 %
Hg (I) ..... 0.4 %
Nitrate (NO_3) ..... 0.005 %
Heavy metals (as Pb) ..... 0.002 %
Ag ..... 0.0005 %
Cd ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.001 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.001 %
Zn ..... 0.0005 %

Code	Packaging
131417.1208	100 g
131417.1209	250 g
131417.1211	1000 g
131417.1214	5 kg

НеВаРеактив

Mercury(II) Chloride

Mercury Bichloride

$HgCl_2$
M = 271.50 g/mol
CAS 7487-94-7
EINECS 231-299-8
CS 28521000
Index Nr. 080-010-00-X

Melting Point ..... 277 °C
Boiling Point ..... 302 °C
Solubility ..... water 74 g/l at 20 °C
Solid

UN1624
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H300 H314 H372 H361f H341 H410

131419 Mercury(II) Chloride for analysis, ACS

Specifications
Minimum assay (Compl.) .....99.5 %

Maximum limit of impurities
Insoluble matter in H_2O .....0.01 %
Insoluble matter in $C_2H_5OC_2H_5$ ..... 0.01 %
Residue after reduction ..... 0.02 %
Nitrate (NO_3) ..... 0.0005 %
Cu ..... 0.001 %
Fe ..... 0.002 %
K .....0.005 %
Mg .....0.001 %
Pb .....0.001 %

Code	Packaging
131419.1208	100 g
131419.1209	250 g
131419.1211	1000 g

141419 Mercury(II) Chloride pure

Specifications
Assay (Compl.) .....99 %
Insoluble matter in H_2O ..... 0.025 %
Residue after reduction .....0.2 %
Nitrate (NO_3) ..... 0.005 %
Cu ..... 0.002 %
Fe ..... 0.005 %
Mg .....0.005 %
Pb .....0.002 %

Code	Packaging
141419.1208	100 g
141419.1211	1000 g

Mercury(II) Iodide red

Mercury Biiodide

HgI_2
M = 454.40 g/mol
CAS 7774-29-0
EINECS 231-873-8
CS 28521000
Index Nr. 080-002-00-6

Melting Point ..... 259 °C
Boiling Point ..... 354 °C
Solubility ..... Insoluble in water
Solid

UN1638
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H330 H310 H300 H373 H410

121428 Mercury(II) Iodide red for analysis

Specifications
Minimum assay (Arg.) .....99 %

Maximum limit of impurities
Insoluble matter in IK solution ..... passes test
Residue on ignition (as SO_4) ..... 0.05 %
Soluble mercury salts (as Hg) ..... 0.05 %
Hg (I) ..... 0.1 %
Cu ..... 0.001 %
Ni .....0.001 %
Pb .....0.001 %

Code	Packaging
121428.1208	100 g
121428.1209	250 g
121428.1211	1000 g

Mercury(II) Nitrate 0.05 mol/l (0.1N)

$Hg(NO_3)_2$
M = 324.63 g/mol
CAS 10045-94-0
EINECS 233-152-3
CS 28521000
Index Nr. 080-002-00-6

Density .....1.014 kg/l
Liquid

UN2024
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage RT

Danger



H331 H311 H301 H373 H412

181424 Mercury(II) Nitrate 0.05 mol/l (0.1N) volumetric solution

Indicator: Diphenylcarbazone mixed

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181424.1611	1000 ml

Mercury(II) Nitrate 0.005 mol/l (0.01N)

$Hg(NO_3)_2$
M = 324.63 g/mol
CAS 10045-94-0
EINECS 233-152-3
CS 28521000
Index Nr. 080-002-00-6

Density .....1.001 kg/l
Liquid

UN2024
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage RT

Danger



H332 H312 H302 H373

182138 Mercury(II) Nitrate 0.005 mol/l (0.01N) volumetric solution

Indicator: Diphenylcarbazone mixed

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182138.1611	1000 ml

Mercury(II) Oxide red

HgO
M = 216.59 g/mol
CAS 21908-53-2
EINECS 244-654-7
CS 28521000
Index Nr. 080-002-00-6

Melting Point ..... 500 °C
Solubility ..... water 0.05 g/l at 20 °C
Solid

UN1641
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H330 H310 H300 H373 H410

141427 Mercury(II) Oxide red pure

Specifications
Assay (Compl.) .....98.5 %
Insoluble matter in HCl .....0.3 %
Chloride (Cl) .....0.1 %
Nitrogen compounds (as N) ..... 0.01 %
Sulfate (SO_4) ..... 0.05 %
Cu ..... 0.005 %
Fe ..... 0.01 %
Ni .....0.005 %
Pb .....0.005 %

Code	Packaging
141427.1208	100 g
141427.1214	5 kg

Mercury(II) Rhodanide see Mercury(II) Thiocyanate

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

Mercury(II) Sulfate

Mercuric Bisulphate

$HgSO_4$
M = 296.65 g/mol
CAS 7783-35-9
EINECS 231-992-5
CS 28521000
Index Nr. 080-002-00-6

Solubility Reacts violently with water and ethanol. Miscible with ether, chloroform or benzene
Solid

UN1645
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H330 H310 H300 H373 H410

132166 Mercury(II) Sulfate for analysis, ACS

for determination of COD

Specifications
Minimum assay ..... 99 %
Identity ..... passes test
Suitability: for determination of COD according to UNE 77-004-02 ..... passes test

Maximum limit of impurities
Chloride (Cl) ..... 0.003 %
Residue after reduction ..... 0.02 %
Hg (I) ..... 0.1 %
Nitrate (NO_3) ..... passes test
Cd ..... 0.001 %
Cu ..... 0.001 %
Fe ..... 0.003 %
Ni ..... 0.001 %
Pb ..... 0.001 %
Zn ..... 0.001 %

Code	Packaging
132166.1208	100 g
132166.1209	250 g
132166.1210	500 g
132166.1211	1000 g
132166.0416	25 kg

142166 Mercury(II) Sulfate pure

Specifications
Assay (Compl.) ..... 98 %
Identity ..... passes test
Insoluble matter in H_2SO_4 ..... 0.01 %
Chloride (Cl) ..... 0.005 %
Hg (I) ..... 0.2 %
Cu ..... 0.005 %
Fe ..... 0.005 %
Ni ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
142166.1208	100 g
142166.1209	250 g
142166.1211	1000 g

Mercury(II) Sulfate solution I for COD - determination

CS 38220000

Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
WGK 2
Storage RT

Danger



H301+H311+H331 H314 H373 H412

177074 Mercury(II) Sulfate solution I for COD - determination

DIN 38409 (H44)

Composition:
Mercury(II) sulfate ..... 20 g/L
Potassium dichromate ..... 0.005 mol/L
Sulfuric acid (96 %) ..... 176 g/L

Code	Packaging
177074.1611	1 L

Mercury(II) Sulfate solution II for COD - determination

CS 38220000

Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
WGK 3
Storage RT

Danger



H300+H310+H330 H314 H340 H351 H373 H411

177085 Mercury(II) Sulfate solution II for COD - determination

Composition:
Mercury(II) sulfate ..... 80 g/L
Potassium dichromate ..... 0.02 mol/L
Sulfuric acid (96 %) ..... 176 g/L

Code	Packaging
177085.1612	2.5 L

Mercury(II) Sulfocyanate see Mercury(II) Thiocyanate

Mercury(II) Sulfocyanide see Mercury(II) Thiocyanate

Mercury(II) Thiocyanate

Mercury(II) Rhodanide, Mercury(II) Sulfocyanate, Mercury(II) Sulfocyanide

$Hg(SCN)_2$
M = 316.75 g/mol
CAS 592-85-8
EINECS 209-773-0
CS 28520000
Index Nr. 080-002-00-6

Melting Point ..... 165 °C
Solubility ..... water 0.7 g/l at 25 °C
Solid

UN1646
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H330 H310 H300 H373 H410

121092 Mercury(II) Thiocyanate (Reag. USP, Ph. Eur.) for analysis

Specifications
Minimum assay (Compl.) ..... 99.0 %

Maximum limit of impurities
Residue on ignition ..... 0.05 %
Sulfate (SO_4) ..... 0.01 %

Code	Packaging
121092.1208	100 g

MES anhydrous

2-Morpholinoethanesulfonic Acid

$C_6H_{13}NO_4S$
M = 195.24 g/mol
CAS 4432-31-9
EINECS 224-632-3
CS 29349990

Melting Point ..... > 300 °C
Solid

Storage RT

A4298 MES anhydrous for molecular biology

Specification ...
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.5 %
Heavy metals (as Pb) ..... max. 0.001 %
pH (0.5 M; H_2O) ..... 2.5-4.0 (25 °C)
Water ..... max. 0.5 %
Chloride ..... max. 0.01 %
Sulfate ..... max. 0.05 %

Code	Packaging
A4298,0100	100 g
A4298,0250	250 g

A0689 MES anhydrous BioChemica

Specifications
Assay (titr.) .....min. 99.5 %
Heavy metals (as Pb) .....max. 0.001 %
pH (0.5 M; H_2O; 25 °C) 2.5-4.0
Water .....max. 0.5 %
Chloride .....max. 0.01 %
Sulfate .....max. 0.05 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.02

Code	Packaging
A0689,0100	100 g
A0689,0250	250 g
A0689,0500	500 g
A0689,1000	1 kg

MES 1-hydrate

2-Morpholinoethanesulfonic Acid, Morpholinoethanesulfonic Acid

$C_6H_{13}NO_4S \cdot H_2O$
M = 213.25 g/mol
CAS 145224-94-8
EINECS 224-632-3
CS 29349990

Solid

Storage RT

A4730 MES 1-hydrate for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) .....max. 0.001 %
Loss on drying .....max. 9.5 %
pH (1 %; H_2O) .....2.5-4.0 (25 °C)
Chloride .....max. 0.01 %
Sulfate ..... max. 0.05 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.02

Code	Packaging
A4730,0100	100 g
A4730,0250	250 g
A4730,0500	500 g
A4730,9025	25 kg

A1074 MES 1-hydrate for buffer solutions

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) .....max. 0.001 %
Loss on drying .....max. 9.5 %
pH (1 %; H_2O; 25 °C) 2.5-4.0
Chloride .....max. 0.01 %
Sulfate .....max. 0.05 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.02

Code	Packaging
A1074,0100	100 g
A1074,0250	250 g
A1074,0500	500 g
A1074,1000	1 kg

MES Sodium Salt

2-Morpholinoethanesulfonic Acid Sodium Salt

$C_6H_{12}NNaO_4S$
M = 217.20 g/mol
CAS 71119-23-8
EINECS 275-203-2
CS 29349990

Solid

WGK 1
Storage RT

A3101 MES Sodium Salt for buffer solutions

Specifications
Assay (titr.) .....min. 99 %
pH (1 %; H_2O) 8.5-9.5
Water (K.F.) ..... max. 10 %
A (1 cm/0.1 M in H_2O)
260 nm .....max. 0.05
280 nm .....max. 0.04

Code	Packaging
A3101,0250	250 g

3-Methacryloxypropyl Trimethoxysilane

3-(Trimethoxysilyl)propyl Methacrylate, Binding silane, Silane A 174, Methacrylic acid 3-trimethoxysilylpropyl Ester

$C_{10}H_{20}O_5Si$
M = 248.35 g/mol
CAS 2530-85-0
EINECS 219-785-8
CS 29310099

Melting Point ..... -48 °C
Liquid

WGK 1
Storage RT

A3797 3-Methacryloxypropyl trimethoxysilane

• May darken in storage

Specifications
Assay (G.C.) .....approx. 98 %
Identity (IR) .....passes test

Code	Packaging
A3797,0050	50 ml

Methanol

Methyl Alcohol, Carbinol

CH_3OH
M = 32.04 g/mol
CAS 67-56-1
EINECS 200-659-6
CS 29051100
Index Nr. 603-001-00-X

Melting Point ..... -98 °C
Boiling Point ..... 65 °C
Density .....0.791 kg/l (20 °C)
Refractive Index n20/D 1.328
Liquid

UN1230
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 1
Storage RT

Danger



H225 H301+H311+H331 H370

721091 Methanol for UHPLC Hypergradient

Specifications
Minimum assay (G.C.) .....99.9 %
Suitability: for PAH analysis ..... passes test

Maximum limit of impurities
APHA colour 10
Acidity .....0.0002 meq/g
Alkalinity .....0.0002 meq/g
Non-volatile matter .....0.0001 %
Base line drift (235 nm) ..... 15 mUA
Water (H_2O) ..... 0.02 %
Gradient at 220 nm ..... 5 mUA
Gradient at 235 nm ..... 2 mUA
Gradient at 254 nm ..... 1 mUA
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 205 nm (Cut off) ..... ≥ 10 %
Transmittance at 210 nm .....≥ 35 %
Transmittance at 220 nm .....≥ 60 %
Transmittance at 230 nm .....≥ 80 %
Transmittance at 260-400 nm .....≥ 98 %
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
721091.1611	1000 ml
721091.1612	2,5 l

701091 Methanol for LC-MS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Density 20/4 ..... 0.791-0.792
Suitability: for LC-MS ..... passes test

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0002 %
Base line drift (235 nm) ..... 15 mUA
Water (H_2O) ..... 0.02 %
Gradient at 235 nm ..... 2 mUA
Gradient at 254 nm ..... 1 mUA
Fluorescence at 254 nm (as quinine) ..... 1 ppb
Fluorescence at 365 nm (as quinine) .. 0.5 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 205 nm (Cut off) ..... ≥ 10 %
Transmittance at 210 nm ..... ≥ 30 %
Transmittance at 220 nm ..... ≥ 60 %
Transmittance at 230 nm ..... ≥ 80 %
Transmittance at 240 nm ..... ≥ 90 %
Transmittance at 260-400 nm ..... ≥ 98 %

Metals [in mg/Kg (ppm)]

Ag 0.05	Al 0.5
Ba 0.1	Ca 0.1
Cd 0.05	Co 0.02
Cr 0.02	Cu 0.01
Fe 0.1	K 0.1
Mg 0.1	Mn 0.01
Na 0.1	Ni 0.02
Pb 0.02	Sn 0.1
Zn 0.1	

Code	Packaging
701091.1611	1000 ml
701091.1612	2.5 l

221091 Methanol for UHPLC Supergradient, ACS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Density 20/4 ..... 0.791-0.792
Suitability: for gradient acc. to ACS ..... passes test

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.0002 %
Reducing substance to $KMnO_4$ ..... passes test
Darkened substances by H_2SO_4 ... passes test
Carbonyl compounds (as CH_3COCH_3) ..... 0.001 %
Base line drift (235 nm) ..... 15 mUA
Water (H_2O) ..... 0.03 %
Gradient at 235 nm ..... 2 mUA
Gradient at 254 nm ..... 1 mUA
Fluorescence at 254 nm (as quinine) ..... 1 ppb
Fluorescence at 365 nm (as quinine) ..... 0.5 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 205 nm (Cut off) ..... ≥ 10 %
Transmittance at 210 nm ..... ≥ 30 %
Transmittance at 220 nm ..... ≥ 60 %
Transmittance at 230 nm ..... ≥ 80 %
Transmittance at 240 nm ..... ≥ 90 %
Transmittance at 260-400 nm ..... ≥ 98 %
Data of interest in HPLC:
Rohrschneider Polarity 5.1
Eluotropic value e° (Al_2O_3) 0.95
Sol. H_2O in solv. at 20 °C ..... miscible
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
221091.1611	1000 ml
221091.1612	2.5 l
221091.1646	4 l
221091.0314	5 l
221091.0515	10 l
221091.0516	25 l
221091.0537	30 l
221091.0519	200 l
221091.0574	1000 l

361091 Methanol for UV, IR, HPLC, ACS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 0.791-0.792

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.0005 %
Reducing substance to $KMnO_4$ ..... passes test
Darkened substances by H_2SO_4 ..... passes test
Carbonyl compounds (as acetone, as formaldehyde and as acetaldehyde) ..... 0.001 %
Suitability for gradient according to ACS ..... passes test
Base line drift (235 nm) ..... 15 mUA
Water (H_2O) ..... 0.03 %
Suitability for IR spectrometry: ..... passes test
Gradient at 235 nm ..... 2 mUA
Gradient at 254 nm ..... 1 mUA
Fluorescence at 254 nm (as quinine) ..... 1 ppb
Fluorescence at 365 nm (as quinine) ..... 1 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 205 nm (Cut off) ..... ≥ 10 %
Transmittance at 210 nm ..... ≥ 30 %
Transmittance at 220 nm ..... ≥ 55 %
Transmittance at 230 nm ..... ≥ 75 %
Transmittance at 240 nm ..... ≥ 90 %
Transmittance at 260-400 nm ..... ≥ 98 %
Data of interest in HPLC:
Rohrschneider Polarity 5.1
Eluotropic value e° (Al_2O_3) 0.95
Sol. H_2O in solv. at 20 °C ..... miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361091.1611	1000 ml
361091.1612	2.5 l
361091.0314	5 l
361091.0537	30 l

261091 Methanol for HPLC preparative

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 0.791-0.792

Maximum limit of impurities
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.05 %
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 205 nm (Cut off) ..... ≥ 10 %
Transmittance at 210 nm ..... ≥ 20 %
Transmittance at 225 nm ..... ≥ 50 %
Transmittance at 240 nm ..... ≥ 90 %
Transmittance at 260-400 nm ..... ≥ 98 %
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
261091.0314	5 l

321091 Methanol for pesticide analysis

Specifications
Minimum assay (G.C.) ..... 99.9 %
Identity ..... IR passes test
Density 20/4 ..... 0.791-0.792

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.05 %
Signal ECD of pesticide (Lindane a DDT) (as Lindane) ..... 5 ng/l
Signal FID of 2-Octanol to Tetradecanol (as 2-Octanol) ..... passes test

Code	Packaging
321091.1611	1000 ml
321091.1612	2.5 l

481091 Methanol dry (max. 0.005 % water), ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 0.791-0.792

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Alkalinity ..... 0.0002 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$ (as O) ..... 0.00025 %
Darkened substances by H_2SO_4 ... passes test
Carbonyl compounds (as CH_3COCH_3) ..... 0.005 %
Acetone (G.C.) ..... 0.001 %
2-Propanol (G.C.) ..... 0.01 %
Acetaldehyde (CH_3CHO) ..... 0.001 %
Ethanol (G.C.) ..... 0.01 %
Formaldehyde (HCHO) ..... 0.001 %
Water (H_2O) ..... 0.005 %

Metals by ICP [in mg/Kg (ppm)]

Ag 0.05	Al 0.5
As 0.05	Au 0.05
B 0.02	Ba 0.1
Be 0.02	Bi 0.05
Ca 0.5	Cd 0.05
Co 0.02	Cr 0.02
Cu 0.02	Fe 0.1
Ga 0.02	Ge 0.05
Hg 0.05	In 0.05
K 0.1	Li 0.05
Mg 0.1	

Code	Packaging
481091.1611	1000 ml
481091.1612	2.5 l

131091 Methanol (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 0.791-0.792

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Alkalinity ..... 0.0002 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$ (as O) ..... 0.00025 %
Darkened substances by H_2SO_4 ... passes test
Carbonyl compounds (as CH_3COCH_3) ..... 0.005 %
Acetone (G.C.) ..... 0.001 %
2-Propanol (G.C.) ..... 0.01 %
Acetaldehyde (CH_3CHO) ..... 0.001 %
Ethanol (G.C.) ..... 0.005 %
Formaldehyde (HCHO) ..... 0.001 %
Water (H_2O) ..... 0.05 %

Metals by ICP [in mg/Kg (ppm)]

Ag 0.05	Al 0.5
As 0.05	Au 0.05
B 0.02	Ba 0.1
Be 0.02	Bi 0.05
Ca 0.1	Cd 0.05
Co 0.02	Cr 0.02
Cu 0.02	Fe 0.1
Ga 0.02	Ge 0.05
Hg 0.05	In 0.05
K 0.1	Li 0.05
Mg 0.05	

Code	Packaging
131091.1211	1000 ml
131091.1611	1000 ml
131091.1212	2.5 l
131091.1612	2.5 l
131091.1214	5 l
131091.0716	25 l
131091.0537	30 l

HebaPeaktiv

141091 Methanol (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Minimum assay (G.C.) .....99.5 %
Identity according to Pharmacopoeias: ..... passes test
Density 20/20 ..... 0.791-0.793
Refractive Index n20/D 1.328-1.330

Maximum limit of impurities
ABS λ_{max} 230 nm .....0.15 UA
ABS λ_{max} 250 nm .....0.05 UA
ABS λ_{max} 270 nm .....0.02 UA
ABS λ_{max} 290 nm .....0.01 UA
Appearance ..... passes test
Acidity (as CH_3COOH) ..... 0.003 %
Alkalinity .....0.0003 %
Insoluble matter in H_2O ..... passes test
Non-volatile matter .....0.001 %
Reducing substance to $KMnO_4$ (as O) .....0.0005 %
Darkened substances by H_2SO_4 ... passes test
Clarity and colour ..... passes test
Related substances (G.C.)
Individual impurity .....0.1 %
Total impurities .....0.3 %
Residual solvents (Ph. Eur./USP) . passes test
Disregard limit .....0.005 %
Acetone (G.C.) .....0.002 %
Acetone and aldehydes (as CH_3COCH_3) .....0.003 %
Benzene .....0.0002 %
Ethanol (G.C.) .....0.1 %
Water (H_2O) .....0.1 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm

Code	Packaging
141091.1211	1000 ml
141091.1212	2.5 l
141091.1214	5 l
141091.0716	25 l

201091 Methanol (F.C.C.) food grade

extraction solvent for food industry

Specifications
Assay (as CH_3OH), not less than ..... 99.85 %
Range of Distillation (incl. 64.6° ± 0.1 °C) .....1 °C
Specific gravity at 20 °C, no more than 0.793
Acidity (as formic acid), not more than. .....0.0015 %
Alkalinity (as NH_3), not more than ..... 3 ppm
Non-volatile residue, not more than .... 10 ppm
Reducing substances of $KMnO_4$ ... passes test
Solubility in water ..... passes test
Easily carbonizable substances .... passes test
Acetone and aldehydes, not more than .....0.003 %
Arsenic, not more than .....1 ppm
Lead, not more than .....1 ppm
Water, not more than .....0.1 %
Specifications Dir. 2009/32/CE, F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201091.9774	1000 l

161091 Methanol, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) .....99.5 %
Identity .....IR passes test
Density 20/4 ..... 0.791-0.792
Non-volatile matter ..... 0.002 %
Water (H_2O) .....0.1 %

Code	Packaging
161091.1211	1000 ml
161091.1212	2.5 l
161091.1214	5 l
161091.1714	5 l
161091.0515	10 l
161091.0616	25 l
161091.0716	25 l

211091 Methanol technical grade

Specifications
Assay (G.C.) .....99.5 %
Density 20/4 ..... 0.791-0.795
Acidity .....0.002 meq/g
Alkalinity .....0.001 meq/g
Water (H_2O) .....0.3 %

Code	Packaging
211091.1212	2.5 l
211091.1214	5 l
211091.0715	10 l
211091.0716	25 l

A3493 Methanol BioChemica

Specifications
Assay (G.C.) .....min. 99.8 %
Acidity/Alkalinity .....max. 0.0005 meq/g
Heavy metals (as Pb) ..... max. 0.0005 %
Non-volatile matter .....max. 0.001 %
2-Propanol .....max. 0.005 %
Ethanol .....max. 0.01 %
Water (K.F.) .....max. 0.05 %

Code	Packaging
A3493,1000PE	1 L
A3493,2500GL	2.5 L
A3493,2500PE	2.5 L
A3493,5000	5 L

Methenamine see Hexamethylenetetramine

L-Methionine

L-2-Amino-4-Methylmercaptobutyric Acid, L-2-Amino-4-ethylmercaptobutyric Acid

$C_5H_{11}NO_2S$
M = 149.21 g/mol
CAS 63-68-3
EINECS 200-562-9
CS 29304010
Solubility ..... 48 g/L (H_2O)
Solid
WGK nwg
Storage RT

A3897 L-Methionine Cell culture grade

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) .....min. 99 %
α20 °C/D; 2 %, 6 M HCl .....22.5-24.0°
pH (1 %; H_2O) ..... 5.6-6.1 (25 °C)
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate .....max. 0.02 %
As .....max. 0.0001 %
Fe .....max. 0.001 %
Pb .....max. 0.001 %

Code	Packaging
A3897,1000	1 kg

A1340 L-Methionine (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... 99.0-101.0 %
α20 °C/D; 2 %, 250 g/L HCl (calc. on dried subst.) .....22.5-24.0°
α25 °C/D; 2 %, 6 M HCl .....22.4-24.7°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.3 %
pH (1 %; H_2O) 5.6-6.1
pH (2.5 %; H_2O) 5.5-6.5
Sulfated ash ..... max. 0.1 %
Ninhydrin-positive substances .....max. 0.5 %
Ammonium .....max. 0.02 %
Chloride .....max. 0.02 %
Sulfate .....max. 0.03 %
Fe .....max. 0.001 %

Code	Packaging
A1340,0100	100 g
A1340,1000	1 kg

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Methotrexate

(+)-Amethopterin, 4-Amino-1-Methyl Folic Acid, 4-Amino-1-Methylpteroyl-L-Glutamic Acid

$C_{20}H_{22}N_8O_5$
M = 454.45 g/mol
CAS 133073-73-1
EINECS 200-413-8
CS 29335995

Solid

UN1544
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage 2-8 °C
Storage protected from light

Danger



H301 H315 H319 H360

A3798 Methotrexate BioChemica

Specifications
Assay
(HPLC) ... min. 98.5 % (Sum of enantiomeres)
α20 °C/D; 1 %, 14 g/L Na_2CO_3 ..... 19-24°

Code	Packaging
A3798,0010	10 mg
A3798,0025	25 mg

1-Methoxy PMS see 1-Methoxy-5-Methylphenazine Methosulfate

1-Methoxy-2-Propanol

Propyleneglycol Monomethyl Ether

$C_4H_{10}O_2$
M = 90.12 g/mol
CAS 107-98-2
EINECS 203-539-1
CS 29094400
Index Nr. 603-064-00-3

Melting Point ..... -95 °C
Boiling Point ..... 119-122 °C
Density ..... 0.924 kg/l
Solubility ..... Soluble in water.
Liquid

UN3092
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
Storage RT

Warning



H226 H336

145398 1-Methoxy-2-Propanol pure

Specifications
Assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.921-0.927
Acidity (as C_2H_5COOH) ..... 0.01 %
2-Methoxy-1-Propanol (G.C.) ..... 0.5 %
Water (H_2O) ..... 0.1 %

Code	Packaging
145398.1612	2.5 l

2,3-Bis-(2-Methoxy-4-Nitro-5-Sulfophenyl)-2H-Tetrazolium-5-Carboxanilide Sodium Salt see XTT Sodium Salt

1-Methoxy-5-Methylphenazine Methosulfate

1-Methoxy-5-Methylphenazinium Methyl Sulfate, 1-Methoxy PMS

$C_{15}H_{16}N_2O_5S$
M = 336.40 g/mol
CAS 65162-13-2
CS 29339980

Storage 2-8 °C

Warning



H302 H315 H319 H351

A3799 1-Methoxy-5-Methylphenazine Methosulfate BioChemica

Specifications
Assay ..... approx. 95 %

Code	Packaging
A3799,0050	50 mg
A3799,0250	250 mg

2-Methoxyethanol see Ethylene Glycol mono-Methyl Ether

Methyl Cellosolve see Ethylene Glycol mono-Methyl Ether

Methyl Green (C.I. 42585)

$C_{27}H_{35}BrClN_3$
M = 516.95 g/mol
CAS 14855-76-6
EINECS 238-920-1
CS 32041300

Solubility ..... water 70 g/l at 25 °C
Solubility ..... alcohol 1 g/l
Solid

WGK 3
Storage RT

191704 Methyl Green (C.I. 42585) (Ph. Fr.) pharma grade

Specifications
Assay (as Zn) calc. a.d.s. ..... 5.0-7.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Loss on drying at 105 °C ..... 10.0 %

Code	Packaging
191704.0914	5 kg

251704 Methyl Green (C.I. 42585) for clinical diagnosis

for microscopy, bacteria staining

Specifications
Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 0.86-1.11
A 1 %, 1 cm, λ_{max} ..... > 400
λ_{max} ABS in H_2O ..... 630-635 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 135 °C ..... 10 %

Code	Packaging
251704.1604	5 g
251704.1606	25 g

Methyl Iodide see Iodomethane

Methyl iso-Butyl Ketone see 4-Methyl-2-Pentanone

Methyl Isobutylketone see 4-Methyl-2-Pentanone

Methyl Orange (C.I. 13025)

Acid Orange 52, Helianthin, MO, Orange III, Tropaeolin D

$C_{14}H_{14}N_3NaO_3S$
M = 327.34 g/mol
CAS 547-58-0
EINECS 208-925-3
CS 32041200

Solubility ..... water 5.2 g/l at 20 °C
Solubility ..... alcohol 0.8 g/l
Solid

UN3143
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301

131431 Methyl Orange (C.I. 13025) for analysis, ACS

pH indicator 3,2 red; 4,4 yellow

Specifications
Identity ..... IR passes test
Range of Transition interval
according to ACS ..... passes test

T.L.C. ..... passes test

Maximum limit of impurities
pH transition interval: pink or red 3.2
pH transition interval: yellow 4.4

Insoluble matter in H_2O ..... passes test
Loss on drying at 135 °C ..... 10 %

Code	Packaging
131431.1606	25 g
131431.1607	50 g
131431.1608	100 g

Methyl Orange solution 0.1 %

Acid orange 52, Helianthin, MO, Orange III, Tropaeolin D

$C_{14}H_{14}N_3NaO_3S$
M = 327.34 g/mol
CAS 547-58-0
CS 38220000

Density ..... 0.974 kg/l
Liquid

WGK 2
Storage RT

281432 Methyl Orange solution 0.1 % for volumetric analysis

pH indicator 3,2 red; 4,4 yellow

Composition:
Methyl Orange ..... 0.1 g
Ethanol absolute ..... 20 ml
Water ..... 82.5 ml
Identity ..... passes test

Maximum limit of impurities
pH transition interval: red 3.2
pH transition interval: yellow 4.4
Sensitivity test ..... passes test

Code	Packaging
281432.1208	100 ml
281432.1209	250 ml
281432.1211	1000 ml

Methyl Orange solution 0.04 %

Acid orange 52, Helianthin, MO, Orange III, Tropaeolin D

$C_{14}H_{14}N_3NaO_3S$
M = 327.34 g/mol
CAS 547-58-0
CS 38220000

Density ..... 0.981 kg/l
Liquid

WGK 2
Storage RT

281433 Methyl Orange solution 0.04 % for volumetric analysis

pH indicator 3,2 red; 4,4 yellow

Composition:
Methyl Orange ..... 40 mg
Ethanol absolute ..... 15 ml
Water (s.q.m) ..... 100 ml

Code	Packaging
281433.1209	250 ml

Methyl Paraben see Methyl-4-Hydroxybenzoate

Methyl Red (C.I. 13020)

2-[4-(Dimethylamino)Phenylazo]Benzoic Acid, AcidRed 2

$C_{15}H_{15}N_3O_2$
M = 269.31 g/mol
CAS 493-52-7
EINECS 207-776-1
CS 29270000

Melting Point ..... 179 °C
Solubility ..... water 0.1 g/l at 20 °C
Solubility ..... alcohol 2 g/l
Solid

WGK 2
Storage RT

131617 Methyl Red (C.I. 13020) for analysis, ACS

pH indicator 4,2 red; 6,2 yellow

Specifications
Identity ..... IR passes test
A 1 %, 1 cm, $\lambda_{max\ 1}$ (calc. a.d.s.) ..... > 1500
A 1 %, 1 cm, $\lambda_{max\ 2}$ (calc. a.d.s.) ..... > 670
A 1 %, 1 cm, $\lambda_{max\ 3}$ ..... > 750
λ_{max} ABS ..... 525-528 nm

λ_{max} ABS ..... 430-434 nm
λ_{max} ABS in C_2H_5OH ..... 490-495 nm
Melting range ..... 179-182 °C
Range of Transition interval
according to ACS ..... passes test
T.L.C. ..... passes test

Maximum limit of impurities
pH transition interval: red 4.2
pH transition interval: yellow 6.2
Insoluble matter in C_2H_5OH ..... passes test
Loss on drying at 110 °C ..... 5 %
Residue on ignition (as SO_4) ..... 2 %

Code	Packaging
131617.1605	10 g
131617.1606	25 g
131617.1608	100 g

Methyl Red solution 0,1 %

2-[4-(Dimethylamino)Phenylazo]Benzoic Acid, AcidRed 2

$C_{15}H_{15}N_3O_2$
M = 269.31 g/mol
CS 38220000

Density ..... 0.870 kg/l
Solubility ..... Miscible with water
Liquid

UN1993
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
Storage RT

Danger



H225

281618 Methyl Red solution 0.1 % for volumetric analysis

pH indicator 4,2 red; 6,2 yellow

Composition:
Methyl Red ..... 1 g
Ethanol 70 % ..... 1000 ml
Identity ..... passes test

Maximum limit of impurities
pH transition interval: yellow 6.2
pH transition interval: red 4.2
Sensitivity test ..... passes test

Code	Packaging
281618.1208	100 ml

Methyl Red-Voges-Proskauer Broth see MR-VP Medium (Dehydrated Culture Media) for microbiology

HebaPeakTMB

Methyl Salicylate

$C_8H_8O_3$
M = 152.15 g/mol
CAS 119-36-8
EINECS 204-317-7
CS 29182300

Melting Point ..... -8 °C
Boiling Point ..... 224 °C
Liquid

WGK 1
Storage RT
Storage protected from light

Warning



H302

142963 Methyl Salicylate (Ph. Eur., NF) pure, pharma grade

Specifications
Assay (titr.) ..... 99.0-100.5 %
Acidic react. subst. ..... passes test
Appearance of solution ..... passes test
Density (d 20 °C/20 °C) 1.180-1.185
Heavy metals (as Pb) ..... max. 0.002 %
Identity ..... passes test
n 20 °C/D 1.535-1.538
Opt. rotation ..... inactive
Solubility in EtOH 70 % ..... passes test

Code	Packaging
142963.1212	2.5 L

Methyl Violet 2B see Methyl Violet (C.I. 42535)

Methyl Violet (C.I. 42535)

Basic Violet 1, Methyl Violet 2 B, Tetra and Pentamethylpararosaniline Chloride

CAS 8004-87-3
EINECS 210-042-3
CS 32041600

Melting Point ..... 137 °C
Solubility ..... water 50 g/l at 25 °C
Solubility ..... alcohol 60 g/l
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
Storage RT

Warning



H302

252079 Methyl Violet (C.I. 42535) for clinical diagnosis

for microscopy, diptherial bacteria staining

Specifications
Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 1.06-1.19
A 1 %, 1 cm, λ_{max} ..... > 1600
λ_{max} ABS in C_2H_5OH 50 % ..... 583-587 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 110 °C ..... 10 %

Code	Packaging
252079.1208	100 g

2-Methyl-1,4-Naphthoquinone see Menadione

2-Methyl-1-Propanol see Isobutanol

N-Methyl-2,2'-Iminodiethanol see N-Methyldiethanolamine

2-Methyl-2,4-Pentanediol

Hexylene glycol

$C_6H_{14}O_2$
M = 118.18 g/mol
CAS 107-41-5
EINECS 203-489-0
CS 29053995
Index Nr. 603-053-00-3

Melting Point ..... -50 °C
Boiling Point ..... 196 °C
Density ..... 0.920 kg/l
Refractive Index n20/D 1.427
Liquid

WGK 1
Storage RT

Warning



H319 H315

141348 2-Methyl-2,4-Pentanediol (USP-NF) pure, pharma grade

Specifications
Minimum assay (G.C.) ..... 99 %
Identity according to Pharmacopoeias: ..... passes test
Density 25/25 ..... 0.917-0.923
Refractive Index n25/D 1.424-1.430

Maximum limit of impurities
Acidity (as CH_3COOH) ..... 0.013 %
Residual solvents (Ph. Eur./USP) . passes test
Water (H_2O) ..... 0.5 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141348.0716	25 l

2-Methyl-2-Pentanol-4-One see 4-Hydroxy-4-Methyl-2-Pentanone

4-Methyl-2-Pentanone

Isobutylmethylketone, iso-Butylmethylketone, Isopropylacetone, iso-Propylacetone, Methyl Isobutylketone, Methyl iso-Butylketone, MIB

$C_6H_{12}O$
M = 100.16 g/mol
CAS 108-10-1
EINECS 203-550-1
CS 29141300
Index Nr. 606-004-00-4

Melting Point ..... -80 °C
Boiling Point ..... 118 °C
Density ..... 0.799 kg/l
Solubility ..... water 19 g/l at 20 °C
Refractive Index n20/D 1.3959
Liquid

UN1245
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H332 H319 H335 EUH066

131430 4-Methyl-2-Pentanone (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Density 20/4 ..... 0.798-0.802
Range of Distillation ..... < 4.0 °C

Maximum limit of impurities
APHA colour 15
Acidity ..... 0.002 meq/g
Non-volatile matter ..... 0.001 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Ga	0.02
As	0.05	Au	0.05	Hg	0.05
B	0.02	Ba	0.1	K	0.1
Be	0.02	Bi	0.05	Mg	0.1
Ca	0.5	Cd	0.05	Mo	0.02
Co	0.02	Cr	0.02	Ni	0.02
Cu	0.02	Fe	0.1	Pb	0.1
				S	0.2
Ge	0.05				
In	0.05				
Li	0.05				
Mn	0.02				
Na	0.5				
P	0.2				
Pt	0.02				
Sb	0.02				

Code	Packaging
131430.1611	1000 ml
131430.1612	2.5 l
131430.0716	25 l

161430 4-Methyl-2-Pentanone, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.798-0.802
Non-volatile matter ..... 0.005 %
Water (H_2O) ..... 0.1 %

Code	Packaging
161430.1211	1000 ml
161430.0716	25 l

HebaPeakTMB

2-Methyl-2-Propanol

tert-Butanol, tert-Butyl Alcohol, Trimethylcarbinol

$(CH_3)_3COH$
M = 74.12 g/mol
CAS 75-65-0
EINECS 200-889-7
CS 29051410
Index Nr. 603-005-00-1

Melting Point ..... 25.6 °C
Boiling Point ..... 82.4 °C
Density ..... 0.78 kg/l
Refractive Index n20/D 1.3846
Solid

UN1120
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H332 H319 H335

131903 2-Methyl-2-Propanol (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Range of Distillation (> 95 % dist.) ... 81-83 °C
Freezing point ..... > 25 °C

Maximum limit of impurities
APHA colour 20
Acidity ..... 0.001 meq/g
Alkalinity ..... 0.0005 meq/g
Insoluble matter in H_2O ..... passes test

Non-volatile matter ..... 0.003 %
Carbonyl compounds (as HCHO) ..... 0.01 %
1-Butanol (G.C.) ..... 0.05 %
2-Butanol (G.C.) ..... 0.2 %
Isobutanol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5
As	0.05	Au	0.1
B	0.02	Ba	0.1
Be	0.02	Bi	0.05
Ca	0.5	Cd	0.05
Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Ge	0.05	Hg	0.05
In	0.05	K	0.1
Li	0.05	Mg	0.1
Mn	0.02	Mo	0.02
Na	0.5	Ni	0.02

Code	Packaging
131903.1611	1000 ml
131903.1214	5 l
131903.0716	25 l

141903 2-Methyl-2-Propanol pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Acidity ..... 0.005 meq/g
Alkalinity ..... 0.003 meq/g

Non-volatile matter ..... 0.01 %
1-Butanol (G.C.) ..... 0.1 %
2-Butanol (G.C.) ..... 0.5 %
Isobutanol (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.3 %

Cu ..... 0.00002 %
Fe ..... 0.00002 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141903.1611	1000 ml

161903 2-Methyl-2-Propanol, 99.7 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.7 %
Identity ..... IR passes test

Non-volatile matter ..... 0.003 %
Water (H_2O) ..... 0.08 %

Code	Packaging
161903.1611	1000 ml

1-Methyl-2-Pyrrolidone

N-Methylpyrrolidone, NMP

C_5H_9NO
M = 99.13 g/mol
CAS 872-50-4
EINECS 212-828-1
CS 29337900
Index Nr. 606-021-00-7

Melting Point ..... -23 °C
Boiling Point ..... 202 °C
Density ..... 1.033 kg/l
Refractive Index n20/D 1.4684
Liquid

WGK 1
Storage away from direct light.

Danger



H360D H319 H335 H315

133080 1-Methyl-2-Pyrrolidone for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %

Maximum limit of impurities
APHA colour 50
Chloride (Cl) ..... 0.0001 %
Free amines (as CH_3NH_2) ..... 0.01 %
Water (H_2O) ..... 0.05 %

Al ..... 0.00001 %
Au ..... 0.00001 %
Cr ..... 0.00001 %
Cu ..... 0.00001 %
Fe ..... 0.00001 %
K ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.00001 %

Ni ..... 0.00001 %
Pb ..... 0.00001 %
Sb ..... 0.000005 %
Sn ..... 0.00001 %
Ti ..... 0.00001 %
Zn ..... 0.000005 %
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
133080.1611	1000 ml

143080 1-Methyl-2-Pyrrolidone (BP, Ph. Eur.) pure, pharma grade

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance ..... passes test
Alkalinity ..... passes test

Related substances ..... passes test
Residual solvents (Ph. Eur.) ..... passes test
Water (H_2O) ..... 0.05 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
Fe ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
143080.1611	1000 ml
143080.1612	2,5 l
143080.0716	25 l

163080 1-Methyl-2-Pyrrolidone, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 1.031-1.034
Water (H_2O) ..... 0.1 %

Code	Packaging
163080.1611	1000 ml
163080.1212	2,5 l
163080.1214	5 l

Methyl-4-Hydroxybenzoate

4-Hydroxybenzoic Acid Methyl Ester, Methyl Paraben, Methyl p-Hydroxybenzoate

$C_8H_8O_3$
M = 152.15 g/mol
CAS 99-76-3
EINECS 202-785-7
CS 29182900

Melting Point ..... 131 °C
Boiling Point ..... 270 °C
Solubility ..... in water at 20 °C
Solid

WGK 1
Storage RT

143332 Methyl-4-Hydroxybenzoate (USP-NF, BP, Ph. Eur., JP) pure, pharma grade

Specifications
Assay (Acidim.) ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
[illegible] %, 1 cm, 258 nm 1040-1120
[illegible] range ..... 125-128 °C
T.L.C. ..... passes test

Maximum limit of impurities
Appearance and colour
of solution ..... passes test
Acidity ..... passes test
Insoluble matter in
C_2H_5OH 96 % ..... passes test
Residue on ignition (as SO_4) ..... 0.1 %
Residual solvents (Ph. Eur./USP) . passes test

Not specified impurities ..... 0.5 %
Total impurities ..... 1.0 %
Impurity A (4-Hydroxybenzoic Acid) ..... 0.5 %
Related substances:
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
143332.1210	500 g

203332 Methyl-4-Hydroxybenzoate (E-218, F.C.C.) food grade

Specifications
Assay (as $C_8H_8O_3$) calc. on the anh. basis ..... 99.0-100.5 %
Identity ..... IR passes test
Melting range ..... 125-128 °C
Acidity ..... passes test
Loss on drying, not more than ..... 0.5 %
Residue on ignition, not more than ..... 0.05 %
Salicylic + 4-Hydroxybenzoic Acid (in $C_7H_6O_3$), not more than ..... 0.35 %
Arsenic (As), not more than ..... 3 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Heavy metals (as Pb), not more than ..10 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
203332.0914	5 kg

N-Methyl-N-(Trimethylsilyl)-2,2,2-Trifluoroacetamide

MSTFA

$CF_3CON(CH_3)Si(CH_3)_3$
M = 199.25 g/mol
CAS 24589-78-4
EINECS 246-331-6
CS 29241900

Boiling Point ..... 130-132 °C
Density ..... 1.076 kg/l
Refractive Index n20/D 1.3782-1.3802
Liquid

UN1993
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 3
Storage RT

Warning



H226 H319 H335 H315

355587 N-Methyl-N-(Trimethylsilyl)-2,2,2-Trifluoroacetamide for GC

for derivatization (G.C.)

Specifications
Minimum assay (G.C.) ..... 95 %
Identity ..... IR passes test
Product bottled under nitrogen atmosphere.

Code	Packaging
355587.1604	5 ml
355587.2522	10x10ml

Methylbenzene see Toluene

4-Methylbenzenesulfonic Acid see Toluene-4-Sulfonic Acid 1-hydrate

2-Methylbutane see Isopentane

N-Methyldiethanolamine

N-Methyl-2,2'-Iminodiethanol, N,N-Bis(2-Hydroxyethyl)-Methylamine

$C_5H_{13}NO_2$
M = 119.16 g/mol
CAS 105-59-9
EINECS 203-312-7
CS 29221920
Index Nr. 603-079-00-5

Melting Point ..... -21 °C
Boiling Point ..... 243 °C
Density ..... 1.039-1.041 kg/l (20 °C)
Liquid

WGK 1
Storage RT

Warning



H319

167054 N-Methyldiethanolamine for synthesis

Specifications
Assay (G.C.) ..... min. 98 %
n 20 °C/D 1.467-1.471
Water (K.F.) ..... max. 0.5 %

Code	Packaging
167054.1212	2.5 L

Methylene Blue (C.I. 52015)

C.I. Basic Blue 9, 3,7-Bis(Dimethylamino)Pheno-5-thiazinium Chloride, Methylthioninium Chloride

$C_{16}H_{18}ClN_3S$
M = 319.86 g/mol
CAS 61-73-4
EINECS 200-515-2
CS 32041300

Melting Point ..... 180 °C (dec.)
Solubility ..... 50 g/L (H_2O)
Solid

WGK 2
Storage RT

Warning



H302

121170 Methylene Blue (C.I. 52015) for analysis

Specifications
Assay (UV) ..... 82 %
Identity ..... IR passes test
A 1 %, 1 cm, λ_{max} (calc. a.d.s.) ..... > 2200
λ_{max} ABS in H_2O ..... 663-667 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 110 °C ..... 8-16 %

Code	Packaging
121170.1606	25 g
121170.1608	100 g

141170 Methylene Blue (C.I. 52015) (USP, BP) pure, pharma grade

Specifications
Assay (titr., dried substance) .... 96.0 -101.0 %
Chromatogr. purity ..... passes test
Identity ..... passes test
Loss on drying (105 °C) ..... 8.0-15.0 %
Loss on drying (75 °C; 5 mmHg; 4 h) ..... 8-18 %
Organic vol. impurities ..... passes test
Residue on ignition ..... max. 1.2 %
Zn (BP) ..... passes test
As ..... max. 0.0008 %
Cu or Zn (USP) ..... passes test
Fe ..... max. 0.05 %
Pb ..... max. 0.002 %

Code	Packaging
141170.1208	100 g
141170.1209	250 g

251170 Methylene Blue (C.I. 52015) for clinical diagnosis

Dye for bacteriology (Ziehl-Neelsen staining)

Specifications
Assay (UV) ..... 82 %
Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 1.21-1.70
A 1 %, 1 cm, λ_{max} (calc. a.d.s.) ..... > 2200
λ_{max} ABS in H_2O ..... 663-667 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 110 °C ..... 8-16 %

Code	Packaging
251170.1606	25 g
251170.1608	100 g
251170.1609	250 g
251170.0914	5 kg

A1402 Methylene Blue (C.I. 52015) BioChemica

Specifications
Assay (photometr.) ..... min. 85 %
λ_{max} (50 % EtOH) ..... 660-665 nm
E 1 %/1 cm, λ_{max} 2200-2750
Loss on drying ..... max. 15 %

Code	Packaging
A1402,0025	25 g
A1402,0100	100 g

Methylethylketone see 2-Butanone

Printed on FSC® certified paper from well managed forests

2-Methylfuran

Silvan

C_5H_6O
M = 82.10 g/mol
CAS 534-22-5
EINECS 208-594-5
CS 29321900

Melting Point ..... -89 °C
Boiling Point ..... 63-66 °C
Density ..... 0.913 kg/l
Solubility ..... water 3 g/l at 20 °C
Refractive Index n20/D 1.4320-1.4340
Liquid

UN2301
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H331 H311 H301

15C074 2-Methylfuran, 99 % for synthesis

Specifications
Assay ..... 99 %
Identity ..... IR passes test

Density 20/4 ..... 0.913-0.916
Peroxides (as O_2) ..... < 0.2 mol/Kg

Furfural ..... < 0.5 %
Water (H_2O) ..... < 0.1 %

Code	Packaging
15C074.0619	200 l

Methylglycol see Ethylene Glycol mono-Methyl Ether

1-Methylhexane see n-Heptane

N-Methylphenazinium Methylsulfate see Phenazine Methosulfate

2-Methylphenol see o-Cresol

N-Methylpyrrolidone see 1-Methyl-2-Pyrrolidone

5-Methylresorcino see 3,5-Dihydroxytoluene 1-hydrate

2-Methyltetrahydrofuran

2-Methyloxolane, a-Methyltetrahydrofuran, MTHF,Tetrahydro-2-Methylfuran, Tetrahydrosylvan

$C_5H_{10}O$
M = 86.13 g/mol
CAS 96-47-9
EINECS 202-507-4
CS 29321900

Melting Point ..... -136 °C
Boiling Point ..... 78-80 °C
Density ..... 0.86 kg/l
Solubility ..... water 150 g/l at 25 °C
Refractive Index n20/D 1.406
Liquid

UN2536
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H319 H335 H225 EUH019

156416 2-Methyltetrahydrofuran stabilized with ~ 300 ppm of BHT for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test

Density 20/4 ..... 0.851-0.855
Non-volatile matter ..... 0.03 %
Water (H_2O) ..... 0.03 %

Code	Packaging
156416.1611	1000 ml

4-Methylthiobutylglucosinolate Potassium Salt see Glucoerucin

Methylthioninium chloride see Methylene Blue (C.I. 52015)

4-Methylumbelliferyl-β-D-Glucuronide Trihydrate see MUG 3-hydrate

MIBK see 4-Methyl-2-Pentanone

MICROBIOLOGY - INGREDIENTS

402303 Agar, Bacteriological American Type (Ingredient) for microbiology

Solidifying agent used in bacteriological culture media

CAS 9002-18-0
EINECS 232-658-1
CS 13023100

WGK nwg
Storage RT

Specifications
pH at 1.5 % before autoclaving 6.6-7.4
pH at 1.5 % after autoclaving 6.0-7.5
Melting range 1.5 % gel ..... 80-95 °C

Range of Gelling 1.5 % ..... 32-38 °C
Gel strength at 1.5 % (Nikan's method) ... 600-850 g/cm2

Maximum limit of impurities
Loss on drying at 105 °C ..... 20 %
Residue on ignition ..... 6.5 %

Code	Packaging
402303.1210	500 g

402302 Agar, Bacteriological European Type (Ingredient) for microbiology

For microbiology use. Solidifying agent used in bacteriological culture media

CAS 9002-18-0
EINECS 232-658-1
CS 13023100

WGK nwg
Storage RT

Specifications
pH at 1.5 % before autoclaving 6.6-7.4
pH at 1.5 % after autoclaving 6.0-7.5
Melting range of 1.5 % solution ..... 80-95 °C
Range of Gelling 1.5 % ..... 32-38 °C

Gel strength at 1.5 % (Nikan's method) 800-1100 g/cm2

Maximum limit of impurities
Loss on drying at 105 °C ..... 10 %
Residue on ignition ..... 5 %

Code	Packaging
402302.1210	500 g
402302.0914	5 kg
402302.0416	25 kg

403904 Agar, Purified (Ingredient) for microbiology

Solidifying agent used in cell culture media

CAS 9002-18-0
EINECS 232-658-1
CS 13023100

WGK nwg
Storage in a cool and dry place.

Specifications
pH 6.6-7.4
Melting range 1.5 % gel ..... 80-95 °C

Gel strength at 1.5 % (Nikan's method) 700-1200 g/cm2

Maximum limit of impurities
Loss on drying at 105 °C ..... 10 %
Residue on ignition ..... 1.6 %

Code	Packaging
403904.1210	500 g

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

401792 Agar, Technical (Ingredient) for microbiology

Gelling agent for industrial and commercial use.

Agar-Agar

CAS 9002-18-0
EINECS 232-658-1
CS 13023100

WGK nwg
Storage RT

Specifications
pH at 1.5 % before autoclaving 6.8-7.6
Gel strength at 1.5 %
(Nikan's method) .....≤ 850 g/cm2

Maximum limit of impurities
Loss on drying at 105 °C .....20 %
Residue on ignition .....5 %

Code	Packaging
401792.1210	500 g
401792.0914	5 kg

403898 Casein Peptone (Ingredient) for microbiology

Nutritional ingredient for preparing media for the cultivation of a wide variety of microorganisms, including those which are difficult to grow.

CS 35040090

WGK nwg
Storage in a cool and dry place.

Specifications
pH sol. 2 % 6.5-7.5
Loss on drying at 105 °C ..... 6 %
Residue on ignition ..... 15 %
Nitrogen, total ..... ≥ 10 %

Code	Packaging
403898.1210	500 g
403898.0914	5 kg
403898.0416	25 kg

403690 Malt Extract (Ingredient) for microbiology

Nutritional ingredient for preparing media used for cultivation yeast and moulds

CS 35040090

WGK nwg
Storage in a cool and dry place.

Specifications
pH of 5 % solution 4.5-5.5

Loss on drying at 105 °C .....6 %
Residue on ignition (as SO_4) .....3.5 %

Code	Packaging
403690.1210	500 g

403692 Meat Extract (Ingredient) for microbiology

For general bacteriological work and as a nutrient base in culture medium. For the culture of a wide variety of microorganisms

CS 35040090

WGK 1
Storage in a cool and dry place.

Specifications
pH sol. 2 % 6.5-7.5
Loss on drying at 105 °C ..... 6 %

Residue on ignition .....16 %
Nitrogen, total .....≥ 10 %

Code	Packaging
403692.1210	500 g

403695 Peptone, Bacteriological (Ingredient) for microbiology

For the preparation of bacteriological culture medium

EINECS 293-428-4
CS 35040090

Storage RT

Specifications
pH sol. 2 % 6.5-7.5
Loss on drying at 105 °C ..... 6 %

Residue on ignition .....15 %
Nitrogen, total .....≥ 12 %

Code	Packaging
403695.1210	500 g

403682 Tryptone (Ingredient) for microbiology

For general bacteriological work and source of nitrogen for a wide variety of microorganisms. The tryptone is obtained by pancreatic degradation of casein. It is used as a source of nitrogen in culture media for detection of fungi and some bacteria.

CS 35040090

WGK 1
Storage in a cool and dry place.

Specifications
pH sol. 2 % 6.5-7.5
Loss on drying at 105 °C ..... 6 %
Residue on ignition ..... 15 %
Nitrogen, total ..... ≥ 10 %

Code	Packaging
403682.1210	500 g
403682.0914	5 kg
403682.0416	25 kg

403687 Yeast Extract (Ingredient) for microbiology

Nutrient base in culture media.

CS 35040090

Storage in a cool and dry place.

Specifications
pH sol. 2 % 6.0-7.2
Dry matter ..... ≥ 94 %
Nitrogen, total ..... ≥ 10 %

Code	Packaging
403687.1210	500 g
403687.0914	5 kg

MICROBIOLOGY - DEHYDRATED CULTURE MEDIA AND SUPPLEMENTS

416259 Acetamide Broth (EN ISO 16266) (Dehydrated Culture Media) for microbiology

Culture media for confirmation of *Pseudomonas aeruginosa*

CS 38210000

WGK 1
Storage in a cool and dry place.

Warning



H351

Specifications
Composition (g/l):
Potassium di-Hydrogen Phosphate 1.0

Magnesium Sulfate 0.2
Acetamide 2.0

Sodium Chloride 0.2
pH: 7.0 ± 0.5

Code	Packaging
416259.1210	500 g

413735 Antibiotic Medium n° 1 (USP) (Dehydrated CultureMedia) for microbiology

Culture medium for antibiotic assay testing and determination of the antimicrobial effectiveness of antibiotics

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Meat Extract 1.5

Yeast extract 3.0
D(+)-Glucose 1.0
Casein Peptone 4.0

Gelatin Peptone 6.0
Agar 15.0
pH: 6.6 ± 0.2

Code	Packaging
413735.1210	500 g

413744 Baird-Parker Agar Base (Dehydrated Culture Media) for microbiology

Selective culture medium for the determination and the enumeration of *Staphylococci*

Baird-Parker, Selective Agar, Medium O, Selective Agar for Staphylococci according to Baird-Parker

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Meat Extract 5.0
Yeast extract 1.0
Glycine 12.0
Lithium Chloride 5.0
Digest Pancreatic of Casein 10.0
Sodium Pyruvate 10.0
Agar ..... 20.0 g
pH: 6.8 ± 0.2

Code	Packaging
413744.1210	500 g

415523 Bile Esculin Azide Agar (ISO 7899-2:2000) (Dehydrated Culture Media) for microbiology

Culture medium for the presumptive identification of *Enterococci* according to ISO 7899-2:2

CS 38210000

WGK 1
Storage in a cool and dry place.

Warning



H302 H412

Specifications
Composition (g/l):
Ox Bile 10.0
Esculin 1.0
Sodium Azide 0.15
Yeast extract 5.0
Iron(III) Citrate 0.5
Peptone 3.0
Sodium Chloride 5.0
Tryptone 17.0
Agar 15.0
pH: 7.1 ± 0.2

Code	Packaging
415523.1210	500 g

413777 Brain Heart Infusion (BHI) (Dehydrated Culture Media) for microbiology

Culture medium for fastidious pathogen microorganisms such as *Streptococci, Pneumococci, Meningococci* and others

Brain Heart Broth

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Calf Brain Infusion 7.5
Meat Heart Infusion 10.0
Gelatin Peptone 10.0
Sodium Chloride 5.0
di-Sodium Hydrogen Phosphate 2.5
pH: 7.4 ± 0.2

Code	Packaging
413777.1210	500 g

413772 Brain Heart Infusion Agar (BHI) (Dehydrated Culture Media) for microbiology

Culture medium for fastidious microorganisms. A selective medium for fungi is obtained with the addition of Penicillin, Streptomycin

Brain Heart Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Calf Brain Infusion 7.5
Meat Heart Infusion 10.0
D(+)-Glucose 2.0
Mixture of Peptones 10.0
di-Potassium Hydrogen Phosphate 2.5
Sodium Chloride 5.0
Agar 15.0
pH: 7.4 ± 0.2

Code	Packaging
413772.1210	500 g

413823 Brilliant Green Agar (Dehydrated Culture Media) for microbiology

Culture medium for the selective isolation of *Salmonella*

BPLS Agar (USP), Brillant-Green Phenol-Red Lactose Saccharose Agar, Medium L

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Brilliant Green 0.0125
Yeast extract 3.0
Lactose 10.0
Peptones (meat and casein) 10.0
Phenol Red 0.08
Saccharose 10.0
Sodium Chloride 5.0
Agar ..... 20.0 g
pH: 6.9 ± 0.2

Code	Packaging
413823.1210	500 g

413748 Brilliant Green Bile 2 % Broth (ISO 4831, ISO 4832) (Dehydrated Culture Media) for microbiology

Culture medium for the detection and enumeration of Coliforms in a wide variety of materials

BGBL Broth, Brilliant Green Bile Broth, Brilliant Green Lactose Bile Broth

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Ox Bile, Dehydrated ..... 20.0 g
Brilliant Green 0.0133
Lactose 10.0
Gelatin Peptone 10.0
pH: 7.2 ± 0.2

Code	Packaging
413748.1210	500 g

413795 Buffered Peptone Water (ISO 6579, ISO 22964, ISO 6887, DIN 10181, 10160) (Dehydrated Culture Media) for microbiology

Diluent agent to homogenize samples in microbiological analysis of foodstuffs

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Digest Pancreatic of Casein 10.0
Potassium di-Hydrogen Phosphate 1.5
Sodium Chloride 5.0
di-Sodium Hydrogen Phosphate ..... 3.51(1)
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2
(1)is equivalent to di-Sodium Hydrogen Phosphate 12-hydrate 9

Code	Packaging
413795.1210	500 g

414944 Buffered Sodium Chloride-Peptone solution (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Diluent for the homogenization of samples in microbiological analysis

CS 35040090

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Digest Pancreatic of Casein 1.00
Potassium Dihydrogen Phosphate 3.60
Sodium Chloride 4.30
di-Sodium Hydrogen Phosphate 2-hydrate 7.20
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
414944.1210	500 g
414944.0914	5 kg

416961 Candida Chromogenic Agar (Dehydrated Culture Media) for microbiology

Differential and selective chromogenic medium for the isolation and quick identification of *Candida spp.*

CS 38210000

WGK 1
Storage between 2-8 °C

Specifications
Dextrose 20.00
Chromogenic mixture 0.40
Peptone 10.00
Bacteriological Agar 15.00
Chloramphenicol 0.50
Composition (g/l):
pH at 25 °C ..... 6.1 ± 0.2

Code	Packaging
416961.12164	505 g

416964 Cefixime Selective Enrichment (Supplement) for microbiology

Supplement for *E. Coli 0157:H7* Chromogenic Agar Base

CS 38210000

Liquid

UN3284
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Danger



H301 H319 H315

Specifications
Composition (mg/1 vial):
Potassium Tellurite 1.25
Cefixime 0.025

Code	Packaging
416964.02132	10 vials

416256 Cetrimide Agar (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Culture medium for the enumeration of *Pseudomonas aeruginosa*

Medium N

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Cetrimide 0.3
Magnesium Chloride 1.4
Pancreatic Digest of Gelatine 20.0
Potassium Sulfate 10.0
Agar 13.6
pH: 7.2 ± 0.2

Code	Packaging
416256.1210	500 g

414955 Chapman TTC (Tergitol 7) Agar (ISO 9308-1:2000) (Dehydrated Culture Media) for microbiology

Culture medium for the detection and enumerationof total and faecal Coliforms

Tergitol 7, Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Bromothymol Blue 0.05
Meat Extract 5.0
Yeast extract 6.0
Lactose ..... 20.0 g
Meat Peptone 10.0
Sodium Heptadecyl Sulfate 0.1
Agar 15.0
pH: 7.2 ± 0.2

Code	Packaging
414955.1210	500 g

416109 Chromogenic E. coli Agar (Dehydrated Culture Media) for microbiology

Selective medium for the simultaneous detection of total Coliform and *E. Coli* in water and food samples

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Composition (g/l):
Chromogenic mixture 0.36
Bacteriological Peptone 3.0
Sodium Chloride 5.0
Sodium Pyruvate 1.0
Sorbitol 1.0
Phosphate Buffer 4.9
Tergitol-7 ..... 0.1
Tryptophan 1.0
Agar 10.0
pH: 6.8 ± 0.2

Code	Packaging
416109.12135	105 g
416109.12133	525 g

416110 Chromogenic Salmonella Agar (Dehydrated Culture Media) for microbiology

Selective medium for the isolation of *Salmonella* in food and other samples

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Composition (g/l):
Chromogenic mixture 5.81
Meat Extract 5.00
Casein Peptone 5.0
Sodium Citrate 8.50
Agar 12.80
pH: 7.2 ± 0.2

Code	Packaging
416110.12134	575 g

413753 CLED Medium (Dehydrated Culture Media) for microbiology

Culture medium for the isolation, enumeration and presumptive identification of microorganisms from a wide variety of specimens

Brolacin Agar, Bromothymol-Blue-Lactose-Cystine-Agar, Cystine Lactose Electrolyte Deficient Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Bromothymol Blue 0.02
L-Cystine 0.128
Meat Extract 3.0
Lactose 10.0
Casein Peptone 4.0
Gelatin Peptone 4.0
Agar 15.0
pH: 7.3 ± 0.2

Code	Packaging
413753.1210	500 g

413759 DNase Agar (Dehydrated Culture Media) for microbiology

Culture medium for the differentiation of microorganisms, especially *Staphylococcus* species and Serratia marcescens, based on their production of deoxyribonuclease

DNase Test Agar

CS 38210000

WGK nwg
Storage in a cool and dry place.

Specifications
Composition (g/l):
Deoxyribonucleic Acid 2.0
Casein Peptone 15.0
Soy Peptone 5.0
Sodium Chloride 5.0
Agar 15.0
pH: 7.3 ± 0.2

Code	Packaging
413759.1210	500 g

HeBaPeaKTMB

416963 E. coli O157:H7 Chromogenic Agar Base (Dehydrated Culture Media) for microbiology

Selective and differential medium for detection of *E. coli 0157:H7*.

CS 38210000

WGK 1
Storage between 2-8 °C

Specifications
Mixture of Peptones 20.0
Chromogenic mixture 2.80
Bacteriological Agar 15.00
Composition (g/l):
pH at 25 °C ..... 7.2 ± 0.2

Code	Packaging
416963.1210	500 g

413761 EC Medium (Dehydrated Culture Media) for microbiology

Culture medium for the cultivation and differentiation of Coliform bacterias and of *Escherichia coli* in water, foods and other specimens

EC Broth, Escherichia coli Broth

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Tryptose .....20.0 g
Lactose 5.0
Potassium di-Hydrogen Phosphate 1.5
di-Potassium Hydrogen Phosphate 4.0
Bile Salts n° 3 .....1.9
Sodium Chloride 5.0
pH: 6.9 ± 0.2

Code	Packaging
413761.1210	500 g

414722 Egg Yolk Emulsion (Supplement) for microbiology

Additive for culture media for detection of lecitinase activity in *Bacillus, Clostridium and Staphylococcus*. It's used in other processes when lactic or psicotrofic microorganisms are present

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Code	Packaging
414722.1608	100 ml

414723 Egg Yolk Tellurite Emulsion (Supplement) for microbiology

Additive for culture media for detection of lecitinase activity in *Staphylococcus*

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Code	Packaging
414723.1607	50 ml
414723.1608	100 ml

416960 Enterobacter Sakazakii Chromogenic Agar (ISO 22964) (Dehydrated Culture Media) for microbiology

For the isolation of presumptive *Enterobacter Sakazakii* in infant milk products

CS 38210000

WGK 1
Storage between 2-8 °C

Specifications
Digest Pancreatic of Casein 7.00
Sodium Chloride 5.00
Yeast Extract 3.00
Sodium Desoxicholate 0.60
a-D-Glucopyanoside 0.15
Crystal Violet 0.002
Bacteriological Agar 15.00
Composition (g/l):
pH at 25 °C .....7.0 ± 0.2

Code	Packaging
416960.12163	520 g

413762 Eosin Methylene Blue Agar (EMB) (Dehydrated Culture Media) for microbiology

Culture medium for the isolation and differentiation of Gram-negative enteric bacteria

EMB Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Eosin Yellowish 0.4
Methylene Blue 0.065
Lactose 5.0
Bacteriological Peptone 10.0
di-Potassium Hydrogen Phosphate 2.0
Saccharose 5.0
Agar 13.5
pH: 7.2 ± 0.2

Code	Packaging
413762.1210	500 g

416114 Fraser 1/2 Listeria Selective Enrichment (Supplement) for microbiology

Additive for the preparation of Fraser Listeria Broth Base of medium concentration, used for the enrichment of *Listeria monocytogenes*

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Warning



H302 H315 H319 H335

Specifications
Composition (mg/vial):
Ammonium Iron(III) Citrate 250.0
Nalidixidate Sodium 5.0
Acryflavine 6.2

Code	Packaging
416114.02132	10 vials

416112 Fraser Listeria Broth Base (ISO 11290-1:1996) (Dehydrated Culture Media) for microbiology

Enrichment medium for detection and enumeration of *Listeria monocytogenes*

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Esculin 1.0
Yeast extract 5.0
Meat Extract 5.0
Lithium Chloride 3.0
Potassium di-Hydrogen Phosphate 1.35
Proteose Peptone 5.0
Sodium Chloride .....20.0 g
di-Sodium Phosphate 12.0
Tryptone 5.0
pH: 7.2 ± 0.2

Code	Packaging
416112.1210	500 g

HebaPeaktmb

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416113 Fraser Listeria Selective Enrichment (Supplement) for microbiology

Additive for the preparation of Fraser Listeria Broth Base, used for the enrichment of Listeria monocytogenes

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Warning



H302 H315 H319 H335

Specifications
Composition (mg/vial):
Ammonium Iron(III) Citrate 250.0
Nalidixidate Sodium 10.0
Acryflavine 12.5

Code	Packaging
416113.02132	10 vials

414956 Glucose Chloramphenicol Agar (Dehydrated CultureMedia) for microbiology

Culture medium for the count and the isolation of Fungi in different samples, particulary in milk and dairy products

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
D(+)-Glucose .....20.0 g
Chloramphenicol 0.20
Yeast extract 5.0
Agar 15.0
pH: 6.6 ± 0.2

Code	Packaging
414956.1210	500 g

413804 Glucose Sabouraud Broth (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Culture medium for sterility test, for antibiotic effectiveness test and in fungi and yeasts cultures

Antibiotic Medium 13, Fluid Sabouraud Medium, Fluid Sabouraud Medium USP, Sabouraud 2 %-Glucose Broth, Sabouraud Liquid Broth, Modifi

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
D(+)-Glucose 20.0
Mixture of Peptic Digest of Animal Tissue and Pancreatic Digest of Casein (1:1) 10
pH: 5.6 ± 0.2

Code	Packaging
413804.1210	500 g

413768 Hektoen Enteric Agar (Dehydrated Culture Media) for microbiology

Culture medium for the isolation and differentiation of *Enterobacteriaceae pathogens* in various samples. It is indicated for the differentiation of *Salmonella* and *Shigella*

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Ammonium Iron(III) Citrate 1.5
Bromothymol Blue 0.064
Yeast extract 3.0
Fuchsin Acid 0.1
Lactose 12.0
Meat Peptone 12.0
Saccharose 12.0
Bile Salts 9.0
D(-)-Salicin 2.0
Sodium Chloride 5.0
Sodium Thiosulphate 5.0
Agar 14.0
pH: 7.5 ± 0.2

Code	Packaging
413768.1210	500 g

414676 Kanamycin Esculin Azide Agar (CeNAN) (DehydratedCulture Media) for microbiology

medium for the isolation, cultivation, enumeration and confirmation of *Enterococci* from foods, water and other biological specimens

KAA Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Warning



H302 H412

Specifications
Composition (g/l):
Kanamycin Sulfate 0.02
Esculin 1.0
Sodium Azide 0.15
Ammonium Iron(III) Citrate 0.5
Yeast extract 5.0
Sodium Chloride 5.0
di-Sodium Hydrogen Citrate 1.0
Tryptone .....20.0 g
Agar 15.0
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
414676.1210	500 g

414695 Kanamycin Esculin Azide Broth (CeNAN) (Dehydrated Culture Media) for microbiology

medium for the isolation, cultivation, enumeration and confirmation of *Enterococci* from foods, water and other samples

KAA Broth

CS 38210000

WGK 1
Storage in a cool and dry place.

Warning



H302 H412

Specifications
Composition (g/l):
Kanamycin Sulfate 0.02
Esculin 1.0
Sodium Azide 0.15
Ammonium Iron(III) Citrate 0.5
Yeast extract 5.0
Sodium Chloride 5.0
di-Sodium Hydrogen Citrate 1.0
Tryptone .....20.0 g
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
414695.1210	500 g

413773 KF Streptococcus Agar (Dehydrated Culture Media) for microbiology

Culture medium for the isolation of *Enterococci* in water by direct seeding or by the membrane filter method

CS 38210000

WGK 1
Storage in a cool and dry place.

Warning



H302

Specifications
Composition (g/l):
Yeast extract 10.0
Lactose 1.0
Maltose ..... 20.0 g
Mixture of Peptones 10.0
Sodium Azide 0.4
Sodium Chloride 5.0
Sodium Glycerophosphate 10.0
Agar .....20.0 g
pH: 7.2 ± 0.2

Code	Packaging
413773.1210	500 g

НеваРеактив

413775 King B Medium (Dehydrated Culture Media) for microbiology

Medium for the differentiation and isolation of *Pseudomonas* based in the production of Fluorescein

King Agar B Base, Pseudomonas-F Medium

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Magnesium Sulfate 1.5
Polipeptone ..... 20.0 g
di-Potassium Hydrogen Phosphate 1.5
Agar 15
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
413775.1210	500 g

413769 Kligler Iron Agar (Dehydrated Culture Media) for microbiology

Medium for the differentiation and identification of Gram-negative enteric bacilli based on sugar fermentation (glucose and lactose) and Hydrogen Sulphide production

KIA, Kligler Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Ammonium Iron(III) Citrate 0.5
D(+)-Glucose 1.0
Lactose 10.0
Mixture of Peptones ..... 20.0 g
Phenol Red 0.025
Sodium Chloride 5.0
Sodium Thiosulphate 0.5
Agar 15.0
pH: 7.4 ± 0.2

Code	Packaging
413769.1210	500 g

413776 Lactosed Broth (Dehydrated Culture Media) for microbiology

Medium for the detection of Coliforms, specially *E. coli*, and other lactose-fermenters, in water, milk and food specimens

Lactose Broth, Medium D

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Lactose 5.0
Meat Extract 3.0
Gelatin Peptone 5.0
pH: 6.9 ± 0.2

Code	Packaging
413776.1210	500 g

416957 Lauryl Sulfate Chromogenic Broth (Dehydrated Culture Media) for microbiology

Enrichment medium for the simultaneous detectionof total Coliforms and *E.coli* count in water, foods and dairy products.

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

CS 38210000

Specifications
Tryptose 5.00
Sodium Chloride 5.00
di-Potassium Phosphate 2.70
mono-Potassium Phosphate 2.00
Sorbitol 1.00
Tryptophan 1.00
Chromogenic-Fluorogenic Mix 0.23
Lauryl Sodium Sulfate 0.10
pH at 25 °C ..... 6.8 ± 0.2

Code	Packaging
416957.1210	500 g

415379 Letheen Agar (modified) (Dehydrated Culture Media) for microbiology

Culture medium for the determination of the antimicrobial activity of quaternary ammonium compounds

WGK 1
Storage RT

CS 38210000

Specifications
Composition (g/l):
Meat Extract 3.0
Yeast extract 2.0
Lecithin 1.0
Casein Peptone 10.0
Meat Peptone 10.0
Dextrose 1.0
Sodium Chloride 5.0
Sodium Bisulphite 0.1
Polisorbate 80 ..... 7.0
Bacteriological Agar 15.0
pH: 7.2 ± 0.2

Code	Packaging
415379.1210	500 g

415382 Letheen Broth (modified) (Dehydrated Culture Media) for microbiology

Diluent with neutralizing agents for microbiological analysis of cosmetics

WGK 1
Storage RT

CS 38210000

Specifications
Composition (g/l):
Meat Extract 5.0
Yeast extract 2.0
Lecithin 0.70
Casein Peptone 5.0
Meat Peptone ..... 20.0 g
Dextrose 1.0
Sodium Chloride 5.0
Sodium Bisulphite 0.10
Polisorbate 80 ..... 5.0
pH: 7.2 ± 0.2

Code	Packaging
415382.1210	500 g

416893 Lipase C Selective Enrichment (Supplement) for microbiology

Additive for the preparation of *Listeria Chromogenic* Agar Base (ISO 1129:24) (Code 416891) used for the detection of *Listeria monocytogenes*.

Listeria Chromogenic Lipase C Supplement

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Formula per vial:
Lipase C Substrate ..... 1000 mg

Code	Packaging
416893.02132	10 vials

НеваРеактив

416891 Listeria Chromogenic Agar (ISO 11290-1:2004) (Dehydrated Culture Media) for microbiology

Selective Chromogenic medium for the detection and enumeration of *Listeria monocytogenes*

Agar Listeria Ottaviani & Agosti, Aloa, Agar

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Composition (g/l):
Meat Peptone 18.00
Lithium Chloride 10.00
Yeast extract 10.00
Tryptone 6.00
Sodium Chloride 5.00
di-Sodium Hydrogen Phosphate anhydrous 2.5
Dextrose 2.00
Sodium Pyruvate 2.00
Magnesium Glycerophosphate 1.00
Magnesium Sulfate 0.5
X-Glucoside 0.05
Bacteriological Agar 13.50
pH: 7.2 ± 0.2

Code	Packaging
416891.1210	500 g

416894 Listeria Selective Enrichment Chromogenic (Supplement) for microbiology

Additive for the preparation of Listeria Chromogenic Agar Base (ISO 1129:24) (Code 416891) used for the detection of *Listeria monocytogenes*.

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Formula per vial:
Polymixin B Sulfate ..... 38.350 UI
Ceftazidime ..... 10 mg
Nalidixic acid ..... 10 mg
Cycloheximide ..... 50 mg

Code	Packaging
416894.02132	10 vials

414753 Luria Broth Base (Dehydrated Culture Media) for microbiology

Recommended medium for *E.coli* studies in molecular genetics. Culture medium for the development and maintenance of *Escherichia coli*

ATCC Medium 1065, ATCC Medium 1082, LB Broth, Miller, LB Medium

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Casein Peptone 10.0
Yeast extract 5.0
Sodium Chloride 10.0
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
414753.1210	500 g

413770 Lysine Iron Agar (Dehydrated Culture Media) for microbiology

Medium for the cultivation and differentiation of *Salmonella* and *Arizona*, based on Lysine decarboxilation

LIA Medium

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Ammonium Iron(III) Citrate 0.5
L-Lysine 10.0
Yeast extract 3.0
D(+)-Glucose 1.0
Gelatin Peptone 5.0
Bromocresol Purple 0.02
Sodium Thiosulphate 0.04
Agar 13.5
pH: 6.7 ± 0.2

Code	Packaging
413770.1210	500 g

413779 MacConkey Agar (Ph. Eur., ISO 21567) (Dehydrated Culture Media) for microbiology

Culture medium for the study of Coliforms organisms

Medium H

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Lactose 10.0
Peptones (meat and casein) 3.0
Bile Salts 1.5
Gelatin Peptone 17.0
Neutral Red 0.03
Sodium Chloride 5.0
Crystal Violet 0.001
Agar 13.5
pH: 7.1 ± 0.2

Code	Packaging
413779.1210	500 g

413780 MacConkey Broth (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Culture medium for the study of Coliforms in water, milk and other materials

Medium G

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Ox Bile 5.0
Lactose 10.0
Gelatin Peptone 20.0
Bromocresol Purple 0.01
pH: 7.3 ± 0.2

Code	Packaging
413780.1210	500 g

413781 Malt Extract Agar (Dehydrated Culture Media) for microbiology

Culture medium for the isolation and enumerationof yeasts and fungi

CS 38210000

WGK nwg
Storage in a cool and dry place.

Specifications
Composition (g/l):
Malt Extract 12.75
Dextrin 2.75
Glycerol 2.35
Gelatin Peptone 0.78
Agar 15.0
pH: 4.7 ± 0.2

Code	Packaging
413781.1210	500 g

413783 Mannitol Salt Agar (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Medium for cultivation and enumeration of *Staphylococci*

Chapman Medium USP, Mannitol- salt-phenol Red Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Sodium Chloride 75.0
D(-)-Mannitol 10.0
Meat Extract 1.0
Digest Pancreatic of Casein 5.0
Peptic Digest of Animal Tissue 5.0
Phenol Red 0.025
Agar 15.0
pH: 7.4 ± 0.2

Code	Packaging
413783.1210	500 g

414680 Marine Agar (Dehydrated Culture Media) for microbiology

Medium for the cultivation, isolation and maintenance of a wide variety of heterotrophic marine bacteria

Marine Agar 2216

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Composition (g/l):
Boric Acid 0.022
Ammonium Nitrate 0.0016
Calcium Chloride 1.8
Strontium Chloride 0.034
Yeast extract 1.0
Iron Citrate 0.1
Magnesium Chloride 8.8
Peptone 5.0
Potassium Bromide 0.08
Potassium Chloride 0.55
Sodium Chloride 19.4
Sodium Fluoride 0.0024
Sodium Hydrogen Carbonate 0.16
di-Sodium Hydrogen Phosphate 0.008
Sodium Silicate 0.004
Sodium Sulfate 3.24
Agar 15.0
pH: 7.6 ± 0.2

Code	Packaging
414680.1210	500 g

414698 Marine Broth (Dehydrated Culture Media) for microbiology

Medium for the cultivation, isolation and maintenance of a wide variety of heterotrophic marine bacteria

Marine Broth 2216

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Composition (g/l):
Boric Acid 0.022
Ammonium Nitrate 0.0016
Calcium Chloride 1.8
Strontium Chloride 0.034
Yeast extract 1.0
Iron Citrate 0.1
Magnesium Chloride 8.8
Bacteriological Peptone 5.0
Potassium Bromide 0.08
Potassium Chloride 0.55
Sodium Chloride 19.4
Sodium Fluoride 0.0024
Sodium Hydrogen Carbonate 0.16
di-Sodium Hydrogen Phosphate 0.008
Sodium Silicate 0.004
Sodium Sulfate 3.24
pH: 7.6 ± 0.2

Code	Packaging
414698.1210	500 g

416265 Maximum Recovery Diluent (MRD) (ISO 6887) (Dehydrated Culture Media) for microbiology

General diluent for all type of microorganisms

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Casein Peptone 1.0
Sodium Chloride 8.5
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
416265.1210	500 g

416895 Minerals (modified) Glutamated Broth (MMGB) (ISO16649-3) (Dehydrated Culture Media) for microbiology

Broth used for the presumptive identification of coliforms in water

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Composition (g/l):
Sodium L-Glutamate 6.4
Lactose 10.00
Sodium Formate 0.25
L-Cystine 0.02
L-Aspartic Acid 0.024
L-Arginine 0.02
Thiamine 0.001
Nicotinic Acid 0.001
Pantothenic Acid 0.001
Magnesium Sulfate 7-hydrate 0.10
Ammonium Iron(III) Citrate 0.01
Calcium Chloride 2-hydrate 0.01
di-Potassium Hydrogen Phosphate 0.90
Bromocresol Purple 0.01
pH 6.7 ± 0.1

Code	Packaging
416895.1210	500 g

413786 MR-VP Medium (Dehydrated Culture Media) for microbiology

Culture medium for differentiation of bacteria, especially Enterobacteriaceae, via the Methyl Red and Voges-Proskauer reactions

Clark & Lubs Medium, Methyl Red-Voges-Proskauer Broth, MRVP Broth

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
D(+)-Glucose 5.0
Mixture of Peptones 7.0
tri-Potassium Phosphate 5.0
pH: 6.9 ± 0.2

Code	Packaging
413786.1210	500 g

413784 MRS Agar (ISO15214) (Dehydrated Culture Media) for microbiology

Medium for the isolation and cultivation of *Lactobacillus* species from a wide variety of samples

DeMan, Rogose, Sharpe Agar

CS 38210000

Storage RT

Specifications
Composition (g/l):
di-Ammonium Hydrogen Citrate 2.0
Meat Extract 8.0
Yeast extract 4.0
D(+)-Glucose ..... 20.0 g
Magnesium Sulfate 0.2
Manganese(II) Sulfate 0.05
Bacteriological Peptone 10.0
di-Potassium Hydrogen Phosphate 2.0
Sodium Acetate 5.0
Tween® 80 ..... 1.0
Agar 10.0
pH: 6.2 ± 0.2

Code	Packaging
413784.1210	500 g

413785 MRS Broth (Dehydrated Culture Media) for microbiology

Medium for the isolation and cultivation of *Lactobacillus* species from a wide variety of specimens

De Man, Rogose, Sharpe, Broth

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Composition (g/l):
di-Ammonium Hydrogen Citrate 2.0
Meat Extract 8.0
Yeast extract 4.0
D(+)-Glucose ..... 20.0 g
Magnesium Sulfate 0.2
Manganese(II) Sulfate 0.05
Bacteriological Peptone 10.0
di-Potassium Hydrogen Phosphate 2.0
Sodium Acetate 5.0
Tween® 80 ..... 1.0
pH: 6.2 ± 0.2

Code	Packaging
413785.1210	500 g

413787 Mueller-Hinton Agar (Dehydrated Culture Media) for microbiology

Medium for the development of *Gonococci* and *Meningococci*, as well as for sensitivity test for diverse antibiotics and sulphonamides

Storage in a cool and dry place.

CS 38210000

Specifications
Composition (g/l):
Starch 1.5
Meat Infusion 2.0
Casein Peptone Hydrolysate 17.5
Agar 17.0
pH: 7.4 ± 0.2

Code	Packaging
413787.1210	500 g

413788 Mueller-Hinton Broth (Dehydrated Culture Media) for microbiology

Medium for the development of *Gonococci* and *Meningococci*, as well as for sensitivity test in broth for diverse antibiotics

WGK 1
Storage in a cool and dry place.

CS 38210000

Specifications
Composition (g/l):
Starch 1.5
Meat Infusion 2.0
Casein Peptone Hydrolysate 17.5
pH: 7.4 ± 0.2

Code	Packaging
413788.1210	500 g

413792 Nutrient Agar (ISO 6579, ISO 10273, ISO 19250) (Dehydrated Culture Media) for microbiology

Medium for the cultivation of a wide variety of bacteria and for enumeration of organisms in water and other materials

WGK 1
Storage in a cool and dry place.

CS 38210000

Specifications
Composition (g/l):
Meat Extract 3.0
Gelatin Peptone 5.0
Agar 15.0
pH: 6.8 ± 0.2

Code	Packaging
413792.1210	500 g

416261 Nutrient Agar (EN ISO 16266) (Dehydrated Culture Media) for microbiology

Medium for the differential subculture of *Pseudomonas aeruginosa* according to UNE-EN 1278:22 of water

WGK 1
Storage in a cool and dry place.

CS 38210000

Specifications
Composition (g/l):
Peptone 5.0
Meat Extract 1.0
Yeast extract 2.0
Sodium Chloride 5.0
Agar 15.0
pH: 7.4 ± 0.2

Code	Packaging
416261.1210	500 g

413793 Nutrient Broth (Dehydrated Culture Media) for microbiology

Medium for the cultivation of a wide variety of non fastidious microorganisms

WGK 1
Storage in a cool and dry place.

CS 38210000

Specifications
Composition (g/l):
Meat Extract 3.0
Gelatin Peptone 5.0
pH: 6.8 ± 0.2

Code	Packaging
413793.1210	500 g

414958 OGYE Agar Base (Dehydrated Culture Media) for microbiology

medium for the isolation, enumeration and cultivation of yeasts and fungi from foods and clinical different samples.

OGA Agar (Base), OGY Agar, Oxytetracycline Glucose Yeast Agar Base

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Yeast extract 5.0
D(+)-Glucose 10.0
Agar 15.0
pH: 6.5 ± 0.2

Code	Packaging
414958.1210	500 g

416276 Orange Serum Agar (Dehydrated Culture Media) for microbiology

Culture medium for the isolation of acid tolerant microorganisms from fruit juices

WGK 1
Storage in a cool and dry place.

CS 38210000

Specifications
Composition (g/l):
Casein Peptone 10.0
Yeast extract 3.0
Orange Extract 5.0
Dextrose 4.0
Potassium di-Hydrogen Phosphate 3.0
Agar 15.0
pH: 5.5 ± 0.2

Code	Packaging
416276.1210	500 g

416444 Oxidase Sticks for microbiology

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

CS 38210000

Specifications
Composition (per strip):
Tetramethyl-p-phenylenediamine hydrochloride ..... 8 % (p/v)

Code	Packaging
416444.2326	50 strips

HEBAPEAKTMB

415380 PALCAM Listeria Agar Base (Dehydrated Culture Media) for microbiology

medium for the selective isolation, cultivation and differentiation of *Listeria monocytogenes* and other Listeria species from foods

PALCAM Listeria Selective Agar, Polymyxin Acriflavine LiCl Ceftazidime Esculin Mannitol Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Warning



H319 H315

Specifications
Composition (g/l):
Columbia Agar Base 39.0
Yeast extract 3.0
Dextrose 0.5
Esculin 0.8
Ammonium Iron(III) Citrate 0.5
Mannitol 10.0
Phenol Red 0.08
Lithium Chloride 15.0
pH: 7.2 ± 0.2

Code	Packaging
415380.1210	500 g

416116 PALCAM Listeria Selective Enrichment (Supplement) for microbiology

Additive for the preparation of PALCAM Listeria Agar Base (Code 415380) used for detection of *Listeria monocytogenes*

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Composition (mg/vial):
Polymixin B Sulfate 5.0
Ceftazidim 10.0
Acryflavine 2.5

Code	Packaging
416116.02132	10 vials

413794 Peptone Water (Dehydrated Culture Media) for microbiology

Medium for the cultivation of nonfastidious microorganisms, for the carbohydrate fermentation test and to carry out the Indole test

Tryptone Broth, Tryptone Water Broth

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Tryptone 10.0
Sodium Chloride 5.0
pH: 7.2 ± 0.2

Code	Packaging
413794.1210	500 g

414724 Potassium Tellurite solution 3.5 % (Supplement) for microbiology

Selective additive for culture medium that inhibits Gram-negative and most Gram-positive microorganisms

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Code	Packaging
414724.1608	100 ml

413758 Potato Glucose Agar (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Medium for the identification, culture and enumeration of yeast and fungi

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
D(+)-Glucose 20.0
Potatoes Infusion (200 g) 4.0
Agar 15.0
pH: 5.6 ± 0.2

Code	Packaging
413758.1210	500 g

413752 Pseudomonas CN Agar Base (EN ISO 16266) (Dehydrated Culture Media) for microbiology

Culture medium for the enumeration of *Pseudomonas aeruginosa*

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Cetrimide 0.2
Nalidixic Acid 0.015
Magnesium Chloride 1.4
Casein Peptone Hydrolysate 10.0
Gelatin Peptone 16.0
Potassium Sulfate 10.0
Agar 13.0
pH: 7.1 ± 0.2

Code	Packaging
413752.1210	500 g

416197 R2A Agar (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Medium for the enumeration of heterotrophic bacteria in water according to Ph. Eur

Medium S

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Proteose Peptone 0.5
Casein Hydrolyzed 0.5
Yeast extract 0.5
Dextrose 0.5
Starch 0.5
Sodium Pyruvate 0.3
di-Potassium Hydrogen Phosphate 0.3
Magnesium Sulfate 0.024
Agar 15.0
pH: 7.2 ± 0.2

Code	Packaging
416197.1210	500 g

414959 Rappaport-Vassiliadis (RVS) Broth (ISO 6579, ISO 19250) (Dehydrated Culture Media) for microbiology

Enrichment broth for *Salmonella*

Rappaport Soy acc. Vassiliadis Broth, Rappaport-Vassiliadis Soy Peptone Broth, RVS Broth

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Magnesium Chloride anhydrous ..... 18.73(1)
Soy Peptone 5.0
Potassium di-Hydrogen Phosphate 1.4
di-Potassium Hydrogen Phosphate 0.20
Sodium Chloride 8.00
Malachite Green 0.04
pH: 5.2 ± 0.2
(1) is equivalent to Magnesium Chloride 7-hydrate 40

Code	Packaging
414959.1210	500 g

HEBAPEAKTMB

414855 Rose Bengal Chloramphenicol Agar (Dehydrated Culture Media) for microbiology

Culture medium for the enumeration and isolationof yeast and fungi

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Rose Bengal 0.05
Chloramphenicol 0.1
D(+)-Glucose 10.0
Magnesium Sulfate 0.5
Bacteriological Peptone 5.0
Potassium di-Hydrogen Phosphate 1.0
Agar 15.0
pH: 7.2 ± 0.2

Code	Packaging
414855.1210	500 g

416272 RPF Selective Enrichment (ISO-FDIS 6888-2) (Supplement) for microbiology

Additive for the preparation of Baird-Parker Agar Base (Code 413744) used for the detection of coagulase positive *Staphylococcus*

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Composition (per vial):
Rabbit Plasma ..... 2.5 ml
Bovine Fibrinogen ..... 500 mg
Trypsin Inhibitor ..... 2.5 mg
Potassium Tellurite ..... 2.5 mg

Code	Packaging
416272.02132	10 vials

413802 Sabouraud Glucose Agar (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Medium for the cultivation and enumeration of a wide variety of fungi and yeasts

Sabouraud Agar, Sabouraud-4 %-Glucose Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
D(+)-Glucose 40.0
Mixture of Peptic Digest of Animal Tissue and Pancreatic Digest of Casein (1:1) 10
Agar 15.0
pH: 5.6 ± 0.2

Code	Packaging
413802.1210	500 g

413842 Sabouraud Glucose Agar+Chloramphenicol (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Medium for the cultivation and enumeration of a wide variety of fungi and yeasts according to Ph. Eur.

Medium C

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
D(+)-Glucose 40.0
Chloramphenicol 0.05
Mixture of Peptones 10.0
Agar 15.0
pH: 5.6 ± 0.2

Code	Packaging
413842.1210	500 g

413805 Salmonella Shigella Agar (Dehydrated Culture Media) for microbiology

Selective medium for the isolation of Shigella and Salmonella

SS Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Meat Extract 5.0
Iron(III) Citrate 1.0
Lactose 10.0
Peptones 5.0
Neutral Red 0.025
Bile Salts 8.5
tri-Sodium Citrate 8.5
Sodium Thiosulphate 8.5
Brilliant Green 0.00033
Agar 13.5
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
413805.1210	500 g

413809 Selenite Cystine Broth (Dehydrated Culture Media) for microbiology

Medium for the isolation and enrichment of *Salmonella* species from food products and other specimens

CS 38210000

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Danger



H332 H302 H373 H411

Specifications
Composition (g/l):
Sodium Hydrogen Selenite 4.00
L(-)-Cystine 0.01
Lactose 4.0
Mixture of Peptones 5.00
tri-Sodium Phosphate 10.00
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
413809.1210	500 g

413812 Slanetz Bartley Medium (ISO 7899-2:2000) (Dehydrated Culture Media) for microbiology

Culture medium for the detection and enumerationof *Enterococci* in water and foods

CS 38210000

WGK 1
Storage in a cool and dry place.

Warning



H302

Specifications
Composition (g/l):
Yeast extract 5.0
D(+)-Glucose 2.0
Sodium Azide 0.4
di-Potassium Hydrogen Phosphate 4.0
2,3,5-Triphenyl-2H-Tetrazolium Chloride ... 0.1
Tryptose ..... 20.0 g
Agar 10.0
pH: 7.2 ± 0.2

Code	Packaging
413812.1210	500 g

414125 SPS Agar (Selective Agar according to Angelotti) (Dehydrated Culture Media) for microbiology

Culture medium for the detection and enumerationof Sulphite-Reducing Clostridia in food and other materials

Perfringens Selective Agar according to Angelotti, Sulfite Polymyxin Sulfadiazine Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Sodium Sulphite 0.3
Polymixin B Sulfate 0.01
Sodium Sulfadiazine 0.12
Yeast extract 10.0
Iron(III) Citrate 0.5
Casein Peptone 15.5
Agar 13.0
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
414125.1210	500 g

413799 Standard Methods Agar (APHA) (ISO 4833:2003) (Dehydrated Culture Media) for microbiology

Culture medium for the enumeration of micro-organisms in food, water and other materials

Casein-Peptone-Glucose-Yeast extract Agar, PCA, Plate-Count-Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Yeast extract 2.5
D(+)-Glucose (Anhydrous) 1.0
Enzym Digest of Casein 5.0
Bacteriological Agar 15.0
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
413799.1210	500 g
413799.0914	5 kg

416220 TBX Agar (ISO 16649-2,3:2000) (Dehydrated Culture Media) for microbiology

Selective medium for the determination and enumeration of *E. coli* according to ISO 16649-2,3:2000 recommendations

Tryptone, Bile, X-Glucuronide Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Casein Peptone ..... 20.0 g
Bile Salts 1.5
X-b-D-Glucuronide 0.075
Agar 15.0
pH: 7.2 ± 0.2

Code	Packaging
416220.1210	500 g

413817 TCBS Cholera Medium (Dehydrated Culture Media) for microbiology

Medium for the cultivation and isolation of *Vibrio cholerae* and *Vibrio parahaemolyticus* from a variety of specimens

TCBS Agar, TCBS Selective Agar, Thiosulphate Citrate Bile Salt Saccharose Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Bromothymol Blue 0.04
Thymol Blue 0.04
Dried Bile 5.0
Yeast extract 5.0
Iron(III) Citrate 1.0
Meat Peptone 5.0
Casein Peptone 5.0
Saccharose ..... 20.0 g
tri-Sodium Citrate 10.0
Sodium Chloride 10.0
Sodium Cholate 3.0
Sodium Thiosulphate 10.0
Agar 14.0
pH: 8.6 ± 0.2

Code	Packaging
413817.1210	500 g

414961 Tetrathionate Broth Base acc. to Muller-Kauffmann (Dehydrated Culture Media) for microbiology

Broth base for the enrichment of *Salmonella* in different samples, particulary for meat and meat products

Muller-Kauffman Tetrathionate Broth

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Ox Bile 4.75
Calcium Carbonate 25.0
Meat Extract 0.9
Yeast extract 1.8
Meat Peptone 4.5
Sodium Chloride 4.5
Sodium Thiosulphate 40.7
pH: 7.6 ± 0.2

Code	Packaging
414961.1210	500 g

413912 Thioglycollate Liquid Medium (Ph. Eur. USP, ISO 7937) (Dehydrated Culture Media) for microbiology

Medium prepared according to the American Pharmacopoeia to perform sensitivity test ISO 7937 (*Clostridium perfringens*). medium for the cultivation of aerobic and anaerobic organisms in the performance of sterility tests

Sterility Test Broth, Thioglycollate Medium

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Sodium Thioglycollate 0.5
L-Cystine 0.5
Yeast extract 5.0
D(+)-Glucose 5.5
Enzym Digest of Casein 15.0
Resazurin 0.001
Sodium Chloride 2.5
Agar 0.75
pH: 7.1 ± 0.2

Code	Packaging
413912.1210	500 g

413771 Triple Sugar Iron Agar (Dehydrated Culture Media) for microbiology

Medium for the differentiation of members of the *Enterobacteriaceae* based on their fermentation of glucose, lactose and/or saccharose and the production of H_2S

Medium M, TSI Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Ammonium Iron(III) Citrate 0.3
D(+)-Glucose 1.0
Meat Extract 3.0
Yeast extract 3.0
Lactose 10.0
Saccharose 10.0
Peptone Mixture (Meat/Casein) ..... 20.0 g
Phenol Red 0.025
Sodium Chloride 5.0
Sodium Thiosulphate 0.3
Agar 12.0
pH: 7.4 ± 0.2

Code	Packaging
413771.1210	500 g

413819 Tryptone Soy Agar (TSA) (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Medium for the cultivation and maintenance of a wide variety of microorganisms

Medium B, Tryptone Soya Agar, TSA

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Papaic Digest of Soya 5.0
Pancreatic of Casein 15.0
Sodium Chloride 5.0
Agar 15.0
pH: 7.3 ± 0.2

Code	Packaging
413819.1210	500 g
413819.0914	5 kg

413820 Tryptone Soy Broth (TSB) (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Medium for the cultivation of a wide variety of microorganisms

Medium A, Soy Tryptone Broth, Soybean Casein Digest Broth, TSB

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Papaic Digest of Soya 3.0
D(+)-Glucose 2.5
Digest Pancreatic of Casein 17.0
di-Potassium Hydrogen Phosphate 2.5
Sodium Chloride 5.0
pH: 7.3 ± 0.2

Code	Packaging
413820.1210	500 g
413820.0914	5 kg

416106 Tryptone Yeast Extract Agar (ISO 6222:1999) (Dehydrated Culture Media) for microbiology

Medium for the enumeration of microorganisms in water according to ISO 6222:1999

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Yeast extract 3.0
Tryptone 6.0
Agar 15.0
pH: 7.2 ± 0.2

Code	Packaging
416106.1210	500 g

415576 TSC Agar Base (ISO 7937) (Dehydrated Culture Media) for microbiology

For the detection and enumeration of *Clostridium perfringens*

FDA M169, Tryptose-Sulphite-Cycloserine Agar

CS 38210000

WGK 1
Storage RT

Specifications
Composition (g/l):
Yeast extract 5.0
Iron(III) Citrate 1.0
Soy Peptone 5.0
Sodium Disulphite 1.0
Tryptose 15.0
Agar 15.0
pH: 7.6 ± 0.2

Code	Packaging
415576.1210	500 g

413833 TSN Agar (Dehydrated Culture Media) for microbiology

Culture medium for the isolation and enumerationof *Clostridium perfringens*

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Neomycin Sulfate 0.02
Sodium Sulphite 1.0
Yeast extract 10.0
Iron(III) Citrate 0.5
Casein Peptone 15.0
Polymixin B Sulfate 0.05
Agar 13.5
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
413833.1210	500 g

413745 Violet Red Bile Glucose Agar (VRBG) (Ph. Eur.) (ISO 21528) (Dehydrated Culture Media) for microbiology

Culture medium for the enumeration of Enterobacteriaceae

Crystal Violet-Neutral Red-Bile-Glucose Agar according to Mossel, VRBD Agar, VRBG Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Bile Salts Mixture 1.5
Crystal Violet 0.002
Neutral Red 0.03
D(+)-Glucose 10.0
Yeast extract 3.0
Pancreatic Digest of Gelatine 7.0
Sodium Chloride 5.0
Agar 15.0
pH: 7.4 ± 0.2

Code	Packaging
413745.1210	500 g

413746 Violet Red Bile Lactose Agar (VRBL) (ISO 4832) (Dehydrated Culture Media) for microbiology

Selective and differential medium for the detection and enumeration of Coliforms in milk and dairy products. Also it is used in water and foodstuffs

Violet Red Bile Agar, VRB, VRBL

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Bile Salts n° 3 ..... 1.5
Crystal Violet 0.002
Neutral Red 0.03
Lactose 10.0
Yeast extract 3.0
Gelatin Peptone 7.0
Sodium Chloride 5.0
Agar 15.0
pH: 7.4 ± 0.2

Code	Packaging
413746.1210	500 g

413791 WL Nutrient Agar (Dehydrated Culture Media) for microbiology

Culture medium for the determination of microbial flora in the brewing processes and other fermentation industries

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Calcium Chloride 0.125
Yeast extract 4.0
D(+)-Glucose 50.0
Iron(III) Chloride 0.0025
Magnesium Sulfate 0.125
Manganese(II) Sulfate 0.0025
Potassium Chloride 0.425
Potassium di-Hydrogen Phosphate 0.55
Tryptone 5.0
Bromocresol Green 0.022
Agar 15.0
pH: 5.5 ± 0.2

Code	Packaging
413791.1210	500 g

416270 XLD Agar (ISO 6579, ISO 19250, ISO 21567) (Dehydrated Culture Media) for microbiology

Culture medium for the isolation of pathogenic Enterobacteriaceae, specially *Salmonella* and *Shigella* according to ISO 6579:2002

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Ammonium Iron(III) Citrate 0.8
Yeast extract 3.0
Lactose 7.5
L-Lysine 5.0
Phenol Red 0.08
Saccharose 7.5
Sodium Chloride 5.0
Sodium Desoxicholate 1.0
Sodium Thiosulphate 6.8
D(+)-Xylose 3.75
Agar 13.5
pH: 7.4 ± 0.2

Code	Packaging
416270.1210	500 g

НеваРеактив

413826 XLD Medium (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Culture medium for the isolation of pathogenic Enterobacteriaceae, specially *Salmonella* and *Shigella*

Medium K. XLD Agar. Xylose Lysine Desoxycholate Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Ammonium Iron(III) Citrate 0.8
Yeast extract 3.0
Lactose 7.5
L-Lysine 5.0
Phenol Red 0.08
Saccharose 7.5
Sodium Chloride 5.0
Sodium Desoxicholate 2.5
Sodium Thiosulphate 6.8
D(+)-Xylose 3.5
Agar 13.5
pH: 7.4 ± 0.2

Code	Packaging
413826.1210	500 g

READY TO USE PLATES FOR WATER ANALYSIS THROUGH MEMBRANE FILTRATION

446910 CCA Coliforms, Chromogenic Agar (Prepared plate (Ø 55 mm)) for microbiology

Chromogenic Selective medium for detection of the total coliforms and *E.coli*

CS 38210000

WGK 1
Storage between +8 and +15 °C

Specifications
Composition (g/l):
Peptone 3.0
Sodium Chloride 5.0
Monosodium Phosphate 2.2
di-Sodium Phosphate 2.7
Sodium Pyruvate 1.0
L-Tryptophan 1.0
Agar 10.0
Sorbitol 1.0
2,3,5-Triphenyl-2H-Tetrazolium Chloride . 0.15
Cefsulodin 0.005
Vancomycin 0.005
Chromogenic b GLU Susbstrate 0.2
Chromogenic Salmon GAL Substrate 0.2
pH: 6.8 ± 0.2

Code	Packaging
446910.0922	20 plates

445463 m-CP Agar (Prepared Plate (Ø 55 mm)) for microbiology

Culture media for the enumeration of *C. perfringens* (spores included) from surface and drinking water

mCP Medium

CS 38210000

WGK 1
Storage RT

Specifications
Composition (g/l):
D-Cycloserine 0.4
L-Cysteine mono-Hydrochloride 1-hydrate 1.0
Yeast extract ..... 20.0 g
Phenolphthalein di-Phosphate sol. 0.5 % ..... 20.0 g
Iron(III) Chloride 6-hydrate sol. 4.5 % 2.0
3-Indoxyl-B-D-Glucopyranoside 3-hydrate. 0.06
Magnesium Sulfate 7-hydrate 0.1
Polymixin B Sulfate 0.025
Bromocresol Purple 0.04
Saccharose 5.0
Tryptose 30.0
Agar 15.0
pH: 7.6 ± 0.2

Code	Packaging
445463.0922	12 plates

443792 Nutrient Agar (ISO 6579, ISO 10273, ISO 19250) (Prepared plate (Ø 55 mm)) for microbiology

Medium for the cultivation of a wide variety of bacteria and for enumeration of organisms in water and other materials

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Meat Extract 3.0
Meat Peptone 5.0
Agar 12.0
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
443792.0922	30 plates

443752 Pseudomonas CN (EN ISO 16266) (Prepared plate (Ø 55 mm)) for microbiology

Culture medium for the enumeration of *Pseudomonas aeruginosa*

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Cetrimide 0.2
Nalidixic Acid 0.015
Glycerol 10.0
Magnesium Chloride 1.4
Casein Peptone 10.0
Gelatin Peptone 16.0
Potassium Sulfate 10.0
Agar 11.0
pH: 7.2 ± 0.2

Code	Packaging
443752.0922	30 plates

446197 R2A (Ph.Eur.) (Prepared plate (Ø 55 mm)) for microbiology

Medium for the enumeration of heterotrophic bacteria in water according to Ph. Eur

Medium S

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Proteose Peptone 0.5
Casein Peptone 0.5
Yeast extract 0.5
Dextrose 0.5
Starch soluble 0.5
Sodium Pyruvate 0.3
di-Potassium Hydrogen Phosphate 0.3
Magnesium Sulfate 0.024
Agar 15.0
pH: 7.2 ± 0.2

Code	Packaging
446197.0922	30 plates

443812 Slantz & Bartley Medium (ISO 7899-2:2000) (Prepared plate (Ø 55 mm)) for microbiology

Culture medium for the detection and enumerationof *Enterococci* in water and foods

CS 38210000

WGK 1
Storage in a cool and dry place.

Warning



H302

Specifications
Composition (g/l):
Yeast extract 5.0
D(+)-Glucose 2.0
di-Potassium Hydrogen Phosphate 4.0
Sodium Azide 0.4
2,3,5-Triphenyl-2H-Tetrazolium Chloride ... 0.1
Tryptose ..... 20.0 g
Agar 10.0
pH: 7.2 ± 0.2

Code	Packaging
443812.0922	30 plates

НеваРеактив

Printed on FSC® certified paper from well managed forests

444125 SPS Agar (Prepared plate (Ø 55 mm)) for microbiology

Culture medium for the detection and enumerationof Sulphite-Reducing Clostridia in food and other materials

Perfringens Selective Agar according to Angelotti, Sulfite Polymyxin Sulfadiazine Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications		
Composition (g/l):	Sodium Sulfadiazine 0.12	Agar 13.90
Sodium Sulphite 0.5	Yeast extract 10.0	pH: 7.0 ± 0.2 pH: 7.0 ± 0.2
Polymixin B Sulfate 0.01	Iron(III) Citrate 0.5	
	Casein Peptone 15.0	

Code	Packaging
444125.0922	30 plates

446262 TBA Agar (ISO 9038-1:2000) (Prepared plate (Ø 55 mm)) for microbiology

Culture media for the detection and enumeration of *E. coli* according to ISO 938-1:2

Tryptone Agar with bile salts

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications		
Composition (g/l):	Peptone 3.0	Agar 15.0
Tryptone 17.0	Bile Salts 1.5	pH: 7.2 ± 0.2

Code	Packaging
446262.0922	30 plates

444955 Tergitol 7 Agar (Chapman TTC modified) (ISO 9308-1:2000) (Prepared plate (Ø 55 mm)) for microbiology

Culture medium for the detection and enumerationof total and faecal Coliforms

Tergitol 7, Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications		
Composition (g/l):	Meat Extract 5.0	2,3,5-Triphenyl-2H-Tetrazolium Chloride
Bromothymol Blue 0.05	Lactose ..... 20.0 g	..... 0.025
Yeast extract 6.0	Peptone 10.0	Agar 17.0
	Sodium Heptadecyl Sulfate 0.1	pH: 7.5 ± 0.2

Code	Packaging
444955.0922	30 plates

446106 Tryptone Yeast Agar (ISO 6222:1999) (Prepared plate (Ø 55 mm)) for microbiology

Medium for the enumeration of microorganisms in water according to ISO 6222:1999

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications		
Composition (g/l):	Agar 15.0	
Yeast extract 3.0	pH: 7.2 ± 0.2	
Tryptone 6.0		

Code	Packaging
446106.0922	30 plates

445576 TSC, Agar (ISO 7937) (Prepared plate (Ø 55 mm)) for microbiology

For the detection and enumeration of *Clostridium perfringens*

FDA M169, Tryptose-Sulphite-Cycloserine Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications		
Composition (g/l):	Soy Peptone 5.0	Agar 14.0
Yeast extract 5.0	Sodium Disulphite 1.0	pH: 7.6 ± 0.2
Iron(III) Citrate 1.0	Tryptose 15.0	
	Cycloserine 0.4	

Code	Packaging
445576.0922	30 plates

READY TO USE MEDIA - CONTACT PLATES FOR HYGIENE SURFACE CONTROL

433744 Baird-Parker Agar (ISO 6888) (Contact Plate) for microbiology

Selective culture medium for the determination and the enumeration of *Staphylococci*

Baird-Parker, Selective Agar, Medium O, Selective Agar for Staphylococci according to Baird-Parker

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications		
Composition (g/l):	Yeast extract 1.0	Sodium Pyruvate 10.0
Egg Yolk Emulsion 47.0	Glycine 12.0	Tryptone 10.0
Meat Extract 5.0	Lithium Chloride 5.0	Agar 20.5
	Potassium Tellurite 0.1	pH: 6.9 ± 0.2

Code	Packaging
433744.0922	30 plates

433799 Plate Count Agar (PCA) (ISO 4833:2003) (Contact Plate) for microbiology

Culture medium for the enumeration of microorganisms in food, water and other materials

Casein-Peptone-Glucose-Yeast extract Agar, PCA, Plate-Count-Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications		
Composition (g/l):	Tryptone 5.0	
Yeast extract 2.5	Agar 20.5	
D(+)-Glucose 1.0	pH: 7.0 ± 0.2 pH: 7.0 ± 0.2	

Code	Packaging
433799.0922	30 plates

434855 Rose Bengal Chloramphenicol Agar (Contact Plate) for microbiology

Culture medium for the enumeration and isolation of yeast and fungi

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications		
Composition (g/l):	D(+)-Glucose 10.0	Agar 20.5
Rose Bengal 0.05	Magnesium Sulfate 0.5	pH: 7.0 ± 0.2 pH: 7.0 ± 0.2
Chloramphenicol 0.1	Peptone 5.0	
	Potassium di-Hydrogen Phosphate 1.0	

Code	Packaging
434855.0922	30 plates

433842 Sabouraud Glucose Agar+Chloramphenicol (Ph. Eur.) (Contact Plate) for microbiology

Medium for the cultivation and enumeration of a wide variety of fungi and yeasts according to Ph. Eur.

Medium C

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
D(+)-Glucose 40.0
Chloramphenicol 0.05
Mixture of Peptones 10.0
Agar 20.5
pH: 5.6 ± 0.2

Code	Packaging
433842.0922	30 plates

435895 Slide PCA/PCA for microbiology

Recomended culture media for the total enumeration of aerobes. The TTC enhances the colour of the bacterial growth so thatallows an easy visualization of the colonies for its count. The neutralizing agent inhibits the bactericides allowing the growth of the present microorganisms.Incubation: 24 hours at 37 °C

CS 38210000

WGK 1
Storage between 15 and 20 °C.

Specifications
Composition (g/l) (Side 1 and 2):
Tryptone 5.0
Yeast extract 2.5
D(+)-Glucose 1.0
TTC 0.1
di-Sodium Phosphate 1.0
Phosphatidylcholine 0.03
L-Histidine 0.01
Sodium Thiosulphate 0.078
Tween® 80 ..... 0.3
Agar 15.0
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
435895.0922	20 units

435896 Slide PCA/RB for microbiology

Recomended culture media for the total enumeration of aerobes by side 1 and for the enumeration of fungi and yeasts by side 2. This side contains Rose Bengal and Chloramphenicol as inhibitors of the bacterial growth.Incubation: 24 hours at 37 °C for the enumeration of aerobes. After this, incubate 24-48 hours at 25-3 °C for the enumeration of fungi and yeasts

CS 38210000

WGK 1
Storage between 15 and 20 °C.

Specifications
Composition (g/l) (Side 1):
Tryptone 5.0
Yeast extract 2.5
D(+)-Glucose 1.0
TTC 0.1
di-Sodium Phosphate 1.0
Phosphatidylcholine 0.03
L-Histidine 0.01
Sodium Thiosulphate 0.078
Tween® 80 ..... 0.3
Agar 15.0
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2
Composition (g/l) (Side 2):
Soy Peptone 5.0
D(+)-Glucose 10.0
Magnesium Sulfate 0.5
Rose Bengal 0.05
Chloramphenicol 0.1
di-Sodium Phosphate 1.0
Phosphatidylcholine 0.03
L-Histidine 0.01
Sodium Thiosulphate 0.078
Tween® 80 ..... 0.3
Agar 15.0
pH: 7.2 ± 0.2

Code	Packaging
435896.0922	20 units

435897 Slide PCA/VRBG for microbiology

Recomended culture media for the total enumeration of aerobes by one
side and enterobacterias by the other one. The side 2contains VRBG for the enterobacteria growth. Incubation: 24 hours at 37 °C

CS 38210000

WGK 1
Storage between 15 and 20 °C.

Specifications
Composition (g/l) (Side 1):
Tryptone 5.0
Yeast extract 2.5
D(+)-Glucose 1.0
TTC 0.1
di-Sodium Phosphate 1.0
Phosphatidylcholine 0.03
L-Histidine 0.01
Sodium Thiosulphate 0.078
Tween® 80 ..... 0.3
Agar 15.0
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2
Composition (g/l) (Side 2):
Yeast extract 3.0
Peptone 7.0
Bile Salts n° 3 ..... 1.5
D(+)-Glucose 10.0
Sodium Chloride 5.0
Neutral Red 0.03
Crystal Violet 0.002
di-Sodium Phosphate 1.0
Phosphatidylcholine 0.03
L-Histidine 0.01
Sodium Thiosulphate 0.078
Tween® 80 ..... 0.3
Agar 15.0
pH: 7.4 ± 0.2

Code	Packaging
435897.0922	20 units

433819 Tryptone Soy Agar (TSA) (Ph. Eur.) (Contact Plate) for microbiology

Medium for the cultivation and maintenance of a wide variety of microorganisms

Medium B, Tryptone Soya Agar, TSA

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Soy Peptone 5.0
Casein Peptone 15.0
Sodium Chloride 5.0
Agar 15.0
pH: 7.3 ± 0.2

Code	Packaging
433819.0922	30 plates

435095 TSA-Tween®-Lecithin-Agar (Ph. Eur.) (Contact Plate) for microbiology

Recomended culture media for the detection and enumeration of a wide variety of microorganisms. The presence of Lecithin and Tween® neutralizes the antimicrobial activity, thus permitting the detection of pathogens on surfaces containing : Aldehydes, phenolic derivatives or quaternary ammonium salts

Tryptone Soy Agar + Tween® + Lecithin, TSA-Polysorbate-Lecithin-Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Polisorbate 80 ..... 5.0
Lecithin 0.7
Histidine 1.0
Casein Peptone 15.0
Soy Peptone 5.0
Sodium Chloride 5.0
Sodium Thiosulphate 0.5
Agar 15.0
pH: 7.3 ± 0.2

Code	Packaging
435095.0922	30 plates

HeBaPeaKTMB

433745 Violet Red Bile Glucose Agar (VRBG) (Ph. Eur.) (Contact Plate) for microbiology

Culture medium for the enumeration of *Enterobacteriaceae*

Crystal Violet-Neutral Red-Bile-Glucose Agar according to Mossel, VRBD Agar, VRBG Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Bile Salts Mixture 1.5
Crystal Violet 0.002
Neutral Red 0.03
D(+)-Glucose 10.0
Yeast extract 3.0
Gelatin Peptone 7.0
Sodium Chloride 5.0
Agar 20.5
pH: 7.4 ± 0.2

Code	Packaging
433745.0922	30 plates

READY TO USE PLATES (Ø 90 mm)

453744 Baird-Parker Agar (ISO 6888) (Prepared plate (Ø 90 mm)) for microbiology

Selective culture medium for the determination and the enumeration of *Staphylococci*

Baird-Parker, Selective Agar, Medium O, Selective Agar for Staphylococci according to Baird-Parker

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Egg Yolk Emulsion 47.0
Meat Extract 5.0
Yeast extract 1.0
Glycine 12.0
Lithium Chloride 5.0
Potassium Tellurite 0.1
Sodium Pyruvate 10.0
Tryptone 10.0
Agar ..... 20.0 g
pH: 6.9 ± 0.2

Code	Packaging
453744.0922	20 plates

456266 BCYEx (ISO 11731:1998) (Prepared plate (Ø 90 mm)) for microbiology

Media for the cultivation and isolation of *Legionella* species from several kind of samples

Legionella Agar (BCYEx)

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
ACES 10.0
Charcoal Activated 2.0
L-Cysteine Chloride 0.4
Yeast extract 10.0
Ferric Pyrophosphate 0.25
a-Ketoglutarate 1.0
Potassium Hydroxide 2.8
Agar 15.0
pH: 6.9 ± 0.2

Code	Packaging
456266.0922	20 plates

455523 Bile Esculin Azide Agar (ISO 7899-2:2000) (Prepared plate (Ø 90 mm)) for microbiology

Culture medium for the presumptive identification of *Enterococci* according to ISO 7899-2:2002

CS 38210000

WGK 1
Storage in a cool and dry place.

Warning



H302 H412

Specifications
Composition (g/l):
Ox Bile 10.0
Esculin 1.0
Sodium Azide 0.15
Yeast extract 5.0
Iron(III) Citrate 0.5
Peptone 3.0
Sodium Chloride 5.0
Tryptone 17.0
Agar 15.0
pH: 7.1 ± 0.2

Code	Packaging
455523.0922	20 plates

456960 Enterobacter sakazakii Chromogenic Agar (ISO 22964) (prepared plate (Ø 90 mm)) for microbiology

For the isolation of presumptive *Enterobacter Sakazakii* in infant milk products

CS 38210000

WGK 1
Storage between 2-8 °C

Specifications
Digest Pancreatic of Casein 7.00
Sodium Chloride 5.00
Yeast Extract 3.00
Sodium Desoxicholate 0.60
a-D-Glucopyanoside 0.15
Crystal Violet 0.002
Bacteriological Agar 15.00
Composition (g/l):
pH at 25 °C ..... 7.0 ± 0.2

Code	Packaging
456960.0952	10 plates

455378 Legionella Selective Agar (ISO 11731:1998) (Prepared plate (Ø 90 mm)) for microbiology

Media for the cultivation and isolation of *Legionella* species from several kind of samples

Legionella Selective, Agar (BCYE), GVPC Agar

CS 38210000

WGK 1
Storage RT

Specifications
Composition (g/l):
ACES Buffer 10.0
Charcoal Activated 2.0
Cicloheximide 0.08
L-Cysteine Chloride 0.4
Yeast extract 10.0
Glycine 3.0
Ferric Pyrophosphate 0.25
a-Ketoglutarate 1.0
Polymixin B Sulfate ..... 80,000 UI
Potassium Hydroxide 2.8
Vancomycin 0.001
Agar 16.0
pH: 6.9 ± 0.2

Code	Packaging
455378.0922	20 plates

456891 Listeria Chromogenic Agar (ISO 11290-1:2004) (Prepared plate (Ø 90 mm)) for microbiology

Selective Chromogenic medium for the detection and enumeration of *Listeria monocytogenes*

Agar Listeria Ottaviani & Agosti, Aloa, Agar

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Composition (g/l):
Meat Peptone 18.00
Sodium Chloride 10.00
Yeast extract 10.00
Tryptone 6.00
Sodium Pyruvate 5.00
di-Sodium Hydrogen Phosphate anhydrous 2.5
Dextrose 2.00
Sodium Pyruvate 2.00
Magnesium Glycerophosphate 1.00
Magnesium Sulfate 0.5
X-Glucoside 0.05
Lipase C Sustrat 1.0
Cicloheximide 0.10
Ceftazimide 0.02
Nalidixic Acid 0.02
Polymixine B ..... 76700 IU
Bacteriological Agar 13.50
pH: 7.2 ± 0.2

Code	Packaging
456891.0952	10 plates

453792 Nutrient Agar (ISO 6579, ISO 10273, ISO 19250) (Prepared plate (Ø 90 mm)) for microbiology

Medium for the cultivation of a wide variety of bacteria and for enumeration of organisms in water and other materials

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Meat Extract 3.0
Meat Peptone 5.0
Agar 12.0
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
453792.0922	20 plates

453799 Plate Count Agar (ISO 1833:2003) (Prepared plate (Ø 90 mm)) for microbiology

Culture medium for the enumeration of micro-organisms in food, water and other materials

Casein-Peptone-Glucose-Yeast extract Agar, PCA, Plate-Count-Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Yeast extract 2.5
D(+)-Glucose 1.0
Casein Peptone 5.0
Agar 15.0
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
453799.0922	20 plates

454855 Rose Bengal Chloramphenicol Agar (Ph. Eur.) (Prepared plate (Ø 90 mm)) for microbiology

Culture medium for the enumeration and isolationof yeast and fungi

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Rose Bengal 0.05
Chloramphenicol 0.1
D(+)-Glucose 10.0
Magnesium Sulfate 0.5
Peptone 5.0
Potassium di-Hydrogen Phosphate 1.0
Agar 15.5
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
454855.0922	20 plates

453802 Sabouraud Glucose Agar (Ph. Eur.) (Prepared Plate (∅ 90 mm)) for microbiology

Medium for the cultivation and enumeration of a wide variety of fungi and yeasts

Sabouraud Agar, Sabouraud-4 %-Glucose Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
D(+)-Glucose 40.0
Casein Peptone 5.0
Meat Peptone 5.0
Agar 15.0
pH: 5.6 ± 0.2

Code	Packaging
453802.0922	20 plates

456213 Sabouraud Glucose Agar+Chloramphenicol (Ph.Eur.) (Irradiated) (Prepared plate (Ø 90 mm)) for microbiology

Media for the cultivation and enumeration of a wide variety of fungi and yeasts according to Ph. Eur.

Medium C

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
D(+)-Glucose 40.0
Chloramphenicol 0.05
Casein Peptone 5.0
Meat Peptone 5.0
Agar 15.0
pH: 5.6 ± 0.2

Code	Packaging
456213.0922	20 plates

453842 Sabouraud Glucose Agar+Chloramphenicol (Ph.Eur.) (Prepared plate (Ø 90 mm)) for microbiology

Medium for the cultivation and enumeration of a wide variety of fungi and yeasts according to Ph. Eur.

Medium C

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
D(+)-Glucose 40.0
Chloramphenicol 0.05
Casein Peptone 5.0
Meat Peptone 5.0
Agar 15.0
pH: 5.6 ± 0.2

Code	Packaging
453842.0922	20 plates

456110 Salmonella Chomogenic Media (Prepared plate (Ø 90 mm)) for microbiology

Selective medium for the isolation of Salmonellain food and other samples

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Composition (g/l):
Chromogenic mixture 0.28
IPTG 0.03
Casein Peptone 5.0
Meat Extract 5.0
Ferric Ammonium Citrate 0.5
Sodium Citrate 8.5
Sodium Desoxicolate 5.0
Bacteriological Agar 12.0
pH: 7.2 ± 0.2

Code	Packaging
456110.0952	10 plates

456220 TBX Agar (ISO 16649-2,3:2000) (Prepared plate (Ø 90 mm)) for microbiology

Selective medium for the determination and enumeration of *E. coli* according to ISO 16649-2,3:2000 recommendations

Tryptone, Bile, X-Glucuronide Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Casein Peptone ..... 20.0 g
X-b-D-Glucuronide 0.075
Bile Salts 1.5
Bacteriological Agar 15.0
pH: 7.2 ± 0.2

Code	Packaging
456220.0952	10 plates

НеВаРеактив

453819 Tryptone Soy Agar (TSA) (Ph. Eur.) (Prepared Plate (∅ 90 mm)) for microbiology

Medium for the cultivation and maintenance of a wide variety of microorganisms

Medium B, Tryptone Soya Agar, TSA

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Soy Peptone 5.0
Casein Peptone 15.0
Sodium Chloride 5.0
Agar 15.0
pH: 7.3 ± 0.2

Code	Packaging
453819.0922	20 plates

455095 TSA-Tween®-Lecithin-Agar (Ph. Eur.) (Prepared plate (Ø 90 mm)) for microbiology

Recomended culture media for the detection and enumeration of a wide variety of microorganisms. The presence of Lecithin and Tween® neutralizes the antimicrobial activity, thus permitting the detection of pathogens on surfaces containing : Aldehydes, phenolic derivatives or quaternary ammonium salts

Tryptone Soy Agar + Tween® + Lecithin, TSA-Polysorbate-Lecithin-Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Polisorbate 80 ..... 5.0
Lecithin 0.7
Histidine 1.0
Casein Peptone 15.0
Soy Peptone 5.0
Sodium Chloride 5.0
Sodium Thiosulphate 0.5
Agar 15.0
pH: 7.3 ± 0.2

Code	Packaging
455095.0922	20 plates

453745 Violet Red Bile Glucose Agar (VRBG) (Ph. Eur.) (Prepared Plate (∅ 90 mm)) for microbiology

Culture medium for the enumeration of *Enterobacteriaceae*

Crystal Violet-Neutral Red-Bile-Glucose Agar according to Mossel, VRBD Agar, VRBG Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Bile Salts Mixture 1.5
Crystal Violet 0.002
Neutral Red 0.03
D(+)-Glucose 10.0
Yeast extract 3.0
Gelatin Peptone 7.0
Sodium Chloride 5.0
Agar 13.0
pH: 7.4 ± 0.2

Code	Packaging
453745.0922	20 plates

456270 XLD, Agar (ISO 6579, ISO 19250, ISO 21567) (Prepared Plate (∅ 90mm)) for microbiology

Culture medium for the isolation of pathogenic Enterobacteriaceae, specially *Salmonella* and *Shigella* according to ISO 6579

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Ammonium Iron(III) Citrate 0.8
Yeast extract 3.0
Lactose 7.5
L-Lysine 5.0
Phenol Red 0.08
Saccharose 7.5
Sodium Chloride 5.0
Sodium Desoxicholate 1.0
Sodium Thiosulphate 6.8
D(+)-Xylose 3.75
Agar 15.0
pH: 7.4 ± 0.2

Code	Packaging
456270.0922	20 plates

READY TO USE TUBES

465382 Letheen Broth (modified) (Prepared Tubes) for microbiology

Diluent with neutralizing agents for microbiological analysis of cosmetics

CS 38210000

WGK 1
Storage RT

Specifications
Composition (g/l):
Meat Extract 5.0
Yeast extract 2.0
Lecithin 0.7
Casein Peptone 15.0
Meat Peptone 10.0
Sodium Chloride 10.0
Sodium Bisulphite 0.1
Tween® 5.0
pH: 7.2 ± 0.2

Code	Packaging
465382.0922	20 tubes

463794 Peptone Water (Prepared Tubes) for microbiology

Medium for the cultivation of nonfastidious microorganisms, for the carbohydrate fermentation test and to carry out the Indole test

Tryptone Broth, Tryptone Water Broth

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Casein Peptone 10.0
Sodium Chloride 5.0
pH: 7.2 ± 0.2

Code	Packaging
463794.0922	20 tubes

463809 Selenite Cystine Broth (Prepared Tubes) for microbiology

Medium for the isolation and enrichment of *Salmonella* species from food products and other specimens

CS 38210000

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Danger



H332 H302 H373 H411

Specifications
Composition (g/l):
Sodium Hydrogen Selenite 4.00
L(-)-Cystine 0.01
Lactose 4.00
tri-Sodium Phosphate 10.00
Tryptone 5.00
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
463809.0922	20 tubes

464125 SPS Agar (Prepared Tubes) for microbiology

Culture medium for the detection and enumerationof *Sulfite-Reducing Clostridia* in food and other materials

Perfringens Selective Agar according to Angelotti, Sulfite Polymyxin Sulfadiazine Agar

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Sodium Sulphite 0.5
Polymixin B Sulfate 0.01
Sodium Sulfadiazine 0.12
Yeast extract 10.0
Iron(III) Citrate 0.5
Casein Peptone 15.0
Agar 13.90
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
464125.0922	20 tubes

466106 Tryptone Yeast Extract Agar (ISO 6222:1999) (Prepared Tubes) for microbiology

Medium for the enumeration of microorganisms in water according to ISO 6222:1999

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Yeast extract 3.0
Tryptone 6.0
Agar 15.0
pH: 7.2 ± 0.2

Code	Packaging
466106.0922	20 tubes

READY TO USE BOTTLES

493795 Buffered Peptone Water (ISO 6579, ISO 22964, ISO 6887, DIN 10181, 10160) (PreparedBottles) for microbiology

Diluent agent to homogenize samples in microbiological analysis of foodstuffs

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Casein Peptone 10.0
Sodium Chloride 5.0
di-Sodium Phosphate 12-hydrate 9.0
mono-Potassium Phosphate 1.5
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
493795.0981	3 x 3 l

494944 Buffered Sodium Chloride-Peptone solution (Ph. Eur.) (Prepared Bottles) for microbiology

Diluent for the homogenization of samples in microbiological analysis, recommended for British Pharmacopoeia and European Pharmacopeia

CS 35040090

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Casein Peptone 1.00
Potassium di-Hydrogen Phosphate 3.56
Sodium Chloride 4.30
di-Sodium Hydrogen Phosphate 7.23
pH: 7.0 ± 0.2 pH: 7.0 ± 0.2

Code	Packaging
494944.0922	10 x 90 ml

496269 Fraser 1/2 Listeria Broth (ISO 11290-1:1996) (Prepared Bottles) for microbiology

Culture media for primary enrichment of *Listeriamonocytogenes*

Fraser C/2 Broth

CS 38210000

WGK 1
Storage between 2-8 °C, in a dry place, away from direct light.

Specifications
Composition (g/l):
Esculin 1.0
Yeast extract 5.0
Lithium Chloride 3.0
Potassium di-Hydrogen Phosphate 1.35
Meat Peptone 5.0
Sodium Chloride ..... 20.0 g
di-Sodium Phosphate 12.0
Tryptone 5.0
Meat Extract 5.0
Ammonium Iron(III) Citrate 0.5
Nalidixic Acid 0.01
Acryflavine 0.012
pH: 7.2 ± 0.2

Code	Packaging
496269.0979	10 x 225 ml

495425 Peptone Water with neutralizing agents (Ph. Eur.) (Prepared Bottles) for microbiology

Neutralising solution recomended for the dilution of samples with antimicrobial agents

Peptone Water 0,1 % with neutralizing agents

CS 38210000

WGK 1
Storage RT

Specifications
Composition (g/l):
Casein Peptone 1.00
Lecithin (egg) 0.7
Histidine 1.0
Potassium di-Hydrogen Phosphate 3.56
Sodium Chloride 4.30
di-Sodium Hydrogen Phosphate 7.23
Sodium Thiosulphate 0.5
Tween® 80 ..... 5.0
pH: 7.2 ± 0.2

Code	Packaging
495425.0932	1 x 450 ml

496106 Tryptone Yeast Extract Agar (ISO 6222:1999) (Prepared Bottles) for microbiology

Medium for the enumeration of microorganisms in water according to ISO 6222:1999

CS 38210000

WGK 1
Storage in a cool and dry place.

Specifications
Composition (g/l):
Yeast extract 3.0
Tryptone 6.0
Agar 15.0
pH: 7.2 ± 0.2

Code	Packaging
496106.0922	10 x 100 ml

495576 TSC Agar Base (ISO 7937) (Prepared Bottles) for microbiology

For the detection and enumeration of *Clostridiumperfringens*

FDA M169, Tryptose-Sulphite-Cycloserine Agar

CS 38210000

WGK 1
Storage RT

Specifications
Composition (g/l):
Yeast extract 5.0
Iron(III) Citrate 1.0
Soy Peptone 5.0
Sodium Disulphite 1.0
Tryptose 15.0
Agar 14.0
pH: 7.6 ± 0.2

Code	Packaging
495576.0922	10 x 100 ml

MICROBIOLOGY - ACCESSORIES

AFW-045MC Analytical Funnel, sterilized, individually packed, 47 mm, 0.45 microns

Code	Packaging
AFW-045MC	50 units

ANJARRMC 2.5 L Anaerobiosis Jar

Code	Packaging
ANJARRMC	1 piece

FMW-045MC Microbiological Monitor, sterilized, individually packed, 47 mm, 0.45 microns

Code	Packaging
FMW-045MC	50 units

NC-04548MC Box of 100 Nitorcellulose membranes, 48.3 mm, 0.45 microns, sterile

Code	Packaging
NC-04548MC	100 filters

Milk powder see Nonfat dried milk powder

Mineral Oil see Light liquid Paraffin d(20/4)= 0,845

Minocycline see Myco-2

Mithramycin A

$C_{52}H_{76}O_{24}$
M = 1085.17 g/mol
CAS 18378-89-7
CS 29419000

Melting Point ..... approx. 183 °C
Solid

Storage 2-8 °C
Storage protected from light

Warning



H302

A2189 Mithramycin A

Specifications
Assay (HPLC) ..... min. 85 %

Code	Packaging
A2189,0005	5 mg

Mitomycin C

$C_{15}H_{18}N_4O_5$
M = 334.33 g/mol
CAS 50-07-7
EINECS 200-008-6
CS 29419000

Solid

UN2811
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage 2-8 °C
Storage protected from light

Danger



H302 H351

A2190 Mitomycin C

Specifications
Assay (HPLC) ..... min. 98 %
Water (K.F.) ..... max. 3 %
supplied as mixture of 2 mg with 48 mg NaCl

Code	Packaging
A2190,0002	2 mg

Mix of dNTPs (dATP, dCTP, dGTP, dTTP) see Deoxyribonucleotide - Mix (4 x 10 mM)

Mixed-bed resin MBH 100 (AppliQUA™)

AppliQUA™ MBH

CS 39140000

Storage RT

Warning



H319

177061 Mixed-bed resin MBH 100 (AppliQUA™)

Specifications
Bulk density ..... ~ 750 g/L
Ionic form as supplied ..... H^+ / OH^-
Matrix ..... Sulfonic acid / quarternary amine
Mixing proportion ..... 1 : 1 (Vol.)
Particle form ..... pellets
Range of particle size ..... 0.3-1.2 mm
Thermal stability ..... max. 70 °C
Total exchange capacity anionic min. 1.0 eq/L
Total exchange capacity cationic min. 1.7 eq/L

Code	Packaging
177061.0416	25 L

HeBaPeaKTMB

Mixture Cyclohexane/Ethyl Acetate 1:1 v/v

CS 38220000

Density .....0.832 kg/l
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H319 H315 H410 H304 EUH066 H336

326165 Mixture Cyclohexane/Ethyl Acetate 1:1 v/v for pesticide analysis

Maximum limit of impurities
APHA colour 10
Acidity .....0.0008 meq/g
Non-volatile matter ..... 0.0005 %
Water (H_2O) .....0.02 %
Signal ECD of pesticide (Lindane a DDT)
(as Lindane) .....5 ng/l

Code	Packaging
326165.1612	2.5 l
326165.1646	4 l
326165.0515	10 l
326165.0516	25 l
326165.0537	30 l

Mixture Methanol/2-Propanol 4:1

CS 38220000

Density .....0.789 kg/l
Liquid

UN1992
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
Storage RT

Danger



H225 H331 H311 H301 H370

176400 Mixture Methanol/2-Propanol 4:1

Composition:
Methanol .....800 ml
2-Propanol .....200 ml

Code	Packaging
176400.1214	5 l

Mixture of Gramicidin A, B, C and D see Gramicidin

Mixture TAN

CS 38220000

Density .....0.822 kg/l
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225 H332 H319 H335

124860 Mixture TAN for analysis

Maximum limit of impurities.
Acidity value 0.005
Composition according to
ASTM D 664-07 ..... passes test

Code	Packaging
124860.1612	2.5 l
124860.2714	5 l
124860.0516	25 l

Mohr's Salt see Ammonium Iron(II) Sulfate 6-hydrate

Molecular sieves

Zeolithe, Metal-Aluminosilicate

CAS 308080-99-1
CS 38249015

Solid

WGK 1
Storage RT

175349 Molecular sieve 3Å (0.3 nm)

Beads, reclaimable

• Mechanical abrasion leads to powdery dust

Specifications
Water absorbency min. 20 % (24 h, 80 % humidity)

Code	Packaging
175349.1611	1 kg

175350 Molecular sieve 4Å (0.4 nm)

Beads, reclaimable

• Mechanical abrasion leads to powdery dust

Specifications
Water absorbency min. 20 % (24 h, 80 % humidity)

Code	Packaging
175350.1611	1 kg

Molybdic Acid (contains ammonium molybdate)

MoO_4H_2+$Mo_7O_{24}(NH_4)_6$
CAS 7782-91-4
EINECS 231-970-5
CS 28257000

Melting Point ..... 300 °C
Solubility ..... water 70 g/l at 20 °C
Solid

WGK 1
Storage RT

131035 Molybdic Acid (contains ammonium molybdate) for analysis, ACS

Specifications
Minimum assay (as MoO_3) .....85.0 %

Maximum limit of impurities
Insoluble matter in NH_4OH .....0.01 %
Chloride (Cl) .....0.002 %
Phosphate (PO_4) .....0.0005 %
Sulfate (SO_4) .....0.2 %
Arsenate, phosphate and silicate
(as SiO_2) .....0.001 %
Heavy metals (as Pb) .....0.003 %
Cu .....0.001 %
Fe .....0.0005 %
Ni .....0.001 %
Pb .....0.001 %

Code	Packaging
131035.1214	5 kg

Molybdophosphoric Acid see Phosphomolybdic Acid x-hydrate

Monardin see Pelargonidin-3,5-Diglucoside Chloride

Monochlorobenzene see Chlorobenzene

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

Monochlorobenzene see Chlorobenzene

MOPS

3-Morpholinopropanesulfonic Acid

$C_7H_{15}NO_4S$
M = 209.27 g/mol
CAS 1132-61-2
EINECS 214-478-5
CS 29349990

Melting Point ..... > 250 °C
Solid

WGK 1
Storage RT

Warning



H315 H319 H335

A2947 MOPS for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.5 %
pH (0.1 M; H_2O) 3.5-4.5
Fe ..... max. 0.0001 %
Pb ..... max. 0.001 %

A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.05

Code	Packaging
A2947,0100	100 g
A2947,0250	250 g
A2947,0500	500 g
A2947,1000	1 kg

A1076 MOPS for buffer solutions

Specifications
Assay (titr.) ..... min. 99.5 %
pH (0.1 M; H_2O) 3.5-4.5
Fe ..... max. 0.0001 %
Pb ..... max. 0.001 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.05

Code	Packaging
A1076,0100	100 g
A1076,0250	250 g
A1076,0500	500 g
A1076,1000	1 kg
A1076,5000	5 kg
A1076,9025	25 kg

MOPS Hemisodium Salt

3-Morpholinopropanesulfonic Acid

$C_{14}H_{29}N_2NaO_8S_2$
M = 440.40 g/mol
CAS 117961-20-3
CS 29349990

Solid

Storage RT

A4517 MOPS Hemisodium Salt for buffer solutions

Specifications
Assay (titr.) ..... min. 98 %
Appearance ..... white powder
Heavy metals (as Pb) ..... max. 0.001 %
Water (K.F.) ..... max. 2 %
A (1 cm/0.1 M in water)
260 nm ..... max. 0.05
280 nm ..... max. 0.05

Code	Packaging
A4517,9025	25 kg

MOPS Sodium Salt

3-Morpholinopropanesulfonic Acid

$C_7H_{14}NNaO_4S$
M = 231.25 g/mol
CAS 71119-22-7
CS 29349990

Melting Point ..... > 300 °C
Solid

Storage RT

A1077 MOPS Sodium Salt for buffer solutions

Specifications
Assay (titr.) ..... min. 99 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.001 %

A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.05

Code	Packaging
A1077,0250	250 g
A1077,1000	1 kg

MOPSO

3-Morpholino-2-Hydroxy-Propanesulfonic Acid

$C_7H_{15}NO_5S$
M = 225.27 g/mol
CAS 68399-77-9
EINECS 269-989-6
CS 29349990

Melting Point ..... 275-280 °C (dec.)
Solid

Storage RT

Warning



H315 H319 H335

A1078 MOPSO for buffer solutions

Specifications
Assay (titr.) ..... min. 99 %
Solubility (0.5 M; H_2O; 20 °C) ..... clear
Sulfated ash ..... max. 0.2 %
Chloride ..... max. 0.05 %
Sulfate ..... max. 0.005 %
Fe ..... max. 0.001 %
Mg ..... max. 0.0005 %
Pb ..... max. 0.0001 %

Code	Packaging
A1078,0100	100 g

Mordant Red 3 see Alizarin Red S (C.I. 58005)

Morindin

Origin from *Morinda citrifolia*

$C_{26}H_{28}O_{14}$
M = 564.50 g/mol
CAS 60450-21-7
CS 29420000

Storage 2-8 °C

Warning



H315 H319 H335

A9644 Morindin for HPLC

Specifications
Assay ..... min. 95 %

Code	Packaging
A9644,0010	10 mg

НевАреактив

НеВаРеактив

3-Morpholino-2-Hydroxy-Propanesulfonic Acid see MOPSO

Morpholinoethanesulfonic Acid see MES 1-hydrate

2-Morpholinoethanesulfonic Acid see MES anhydrous

2-Morpholinoethanesulfonic Acid Sodium Salt see MES Sodium Salt

Mounting Medium for substitutes of xylene

CS 38220000

Density .....0.820 kg/l
Liquid

WGK 1
Storage RT

255811 Mounting Medium for substitutes of xylene for clinical diagnosis

for microscopy

Specifications
Density 25 °C 0.815-0.825

Code	Packaging
255811.0008	100 ml

Mowiol® 4-88

water-soluble Mounting medium

M = approx. 31000 g/mol
CAS 9002-89-5
EINECS 209-183-3
CS 39053000

Melting Point ..... approx. 300 °C
Solid

WGK 1
Storage RT

A9011 Mowiol® 4-88 for histology

®trademark of Kuraray Specialties Europe GmbH

Specifications
Appearance ..... colorless-yellowish granules
Ash (as Na_2O) ..... max. 5 %
Degree of hydrolysis (Mol %) .....86.7-88.7 %
Ester content (mg KOH/g) 130-150
Residual Acetyl content ..... 10.0-11.6 %
Solubility ..... water-soluble
Viscosity (4 %, H_2O, 20 °C) ..... 3.0-5.0 mPa·s

Code	Packaging
A9011,1000	1 kg

MRS Agar Base

CS 38220000

Solid

Storage RT

A5802 MRS Agar Base

• **Attention**: Please note that a supplement (A9134) exists for this agar. Please order separately.

Specifications
pH before autoclaving ..... approx. 6.2 (20 °C)

Composition:
Agar ..... 13.0 g/L
Ammonium Citrate ..... 2.0 g/L
Buffers ..... 2.25 g/L
Glucose ..... 20.0 g/L
Magnesium sulfate .....0.2 g/L
Manganese sulfate .....0.05 g/L
Peptones .....25.5 g/L

Code	Packaging
A5802,0500	500 g

MRVP Broth see MR-VP Medium (Dehydrated Culture Media) for microbiology

MSTFA see N-Methyl-N-(Trimethylsilyl)-2,2,2-Trifluoroacetamide

MTBE see tert.-Butyl Methyl Ether

MTT see Thiazolyl Blue Tetrazolium Bromide

Mueller-Hinton Broth

CS 38220000

Solid

Storage RT

A3751 Mueller-Hinton Broth

Specifications
pH before autoclaving ..... approx. 7.4 (20 °C)

Composition:
Peptones ..... 19.5 g/L
Starch soluble ..... 1.5 g/L

Code	Packaging
A3751,0500	500 g

MUG 3-hydrate

4-Methylumbelliferyl-β-D-Glucuronide Trihydrate

$C_{16}H_{16}O_9 \cdot 3H_2O$
M = 406.33 g/mol
CAS 6160-80-1
EINECS 228-186-0
CS 29389090

Melting Point ..... 102 °C
Solid

Storage protected from light
Storage -20 °C

A1129 MUG 3-hydrate BioChemica

Specifications
Assay (HPLC) .....min. 99 %
Solubility (Pyridine) .....clear, colorless
Free 4-Methylumbelliferone .... max. 0.0025 %
Water (K.F.) ..... max. 15.0 %

Code	Packaging
A1129,0005	5 g

Müller-Kauffmann Tetrathionate Broth see Tetrathionate Broth Base acc. to Müller-Kauffmann (Dehydrated Culture Media) for micro-

Mupirocin

$C_{26}H_{44}O_9$
M = 500.62 g/mol
CAS 12650-69-0
CS 29419000

Solid

Storage RT

A4718 Mupirocin (USP) pure, pharma grade

Specifications
Assay (HPLC; calc. on dried subst.) ..... 920-1020 µg/mg
Crystallinity ..... passes test
Identity ..... passes test
pH (saturated solution; H_2O; 25 °C) 3.5-4.5
Water (K.F.) ..... max. 1.0 %

Code	Packaging
A4718,0005	5 g
A4718,0025	25 g

НеВаРеактив

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Muramidase see Lysozyme

Murexide (C.I. 56085)

5,5'-Nitrilodibarbituric Acid mono-Ammonium Salt, Ammonium Purpurate

$C_8H_8N_6O_6$
M = 284.19 g/mol
CAS 3051-09-0
EINECS 221-266-6
CS 29335400

Solubility ..... Soluble in water.
Solid

WGK 2
Storage RT

131436 Murexide (C.I. 56085) (Reag. Ph. Eur.) for analysis, ACS

for complexometry

Specifications
Identity .....IR passes test
A 1 %, 1 cm, λ_{max} .....> 375

λ_{max} ABS in H_2O .....517-523 nm
T.L.C. .....passes test

Maximum limit of impurities

Loss on drying at 135 °C .....10 %
Sensitivity as complexometric indicator. ..... passes test

Code	Packaging
131436.1604	5 g
131436.1606	25 g

Murexide 1 % in Sodium Chloride

CS 38220000

Solubility ..... Soluble in water.
Solid

WGK 2
Storage RT

281437 Murexide 1 % in Sodium Chloride for volumetric analysis

for complexometry

Composition:
Murexide ..... 1 g
Sodium Chloride ..... 99 g

Code	Packaging
281437.1607	50 g
281437.1608	100 g

Myco-1

Tiamulin

CS 38220000

Storage -20 °C

A5222 Myco-1

sterile solution

Specifications
Application in combination with Myco-2 (A5233).

100X concentrated antibiotic solution.
based on the antibiotic Tiamulin
for the treatment of Mycoplasma-infected cells.

Code	Packaging
A5222,0010	10 ml
A5222,0020	20 ml

Myco-1 & 2 Set

CS 38220000

Storage -20 °C

A8360 Myco-1 & 2 Set

sterile solutions

Specifications
for the treatment of Mycoplasma-infected cells.
Set components
delivered in 2 x 10 ml or 2 x 20 ml or 2 x 100 ml

Myco-1 (A5222), based on the antibiotic Tiamulin
Myco-2 (A5233), based on the antibiotic Minocycline

Code	Packaging
A8360,0010	1 Set
A8360,0020	1 Set
A8360,0100	1 Set

Myco-2

Minocycline

CS 38220000

Storage -20 °C

A5233 Myco-2

sterile solution

Specifications
Application in combination with Myco-1

(A5222).
100X concentrated antibiotic solution.

based on the antibiotic Minocycline
for the treatment of Mycoplasma-infected cells.

Code	Packaging
A5233,0010	10 ml

Myco-3

CS 38220000

Storage -20 °C

A5240 Myco-3

sterile solution

Specifications
Application without additional antibiotics.
100X concentrated antibiotic solution.

based on the antibiotic Ciprofloxacin
for the treatment of Mycoplasma-infected cells.

Code	Packaging
A5240,0010	10 ml
A5240,0020	20 ml
A5240,0100	100 ml

Myco-4

CS 38220000

Storage 2-8 °C

A8366 Myco-4

Specifications
Suitable for all permanent mammalian cell lines
Lowest cytotoxic effects
Almost 100 % of permanent eradication for Mycoplasma is achieved

Any type of Mycoplasma, Acholeplasma, Spiroplasma, and Entomoplasma can be successfully treated with Myco-4
Combination of antibiotic and biophysical agents result in very low risk to cause resistance
Myco-4 is combatible with all comon antibiotic markers.
For the treatment of Mycoplasma-infected cells.

Code	Packaging
A8366,0001	1 Kit
A8366,0002	2 Kit

Mycoplasma C3 see Patulin

Mycoplasma PCR Test Kit see PCR Mycoplasma Test Kit

Mycoplasma PCR Test Kit I see PCR Mycoplasma Test Kit I

Mycoplasma Test Kits

A3744 PCR Mycoplasma Test Kit

CS 38220000

Storage -20 °C
Storage Avoid repeated changes in the reaction mix temperature
Storage When in use, always keep the reaction mix on ice!

Specifications
detects all of myoplasma species found in cell cultures
for 20 tests

Ready-to-use PCR Mix for the detection of mycoplasma in cell culture
Kit components
Reaction mix

Buffer solution
Positive template control

Code	Packaging
A3744,0020	20 Tests

A9753 PCR Mycoplasma Test Kit I

includes all PCR reagents required for Mycoplasma detection (primer, nucleotides, DNA polymerase, and amplification control)

CS 38220000

Storage 2-8 °C

Specifications
Detects all of myoplasma species found in cell cultures
Components of the kit:

Mycoplasma Test Master Mix (lyophilized): including primer sets, nucleotides, internal amplification control, and DNA polymerase
Positive Control DNA (lyophilized)

Tris Buffer (10 mM)
Rehydration Buffer

Code	Packaging
A9753,0025	25 Tests

A8994 PCR Mycoplasma Test Kit II

CS 38220000

Storage 2-8 °C

Specifications
Detects all of myoplasma species found in cell cultures
Lyophilized PCR Mix for the detection of mycoplasma in cell culture by conventional PCR

This kit meets criteria of section 2.6.7 of Ph. Eur.
Components of the kit:
PCR Primer Nucleotide Mix
Positive template control

Reaction Buffer Solution
Water PCR grade
internal control DNA

Code	Packaging
A8994,0025	25 Tests
A8994,0050	50 Tests
A8994,0100	2 x 50 Tests

Mycose see D(+)-Trehalose 2-hydrate

Mycostatin see Nystatin 2-hydrate

Myoglobin, human

Origin from human heart tissue

CAS 11080-17-4
CS 35040090

Liquid

Storage 2-8 °C

A6972 Myoglobin, human

supplied liquid in 50 mM phosphate buffer, pH 7.5, 150 mM NaCl, 0,1 % NaN_3

Specifications
Assay (SDS-PAGE) ..... min. 96 %
Concentration .....min. 1 mg/ml

Code	Packaging
A6972,0001	1 mg

Myristic acid isopropyl ester see Isopropyl Myristate

Myrtillin see Delphinidin-3-Glucoside Chloride

NAD

β-Nicotinamide Adenine Dinucleotide

$C_{21}H_{27}N_7O_{14}P_2$
M = 663.43 g/mol
CAS 53-84-9
EINECS 200-184-4
CS 29349990

Solid

Storage -20 °C

A1124 NAD

Specifications
Assay (enzym.) .....min. 97 %
Water (K.F.) .....max. 10.0 %
UV Absorption
A250/A260 (pH 7.5) .....0.83 ± 0.02
A280/A260 (pH 7.5) .....0.20 ± 0.02

Code	Packaging
A1124,0001	1 g
A1124,0005	5 g
A1124,0010	10 g
A1124,0025	25 g

NADH Disodium Salt

β-Nicotinamide Adenine Dinucleotide

$C_{21}H_{27}N_7Na_2O_{14}P_2$
M = 709.41 g/mol
CAS 606-68-8
EINECS 210-123-3
CS 29349990

Solid

Storage -20 °C

A1393 NADH Disodium Salt

Specifications
Assay (enzym.) .....min. 95 %
Water (K.F.) .....max. 8.0 %
UV Absorption
A250/A260 (pH 10) .....0.82 ± 0.03
A280/A260 (pH 10) .....0.23 ± 0.02

Code	Packaging
A1393,0001	1 g
A1393,0005	5 g
A1393,0010	10 g
A1393,9100	100 g

НеваРеактив

NADP Sodium Salt

β-Nicotinamide Adenine Dinucleotide

$C_{21}H_{27}N_7NaO_{17}P_3$
M = 765.39 g/mol
CAS 1184-16-3
EINECS 214-664-6
CS 29349990

Solid

Storage -20 °C

A1394 NADP Sodium Salt

Specifications
Assay (enzym.) .....min. 97 %
Water (K.F.) .....max. 6.0 %
UV Absorption
A250/A260 (pH 7.5) .....0.83 ± 0.03
A280/A260 (pH 7.5) .....0.21 ± 0.02

Code	Packaging
A1394,0250	250 mg
A1394,0001	1 g
A1394,0005	5 g
A1394,9050	50 g

NADPH Tetrasodium Salt

β-Nicotinamide Adenine Dinucleotide

$C_{21}H_{26}N_7Na_4O_{17}P_3$
M = 833.35 g/mol
CAS 2646-71-1
EINECS 220-163-3
CS 29349990

Solid

Storage protected from light
Storage -20 °C

A1395 NADPH Tetrasodium Salt

Specifications
Assay (enzym.) .....min. 95 %
Water (K.F.) .....max. 8.0 %
UV Absorption
A340/A260 (pH 10) .....0.43 ± 0.01

Code	Packaging
A1395,0100	100 mg
A1395,0500	500 mg
A1395,0001	1 g
A1395,9050	50 g

Nalidixic Acid

1,4-Dihydro-1-ethyl-7-methyl-1,8-naphthyridine-4-one-3-carboxylic Acid

$C_{12}H_{12}N_2O_3$
M = 232.24 g/mol
CAS 389-08-2
EINECS 206-864-7
CS 29339980

Melting Point .....225-230 °C
Solid

WGK 3*
Storage RT
Storage protected from light

Danger



H334

A1894 Nalidixic Acid BioChemica

Specifications
Assay (titr.) .....min. 99 %
Loss on drying .....max. 0.5 %
Solubility (2 %; $CHCl_3$) ..... clear
Sulfated ash ..... max. 0.1 %

Code	Packaging
A1894,0010	10 g
A1894,0100	100 g

Naphta see Petroleum Ether 65-95 °C

Naphthalene

Naphthaline

$C_{10}H_8$
M = 128.16 g/mol
CAS 91-20-3
EINECS 202-049-5
CS 29029000
Index Nr. 601-052-00-2

Melting Point ..... 80.2 °C
Boiling Point ..... 217.7 °C
Solubility ..... Insoluble in water
Solid

UN1334
Class/PG 4.1/III
ADR 4.1/III · IMDG 4.1/III · IATA 4.1/III
WGK 3
Storage RT

Warning



H302 H351 H410

141438 Naphthalene pure

Specifications
Assay (G.C.) ..... 98 %
Identity .....IR passes test
Melting range .....79-81 °C
Non-volatile matter .....0.02 %
Cu .....0.002 %
Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141438.0416	25 kg

1-Naphthaleneacetic Acid

1-Naphthylacetic Acid, a-Naphthaleneacetic Acid

$C_{12}H_{10}O_2$
M = 186.21 g/mol
CAS 86-87-3
EINECS 201-705-8
CS 29163990

Melting Point .....129-131 °C
Solubility ..... water 0.38 g/l at 17 °C
Solid

WGK 2
Storage RT

Warning



H302 H319 H335

15A428 1-Naphthaleneacetic Acid, 97 % for synthesis

Specifications
Assay ..... 97 %
Identity .....IR passes test

Code	Packaging
15A428.1208	100 g

Naphthalidine see 1-Naphthylamine

1-Naphthol

1-Hydroxynaphthalene, 1-Naphthalenol, a -Naphthol

$C_{10}H_8O$
M = 144.17 g/mol
CAS 90-15-3
EINECS 201-969-4
CS 29071510
Index Nr. 604-029-00-5

Melting Point ..... 96 °C
Boiling Point ..... 288 °C
Solubility Insoluble in water. Soluble in alcohol and ether.
Solid
White crystalline powder darkens on exposure to light

WGK 1
Storage RT

Danger



H312 H302 H335 H315 H318

122855 1-Naphthol (Reag. USP, Ph. Eur.) for analysis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Melting range ..... 95-97 °C

Maximum limit of impurities
Acidity ..... passes test
Insoluble matter in CH_3OH ..... 0.01 %
Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.005 %
2-Naphthol (G.C.) ..... 0.2 %
Naphthalene (G.C.) ..... 0.2 %
Water (H_2O) ..... 0.2 %
Heavy metals (as Pb) ..... 0.001 %
Fe ..... 0,001 %

Code	Packaging
122855.1607	50 g

162855 1-Naphthol, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test

Melting range ..... 94-97 °C
Water (H_2O) ..... 0.5 %

Code	Packaging
162855.1610	500 g

Naphthol AS-D Chloroacetate

$C_{20}H_{16}ClNO_3$
M = 353.81 g/mol
CAS 35245-26-2
EINECS 252-463-5
CS 29242998

Solid

Storage 2-8 °C

A4454 Naphthol AS-D Chloroacetate BioChemica

Specifications
Assay (HPLC) ..... min. 97 %
Solubility (1 %; Acetone) ..... clear
Free naphthol ..... max. 0.01 %

Code	Packaging
A4454,0001	1 g
A4454,0005	5 g

Naphthol blue black B see Amido Black 10 B (C.I. 20470)

1-Naphthyl Acetate

Acetic Acid 1-Naphthyl Ester

$C_{12}H_{10}O_2$
M = 186.21 g/mol
CAS 830-81-9
EINECS 212-599-8
CS 29153900

Melting Point ..... 44-49 °C
Solid

WGK 1
Storage 2-8 °C

A1563 1-Naphthyl Acetate BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
Free naphthol ..... max. 0.1 %

Code	Packaging
A1563,0025	25 g

1-Naphthyl Phosphate Monosodium Salt 1-hydrate

Sodium 1-naphthyl Phosphate

$C_{10}H_8NaO_4P \cdot H_2O$
M = 264.15 g/mol
CAS 81012-89-7
EINECS 214-502-4
CS 29199000

Solid

Storage 2-8 °C

Warning



H315 H319 H335

A1823 1-Naphthyl Phosphate Monosodium Salt 1-hydrate BioChemica

Specifications
Assay (HPLC) ..... min. 98 %
Free naphthol ..... max. 0.1 %

pH (5 %; H_2O) 3.5-4.5
Solubility (5 %; H_2O) ..... clear, colorless

Code	Packaging
A1823,0005	5 g

N-(1-Naphthyl) Ethylenediamine Dihydrochloride

1-Amino-2-(a -Naphthylamine)-Ethane Dihydrochloride, N-1-Naphthalenyl-1,2-Ethanodiamine Dichloride

$C_{12}H_{16}Cl_2N_2$
M = 259.18 g/mol
CAS 1465-25-4
EINECS 215-981-2
CS 29215990

Melting Point ..... 189 °C
Solubility ..... in water at 20 °C
Solid

WGK 3
Storage RT

132751 N-(1-Naphthyl) Ethylenediamine Dihydrochloride for analysis, ACS

Specifications
Minimum assay (Arg.) calc. a.d.s. ..... 98.0 %
Identity ..... IR passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... passes test
Sensitivity to sulfanilamide ..... passes test
Water (H_2O) ..... 5 %

Code	Packaging
132751.1604	5 g
132751.1606	25 g

1-Naphthylacetic Acid see 1-Naphthaleneacetic Acid

1-Naphthylamine

1-Aminonaphthalene, 1-Naphthalenamine, a -Naphthylamine, Naphthalidine

$C_{10}H_9N$
M = 143.19 g/mol
CAS 134-32-7
EINECS 205-138-7
CS 29214500
Index Nr. 612-020-00-2

Melting Point ..... 50 °C
Boiling Point ..... 301 °C
Solubility ..... in water at 20 °C
Solid
White crystals, darkens on exposure to air and light

UN2077
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Warning



H302 H411

15A612 1-Naphthylamine, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Melting range ..... 48-50 °C

Code	Packaging
15A612.1608	100 g
15A612.1610	500 g
15A612.0914	5 kg

tri-Natriumphosphat - 1-hydrate

Sodium Phosphate tertiary, Sodium Phosphate tri-Basic

$Na_3PO_4 \cdot H_2O$
M = 181.15 g/mol
EINECS 231-509-8
CS 28352930

Solubility ..... Soluble in water.
Solid

WGK 1
Storage RT

141681 tri-Sodium Phosphate 1-hydrate pure

Specifications
Assay (Acidim.) ..... 95 %
Insoluble matter in H_2O ..... 0.05 %
Chloride (Cl) ..... 0.02 %
Nitrogen compounds (as N) ..... 0.005 %
Sulfate (SO_4) ..... 0.05 %
As ..... 0.0005 %
Cu ..... 0.003 %
Fe ..... 0.003 %
Ni ..... 0.003 %
Pb ..... 0.003 %

Code	Packaging
141681.1211	1000 g
141681.0914	5 kg

Natural Black 1 see Hematoxylin 1-hydrate (C.I. 75290)

Natural Red 28 see Orcein

NBT

Nitro-BT, Nitro Blue Tetrazolium Chloride

$C_{40}H_{30}Cl_2N_{10}O_6$
M = 817.65 g/mol
CAS 298-83-9
EINECS 206-067-4
CS 29339980

Solid

Storage 2-8 °C
Storage protected from light

A1243 NBT BioChemica

Specifications
Assay (photometr.) ..... min. 99 %
Solubility (1 %; hot MeOH) ..... clear, yellow
Sulfated ash ..... max. 0.05 %
Water (K.F.) ..... max. 3 %

Code	Packaging
A1243,0500	500 mg
A1243,0001	1 g
A1243,0005	5 g

Nebramycin II see Apramycin Sulfate

Neocuproine Hydrochloride 1-hydrate

2,9-Dimethyl-1,1-Phenanthroline Hydrochloride

$C_{14}H_{12}N_2 \cdot HCl \cdot H_2O$
M = 262.73 g/mol
CAS 303136-82-5
EINECS 230-732-8
CS 29339980

Solid

WGK 3
Storage RT

A4274 Neocuproine Hydrochloride 1-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Solubility (25 mg/ml H_2O) ..... clear

Code	Packaging
A4274,0025	25 g

Neolinarin see Pectolinarin

Neomycin Sulfate

$C_{23}H_{46}N_6O_{13} \cdot 3H_2SO_4$
M = 908.90 g/mol
CAS 1405-10-3
EINECS 215-773-1
CS 29419000

Solid

Storage RT
Storage protected from light

A2198 Neomycin Sulfate BioChemica

Specifications
Activity ..... min. 680 I.U./mg
α20 °C/D; 10 %, H_2O ..... 53-59°
pH (1 %; H_2O; 20 °C) 5.0-7.5
Sulfated ash ..... max. 1 %
Water ..... max. 8 %

Code	Packaging
A2198,1000	1 kg

A7002 Neomycin Sulfate (Ph. Eur.) pure, pharma grade

Specifications
Activity (anhydrous subst.) ..... min. 680 I.U./mg
α20 °C/D; dried subst. ..... 53.5-59.0°
Identity ..... passes test
Loss on drying (60 °C; 0.7 kPa) ..... max. 8.0 %
pH (1 %; H_2O) 5.0-7.5
Related subst. (HPLC) ..... passes test
Sulfated ash ..... max. 1.0 %
Sulfate (anhydrous subst.) ..... 27.0-31.0 %

Code	Packaging
A7002,1000	1 Kg

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Nessler's Reagent

di-Potassium tetra-Iodomercurate(II), Potassium Tetraiodomercurate(II)

CS 28521000

Density ..... 1.272 kg/l
Solubility ..... Miscible with water
Liquid

UN3287
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage RT

Danger



H300 H314 H372 H412

171581 Nessler's Reagent

for determination of ammonia and ammonia salts

Composition:
Mercury(II) Iodide ..... 100 g
Potassium Iodide ..... 70 g
Sodium Hydroxide ..... 160 g
Water (s.q.m) ..... 1 l

Code	Packaging
171581.1209	250 ml

Neucoccin see Cochenille Red (C.I. 16255)

Neutral Red (C.I. 50040)

Basic Red 5, Toluylene Red

$C_{15}H_{17}ClN_4$
M = 288.78 g/mol
CAS 553-24-2
EINECS 209-035-8
CS 32041300

Melting Point ..... 290 °C
Solubility ..... water 40 g/l
Solubility ..... alcohol 18 g/l
Solid

WGK 2
Storage RT

Warning



H302

251619 Neutral Red (C.I. 50040) for clinical diagnosis

for microscopy, Koch's bacilli staining

Specifications
Identity ..... IR passes test

Ratio λ_{max} P +/- 15 nm 1.00-1.12
A 1 %, 1 cm, λ_{max} (calc. a.d.s.) 900
λ_{max} ABS in ethanol 50 % ..... 538-544 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 135 °C ..... 12 %

Code	Packaging
251619.1605	10 g

NHS-LC-Biotin see Biotinamidohexanoic Acid N-Hydroxysuccinimide Ester

NHS-PEO3-Biotin see 9-Biotinylamino-4,7-Dioxanonanoic Acid N-Hydroxysuccinimidyl Ester

Ni-NTA Agarose in 30 % ethanol (slurry) see Nickel NTA Agarose Suspension

Niacin see Nicotinic Acid

Niacinamide see Nicotinamide

N

Nickel NTA Agarose Suspension

Ni-NTA Agarose in 30 % ethanol (slurry)

CS 38220000

Storage 2-8 °C

A9735 Nickel NTA Agarose Suspension

Specifications
Concentration: 6 % cross-linked Agarose, supplied as 50 % (v/v) suspension
Ligand: Nitrilotriacetic Acid (NTA)

Binding capacity: ca. 50 mg/ml gel
Bead size: 50-170 µm, spherical

Code	Packaging
A9735,0025	25 ml
A9735,0100	100 ml

Nickel(II) Chloride 6-hydrate

$NiCl_2 \cdot 6H_2O$
M = 237.71 g/mol
CAS 7791-20-0
EINECS 231-743-0
CS 28273500

Melting Point ..... 140 °C
Solubility ..... 2540 g/L (H_2O)
Solid

UN3288
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301+H331 H315 H317 H334 H341 H350i H360D H372 H410

121443 Nickel(II) Chloride 6-hydrate for analysis

Specifications
Minimum assay (Compl.) ..... 98.0 %
pH of 5 % solution ..... ≥ 3

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %

Sulfate (SO_4) ..... 0.02 %
Ca ..... 0.005 %
Cd ..... 0.002 %
Co ..... 0.01 %
Cu ..... 0.005 %
Fe ..... 0.001 %
K ..... 0.01 %
Na ..... 0.05 %
Pb ..... 0.003 %
Zn ..... 0.005 %

Code	Packaging
121443.1211	1000 g

141443 Nickel(II) Chloride 6-hydrate pure

Specifications
Assay (Compl.) ..... 98 %
pH of 5 % solution ..... ≥ 3
Insoluble matter in H_2O ..... 0.025 %

Sulfate (SO_4) ..... 0.05 %
Ca ..... 0.03 %
Cu ..... 0.01 %
Fe ..... 0.005 %
Pb ..... 0.005 %
Zn ..... 0.05 %

Code	Packaging
141443.1211	1000 g

A3917 Nickel(II) Chloride 6-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 98 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 20 °C) 4.5-7.0

Sulfate ..... max. 0.01 %
Co ..... max. 0.002 %
Cu ..... max. 0.001 %
Fe ..... max. 0.002 %
Pb ..... max. 0.001 %
Zn ..... max. 0.001 %

Code	Packaging
A3917,0100	100 g

HeBaPeaKTMB

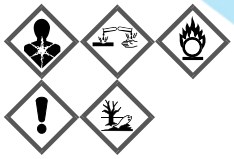
Nickel(II) Nitrate 6-hydrate

$Ni(NO_3)_2 \cdot 6H_2O$
M = 290.81 g/mol
CAS 13478-00-7
EINECS 236-068-5
CS 28342920

Melting Point ..... 56.7 °C
Solubility ..... water 2,380 g/l at 20 °C
Solid

UN2725
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 3
Storage RT

Danger



H350i H360D H272 H332 H302 H315 H318 H334 H317 H372 H341 H410

141444 Nickel(II) Nitrate 6-hydrate pure

Specifications
Assay (Compl.) ..... 98 %
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.03 %
Ca ..... 0.2 %
Fe ..... 0.005 %
Pb ..... 0.005 %
Zn ..... 0.05 %

Code	Packaging
141444.1211	1000 g

Nickel(II) Sulfate 6-hydrate

$NiSO_4 \cdot 6H_2O$
M = 262.86 g/mol
CAS 10101-97-0
EINECS 232-104-9
CS 28332400
Index Nr. 028-009-00-5

Melting Point ..... 53 °C
Solubility ..... 625 g/L (H_2O)
Solid

UN3288
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H302+H332 H315 H317 H334 H341 H350i H360D H372 H410

121445 Nickel(II) Sulfate 6-hydrate for analysis

Specifications
Assay (titr.) ..... min. 99 %
pH (5 %; H_2O) 4.0-6.0
Chloride ..... max. 0.005 %
As ..... max. 0.001 %
Cd ..... max. 0.005 %
Co ..... max. 0.01 %
Cu ..... max. 0.002 %
Fe ..... max. 0.005 %
Pb ..... max. 0.002 %
Zn ..... max. 0.005 %

Code	Packaging
121445.1211	1 kg

141445 Nickel(II) Sulfate 6-hydrate pure

Specifications
Assay (titr.) ..... min. 98 %
Chloride ..... max. 0.005 %
Co ..... max. 0.05 %
Fe ..... max. 0.01 %
Pb ..... max. 0.005 %
Zn ..... max. 0.05 %

Code	Packaging
141445.1214	5 kg

Nicotinamide

Niacinamide, Nicotinic Acid Amide, Vitamin PP

$C_6H_6N_2O$
M = 122.13 g/mol
CAS 98-92-0
EINECS 202-713-4
CS 29362900

Solubility ..... 1000 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H319

A0959 Nicotinamide (Ph. Eur., USP) pure, pharma grade

Specifications
Assay (HPLC, calc.
on dried subst.) ..... 98.5-101.0 %
Assay (titr., calc.
on dried subst.) ..... 99.0-101.0 %
Appearance of solution ..... passes test
Behaviour against H_2SO_4 ..... passes test
Heavy metals (as Pb) ..... max. 0.003 %
Identity ..... passes test
Loss on drying ..... max. 0.5 %
Melting range ..... 128-131 °C
pH (5 %; H_2O; 25 °C) 6.0-7.5
Related subst. ..... passes test
Sulfated ash ..... max. 0.1 %

Code	Packaging
A0959,0100	100 g
A0959,0250	250 g

Nicotinic Acid

Niacin, Pyridine 3-Carboxylic Acid, Vitamin B

$C_6H_5NO_2$
M = 123.11 g/mol
CAS 59-67-6
EINECS 200-441-0
CS 29362900

Melting Point ..... 235 °C (dec.)
Solubility ..... 18 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H319

A0963 Nicotinic Acid (Ph. Eur., USP) pure, pharma grade

Specifications
Assay (titr., calc.
on dried subst.) ..... 99.5-100.5 %
Assay (UV, calc.
on dried subst.) ..... 99.0-101.0 %
Heavy metals (as Pb) ..... max. 0.002 %
Identity ..... passes test
Loss on drying (1 h; 105 °C) ..... max. 1.0 %
Ordinary impurities ..... max. 2.0 %
Related subst. ..... passes test
Sulfated ash ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %

Code	Packaging
A0963,0100	100 g
A0963,0250	250 g

Nicotinic Acid Amide see Nicotinamide

Nicotinthioamide see Thionicotinamide

Nigericin Sodium Salt

Polyetherin A, Antibiotic K178, Azalomycin M, Helixin C

Origin from *Streptomyces hygroscopicus*

$C_{40}H_{67}NaO_{11}$
M = 746.94 g/mol
CAS 28643-80-3
CS 29419000

Melting Point .....261-265 °C (dec.)
Solid

UN3462
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage -20 °C

Danger



H301 H315 H319 H335

A7671 Nigericin Sodium Salt BioChemica

Specifications
Purity (TLC) .....min. 98 %
Solubility (10 mg/ml
Dichloromethane) .....clear, colorless

Code	Packaging
A7671,0010	10 mg

Ninhydrin

1,2,3-Trioxohydrindene Hydrate, 1,2,3-Indantrione Hydrate, 1-H-Indene-1,2,3-Trione 1-Hydrate, 2,2-Dihydroxy-1,3-Dioxohydrindene

$C_9H_6O_4$
M = 178.14 g/mol
CAS 485-47-2
EINECS 207-618-1
CS 29143900

Solid

WGK 3*
Storage RT

Warning



H302 H315 H319

132362 Ninhydrin for analysis, ACS

Specifications
Identity .....IR passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... passes test

Residue on ignition (as SO_4) ..... 0.2 %
Identification and melting point ..... passes test
Sensitivity to amino acids ..... passes test

Code	Packaging
132362.1605	10 g
132362.1608	100 g
132362.1611	1000 g

A0902 Ninhydrin for analysis

Specifications
Assay (HPLC) .....min. 99 %
Loss on drying .....max. 11 %
pH (1 %; H_2O; 20 °C) 4.6-5.6
Sulfated ash .....max. 0.1 %

Code	Packaging
A0902,0010	10 g
A0902,0025	25 g
A0902,0100	100 g
A0902,0500	500 g

NIPHEGAL see 2-Nitrophenyl-β-D-Galactopyranoside

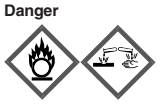
Nitric Acid fuming

HNO_3
M = 63.01 g/mol
CAS 7697-37-2
EINECS 231-714-2
CS 28080000
Index Nr. 007-004-00-1

Melting Point ..... -40 °C
Boiling Point ..... 84 °C
Density .....1.502 kg/l
Liquid
fuming

UN2032
Class/PG 8(5.1)(6.1)/I
ADR 8(5.1)(6.1)/I · IMDG 8(5.1)(6.1)/I · IATA 8(5.1)(6.1)/I
WGK 1
Storage RT

Danger



H272 H314

121038 Nitric Acid fuming (Reag. Ph. Eur.) for analysis

Specifications
Minimum assay (Acidim.) .....99.5 %

Maximum limit of impurities
Insoluble matter in H_2O .....passes test
Residue on ignition (as SO_4) ..... 0.002 %
Chloride (Cl) ..... 0.00007 %

Sulfate (SO_4) .....0.0005 %
Heavy metals (as Pb) .....0.0005 %
As ..... 0.00002 %
Fe .....0.0002 %

Code	Packaging
121038.2411	1000 ml

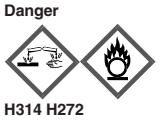
Nitric Acid 69 %

HNO_3
M = 63.01 g/mol
CAS 7697-37-2
EINECS 231-714-2
CS 28080000
Index Nr. 007-004-00-1

Melting Point .....~ - 32 °C
Boiling Point ..... 122 °C
Density .....1.411 kg/l
Liquid

UN2031
Class/PG 8(5.1)/II
ADR 8(5.1)/II · IMDG 8(5.1)/II · IATA 8(5.1)/II
WGK 1
Storage away from direct light.

Danger



H314 H272

711037 Nitric Acid 69 % for trace metal analysis (ppt)

Specifications
Assay (Acidim.) ..... 67-69 %

Maximum limit of impurities

Metals by ICP (in ppt)
Ag..... 10 Al..... 20
As..... 20 Au 20
B..... 10 Ba 10
Be .....10 Bi .....10 Ho ..... 1 In..... 1
Ca .....10 Cd.....10 K..... 10 La..... 1
Ce .....10 Co.....10 Li ..... 10 Lu..... 1
Cr.....10 Cs.....10 Mg..... 10 Mn..... 10
Cu .....10 Dy..... 1 Mo..... 10 Na 10
Er.....1 Eu..... 1 Nb ..... 1 Nd 1
Fe .....10 Ga.....10 Ni..... 20
Gd.....1 Ge.....10
Hf.....10 Hg.....50

Code	Packaging
711037.0009	250 ml
711037.0010	500 ml

721037 Nitric Acid 69 % for trace metal analysis (ppb)

Specifications
Assay (Acidim.) ..... 67-69 %

Maximum limit of impurities
APHA colour 10
Chloride (Cl) ..... 0.00002 %
Sulfur ..... 0.00003 %
Total phosphorus ..... 0.000001 %

Metals by ICP (ppb)
Ag .....0.1 Al 1
As .....0.5 Au 0.1
B .....1 Ba 0.1
Be .....0.1 Bi 0.1
Ca .....1 Cd.....0.5
Ce .....0.1 Co.....0.5
Cr.....1 Cs.....0.1
Cu .....0.5 Dy.....0.1
Er ..... 0.1 Eu 0.1
Fe..... 1 Ga 0.1
Gd ..... 0.1 Ge 0.1
Hf ..... 0.1 Hg 0.1
Ho ..... 0.1 In..... 0.1
K..... 1 La..... 0.1
Li ..... 0.1 Lu..... 0.1
Mg ..... 1 Mn..... 0.1
Mo 0.1

Code	Packaging
721037.0010	500 ml
721037.0011	1000 ml
721037.0012	2.5 l

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

131037 Nitric Acid 69 % for analysis, ACS, ISO

Specifications
Assay (Acidim.) ..... 68.0-70.0 %
Density 20/4 ..... 1.410-1.420

Maximum limit of impurities
APHA colour 10
Reducing substance to $KMnO_4$ .... passes test
Residue on ignition (as SO_4) ..... 0.0005 %
Chloride (Cl) ..... 0.00005 %
Phosphate (PO_4) ..... 0.0001 %
Sulfate (SO_4) ..... 0.0001 %
Nitrite (NO_2) ..... 0.0005 %
As ..... 0.000001 %
Heavy metals (as Pb) ..... 0.00002 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.02	Al	0.2	Cd	0.01
Au	0.1	B	0.05	Cr	0.1
Ba	0.02	Be	0.02	Fe	0.2
Bi	0.05	Ca	0.5	Ge	0.02
Co	0.02	Cu	0.01	Ga	0.05
Hg	0.1	In	0.05	K	0.1
Li	0.02	Mg	0.1	Mn	0.01
Mo	0.02	Na	0.5	Ni	0.05
Pb	0.02	Pt	0.1	Sb	0.02

Code	Packaging
131037.1611	1000 ml
131037.1612	2.5 l
131037.1214	5 l
131037.0816	25 l

141037 Nitric Acid 69 % (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 69.0-70.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Residue on ignition (as SO_4) ..... 0.0005 %
Chloride (Cl) ..... 0.00005 %
Sulfate (SO_4) ..... 0.0001 %
Clarity and colour ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.00002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
As ..... 0.000001 %
Fe ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141037.1611	1000 ml
141037.1612	2.5 l
141037.1214	5 l
141037.0816	25 l

Nitric Acid 65 %

HNO_3
M = 63.01 g/mol
CAS 7697-37-2
EINECS 231-714-2
CS 28080000
Index Nr. 007-004-00-1
Melting Point ..... -47 °C
Boiling Point ..... 121 °C
Density ..... 1.395 kg/l
Liquid
UN2031
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314 H272

383255 Nitric Acid 65 % for trace metal analysis (ppm)

Specifications
Assay (Acidim.) ..... 62-65 %

Maximum limit of impurities
Residue on ignition (as SO_4) ..... 0.0002 %
Chloride (Cl) ..... 0.00005 %
Phosphate (PO_4) ..... 0.000001 %
Sulfate (SO_4) ..... 0.00002 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.001	Al	0.02	In	0.002
As	0.001	Au	0.005	Li	0.001
Ba	0.005	Be	0.001	Mn	0.002
Bi	0.005	Ca	0.1	Na	0.3
Cd	0.001	Co	0.001	Pb	0.005
Cr	0.02	Cu	0.005	Sr	0.001
Fe	0.1	Ga	0.005	Tl	0.001
Ge	0.005	Hg	0.002	Zn	0.01
K	0.05	Mg	0.02	Mo	0.001
Ni	0.01	Sn	0.02	Ti	0.001
V	0.001	Zr	0.001		

Code	Packaging
383255.1609	250 ml
383255.1611	1000 ml

473255 Nitric Acid 65 % (max. 0.0000005 % Hg) for analysis

Specifications
Assay (Acidim.) ..... 63-65 %
Density 20/4 ..... ≥ 1.39

Maximum limit of impurities
APHA colour 10
Reducing substance to $KMnO_4$ .... passes test
Residue on ignition (as SO_4) ..... 0.0005 %
Chloride (Cl) ..... 0.00005 %
Phosphate (PO_4) ..... 0.0001 %
Sulfate (SO_4) ..... 0.0002 %
Nitrite (NO_2) ..... 0.0005 %
Hg ..... 0.0000005 %
Heavy metals (as Pb) ..... 0.00002 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.02	Al	0.05	Ca	0.5
As	0.01	Au	0.1	Co	0.02
B	0.05	Ba	0.02	Cu	0.01
Be	0.02	Bi	0.05	Ga	0.05
Cd	0.01	Cr	0.1	In	0.05
Fe	0.2	Ge	0.02	K	0.1
Li	0.02	Mg	0.1	Mn	0.01
Mo	0.02	Na	0.5	Ni	0.05
Pb	0.02	Pt	0.1	Sb	0.02

Code	Packaging
473255.1611	1000 ml
473255.1612	2.5 l

133255 Nitric Acid 65 % for analysis, ISO

Specifications
Minimum assay (Acidim.) ..... 65 %
Density 20/4 ..... ≥ 1.39

Maximum limit of impurities
APHA colour 10
Reducing substance to $KMnO_4$ .... passes test
Residue on ignition (as SO_4) ..... 0.0005 %
Chloride (Cl) ..... 0.00005 %
Phosphate (PO_4) ..... 0.00005 %
Sulfate (SO_4) ..... 0.0002 %
Nitrite (NO_2) ..... 0.0005 %
Heavy metals (as Pb) ..... 0.00002 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.02	Al	0.1	Co	0.02
As	0.01	Au	0.1	Cu	0.01
B	0.05	Ba	0.02	Ga	0.05
Be	0.02	Bi	0.05	Hg	0.1
Ca	0.5	Cd	0.01	K	0.1
Cr	0.1	Fe	0.2	Ge	0.02
In	0.05	Li	0.02	Mg	0.1
Mn	0.01	Mo	0.02	Na	0.5
Ni	0.05	Pb	0.01	Pt	0.1
Sb	0.02				

Code	Packaging
133255.1611	1000 ml
133255.1612	2.5 l
133255.1214	5 l
133255.3515	10 l
133255.0816	25 l
133255.3516	25 l
133255.0819	200 l

143255 Nitric Acid 65 % pure

Specifications
Assay (Acidim.) ..... 65 %
Residue on ignition (as SO_4) ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Sulfate (SO_4) ..... 0.001 %
As ..... 0.000005 %
Cu ..... 0.00005 %
Fe ..... 0.0001 %
Pb ..... 0.00005 %

Code	Packaging
143255.1611	1000 ml
143255.1612	2,5 l
143255.1214	5 l
143255.0816	25 l

213255 Nitric Acid 65 % technical grade

Specifications
Assay (Acidim.) ..... 65 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %

Code	Packaging
213255.1611	1000 ml
213255.1212	2,5 l
213255.1214	5 l
213255.0716	25 l

HEBAPEAKTMB

Nitric Acid 53 %

HNO_3
M = 63.01 g/mol
CAS 7697-37-2
EINECS 231-714-2
CS 28080000
Index Nr. 007-004-00-1

Density ..... 1.333 kg/l
Liquid

UN2031
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

121737 Nitric Acid 53 % for analysis

Specifications
Assay (Acidim.) ..... 53-54 %
Density 20/4 ..... 1.330-1.335

Maximum limit of impurities
APHA colour 10
Reducing substance to $KMnO_4$ .... passes test
Residue on ignition (as SO_4) ..... 0.0005 %
Chloride (Cl) ..... 0.00005 %
Phosphate (PO_4) ..... 0.0001 %

Sulfate (SO_4) ..... 0.0002 %
Nitrite (NO_2) ..... 0.0005 %
As ..... 0.000001 %
Heavy metals (as Pb) ..... 0.00002 %

Metals by ICP [in mg/Kg (ppm)]

Ag 0.02	Al 0.05
Au 0.1	B 0.05
Ba 0.02	Be 0.02
Bi 0.05	Ca 0.5

Cd 0.01	Co 0.02
Cr 0.1	Cu 0.01
Fe 0.2	Ga 0.05
Ge 0.02	Hg 0.1
In 0.05	K 0.1
Li 0.02	Mg 0.1
Mn 0.01	Mo 0.02
Na 0.5	Ni 0.05
Pb 0.02	Pt 0.1
Sb 0.02	

Code	Packaging
121737.1611	1000 ml
121737.1214	5 l

Nitric Acid 20 %

HNO_3
M = 63.01 g/mol
CAS 7697-37-2
EINECS 231-714-2
CS 28080000
Index Nr. 007-004-00-1

Boiling Point ..... 122 °C (dec.)
Density ..... 1.40 kg/l (65 %; 20 °C)
Liquid

UN2031
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

127084 Nitric Acid 20 % for analysis

Specifications
Assay (titr.) ..... min. 20 %
Chloride ..... max. 0.00005 %
Phosphate ..... max. 0.00005 %
Sulfate ..... max. 0.00005 %

Al ..... max. 0.000005 %
As ..... max. 0.000001 %
Ca ..... max. 0.00005 %
Fe ..... max. 0.00002 %
Na ..... max. 0.00005 %

Ni ..... max. 0.000005 %
Pb ..... max. 0.000001 %
Zn ..... max. 0.000005 %

Code	Packaging
127084.1211	1 L
127084.1212	2.5 L

Nitric Acid 3 %

CAS 7697-37-2
EINECS 231-714-2
CS 28080000
Index Nr. 007-004-00-1

Liquid

UN2031
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Warning



H290 H315

147071 Nitric Acid 3 % pure

Specifications
Assay (titr.) ..... min. 3 %
Chloride ..... max. 0.0002 %
Sulfate ..... max. 0.005 %

Al ..... max. 0.001 %
Ca ..... max. 0.005 %
Cr ..... max. 0.001 %
Fe ..... max. 0.001 %

Mg ..... max. 0.001 %
Ni ..... max. 0.005 %

Code	Packaging
147071.1212	2.5 L
147071.1214	5 L

Nitric Acid 4 mol/l (4N)

HNO_3
M = 63.01 g/mol
CAS 7697-37-2
EINECS 231-714-2
CS 28080000
Index Nr. 007-004-00-1

Liquid

UN2031
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

186195 Nitric Acid 4 mol/l (4N) volumetric solution

Specifications
Factor limits 0.998-1.002

Code	Packaging
186195.1611	1 L

Nitric Acid 2 mol/l (2N)

HNO_3
M = 63.01 g/mol
CAS 7697-37-2
EINECS 231-714-2
CS 28080000
Index Nr. 007-004-00-1

Density ..... 1.07 kg/l
Liquid

UN2031
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

182112 Nitric Acid 2 mol/l (2N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182112.1611	1000 ml

Nitric Acid 1 mol/l (1N)

HNO_3
M = 63.01 g/mol
CAS 7697-37-2
EINECS 231-714-2
CS 28080000
Index Nr. 007-004-00-1

Melting Point ..... ~ - 10 °C
Boiling Point ..... 101 °C
Density ..... 1.036 kg/l
Liquid

UN2031
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

181039 Nitric Acid 1 mol/l (1N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181039.1611	1000 ml

Printed on FSC® certified paper from well managed forests

НеваРеактив

Nitric Acid 0.1 mol/l (0.1N)

HNO_3
M = 63.01 g/mol
CAS 7697-37-2
EINECS 231-714-2
CS 28080000

Density .....1.002 kg/l
Liquid

UN2031
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

181040 Nitric Acid 0.1 mol/l (0.1N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
181040.1611	1000 ml
181040.1214	5 l

Nitrilotriacetic Acid

NTA

$C_6H_9NO_6$
M = 191.14 g/mol
CAS 139-13-9
EINECS 205-355-7
CS 29224985

Melting Point .....242 °C (dec.)
Solubility ..... 1.3 g/L (H_2O)
Solid

WGK 2
Storage RT

Warning



H302 H319 H351

142346 Nitrilotriacetic Acid pure

Specifications
Assay (titr.) .....min. 98 %
Sulfated ash .....max. 0.1 %
Pb ..... max. 0.001 %

Code	Packaging
142346.1211	1 kg

Nitro-PAPS Disodium Salt

2-(5-Nitro-2-Pyridylazo)-5-(N-Propyl-N-Sulfopropylamino)-Phenol Disodium Salt

$C_{17}H_{19}N_5Na_2O_6S$
M = 467.41 g/mol
CAS 115408-94-1
CS 29214900

Solid

Storage 2-8 °C

A1494 Nitro-PAPS Disodium Salt BioChemica

Specifications
Assay (from N) .....min. 90 %
Water (K.F.) .....max. 10 %

Code	Packaging
A1494,0100	100 mg

2-Nitrobenzaldehyde

o-Nitrobenzaldehyde

$C_7H_5NO_3$
M = 151.12 g/mol
CAS 552-89-6
EINECS 209-025-3
CS 29130000

Melting Point ..... 42 °C
Boiling Point ..... 153 °C 30.59 hPa
Solubility ..... Very slightly soluble in water.
Solid

WGK 2
Storage RT

Warning



H319 H335 H315

15A127 2-Nitrobenzaldehyde, 99 % for synthesis

Specifications
Minimum assay ..... 99 %

Code	Packaging
15A127.1606	25 g
15A127.1608	100 g

Nitrobenzene

Essence of Mirbane

$C_6H_5NO_2$
M = 123.11 g/mol
CAS 98-95-3
EINECS 202-716-0
CS 29042000
Index Nr. 609-003-00-7

Melting Point ..... 6 °C
Boiling Point ..... 211 °C
Density .....1.203 kg/l
Solubility ..... in water 1.9 g/l at 20 °C
Refractive Index n20/D 1.5529
Liquid

UN1662
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage in a cool and dry place.

Danger



H331 H311 H301 H351 H372 H411 H361f

131447 Nitrobenzene (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity .....IR passes test
Density 20/4 ..... 1.201-1.205
Freezing point ..... 5-6 °C

Maximum limit of impurities
Acidity ..... 0.0004 meq/g
Non-volatile matter ..... 0.005 %

Chloride (Cl) .....0.0005 %
1,2-Dinitrobenzene (G.C.) .....0.005 %
1,3-Dinitrobenzene (G.C.) .....0.005 %
1,4-Dinitrobenzene (G.C.) .....0.005 %
Water (H_2O) .....0.05 %
Ca .....0.00005 %
Cd .....0.000005 %
Co .....0.000002 %
Cr .....0.000002 %

Cu ..... 0.000002 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
131447.1611	1000 ml
131447.1214	5 l

161447 Nitrobenzene, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity .....IR passes test

Density 20/4 .....1.201-1.205
Freezing point .....5-6 °C
Water (H_2O) .....0.05 %

Code	Packaging
161447.1211	1000 ml

Nitrobenzol see Nitromethane

Nitrocellulose Transfer membrane see Pure Nitrocellulose unsupported 0.22 µm Transfer Membrane

Reprobe Nitrocellulose supported 0.22 µm Transfer Membrane

CS 39207990 Storage RT

A5237 Reprobe Nitrocellulose supported 0.22 µm Transfer Membrane

Specifications
Application
Southern and Northern blots; Dot/Slot blots
Multiple Reprobing
Colony lifts, Plaque lifts

Features and Benefits
Supported: Has added strength and durability allowing multiple reprobing
Greatest binding capacity of nitrocellulose with 100 µg/cm²

Nucleic Acid Binding ..... 100 µg/cm²
Pore size .....0.22 µm
Supplied as a roll of 30 cm x 3 m

Code	Packaging
A5237,3030R	1 roll

Reprobe Nitrocellulose supported 0.45 µm Transfer Membrane

CS 39207990 Storage RT

A5242 Reprobe Nitrocellulose supported 0.45 µm Transfer Membrane

Specifications
Application
Southern and Northern blots; Dot/Slot blots
Multiple Reprobing
Colony lifts, Plaque lifts

Features and Benefits
Supported: Has added strength and durability allowing multiple reprobing
Greatest binding capacity of nitrocellulose with 100 µg/cm²

Nucleic Acid Binding ..... 100 µg/cm²
Pore size .....0.45 µm
Supplied as roll of 30 cm x 3 m

Code	Packaging
A5242,3030R	1 roll

Pure Nitrocellulose unsupported 0.22 µm Transfer Membrane

Nitrocellulose - Transfer membrane

CS 39207990 Storage RT

A5250 Pure Nitrocellulose unsupported 0.22 µm Transfer Membrane

Specifications
Application
Southern and Northern blots; Dot/Slot blots
Western blots
Immunoblotting

Features and Benefits
Low background, Easily blocked
Cellulose acetate free - assuring high binding and sensitivity
Nucleic Acid Binding .....100 µg/cm²

Pore size .....0.22 µm
Supplied as a roll (30 cm x 3 m)

Code	Packaging
A5250,3030R	1 roll

Pure Nitrocellulose unsupported 0.45 µm Transfer Membrane

Nitrocellulose - Transfer membrane

CS 39207990 Storage RT

A5239 Pure Nitrocellulose unsupported 0.45 µm Transfer Membrane

Specifications
Application
Southern and Northern blots; Dot/Slot blots
Western blots
Immunoblotting

Features and Benefits
Low background, Easily blocked
Cellulose acetate free - assuring high binding and sensitivity
Nucleic Acid Binding .....100 µg/cm²

Pore size .....0.45 µm
Supplied as rolls (15 cm x 3 m, 20 cm x 3m, or 30 cm x 3 m)

Code	Packaging
A5239,3015R	1 roll
A5239,3020R	1 roll
A5239,3030R	1 roll

Nitromethane

Nitrocarbol

CH_3NO_2
M = 61.04 g/mol
CAS 75-52-5
EINECS 200-876-6
CS 29042000
Index Nr. 609-036-00-7

Melting Point .....-28 °C
Boiling Point .....101 °C
Density .....1.138 kg/l
Solubility .....in water 95 g/l at 20 °C
Refractive Index n20/D 1.3818
Liquid

UN1261
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H226 H302

131970 Nitromethane (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) .....98.0 %
Identity .....IR passes test

Density 20/20 .....1.132-1.134
Refractive Index n20/D 1.381-1.383

Maximum limit of impurities
APHA colour 10
Water (H_2O) .....0.05 %

Code	Packaging
131970.1214	5 l

4-Nitrophenyl Phosphate Disodium Salt 6-hydrate

para-Nitrophenyl Phosphate Disodium Salt 6-hydrate

$C_6H_4NNa_2O_6P \cdot 6H_2O$
M = 371.15 g/mol
CAS 4264-83-9
EINECS 224-246-5
CS 29199000

Melting Point ..... 195 °C
Solid

WGK 1
Storage -20 °C
Storage protected from light

A1442 4-Nitrophenyl Phosphate Disodium Salt 6-hydrate BioChemica

Specifications
Assay (HPLC) .....min. 98 %
4-Nitrophenol .....max. 0.01 %

Code	Packaging
A1442,0005	5 g
A1442,0025	25 g
A1442,0050	50 g

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

1-(4-Nitrophenyl)-1,2,3-Propanetriol

α-(p-Nitrophenyl)-Glycerol, 1-(4-Nitrophenyl)-Glycerol

$C_9H_{11}NO_5$
M = 213.19 g/mol
CAS 2207-68-3
EINECS 218-624-9
CS 29062900

Solid

Storage protected from light
Storage 2-8 °C

Warning



H315 H319 H335

A1832 1-(4-Nitrophenyl)-1,2,3-Propanetriol

Specifications
Assay (HPLC) .....min. 98 %
4-Nitrophenol .....max. 0.1 %

Code	Packaging
A1832,0001	1 g
A1832,0050	50 g

2-Nitrophenyl-β-D-Galactopyranoside

NIPHEGAL

$C_{12}H_{15}NO_8$
M = 301.26 g/mol
CAS 369-07-3
EINECS 206-716-1
CS 29389090

Melting Point .....185 °C (dec.)
Solid

Storage -20 °C
Storage protected from light

A1272 2-Nitrophenyl-β-D-Galactopyranoside BioChemica

Specifications
Assay (HPLC) .....min. 99 %
α20 °C/D; 1 %, H_2O .....-67 to -69°
2-Nitrophenol ..... max. 0.01 %

Code	Packaging
A1272,0005	5 g
A1272,0025	25 g
A1272,0100	100 g
A1272,0200	200 g

4-Nitrophenyl-β-D-Glucuronide

para-Nitrophenyl Phosphate Disodium Salt 6-hydrate

$C_{12}H_{13}NO_9$
M = 315.23 g/mol
CAS 10344-94-2
EINECS 233-753-0
CS 29389090

Melting Point ..... 143 °C

Storage -20 °C
Storage protected from light

A1028 4-Nitrophenyl-β-D-Glucuronide BioChemica

Specifications
Assay (HPLC) .....min. 99 %
4-Nitrophenol ..... max. 0.01 %

Code	Packaging
A1028,0001	1 g
A1028,0005	5 g

Nivitin see D(-)-Sorbitol

NMP see 1-Methyl-2-Pyrrolidone

Nocodazole

$C_{14}H_{11}N_3O_3S$
M = 301.33 g/mol
CAS 31430-18-9
EINECS 250-626-5
CS 29349990

Melting Point ..... 300° (dec.)
Solid

Storage RT

Danger



H315 H319 H335 H351 H360

A1999 Nocodazole BioChemica

Specifications
Assay (HPLC) .....min. 98 %

Code	Packaging
A1999,0010	10 mg

Non bleeding sticks pH 0.0-6.0 (gradation 0.5)

CS 38220000

Plastic
Non bleeding sticks

Storage RT

524167 Non bleeding sticks pH 0.0-6.0 (gradation 0.5)

Code	Packaging
524167.1826	Strips

Non bleeding sticks pH 4.5-10.0 (gradation 0.5)

CS 38220000

Plastic
Non bleeding sticks

Storage RT

524165 Non bleeding sticks pH 4.5-10.0 (gradation 0.5)

Code	Packaging
524165.1826	100 Strips/Box

Non bleeding sticks pH 7.0-14.0 (gradation 0.5)

CS 38220000

Plastic
Non bleeding sticks

Storage RT

524168 Non bleeding sticks pH 7.0-14.0 (gradation 0.5)

Code	Packaging
524168.1826	100 Strips/Box

Non bleeding sticks pH 0-14 (gradation 1.0)

CS 38220000

Plastic
Non bleeding sticks

Storage RT

524164 Non bleeding sticks pH 0-14 (gradation 1.0)

Code	Packaging
524164.1826	100 Strips/Box

Nonfat dried milk powder

Milk powder, Skim milk

EINECS 271-045-3
CS 04021011 (for package sizes ≤ 2.5 kg)
CS 04021019 (for package sizes > 2.5 kg)

Solid

Storage RT

A0830 Nonfat dried milk powder

Specifications
Ash ..... max. 8.5 %
pH (20 %; H_2O; 20 °C) ..... 6.5 ± 0.2
Protein ..... 33.0-40.0 %
Total no. of germs ..... max. 30000 CFU/g
Fat ..... max. 1.0 %
Lactose ..... 45.0-54.0 %

Code	Packaging
A0830,0500	500 g
A0830,1000	1 kg
A0830,5000	5 kg

Nonidet® P40 (Substitute)

NP4, Nonylphenylpolyethylene Glycol

CAS 9016-45-9
CS 34021300

Liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
Storage RT

Danger



H302 H318 H411

A1694 Nonidet® P40 (Substitute) BioChemica

Mixture of 15 homologues
®trademark of Shell

Specifications
Assay ..... min. 99 %
Heavy metals ..... max. 0.005 %
pH (1 %; H_2O) 6.0-7.5
Chloride ..... max. 0.05 %
Sulfate ..... max. 0.01 %

Code	Packaging
A1694,0250	250 ml
A1694,0500	500 ml

Nonidet® P40 (Substitute) solution 10 % peroxide-free

CS 38220000

Liquid

WGK 2
Storage 2-8 °C
Storage under argon

Warning



H318 H412

A2239 Nonidet® P40 (Substitute) solution 10 % peroxide-free

Aqueous solution
®trademark of Shell

Specifications
Assay ..... approx. 10 %
Peroxides ..... max. 0.0001 %

Code	Packaging
A2239,0025	25 ml
A2239,0100	100 ml

n-Nonyl-β-D-Maltoside

$C_{21}H_{40}O_{11}$
M = 468.41 g/mol
CS 29389090

Solid

Storage 2-8 °C

A6814 *n*-Nonyl-β-D-Maltoside BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 1 %, H_2O ..... 54-56°
Solubility (10 %; H_2O) ..... clear, colorless
α-Isomere (HPLC) ..... max. 0.01 %
n-Nonanol (HPLC) ..... max. 0.001 %
A (1 cm/1 % in water HPLC grade)
at 280 nm ..... max. 0.04

Code	Packaging
A6814,0005	5 g

НеваРеактив

Novobiocin Sodium Salt

$C_{31}H_{35}N_2NaO_{11}$
M = 634.62 g/mol
CAS 1476-53-5
EINECS 216-023-6
CS 29419000

Melting Point ..... 220 °C
Solid

Storage protected from light
Storage 2-8 °C

Warning



H317 H319

A1944 Novobiocin Sodium Salt BioChemica

Specifications
Assay (from N) .....min. 95 %
α25 °C/D; 5 %, MeOH/HCl .....-50 to -58°
Activity .....min. 850 µg/mg
Sulfated ash .....max. 15 %
Water .....max. 5 %

Code	Packaging
A1944,0010	10 g
A1944,0100	100 g
A1944,0250	250 g
A1944,0500	500 g
A1944,1000	1 kg

NSC 381866 see Bafilomycin A1

NTA see Nitrilotriacetic Acid

Nuclear Fast Red (C.I. 60760)

4-Amino-9,1-Dihydro-1,3-Dihydroxy-9,1-Dioxo-2-Anthracenesulfonic Acid Sodium Salt

$C_{14}H_8NNaO_7S$
M = 357.27 g/mol
CAS 6409-77-4
EINECS 229-088-0
CS 32041900

Solubility ..... 1 g/L (H_2O)
Solid

WGK 2
Storage RT

A8020 Nuclear Fast Red (C.I. 60760) for microscopy

Specifications
λ_{max1} (DMSO) ..... 516-526 nm
λ_{max2} (DMSO) ..... 550-560 nm
Identity (TLC) ..... passes test

Code	Packaging
A8020,0005	5 g
A8020,0025	25 g

Nucleic Acid decontamination reagent see DNA-ExitusPlus™

Nucleic Acid Gelfiltration Mini Spin Columns see DextraSEC Mini-spinNA Desalt (G-50)

Nutrient Agar

CS 38220000

Solid

WGK 1
Storage RT

A3351 Nutrient Agar

Specifications
pH before autoclaving ..... approx. 7.4 (20 °C)

Composition:
Agar ..... 13.0 g/L
Peptones .....11.0 g/L
Sodium Chloride .....5.0 g/L

Code	Packaging
A3351,0500	500 g

Nutrient Agar, DEV

DEV-Nutrient Agar

CS 38220000

Solid

WGK 1
Storage RT

A5626 Nutrient Agar, DEV

Specifications
pH before autoclaving ..... approx. 7.3 (20 °C)

Composition:
Agar ..... 18.0 g/L
Meat extract ..... 10.0 g/L
Meat peptone .....10.0 g/L
Sodium Chloride .....5.0 g/L

Code	Packaging
A5626,0500	500 g

Nystatin 2-hydrate

Fungicidin, Mycostatin

$C_{47}H_{75}NO_{17} \cdot 2H_2O$
M = 962.10 g/mol
CAS 1400-61-9
EINECS 215-749-0
CS 29419000

Solid

Storage RT
Storage protected from light

A3811 Nystatin 2-hydrate BioChemica

Specifications
Activity .....min. 4400 I.U./mg
Heavy metals (as Pb) ..... max. 0.002 %
Identity (UV) ..... passes test

Loss on drying .....max. 5 %
Sulfated ash .....max. 3.5 %

Code	Packaging
A3811,0005	5 g
A3811,0025	25 g

Ochratoxin A

(R)-N-[(5-Chloro-3,4-Dihydro-8-Hydroxy-3-Methyl-1-oxo-1H-2-Benzopyran-7-yl)-Carbonyl]-L-Phenylalanine

Origin from *Aspergillus ochraceus*

$C_{20}H_{18}ClNO_6$
M = 403.81 g/mol
CAS 303-47-9
CS 29322090

Melting Point ..... 105-110 °C
Solid

UN3462
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage 2-8 °C

Danger



H300 H351 H413

A7690 Ochratoxin A BioChemica

Specifications
Assay (HPLC) ..... min. 97 %

λ_{max} ..... 215, 333 nm
Solubility (5 mg/ml MeOH) ..... clear, yellowish

Code	Packaging
A7690,0005	5 mg

Octadecanoic Acid see Stearic Acid

Octadecanoic Acid Magnesium Salt see Magnesium Stearate

n-Octane

C_8H_{18}
M = 114.23 g/mol
CAS 111-65-9
EINECS 203-892-1
CS 29011000
Index Nr. 601-009-00-8

Melting Point ..... -56.8 °C
Boiling Point ..... 125.7 °C
Density ..... 0.703 kg/l
Solubility ..... in water 0.1 g/l at 20 °C
Refractive Index n20/D 1.3974
Liquid

UN1262
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H225 H315 H304 H336 H410

163520 n-Octane, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test

Density 20/4 ..... 0.701-0.705
Water (H_2O) ..... 0.02 %

Code	Packaging
163520.1611	1000 ml

iso-Octane see Isooctane

1-Octane Sulfonic Acid Sodium Salt

Sodium 1-Octanesulfonate

$C_8H_{17}NaO_3S$
M = 216.28 g/mol
CAS 5324-84-5
EINECS 226-195-4
CS 29041000

Melting Point ..... > 300 °C
Solubility ..... Soluble in water.
Solid

WGK 2
Storage RT

Warning



H319 H315

363995 1-Octane Sulfonic Acid Sodium Salt for HPLC

For ion pair chromatography

Specifications
Minimum assay (Acidim.) calc. a.d.s. ..... 99.0 %
Identity ..... IR passes test

Maximum limit of impurities
Water (H_2O) ..... 2 %
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 200 nm ..... ≥ 70 %
Transmittance at 220 nm ..... ≥ 90 %
Transmittance at 250 nm ..... ≥ 98 %

Code	Packaging
363995.1605	10 g
363995.1606	25 g

Octanoic Acid

Caprylic Acid

CH_3-$(CH_2)_6$-COOH
M = 144.21 g/mol
CAS 124-07-2
EINECS 204-677-5
CS 29159070

Melting Point ..... 16.5 °C
Boiling Point ..... 239 °C
Density ..... 0.910 kg/l
Solubility ..... in water 0.68 g/l at 20 °C
Refractive Index n40/D 1.4285
Liquid

UN3265
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314

192786 Octanoic Acid (BP, Ph. Eur.) pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test
Density 20/20 ..... 0.909-0.912

Maximum limit of impurities
Residue on ignition (as SO_4) ..... 0.1 %
Appearance:
Clear ..... = < Reference suspension I or = < 3NTU
Color ..... = < Reference solution Y5
Related substances (G.C.)
Individual ..... 0.3 %
Total ..... 0.5 %
Residual solvents (Ph. Eur.7.0): excluded by manufacturing process.
Water (H_2O) ..... 0.7 %

Heavy metals (as Pb) ..... 10 ppm

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
192786.1215	10 l
192786.0716	25 l

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

1-Octanol

Caprylic Alcohol, n-Octyl Alcohol

$C_8H_{18}O$
M = 130.23 g/mol
CAS 111-87-5
EINECS 203-917-6
CS 29051685

Melting Point ..... -16 °C
Boiling Point ..... 195 °C
Density ..... 0.825 kg/l
Refractive Index n20/D 1.4291
Liquid

WGK 1
Storage RT

Warning



H319 H315 H412

163386 1-Octanol, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 0.824-0.826
Water (H_2O) ..... 0.1 %

Code	Packaging
163386.1211	1000 ml
163386.1611	1000 ml
163386.1214	5 l

Octanoyl-N-methylglucamide see MEGA-8

n-Octyl-β-D-Glucopyranoside

Octylglucoside, OG

$C_{14}H_{28}O_6$
M = 292.38 g/mol
CAS 29836-26-8
EINECS 249-887-8
CS 29400000

Melting Point ..... 98-103 °C
Solid

Storage 2-8 °C

A1010 *n*-Octyl-β-D-Glucopyranoside BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 5 %, H_2O ..... -33° ± 2°
Identity (IR) ..... passes test

Code	Packaging
A1010,0001	1 g
A1010,0005	5 g
A1010,0010	10 g
A1010,0025	25 g
A1010,0100	100 g
A1010,1000	1 kg

n-Octyl-β-D-Thioglucopyranoside

Octylthioglucoside

$C_{14}H_{28}O_5S$
M = 308.44 g/mol
CAS 85618-21-9
CS 29329900

Melting Point ..... 128 °C
Solid

Storage 2-8 °C

A1145 *n*-Octyl-β-D-Thioglucopyranoside BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 1 %, MeOH ..... -52 to -54°
Solubility (8 %; H_2O) ..... clear, colorless
α-Isomer (HPLC) ..... max. 0.01 %
n-Octanethiol (HPLC) ..... max. 0.001 %

A (1 cm/0.5 %, water HPLC grade)
at 260 nm ..... max. 0.25

Code	Packaging
A1145,0005	5 g
A1145,0500	500 g
A1145,1000	1 kg
A1145,2000	2 kg

Octylglucoside see n-Octyl-β-D-Glucopyranoside

Octylthioglucoside see n-Octyl-β-D-Thioglucopyranoside

Oenin Chloride

Malvidin-3-Glucoside

Origin from *Vitis vinifera*

$C_{23}H_{25}ClO_{12}$
M = 528.88 g/mol
CAS 7228-78-6
EINECS 230-631-9
CS 29389090

Solid

Storage -20 °C

A8731 Oenin Chloride pure

Specifications
Assay ..... min. 85 %

Code	Packaging
A8731,0100	100 mg

OG see n-Octyl-β-D-Glucopyranoside

OGA Agar (Base) see OGYE Agar Base (Dehydrated Culture Media) for microbiology

OGY Aga see OGYE Agar Base (Dehydrated Culture Media) for microbiology

НеваРеактив

Oleic Acid

(Z)-9-Octadecenoic Acid

$C_{18}H_{34}O_2$
M = 282.47 g/mol
CAS 112-80-1
EINECS 204-007-1
CS 38231200

Melting Point ..... 4 °C
Boiling Point ..... 286 °C
Density ..... 0.890 kg/l
Solubility ..... Insoluble in water
Refractive Index n18/D 1.463
Liquid

WGK 1
Storage away from direct light.

Warning



H319 H335 H315

142659 Oleic Acid (Ph. Eur.) pure, pharma grade

Specifications
Assay (G.C.) ..... 65.0-88.0 %
Identity ..... IR passes test

Maximum limit of impurities
Appearance (< Y1 or BY1) ..... passes test
Residue on ignition (as SO_4) ..... 0.1 %
Acidity value 195-204
Iodine value 89-105
Peroxide value 10.0
Animal origin.
Non-added stabilizers.
Residual solvents (Ph. Eur.) ..... passes test
Composition of fatty acids:
Myristic acid ..... 5.0 %
Palmitic acid ..... 16.0 %
Palmitoleic acid ..... 8.0 %
Stearic acid ..... 6.0 %
Linoleic acid ..... 18.0 %
Linolenic acid ..... 4.0 %
Fatty acids with chain length greater than C18 ..... 4.0 %
Margaric acid ..... 4.0 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
142659.1611	1000 ml
142659.1612	2,5 l
142659.0716	25 l

Oleuropein

Origin from *Olea europaea*

$C_{25}H_{32}O_{13}$
M = 540.52 g/mol
CAS 32619-42-4
CS 29420000

Solid

Storage 2-8 °C

A5309 Oleuropein for HPLC

Specifications
Assay ..... min. 98 %

Code	Packaging
A5309,0020	20 mg

A6909 Oleuropein pure

Specifications
Assay ..... min. 90 %

Code	Packaging
A6909,0500	500 mg

Orange III see Methyl Orange solution 0.1 %

Orange Serum Agar

CS 38220000

Solid

WGK 1
Storage RT

A4816 Orange-Serum Agar

Specifications
pH before autoclaving ..... approx. 5.5 (20 °C)

Composition:
Agar ..... 15.0 g/L
Buffer ..... 3.0 g/L
Glucose ..... 4.0 g/L
Orange Serum (solid form) ..... 5.0 g/L
Peptones ..... 13.0 g/L

Code	Packaging
A4816,0500	500 g

Orcein

Natural Red 28

CAS 1400-62-0
EINECS 215-750-6
CS 32030010

Solubility ..... in water 10 g/l
Solubility ..... in alcohol 1 g/l
Solid

Storage RT

251324 Orcein for clinical diagnosis

For microscopy, chromosome staining

Specifications
Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 0.98-1.18
A 1 %, 1 cm, λ_{max} ..... > 525-625
λ_{max} ABS in NaOH 0.01 mol/l ..... 575-580 nm
T.L.C. ..... passes test

Maximum limit of impurities
Water ..... < 5 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0001 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.005 %
Hg ..... 0.0001 %
Mn ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Se ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
251324.1604	5 g
251324.1606	25 g

Orcein solution A hydroacetic-hydrochloric solution

Natural Red 28

CS 32030010

Density ..... 1.062 kg/l
Liquid

UN1760
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H314

251993 Orcein solution A hydroacetic-hydrochloric solution for clinical diagnosis

For microscopy, chromosome staining

Composition:
Orcein ..... 2.0 g
Acetic Acid ..... 45.8 ml
Hydrochloric Acid 1 mol/l ..... 8.3 ml
Water ..... 45.8 ml

Code	Packaging
251993.1208	100 ml

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

Orcein solution B hydroacetic solution

Natural Red 28

CS 32030010

Density .....1.065 kg/l
Liquid

UN1760
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H314

251994 Orcein solution B hydroacetic solution for clinical diagnosis

For microscopy, chromosome staining

Composition:
Orcein ..... 2.0 g
Acetic Acid .....55 ml
Water .....55 ml

Code	Packaging
251994.1208	100 ml

Orcinol see 3,5-Dihydroxytoluene 1-hydrate

Orientosid see Vitexin

L-Ornithine Hydrochloride

L-2,5-Diaminovaleric Acid Hydrochloride

$C_5H_{12}N_2O_2 \cdot HCl$
M = 168.62 g/mol
CAS 3184-13-2
EINECS 221-678-6
CS 29224985

Solubility ..... 100 g/L (H_2O)
Solid

Storage RT

A3450 L-Ornithine Hydrochloride BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) .....min. 99 %
α20 °C/D; 4 %, 6 M HCl .....23-25°
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Other amino acids .....max. 0.5 %
Ammonium ..... max. 0.02 %
Sulfate ..... max. 0.02 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.06
280 nm ..... max. 0.06

Code	Packaging
A3450,0050	50 g
A3450,0100	100 g
A3450,0500	500 g
A3450,1000	1 kg

A1343 L-Ornithine Hydrochloride (DAB) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc
on dried subst.) ..... 99.0-102.0 %
α20 °C/D; 4 %, 6 M HCl .....23-25°
Appearance of solution ..... passes test
Heavy metals (as Pb) .....max. 0.001 %
Identity .....passes test
Loss on drying .....max. 0.5 %
pH (2.5 %; H_2O) 5.0-6.0
Sulfated ash .....max. 0.1 %
Ninhydrin positive substances .....max. 0.5 %
Ammonium .....max. 0.02 %
Sulfate .....max. 0.02 %
Fe .....max. 0.001 %

Code	Packaging
A1343,1000	1 kg

Osmium Tetroxide see Osmium(VIII) Oxide

Osmium(VIII) Oxide

Osmic Acid, Osmium Tetroxide

OsO_4
M = 254.20 g/mol
CAS 20816-12-0
EINECS 244-058-7
CS 28439090
Index Nr. 076-001-00-5

Solid

UN2471
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 3
Storage RT

Danger



H300+H310+H330 H314

252901 Osmium(VIII) Oxide for analysis, ACS

Specifications
Minimum assay ..... 99.8 %
Identity ..... passes test

Maximum limit of impurities
Insoluble matter in C_2H_5OH .....passes test

Code	Packaging
252901.0203	1 g

A7405 Osmium(VIII) Oxide for microscopy

Specifications
Identity ..... passes test

Code	Packaging
A7405,0001	1 g

Oxalaldehyde see Glyoxal solution 40 %

Oxalic Acid 2-hydrate

$(COOH)_2 \cdot 2H_2O$
M = 126.07 g/mol
CAS 6153-56-6
EINECS 205-634-3
CS 29171100
Index Nr. 607-006-00-8

Melting Point ..... 101 °C
Boiling Point ..... 150 °C
Solubility .....in water 102 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H312 H302

131041 Oxalic Acid 2-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Assay (Perm.) ..... 99.5-102.5 %
Identity .....IR passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Darkened substances
by H_2SO_4 ..... passes test
Residue on ignition (as SO_4) .....0.01 %
Chloride (Cl) ..... 0.0005 %

Nitrogen compounds (as N) .....0.001 %
Sulfate (SO_4) .....0.005 %
Heavy metals (as Pb) .....0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	2	Al	2	Cr	2
Au	2	B	2	Fe	2
Ba	15	Be	2	Ge	2
Bi	5	Ca	10	K	50
Cd	2	Co	2	Mn	2
Cu	5	Ga	2	In	2
Mg	10	Mo	2	Na	50
Ni	5	Pb	5	Sb	2
Si	5	Sr	2	Ti	2
Tl	2	V	2		

Code	Packaging
131041.1210	500 g
131041.1211	1000 g
131041.1214	5 kg
131041.0416	25 kg

141041 Oxalic Acid 2-hydrate pure

Specifications
Assay (Perm.) .....99 %
Identity .....IR passes test
Insoluble matter in H_2O .....0.01 %
Residue on ignition (as SO_4) .....0.05 %

Chloride (Cl) .....0.002 %
Nitrogen compounds (as N) .....0.005 %
Sulfate (SO_4) .....0.01 %
Heavy metals (as Pb) .....0.001 %
Ca .....0.005 %

Cu .....0.001 %
Fe .....0.001 %
Mg .....0.005 %
Ni .....0.001 %
Pb .....0.001 %

Code	Packaging
141041.1210	500 g
141041.1211	1000 g
141041.0416	25 kg

Oxalic Acid 2-hydrate solution 19 g/l

$C_2H_2O_4 \cdot 2H_2O$
M = 126.07 g/mol
CAS 6153-56-6
EINECS 205-634-3
CS 29171100
Index Nr. 607-006-00-8

Density .....1.006 kg/l
Liquid

WGK 1
Storage RT

Warning



H312 H302

286452 Oxalic Acid 2-hydrate solution 19 g/l

For Swan silicometers

Composition:
Oxalic Acid 2-hydrate ..... 19.2 g
Water (s.q.m) ..... 1000 ml

Code	Packaging
286452.1215	10 l

Oxalic Acid 0.5 mol/l (1N)

$C_2H_2O_4 \cdot 2H_2O$
M = 126.07 g/mol
CAS 6153-56-6
EINECS 205-634-3
CS 29171100
Index Nr. 607-006-00-8

Density .....1.019 kg/l
Liquid

WGK 1
Storage RT

Warning



H312 H302

181042 Oxalic Acid 0.5 mol/l (1N) volumetric solution

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181042.1211	1000 ml

Oxalic Acid 0.05 mol/l (0.1N)

$C_2H_2O_4 \cdot 2H_2O$
M = 126.07 g/mol
CAS 6153-56-6
EINECS 205-634-3
CS 29171100

Density .....1.002 kg/l
Liquid

WGK 1
Storage RT

181043 Oxalic Acid 0.05 mol/l (0.1N) (Reag. USP) volumetric solution

Standardised against Potassium Permanganate 0.1N

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181043.1211	1000 ml

Oxalic Acid 0.005 mol/l (0.01N)

$C_2H_2O_4 \cdot 2H_2O$
M = 126.07 g/mol
CAS 6153-56-6
EINECS 205-634-3
CS 29171100

Density .....1.000 kg/l
Solubility ..... Soluble in water.

Storage RT

182812 Oxalic Acid 0.005 mol/l (0.01N) volumetric solution

Code	Packaging
182812.1211	1000 ml

Oxalic Acid Diethyl Ester see Diethyl Oxalate

HeBaPeaKTMB

Printed on FSC® certified paper from well managed forests

Oxaloacetic Acid

2-Oxosuccinic Acid

$C_4H_4O_5$
M = 132.07 g/mol
CAS 328-42-7
EINECS 206-329-8
CS 29183000

Solid

UN3261
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage 2-8 °C

Danger



H314

A2201 Oxaloacetic acid BioChemica

Specifications
Assay (titr.) ..... min. 97 %
Loss on drying ..... max. 0.5 %
pH (5 %; H_2O) 1-2

Code	Packaging
A2201,0005	5 g

OXI-OLEO-TEST

CS 38220000

UN2924
Class/PG 3(8)/II
ADR 3(8)/II · IMDG 3(8)/II · IATA 3(8)/II
Storage RT

Danger



H225 H332 H302 H314 H318 H336

175145 OXI-OLEO-TEST

For determination of the degree of deterioration of fried fats and oils. 60 test.

Specifications
Comprised of:
2x100 ml OXI-OLEO-TEST Reagent 1
1x20 ml OXI-OLEO-TEST Reagent 2
1 Plastic case
1 Plastic syringe of 5 ml
2 Test tubes with stopper
1 Scoop
1 Colour scale
1 Instructions sheet

Code	Packaging
175145.0922	pack

2-Oxobutyric Acid Sodium Salt see α-Ketobutyric Acid Sodium Salt

2-Oxoglutaric Acid see α-Ketoglutaric Acid

Oxytetracycline Glucose Yeast Agar Base see OGYE Agar Base (Dehydrated Culture Media) for microbiology

Oxytetracycline Hydrochloride

OTC, 5-Hydroxytetracycline Hydrochloride

$C_{22}H_{24}N_2O_9 \cdot HCl$
M = 496.90 g/mol
CAS 2058-46-0
EINECS 218-161-2
CS 29413000

Solid

Storage RT
Storage protected from light

Warning



H302+H312+H332

A5257 Oxytetracycline Hydrochloride

Specifications
Assay (HPLC) ..... min. 95 %
Water ..... max. 2 %

Code	Packaging
A5257,0010	10 g
A5257,1000	1 kg

PABA see 4-Aminobenzoic Acid

Paclitaxel see Taxol

PALCAM Listeria Selective Agar see PALCAM Listeria Agar Base (Dehydrated Culture Media) for microbiology

Palladiumdichloride see Palladium(II) Chloride

Palladium(II) Chloride

Palladiumdichloride

$PdCl_2$
M = 177.31 g/mol
CAS 7647-10-1
CS 28439090

Solid

UN1759
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H315 H317 H319

142774 Palladium(II) Chloride pure

Specifications
Assay ..... min. 59 % Pd
Co ..... max. 0.0002 %
Cu ..... max. 0.002 %
Fe ..... max. 0.001 %
Ni ..... max. 0.0001 %
Pb ..... max. 0.0002 %
Zn ..... max. 0.0002 %

Code	Packaging
142774.1204	5 g
142774.1205	10 g

Palmitic Alcohol see Cetyl Alcohol

Palmityltrimethylammoniumbromid see Cetyltrimethylammonium Bromide

Pancreatin

Origin from porcine pancreas

CAS 8049-47-6
EINECS 232-468-9
CS 35079090

Solid

WGK 1
Storage 2-8 °C

Danger



H315 H317 H319 H334 H335

A0585 Pancreatin

Specifications
Loss on drying ..... max. 5 %
Amylase ..... min. 22500 FIP-U/g
Lipase ..... min. 22500 FIP-U/g
Protease ..... min. 1050 FIP-U/g

Code	Packaging
A0585,0100	100 g
A0585,0250	250 g
A0585,0500	500 g

D-Pantothenic Acid Calcium Salt

Calcium D-Pantothenate

$C_{18}H_{32}CaN_2O_{10}$
M = 476.54 g/mol
CAS 137-08-6
EINECS 205-278-9
CS 29362400

Solid

Storage RT

A2088 D-Pantothenic Acid Calcium Salt BioChemica

Specifications
Assay (titr.) ..... min. 98 %
α20 °C/D; 5 %, H_2O ..... 25-29°
Heavy metals (as Pb) ..... max. 0.002 %
Loss on drying ..... max. 3 %
pH (5 %; H_2O) 6.5-8.0

Code	Packaging
A2088,0025	25 g
A2088,0100	100 g

A7213 D-Pantothenic Acid Calcium Salt (Ph. Eur., USP) pure, pharma grade

Specifications
Assay (titr., calc on dried subst.) ..... 98.0-101.0 %
α20 °C/D; 5 %, H_2O ..... 25.5-27.5°
Alkalinity ..... passes test
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.002 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 3 %
Nitrogen (Kjeldahl, calc on dried subst.) ..... 5.7-6.0 %
pH (5 %; H_2O) 6.8-8.0
3-Aminopropionic acid ..... max. 0.5 %
Chloride ..... max. 0.02 %
Ca (calc on dried subst.) ..... 8.2-8.6 %

Code	Packaging
A7213,0100	100 g
A7213,0500	500 g

Papain

Origin from *Carica papaya*

M = ~ 23000 g/mol
CAS 9001-73-4
EINECS 232-627-2
CS 35079090
Index Nr. 647-007-00-0

Solubility ..... soluble (H_2O)
Solid

WGK 1
Storage 2-8 °C

Danger



H315 H319 H334 H335

A3824 Papain

Specifications
Activity (BAEE) ..... approx. 2 U/mg
Activity Casein (pH 6, 40 °C) ..... > 30000 USP U/mg
Water (K.F.) ..... max. 6 %

Code	Packaging
A3824,0025	25 g
A3824,0100	100 g

Papanicolaou's Solution EA 50

CS 32041600

Density ..... 0.817 kg/l
Liquid

UN1992
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 1
Storage between 15 and 20 °C.

Danger



H225 H331 H311 H301 H370

253594 Papanicolaou's Solution EA 50 for clinical diagnosis

For cytology

Composition:
Light Green SF yellowish ..... 58 mg
Bismark Brown R ..... 40 mg
Eosin Yellowish ..... 0.225 g
Phosphotungstic Acid hydrate ..... 0.17 g
Acetic Acid glacial ..... 0.1 g
Methanol ..... 93 ml
Water ..... 7 ml

Code	Packaging
253594.1610	500 ml
253594.1611	1000 ml
253594.1612	2.5 l

Papanicolaou's Solution OG 6

CS 32041200

Density ..... 0.833 kg/l
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225

253892 Papanicolaou's Solution OG 6 for clinical diagnosis

For cytology

Composition:
Orange G ..... 0.2 g
Phosphotungstic Acid hydrate ..... 0.02 g
Ethanol absolute ..... 88.5 ml
Water ..... 11.5 ml

Code	Packaging
253892.1610	500 ml
253892.1611	1000 ml
253892.1612	2.5 l

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Paraffin Cleaner

CS 38220000

Melting Point ..... - 10 °C
Boiling Point ..... 96 °C
Density ..... 0.766 kg/l
Solubility ..... in water 0.1 g/l at 20 °C
Liquid

UN1993
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK nwg
Storage RT

Danger



H318 H304 H226 H413

256876 Paraffin Cleaner for clinical diagnosis

Microtomes cleaner used in the processing of human tissue

Composition:
Isoparaffin H ..... 425 ml
1-Propanol ..... 75 ml

Code	Packaging
256876.3408	6X100ml
256876.0922	15x100ml

Paraffin liquid

Vaseline Oil, Mineral Oil

CAS 8042-47-5
EINECS 232-455-8
CS 27101985

Liquid

WGK 1
Storage RT

Danger



H304

A2135 Paraffin Oil light for molecular biology

Specifications
Density (d 20 °C/4 °C) 0.810-0.875
Dyn. viscosity (20 °C) ..... 25-80 mPa · s
Solid paraffin ..... passes test

Code	Packaging
A2135,0100	100 ml
A2135,0500	500 ml

A4043 Paraffin Oil heavy white oil

Specifications
Acidic/alkaline react. subst. ..... passes test

Aromatic polycyclic hydrocarbons ..... passes test
Behaviour against H_2SO_4 ..... passes test

Density (d 20 °C/4 °C) ..... approx. 0.88
Dyn. viscosity (20 °C) ..... 110-230 mPa · s

Code	Packaging
A4043,0500	500 ml

Paraffin M.P. ~ 42-44 °C pieces

CAS 8002-74-2
EINECS 232-315-6
CS 27122090

Melting Point ..... ~ 42-44 °C
Boiling Point ..... 350 °C
Solubility ..... Insoluble in water
Solid

WGK nwg
Storage Not recommended in areas with a very hot climate

213206 Paraffin M.P. ~ 42-44 °C pieces technical grade

Near to corporal temperature

Specifications
Acidity or alkalinity ..... passes test
Residue on ignition (as SO_4) ..... 0.05 %

Code	Packaging
213206.0911	1000 g
213206.0914	5 kg

Paraffin M.P. 51-53 °C pellets

CAS 8002-74-2
EINECS 232-315-6
CS 27122090

Melting Point ..... 53 °C
Boiling Point ..... 350 °C
Solubility ..... Insoluble in water
Solid

WGK nwg
Storage away from direct light.

143209 Paraffin M.P. 51-53 °C pellets (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to Pharmacopoeias: ..... passes test
Melting range ..... 51-55 °C

Maximum limit of impurities
Acidity or alkalinity ..... passes test

Insoluble matter in C_8H_{10} ..... passes test
Darkened substances by H_2SO_4 ..... passes test
Residue on ignition ..... 0.05 %
Sulfur compounds ..... passes test
Sulfate (SO_4) ..... 0.015 %
Reaction ..... passes test
Residual solvents (Ph. Eur./USP) . passes test

Polycyclic aromatic hydrocarbons passes test
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
143209.1211	1000 g
143209.0416	25 kg

253209 Paraffin M.P. 51-53 °C pellets for clinical diagnosis

For histology

Specifications
Identity ..... IR passes test

Melting range ..... 51-53 °C

Maximum limit of impurities
Acidity or alkalinity ..... passes test
Insoluble matter in C_8H_{10} ..... passes test

Code	Packaging
253209.1211	1000 g

Paraffin M.P. 52-54 °C pellets

CAS 8002-74-2
EINECS 232-315-6
CS 27122090

Melting Point ..... 52-54 °C
Boiling Point ..... 350 °C
Solid

WGK nwg
Storage RT

147114 Paraffin M.P. 52-54 °C pellets (Ph. Eur.) pure, pharma grade

Specifications
Acidic/alkaline react. subst. ..... passes test
Identity ..... passes test
Solidification point ..... 52-54 °C

Aromatic polycyclic hydrocarbons ..... passes test
Sulfate ..... max. 0.015 %

Code	Packaging
147114.1211	1 kg

Paraffin M.P. 55-58 °C plasticized + DMSO pellets

CAS 8002-74-2
EINECS 232-315-6
CS 27122090

Melting Point ..... 55-58 °C
Boiling Point ..... > 350 °C
Solubility ..... Insoluble in water
Solid

WGK nwg
Storage RT

256993 Paraffin M.P. 55-58 °C plasticized + DMSO pellets for clinical diagnosis

Embedding medium for preparation of fixed and dehydrated human tissue samples

Specifications
Identity ..... IR passes test

Melting range ..... 55-58 °C

Maximum limit of impurities
Acidity or alkalinity ..... passes test
Insoluble matter in C_8H_{10} ..... passes test

Code	Packaging
256993.0933	6x1 kg
256993.0415	10 kg

Paraffin M.P. 56-58 °C pellets

CAS 8002-74-2
EINECS 232-315-6
CS 27122090

Melting Point ..... 58 °C
Boiling Point ..... 350 °C
Solubility ..... Insoluble in water
Solid

Storage RT

253211 Paraffin M.P. 56-58 °C pellets for clinical diagnosis

Embedding medium for preparation of fixed and dehydrated human tissue samples

Specifications
Identity ..... IR passes test
Melting range ..... 56-58 °C

Maximum limit of impurities
Acidity or alkalinity ..... passes test
Insoluble matter in C_8H_{10} ..... passes test

Code	Packaging
253211.0914	5 kg

Paraffin M.P. 58-60 °C pellets

CAS 8002-74-2
EINECS 232-315-6
CS 27122090

Melting Point ..... 58-60 °C
Solid

WGK nwg
Storage RT

147065 Paraffin M.P. 58-60 °C pellets (Ph. Eur.) pure, pharma grade

Specifications
Acidic/alkaline react. subst. ..... passes test
Identity ..... passes test
Solidification point ..... 58-60 °C

Aromatic polycyclic hydrocarbons ..... passes test
Sulfate ..... max. 0.015 %

Code	Packaging
147065.1211	1 kg
147065.0416	25 kg

Paraffin Oil see Vaseline Oil d(20/4)= 0.87

Paraformaldehyde

p-Formaldehyde, Polyoxymethylene

$(HCHO)_n$
M = 30.03 g/mol
CAS 30525-89-4
EINECS 200-001-8
CS 29126000

Melting Point ..... 120-170 °C
Density ..... 1.4 kg/l
Solid

UN2213
Class/PG 4.1/III
ADR 4.1/III · IMDG 4.1/III · IATA 4.1/III
WGK 2
Storage 2-8 °C

Warning



H228 H302 H315 H317 H319 H335 H351 H302+H332

141451 Paraformaldehyde (DAC) pure, pharma grade

Specifications
Assay (Acidim.) ..... 95.0-100.5 %

Maximum limit of impurities
Acidity or alkalinity ..... passes test
Insoluble matter in NH_4OH ..... passes test
Residue on ignition (as SO_4) ..... 0.1 %

Heavy metals (as Pb) ..... 0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141451.1211	1000 g
141451.0416	25 kg

A3813 Paraformaldehyde BioChemica

Specifications
Assay (titr.) ..... min. 95 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... max. 0.1 % (after hydrolysation)
Sulfated ash ..... max. 0.1 %

Code	Packaging
A3813,0250	250 g
A3813,0500	500 g
A3813,1000	1 kg
A3813,5000	5 kg
A3813,9025	25 kg

Paraformaldehyde tablets ~ 1g

p-Formaldehyde, Polyoxymethylene

$(HCHO)_n$
M = 30.03 g/mol
CAS 30525-89-4
EINECS 200-001-8
CS 29126000

Melting Point ..... 160-165 °C
Solubility ..... Very slightly soluble in water.
Solid

UN2213
Class/PG 4.1/III
ADR 4.1/III · IMDG 4.1/III · IATA 4.1/III
WGK 2
Storage RT

Warning



H302 H319 H335 H315 H351 H317

211511 Paraformaldehyde tablets ~ 1g technical grade

Specifications
Assay (Acidim.) applied to basis matter ..... 95 %
Acidity or alkalinity ..... passes test
Excipient ..... -1 %

Code	Packaging
211511.1209	250 g
211511.1211	1000 g
211511.0416	25 kg

Parthenolide

Origin from *Chrysanthemum parthenium*

$C_{15}H_{20}O_3$
M = 248.32 g/mol
CAS 20554-84-1
CS 29329900

Melting Point ..... 112-115 °C
Solubility
..... 5 mg/ml Dichloromethane clear, colorless
Solid

Storage 2-8 °C

A7789 Parthenolide BioChemica

Specifications
Assay (TLC) ..... approx. 98 %
Solubility (5 %; Dichloromethane) ..... clear, colorless

Code	Packaging
A7789,9010	10 g

PAS Kit

CS 38220000

Storage between 2-8 °C

Warning



H302

256676 PAS Kit for clinical diagnosis

Specifications
Comprised of:
1x30 ml PAS Kit Reagent A
1x30 ml PAS Kit Reagent B
1x30 ml PAS Kit Reagent C
1x30 ml PAS Kit Reagent D
1x30 ml PAS Kit Reagent E
1 Instructions sheet

Code	Packaging
256676.0922	Kit

Patent Blue V Calcium Salt (C.I. 42051)

$C_{54}H_{62}CaN_4O_{14}S_4$
M = 1159.42 g/mol
CAS 3536-49-0
EINECS 222-573-8
CS 32129000

Solid

Storage RT

A8187 Patent Blue V Calcium salt (C.I. 42051)

Specifications
Assay (titr.) ..... min. 85 %
Heavy metals (as Pb) ..... max. 0.004 %
In H_2O insol. matter ..... max. 0.20 %
Subsidiary dyes ..... max. 2.0 %
Unsulfonated primary aromatic amine ..... max. 0.01 %
As ..... max. 0.0003 %
Cd ..... max. 0.0001 %
Hg ..... max. 0.0001 %

Code	Packaging
A8187,0025	25 g

Patent Blue V solution 5 % w/v

CS 38220000

Density ..... 1.008 kg/l
Liquid

Storage RT

175723 Patent Blue V solution 5 % w/v

For Specified Risk Material staining

Composition:
Patent Blue V ..... 5 g
Water (s.q.m) ..... 100 ml

Code	Packaging
175723.1214	5 l

Patent Blue V solution 0.5 % w/v

CS 38220000

Density ..... 1.005 kg/l
Liquid

Storage RT

175630 Patent Blue V solution 0.5 % w/v

For Specified Risk Material staining

Composition:
Patent Blue V ..... 0.5 g
Water (s.q.m) ..... 100 ml

Code	Packaging
175630.1214	5 l

Patton and Reeder reagent see Calconcarboxylic Acid

Patulin

Expansine, Clavacin, Claviformin, Penicidin, Mycoin C3

Origin from *Penicillium expansum*

$C_7H_6O_4$
M = 154.12 g/mol
CAS 149-29-1
EINECS 205-735-2
CS 29419000

Melting Point ..... 105-111 °C
Solubility ..... 10 mg/ml DMSO clear, colorless
Solid

UN3462
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage -20 °C
Storage protected from light

Danger



H300 H315

A7910 Patulin BioChemica

Specifications
Assay (HPLC) ..... approx. 98 %
λ_{max} ..... 276 nm

Code	Packaging
A7910,0005	5 mg

PBS buffer (Dulbecco's) - Powder

Phosphate buffered saline

CS 38210000

Storage RT

A0965 PBS buffer (10X Dulbecco's) - Powder

Composition:
di-Sodium hydrogen phosphate anhydrous ..... 11500.00 mg/L
Potassium chloride .....2000.00 mg/L
Potassium dihydrogen phosphate .....2000.00 mg/L
Sodium chloride .....80000.00 mg/L

Code	Packaging
A0965,9010	10 L
A0965,9050	50 L
A0965,9100	100 L

A0964 PBS buffer (1X, Dulbecco's) - Powder

Specifications
Osmolality .....262-290 mOsm/kg H_2O
pH (25 °C) 7.2-7.8

Composition:
di-Sodium hydrogen phosphate anhydrous .....1150.00 mg/L
Potassium chloride .....200.00 mg/L
Potassium dihydrogen phosphate .....200.00 mg/L
Sodium chloride .....8000.00 mg/L

Code	Packaging
A0964,9010	10 L
A0964,9050	50 L
A0964,9100	100 L
A0964,91000	1000 L

PBS tablets pH 7.2 (for 1 L)

Tablets for preparation of 1 L phosphate buffered saline (PBS)
CS 38220000

Storage RT

A9202 PBS tablets pH 7.2 (for 1 L)

Specifications
Ready to use in minutes
Autoclaveable
pH (25 °C): 7.2 ± 0.05

Composition:
KCl .....2.7 mM
NaCl .....140 mM
Phosphate .....10 mM

Code	Packaging
A9202,0010	10 Tabs
A9202,0100	100 Tabs

PBS tablets pH 7.4 (for 1 L)

Tablets for preparation of 1 L phosphate buffered saline (PBS)
CS 38220000

Storage RT

A9201 PBS tablets pH 7.4 (for 1 L)

Specifications
Ready to use in minutes
Autoclaveable
pH (25 °C) .....7.4 ± 0,05

Composition:
KCl .....2.7 mM
NaCl .....140 mM
Phosphate .....10 mM

Code	Packaging
A9201,0010	10 Tabs
A9201,0100	100 Tabs

PBS tablets pH 7.4 (for 100 ml)

Tablets for preparation of 100 ml phosphate buffered saline (PBS)
CS 38220000

Storage RT

A9162 PBS tablets pH 7.4 (for 100 ml)

Specifications
Ready to use in minutes
Autoclaveable
pH (25 °C) .....7.4 ± 0.05

Composition:
KCl .....2.7 mM
NaCl .....140 mM
Phosphate .....10 mM

Code	Packaging
A9162,0100	100 Tabs

PBS tablets pH 7.4 (for 200 ml)

Tablets for preparation of 200 ml phosphate buffered saline (PBS)
CS 38220000

Storage RT

A9177 PBS tablets pH 7.4 (for 200 ml)

Specifications
Ready to use in minutes
Autoclaveable
pH (25 °C): 7.4 ± 0.05

Composition:
KCl .....2.7 mM
NaCl .....140 mM
Phosphate .....10 mM

Code	Packaging
A9177,0100	100 Tabs

PBS tablets pH 7.4 (for 500 ml)

Tablets for preparation of 500 ml phosphate buffered saline (PBS)
CS 38220000

Storage RT

A9191 PBS tablets pH 7.4 (for 500 ml)

Specifications
Ready to use in minutes
Autoclaveable
pH (25 °C): 7.4 ± 0.05

Composition:
KCl .....2.7 mM
NaCl .....140 mM
Phosphate .....10 mM

Code	Packaging
A9191,0012	12 Tabs
A9191,0100	100 Tabs

PBS tablets pH 7.4 (w/o potassium, for 1 L)

Tablets for preparation of 1 L phosphate buffered saline (PBS)
CS 38220000

Storage RT

A9166 PBS tablets pH 7.4 (w/o potassium, for 1 L)

Specifications
Ready to use in minutes
Autoclaveable
pH (25 °C): 7.4 ± 0.05

Composition:
NaCl .....140 mM
Phosphate .....10 mM

Code	Packaging
A9166,0010	10 Tabs

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

НеваРеактив

PCA see Plate Count Agar (Prepared Plate (∅ 90 mm)) for microbiology

PCR and qPCR 2X Hot-Start Master Mix see SuperHotTaq PCR Mastermix

PCR Cycler Validation Kits

CS 38220000

Storage 2-8 °C

A9742 PCR Cycler Validation Kit

For conventional PCR block cyclers

Code	Packaging
A9742,0002	2 Tests

A9801 qPCR Cycler Validation Kit

For real-time/qPCR thermal cyclers with optical unit

Code	Packaging
A9801,0002	2 Tests

qPCR Kit, DNA-free

Real Time-PCR Kit, Real Time-PCR Mastermix

CS 38220000

Storage -20 °C

A8514 qPCR Kit, DNA-free

available for 100 or 250 reactions

Specifications
Components of the mix

2.5X Mastermix (incl. $MgCl_2$, BSA, dNTPs), DNA-free
Taq-Polymerase, DNA-free
PCR grade water, DNA-free

SYBR® Green 10X staining solution, DNA-free
Bacterial
DNA .....not detectable (min. 40 PCR cycle)

Code	Packaging
A8514,0250	250 reac.

PCR Master Mixes

A9766 *Pfu* PCR Master Mix

CS 38220000

Storage -20 °C
Storage Avoid repeated freeze-thaw cycles.

Specifications
DNases .....not detectable
PCR: ..... performance tested

Code	Packaging
A9766,0200	200 reac.

A9734 *Taq* PCR Master Mix

CS 38220000

Storage -20 °C
Storage Avoid repeated freeze-thaw cycles.

Specifications
DNases .....not detectable
PCR: ..... performance tested

Code	Packaging
A9734,0200	200 reac.

A9815 Blue *Taq* PCR Master Mix

For direct loading of PCR product onto agarose gels. Contains a blue tracking dye for electrophoresis.

CS 38220000

Storage -20 °C
Storage Avoid repeated freeze-thaw cycles.

Specifications
DNases .....not detectable
PCR: ..... performance tested

Code	Packaging
A9815,0200	200 reac.

A9732 QuickGel PCR Master Mix

Ready to use 2X Master Mix for direct loading of fluorecent stained PCR products onto agarose gels, no further DNA staining required

CS 38220000

Storage -20 °C
Storage Avoid repeated freeze-thaw cycles.
Storage protected from light

Specifications
PCR: ..... performance tested

Code	Packaging
A9732,0100	100 reac.

A9737 SuperHot*Taq* PCR Master Mix

CS 38220000

Storage -20 °C
Storage Avoid repeated freeze-thaw cycles.

Specifications
DNases .....not detectable
PCR: ..... performance tested

Code	Packaging
A9737,0200	200 reac.
A9737,1000	1000 reac.

qPCR Mycoplasma Test Kit

qPCR test kit for the mycoplasma detection

CS 38220000

Storage 2-8 °C

A9019 qPCR Mycoplasma Test Kit

Specifications
...cts all of myoplasma species found in cell ...s
F... ...100 tests, respectively

Lyophilized PCR Mix for the detection of mycoplasma in cell culture by real-time/qPCR
Kit components
PCR Primer Mix) incl. primers, probes, nucleotides)

Positive template control
Reaction Buffer Solution
Water PCR grade
Internal control DNA

Code	Packaging
A9019,0025	25 Tests
A9019,0100	100 Tests

HeBaPeaKTMB

PCR-InfectoDetect Mixes DNA-free

CS 38220000

Storage -20 °C

A7732 PCR-InfectoDetect Mix DNA-free, all inclusive

Specifications
Based on detection with 16S rDNA primers (nucleotides 331-797 of the *E. coli* 16 S rRNA)
For 100 or 250 reactions, respectively
For the PCR detection and identification of bacteria
Components of the mix
2.5X Mastermix (incl. $MgCl_2$); incl. Primer *Taq*-Polymerase, DNA-free
PCR grade water, DNA-free
10X DNA staining solution
6X gel loading buffer
DNA size marker (100 bp ladder; pre-stained)

Code	Packaging
A7732,0100	100 reac.

Pectolinarigenin

5,7-Dihydroxy-4',6-Dimethoxyflavon

Origin from *Linaria vulgaris*

$C_{17}H_{14}O_6$
M = 314.30 g/mol
CAS 520-12-7
CS 29329900

Storage 2-8 °C

A8723 Pectolinarigenin for HPLC

Specifications
Assay (HPLC) .....min. 97 %

Code	Packaging
A8723,0010	10 mg

Pectolinarin

Pectolinarosid, Neolinarin

Origin from *Linaria vulgaris*

$C_{29}H_{34}O_{15}$
M = 622.58 g/mol
CAS 28978-02-1
CS 29329900

Storage 2-8 °C

A8734 Pectolinarin for HPLC

Specifications
Assay (HPLC) .....min. 98 %

Code	Packaging
A8734,0010	10 mg

Pectolinarosid see Pectolinarin

Pelargonidin Chloride

Origin from *Pelargonium zonale*

$C_{15}H_{11}O_5Cl$
M = 306.70 g/mol
CAS 134-03-3
CS 29329900

Storage 2-8 °C

A9647 Pelargonidin Chloride for HPLC

Specifications
Assay (HPLC) .....min. 97 %

Code	Packaging
A9647,0020	20 mg

Pelargonidin-3,5-Diglucoside Chloride

Salvinin, Pelargonin, Monardin, 3,5-Bis(glucosyloxy)-4',7-dihydroxyflavylium Chloride

Origin from *Pelargonium zonale*

$C_{27}H_{31}O_{15}Cl$
M = 630.97 g/mol
CAS 17334-58-6
CS 29389090

Storage 2-8 °C

A9557 Pelargonidin-3,5-Diglucoside Chloride for HPLC

Specifications
Assay (HPLC) .....min. 97 %

Code	Packaging
A9557,0010	10 mg

Pelargonidin-3-Glucoside Chloride

Origin from *Fragaria*

$C_{21}H_{21}O_{10}Cl$
M = 468.84 g/mol
CAS 18466-51-8
CS 29389090

Storage 2-8 °C

A9650 Pelargonidin-3-Glucoside Chloride for HPLC

Specifications
Assay (HPLC) .....min. 97 %

Code	Packaging
A9650,0010	10 mg

Pelargonin see Pelargonidin-3,5-Diglucoside Chloride

Penicidin see Patulin

Penicillin - Streptomycin (100X)

CS 38220000

WGK 2
Storage -20 °C

A8943 Penicillin - Streptomycin (100X) for cell culture

Stabilized, sterile filtrated, solution in 0.9 % NaCl

Specifications
Endotoxins ..... passes test

Composition:
Penicillin ..... 10000 U/ml
Streptomycin ..... 10 mg/ml

Code	Packaging
A8943,0100	100 ml

Penicillin G Potassium Salt

Benzylpenicillin Potassium Salt

$C_{16}H_{17}KN_2O_4S$
M = 372.48 g/mol
CAS 113-98-4
EINECS 204-038-0
CS 29411000

Solid

WGK 1
Storage RT

Warning



H317

A1837 Penicillin G Potassium Salt BioChemica

Specifications
Assay (HPLC) ..... min. 98 %
α20 °C/D; 1 %, H_2O ..... 285-295°
pH (5 %; H_2O) 5.5-7.5
Potency (calc. on dried substance) ..... min. 1440 U/mg
Water (K.F.) ..... max. 1 %

Code	Packaging
A1837,0010	10 g
A1837,0025	25 g
A1837,0100	100 g
A1837,1000	1 kg

A6998 Penicillin G Potassium Salt (Ph. Eur.) pure, pharma grade

Specifications
Assay (HPLC, dried subst.) ..... 96.0-102.0 %
α20 °C/D; 2 %, H_2O, dried subst. ..... 270-300°
Absorption ..... passes test
Identity ..... passes test
Loss on drying (105 °C) ..... max. 1.0 %
pH (10 %; H_2O) 5.5-7.5
Related subst. (HPLC) ..... passes test

Code	Packaging
A6998,0100	100 g

Penicillin G Sodium Salt

$C_{16}H_{17}N_2NaO_4S$
M = 356.37 g/mol
CAS 69-57-8
EINECS 200-710-2
CS 29411000

Solid

Storage RT

Danger



H317 H334

A7000 Penicillin G Sodium Salt (Ph. Eur.) pure, pharma grade

Specifications
Assay (HPLC, dried subst.) ..... 96.0-102.0 %
α20 °C/D; 2 %, H_2O, dried subst. ..... 285-310°
Absorption ..... passes test
Identity ..... passes test
Loss on drying (105 °C) ..... max. 1.0 %
pH (10 %; H_2O) 5.5-7.5
Related subst. (HPLC) ..... passes test
2-Ethylhexanoic acid ..... max. 0.5 %

Code	Packaging
A7000,0025	25 g

A2871 Penicillin G Sodium Salt

Specifications
Bacterial endotoxins ..... max. 0.16 I.U./mg
Assay (HPLC, anhydrous subst.) ..... 96.0-102.0 %
α20 °C/D; 2 %, H_2O ..... 285-310°
Loss on drying ..... max. 1.0 %
pH (3 %; H_2O, 20 °C) 5.5-7.5

Code	Packaging
A2871,5000	5 kg

n-Pentane

C_5H_{12}
M = 72.15 g/mol
CAS 109-66-0
EINECS 203-692-4
CS 29011000
Index Nr. 601-006-00-1

Melting Point ..... -129 °C
Boiling Point ..... 36 °C
Density ..... 0.626 kg/l (20 °C)
Refractive Index n20/D 1.3588
Liquid

UN1265
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage < 15 °C

Danger



EUH066 H225 H304 H336 H411

362006 n-Pentane for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 99.5 %
Density 20/4 ..... 0.624-0.628

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0003 %
Water (H_2O) ..... 0.005 %

Suitability for IR spectrometry: ..... passes test
Fluorescence at 254 nm (as quinine) ..... 1 ppb
Fluorescence at 365 nm (as quinine) ..... 1 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 195 nm (Cut off) ..... ≥ 10 %
Transmittance at 200 nm ..... ≥ 40 %
Transmittance at 210 nm ..... ≥ 70 %
Transmittance at 215 nm ..... ≥ 80 %
Transmittance at 220 nm ..... ≥ 90 %
Transmittance at 240-400 nm ..... ≥ 98 %

Data of interest in HPLC:
P' + 0.25 E 0.5
Rohrschneider Polarity 0.0
Eluotropic value e° (Al_2O_3) 0.00
Sol. H_2O in solv. at 20 °C 0.01
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
362006.1611	1000 ml
362006.1612	2.5 l

322006 n-Pentane for pesticide analysis

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity ..... IR passes test
Density 20/4 ..... 0.624-0.628

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.01 %
Signal ECD of pesticide (Lindane a DDT) (as Lindane) ..... 5 ng/l

Code	Packaging
322006.1612	2.5 l

122006 n-Pentane (Reag. USP, Ph. Eur.) for analysis

Specifications
Minimum assay (G.C.) .....99.0 %
Identity .....IR passes test
Density 20/4 ..... 0.624-0.628
Range of Boiling (> 95 % dist.) ..... 34-36 °C

Maximum limit of impurities
APHA colour 10
Acidity .....0.0005 meq/g
Non-volatile matter ..... 0.001 %

Darkened substances by H_2SO_4 ... passes test
Sulfur compounds (as S) .....0.002 %
Thiophene .....passes test
Water (H_2O) .....0.01 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Ca	0.5	Cd	0.05
As	0.05	Au	0.05	Co	0.02	Cr	0.02
B	0.02	Ba	0.1	Cu	0.02	Fe	0.1
Be	0.02	Bi	0.05	Ga	0.02	Ge	0.05
				Hg	0.05	In	0.05
				K	0.1	Li	0.05
				Mg	0.1	Mn	0.02
				Mo	0.02	Na	0.5
				Ni	0.02	P	0.2
				Pb	0.1		

Code	Packaging
122006.1611	1000 ml
122006.1612	2.5 l
122006.0314	5 l
122006.0616	25 l

142006 n-Pentane pure

Specifications
Assay (G.C.) .....98 %
Identity .....IR passes test
Density 20/4 ..... 0.624-0.628
Acidity .....0.001 meq/g
Non-volatile matter ..... 0.005 %
Sulfur compounds (as S) ..... 0.005 %
Isopentane (G.C.) .....1 %

Water (H_2O) .....0.02 %
Cu .....0.00002 %
Fe .....0.00005 %
Ni .....0.00002 %
Pb .....0.00002 %

Code	Packaging
142006.1611	1000 ml
142006.1612	2.5 l
142006.0314	5 l
142006.3515	10 l
142006.0616	25 l

212006 *n*-Pentane technical grade

Specifications
Assay (G.C.) .....min. 95 %
Water (K.F.) .....max. 0.5 %

Code	Packaging
212006.3516	25 L

iso-Pentane see Isopentane

1-Pentane Sulfonic Acid Sodium Salt

Sodium 1-Pentanosulfonate

$C_5H_{11}NaO_3S$
M = 174.20 g/mol
CAS 22767-49-3
EINECS 245-208-4
CS 29041000

Solubility ..... Soluble in water.
Solid

WGK 3
Storage RT

364896 1-Pentane Sulfonic Acid Sodium Salt for HPLC

For ion pair chromatography

Specifications
Minimum assay (Acidim.)
(calc. a.d.s.) .....99.0 %
Identity ..... IR passes test

UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 200 nm .....≥ 70 %
Transmittance at 220 nm .....≥ 90 %
Transmittance at 250 nm .....≥ 98 %

Code	Packaging
364896.1606	25 g

2,4-Pentanedione

ACAC, Acetylacetone, Diacetylmethane

$CH_3COCH_2COCH_3$
M = 100.11 g/mol
CAS 123-54-6
EINECS 204-634-0
CS 29141990
Index Nr. 606-029-00-0

Melting Point .....-23 °C
Boiling Point .....138-140 °C
Density .....0.973 kg/l
Solubility .....in water 160 g/l at 20 °C
Refractive Index n20/D 1.452
Liquid

UN2310
Class/PG 3(6.1)/III
ADR 3(6.1)/III · IMDG 3(6.1)/III · IATA 3(6.1)/III
WGK 1
Storage RT

Warning



H226 H302

161880 2,4-Pentanedione, 99 % for synthesis

Specifications
Minimum assay (G.C.) .....99 %

Identity ..... IR passes test
Density 20/4 .....0.972-0.974

Code	Packaging
161880.1611	1000 ml

1-Pentanol

n-Amyl Alcohol, n-Butylcarbinol, n-Pentyl Alcohol

$C_5H_{12}O$
M = 88.15 g/mol
CAS 71-41-0
EINECS 200-752-1
CS 29051900
Index Nr. 603-200-00-1

Melting Point .....-79 °C
Boiling Point ..... 138 °C
Density .....0.815 kg/l
Solubility .....in water 27 g/l at 20 °C
Refractive Index n20/D 1.41
Liquid

UN1105
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Warning



H226 H332 H335 H315

131884 1-Pentanol (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) .....99 %
Identity .....IR passes test
Density 20/4 ..... 0.814-0.816

Maximum limit of impurities
APHA colour 30
Non-volatile matter ..... 0.003 %
Carbonyl compounds (as HCHO) .....0.1 %
1-Pentanal (G.C.) .....0.1 %

3-Methyl-1-Butanol (G.C.) ..... 0.5 %
Acids and esters .....0.075 meq/g
di-n-Pentyl Ether (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.2 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Ca	0.1	Cd	0.05
As	0.05	Au	0.05	Co	0.02	Cr	0.02
B	0.02	Ba	0.1	Cu	0.02	Fe	0.1
Be	0.02	Bi	0.05	Ga	0.02	Ge	0.05
				Hg	0.05	In	0.05
				K	0.1	Li	0.05
				Mg	0.1	Mn	0.02
				Mo	0.02	Na	0.5
				Ni	0.02	P	0.2
				Pb	0.1		

Code	Packaging
131884.1611	1000 ml

141884 1-Pentanol pure

Specifications
Assay (G.C.) .....98 %
Identity .....IR passes test
Density 20/4 ..... 0.814-0.816

Non-volatile matter ..... 0.01 %
Carbonyl compounds (as HCHO) ..... 0.1 %
Acids and esters ..... 0.15 meq/g
Water (H_2O) ..... 0.5 %

Cu .....0.0005 %
Fe .....0.0005 %
Ni .....0.0005 %
Pb .....0.0005 %

Code	Packaging
141884.1211	1000 ml
141884.1214	5 l

3-Pentenylglucosinolate Potassium Salt see Glucobrassicanapin

HebaPeaKTMB

Printed on FSC® certified paper from well managed forests

Peonidin-3-Glucoside Chloride

Origin from *Vitis vinifera*

$C_{22}H_{23}O_{11}Cl$
M = 498.85 g/mol
CAS 6906-39-4
CS 29389090

Storage 2-8 °C

A9576 Peonidin-3-Glucoside Chloride for HPLC

Specifications
Assay (HPLC) .....min. 97 %

Code	Packaging
A9576,0005	5 mg
A9576,0010	10 mg

PEP-K see Phosphoenolpyruvate Monopotassium

Pepsin

Origin from porcine stomach

M = ~ 36000 g/mol
CAS 9001-75-6
EINECS 232-629-3
CS 35079090
Index Nr. 647-008-00-6

Solid

WGK nwg
Storage 2-8 °C

Danger



H315 H319 H334 H335

A4289 Pepsin

Specifications
Activity (Hemoglobin;
pH 1.6; 25 °C) ..... min. 0.7 FIP-U/mg
pH (2 %; H_2O) 4.0-5.0
Loss on drying (60 °C; 4 h;
670 hPa; P_2O_5) ..... max. 5 %

Code	Packaging
A4289,0025	25 g
A4289,0100	100 g

Pepsin 1:10.000 NF

CAS 9001-75-6
EINECS 232-629-3
CS 35079090
Index Nr. 647-008-00-6

Solubility ..... Soluble in water.
Solid

WGK nwg
Storage between 2-8 °C, in a dry place, away from direct light.

Danger



H319 H335 H315 H334

175208 Pepsin 1:10.000 NF

Specifications
Identity .....IR passes test
pH of 5 % solution 3-5
Proteolytic Activity 1:10000

Code	Packaging
175208.0011	1000 g

Pepsin Pack

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK nwg
Storage RT

175748 Pepsin Pack

For analysis of trichina

Specifications
Comprised of:

175208 Pepsin 1:10.000 NF(3x1000g)
133378 Hydrochloric Acid 25 %(1x5l)

Code	Packaging
175748.0922	pack

Pepsinogen I, human

Origin from human gastric mucosa

CS 35079090

Solid

Storage -20 °C

A6973 Pepsinogen I, human

Lyophilized from Tris · HCl, pH 8.5

Specifications
Purity (SDS-PAGE) ..... min. 90 %
Specific Activity ..... min. 500 U/mg Protein

Code	Packaging
A6973,0500	500 µg

Pepsinogen II, human

Origin from human gastric mucosa

CS 35079090

Liquid

Storage 2-8 °C

A6980 Pepsinogen II, human

Lyophilized from Tris · HCl, pH 8.5

Specifications
Purity (SDS-PAGE) ..... min. 90 %
Specific Activity ..... min. 1000 U/mg Protein

Code	Packaging
A6980,0500	500 µg

HeBaPeaKTMB

Pepstatin A

Isovaleryl-L-val-L-val-statinyl-L-ala-statine

$C_{34}H_{63}N_5O_9$
M = 685.91 g/mol
CAS 26305-03-3
EINECS 247-600-0
CS 29241900

Solid

Storage 2-8 °C

A2205 Pepstatin A

Specifications
Assay (HPLC) .....min. 98 %

Code	Packaging
A2205,0010	10 mg
A2205,0025	25 mg
A2205,0100	100 mg

Pepton Water, Buffered

CS 38220000

Solid

Storage RT

A5841 Pepton Water, Buffered

Specifications
pH before autoclaving ..... approx. 7.2 (20 °C)

Composition:
Buffers ..... 5.0 g/L
Peptones ..... 10.0 g/L
Sodium Chloride ..... 5.0 g/L

Code	Packaging
A5841,0500G	500 g
A5841,5000KG	5 kg

Peptones

EINECS 293-428-4
CS 35040090

Solid

WGK 1
Storage RT

A2142 Peptone from Casein (acid hydrolysate)

Specifications
Nitrogen (NH_2) .....min. 4.0 %
pH (2 %; H_2O; 20 °C) .....approx. 7.0
Sulfated ash ..... max. 45 %
Total N ..... min. 8.5 %
Water ..... max. 5 %

Code	Packaging
A2142,0500	500 g

A2208 Peptone from Casein (enzymatic digest)

Specifications
pH (2 %; H_2O; 20 °C) .....approx. 7.0
Sulfated ash .....max. 17 %
Total N ..... min. 12 %
NaCl ..... max. 6 %
Water ..... max. 6 %

Code	Packaging
A2208,0500	500 g

A2210 Peptone from Casein (pancreatic digest)

Specifications
Enzyme activity ..... not detectable
Nitrogen (NH_2) ..... 3.0-4.0 %
pH (2 %; H_2O; 20 °C) .....approx. 7.0
Sulfated ash ..... max. 17 %
Total N ..... approx. 13 %
NaCl ..... max. 6 %
Water ..... max. 6 %

Code	Packaging
A2210,0250	250 g
A2210,0500	500 g

A1835 Peptone from Meat (enzymatic digest)

Specifications
pH (2 %; H_2O; 20 °C) 5.0-6.5
Sulfated ash .....max. 6 %
Total N ..... min. 15 %
NaCl ..... max. 3 %
Water ..... max. 6 %

Code	Packaging
A1835,0500	500 g

A2206 Peptone from Soybean (enzymatic digest)

Specifications
Nitrogen (NH_2) ..... 2.5-3.5 %
pH (1 %; H_2O; 20 °C) .....approx. 7.0
Sulfated ash .....max. 21 %
Total N ..... min. 9 %
Loss on drying ..... max. 6 %
Chloride (as NaCl) ..... max. 5 %

Code	Packaging
A2206,0500	500 g
A2206,1000	1 kg

Peracetic Acid 15 %

Acetyl Hydroperoxide, Ethaneperoxoic Acid, Peroxyacetic Acid

CAS 79-21-0
EINECS 201-186-8
CS 29159000
Index Nr. 607-094-00-8

Liquid

UN3109
Class/PG 5.2
ADR 5.2 · IMDG 5.2 · IATA 5.2
WGK 2
Storage 2-8 °C

Danger



H242 H314 H335 H336

143495 Peracetic Acid 15 % pure

* The specification and shelf life are only valid for the original closed package. Product contains sulfuric acid.

Specifications
Peracetic acid ..... approx. 15 %
Heavy metals (as Pb) .....max. 0.005 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %

Code	Packaging
143495.1210	0.5 L
143495.1211	1 L
143495.1214	5 L
143495.0716	25 L

173495 Peracetic Acid solution 15 % w/w

Specifications
Minimum assay (Iodom.) .....15.0 %
Density 20/4 ..... 1.125-1.165

Code	Packaging
173495.1210	500 ml

HebaPeakTMB

Perchloric Acid 70 %

$HClO_4$
M = 100.46 g/mol
CAS 7601-90-3
EINECS 231-512-4
CS 28111980
Index Nr. 017-006-00-4

Melting Point ..... -18 °C
Boiling Point ..... 198 °C
Density ..... 1.67 kg/l
Liquid

UN1873
Class/PG 5.1(8)/I
ADR 5.1(8)/I · IMDG 5.1(8)/I · IATA 5.1(8)/I
WGK 1
Storage RT

Danger



H271 H314

722175 Perchloric Acid 70 % for trace metal analysis (ppb)

Specifications
Assay (Acidim.) ..... 65-71 %

Maximum limit of impurities
APHA colour 10

Metals by ICP (ppb)

Ag	1	Al	1	Ba	1	Be	0.5
As	0.5	Au	0.5	Bi	0.5	Ca	1
				Cd	1	Ce	0.5
				Co	0.5	Cs	0.5
				Cu	0.5	Dy	0.5
				Er	0.5	Eu	0.5
				Fe	1	Ga	0.5
				Gd	0.5	Ho	0.5
				In	0.5	K	1
				La	0.5	Li	0.5
				Lu	0.5	Mg	1
				Mn	1	Mo	0.5
				Na	1	Nd	0.5
				Ni	1	Pb	1
				Pd	0.5	Pr	0.5
				Pt	0.5	Rb	0.5

Code	Packaging
722175.0010	500 ml
722175.0011	1000 ml

132175 Perchloric Acid 70 % for analysis, ACS, ISO

Specifications
Assay (Acidim.) ..... 69.0-72.0 %

Maximum limit of impurities
APHA colour 10
Insoluble matter in H_2O ..... passes test
Residue on ignition ..... 0.003 %
Chlorine (Cl) ..... 0.0005 %
Chloride (Cl) ..... 0.0003 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfate (SO_4) ..... 0.001 %
Chlorate (ClO_3) ..... 0.0012 %
Phosphate and Silicate (as PO_4) ..... 0.0005 %
As ..... 0.000005 %
Heavy metals (as Pb) ..... 0.0001 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.1	Al	0.1	Ba	0.1	Be	0.5
				Ca	1	Cd	0.05
				Co	0.1	Cr	0.1
				Cu	0.05	Fe	1
				K	1	Mn	0.05
				Na	1	Ni	0.05
				Pb	0.1	Sr	0.5
				Zn	0.1		

Code	Packaging
132175.1611	1000 ml
132175.2211	1000 ml
132175.1612	2.5 l

142175 Perchloric Acid 70 % pure

Specifications
Assay (Acidim.) ..... 69.0-72.0 %
Residue on ignition ..... 0.01 %
Chlorine (Cl) ..... 0.0005 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.005 %
Sulfate (SO_4) ..... 0.003 %
Chlorate (ClO_3) ..... 0.005 %
Phosphate and Silicate (as PO_4) ..... 0.002 %
As ..... 0.0001 %
Fe ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
142175.1611	1000 ml
142175.1612	2.5 l
142175.2216	25 l

Perchloric Acid 60 %

$HClO_4$
M = 100.46 g/mol
CAS 7601-90-3
EINECS 231-512-4
CS 28111980
Index Nr. 017-006-00-4

Boiling Point ..... 160 °C
Density ..... 1.54 kg/l
Liquid

UN1873
Class/PG 5.1(8)/I
ADR 5.1(8)/I · IMDG 5.1(8)/I · IATA 5.1(8)/I
WGK 1
Storage RT

Danger



H271 H314

131054 Perchloric Acid 60 % for analysis, ACS, ISO

Specifications
Assay (Acidim.) ..... 60.0-62.0 %

Maximum limit of impurities
APHA colour 10
Insoluble matter in H_2O ..... passes test
Residue on ignition ..... 0.003 %
Chlorine (Cl) ..... 0.0005 %
Chloride (Cl) ..... 0.0003 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfate (SO_4) ..... 0.001 %
Chlorate (ClO_3) ..... 0.001 %
Phosphate and Silicate (as PO_4) ..... 0.0005 %
Heavy metals (as Pb) ..... 0.0001 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.1	Al	0.1	Cd	0.05	Co	0.1
As	0.05	Au	0.1	Cr	0.1	Cu	0.05
Ba	0.1	Be	0.5	Fe	1	Ga	0.05
Bi	0.1	Ca	1	Ge	0.05	Hg	0.1
				In	0.05	K	1
				Li	0.02	Mg	0.05
				Mn	0.05	Mo	0.05
				Na	5	Ni	0.05
				Pb	0.1	Pt	0.1
				Sb	0.05		

Code	Packaging
131054.1611	1000 ml
131054.2211	1000 ml
131054.1612	2.5 l
131054.2216	25 l

141054 Perchloric Acid 60 % pure

Specifications
Assay (Acidim.) ..... 60.0-62.0 %
Residue on ignition ..... 0.01 %
Chlorine (Cl) ..... 0.0005 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.005 %
Sulfate (SO_4) ..... 0.003 %
Chlorate (ClO_3) ..... 0.005 %
Phosphate and Silicate (as PO_4) ..... 0.002 %
As ..... 0.0001 %
Fe ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
141054.1611	1000 ml

Perchloric Acid 0.6 mol/l (0.6N)

$HClO_4$
M = 100.46 g/mol
EINECS 231-512-4
CS 38220000
Index Nr. 017-006-00-4

Liquid

WGK 1
Storage RT

Warning



H315 H319

187078 Perchloric Acid 0.6 mol/l (0.6N) volumetric solution

Specifications
Factor limits 0.998-1.002

Code	Packaging
187078.1611	1 L

Perchloric Acid 0.1 mol/l (0.1N) in 1,4-dioxan

$HClO_4$
M = 100.46 g/mol
CS 38220000

Density ..... 1.040 kg/l
Liquid

UN2924
Class/PG 3(8)/II
ADR 3(8)/II · IMDG 3(8)/II · IATA 3(8)/II
WGK 1
Storage over 18 °C

Danger



H225 EUH019 H319 H335 H315

181047 Perchloric Acid 0.1 mol/l (0.1N) in 1,4-dioxan (Reag. USP) volumetric solution

Standardised against Potassium Hydrogen Phthalate Indicator: Crystal violet Storage over 18 °C

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181047.1611	1000 ml

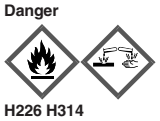
Perchloric Acid 0.1 mol/l (0.1N) in acetic acid

$HClO_4$
M = 100.46 g/mol
CS 38220000

Density ..... 1.060 kg/l
Liquid

UN2920
Class/PG 8(3)/II
ADR 8(3)/II · IMDG 8(3)/II · IATA 8(3)/II
WGK 1
Storage over 18 °C

Danger



H226 H314

181046 Perchloric Acid 0.1 mol/l (0.1N) in acetic acid (Reag. USP, Ph. Eur.) volumetric solution

Standardized against Potassium Hydrogen Phthalate. Indicator: Crystal Violet

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST
Water (H_2O) ..... 0.02-0.05 %

Code	Packaging
181046.1611	1000 ml
181046.1612	2.5 l

Perchloroethylene see Tetrachloroethylene

Perfringens Selective Agar according to Angelotti see SPS Agar (Selective Agar according to Angelotti) (Dehydrated Culture Media)

Periodic Acid

H_5IO_6
M = 227.94 g/mol
CAS 10450-60-9
EINECS 233-937-0
CS 28111980

Melting Point ..... 127 °C
Solubility ..... in water 2,430 g/l at 20 °C
Solid

UN3085
Class/PG 5.1(8)/III
ADR 5.1(8)/III · IMDG 5.1(8)/III · IATA 5.1(8)/III
WGK 1
Storage RT

Danger



H272 H314

132320 Periodic Acid (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Assay (Iodom.) ..... 99.0-101.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %

Residue on ignition (as SO_4) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Iodide (I) ..... 0.001 %
Chloride, chlorate, bromide and bromate (as Cl) ..... 0.01 %

Heavy metals (as Pb) ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
132320.1608	100 g

142320 Periodic Acid pure

Specifications
Assay (Iodom.) ..... 98 %
Residue on ignition (as SO_4) ..... 0.5 %

Sulfate (SO_4) ..... 0.05 %
Chloride, chlorate, bromide and bromate (as Cl) ..... 0.05 %

Code	Packaging
142320.1608	100 g

Peroxidase from horseradish

Donor : hydrogen peroxide oxidoreductase

M = ~ 40000 g/mol
CAS 9003-99-0
EINECS 232-668-6
CS 35079090

Solid

Storage -20 °C

Danger



H317 H334

A3771 Peroxidase from horseradish EIA and Immunology Grade II

Salt-free, freeze-dried

* contaminants as % of peroxidase activity

Specifications
Activity (Purpurogallin) ..... min. 180 U/mg
RZ value ..... min. 3
Solubility ..... clear (5 mg/ml H_2O)

ATPase * ..... max. 0.001 %
Catalase * ..... max. 0.7 %
Phosphatase, acid * ..... max. 0.001 %

Code	Packaging
A3771,0025	25 KU

A3615 Peroxidase from horseradish EIA and Immunology Grade I

Salt-free, freeze-dried

* contaminants as % of peroxidase activity

Specifications
Activity (Purpurogallin) ..... min. 300 U/mg
Appearance ..... reddish-brown
RZ value ..... > 3

Solubility ..... clear (5 mg/ml H_2O)
ATPase * ..... max. 0.001 %
Catalase * ..... max. 0.7 %
Phosphatase, acid * ..... max. 0.001 %

Code	Packaging
A3615,0010	10 KU

A3791 Peroxidase from horseradish Practical Grade I

Salt-free, freeze-dried

* contaminants as % of peroxidase activity

Specifications
Activity (Purpurogallin) ..... min. 230 U/mg

RZ value ..... min. 2
Solubility ..... clear (5 mg/ml H_2O)
ATPase * ..... max. 0.001 %

Catalase * ..... max. 0.7 %
Phosphatase, acid * ..... max. 0.001 %

Code	Packaging
A3791,0025	25 KU
A3791,0050	50 KU

Petroleum Benzine see Petroleum Ether 65-95 °C

НеваРеактив

Petroleum Ether 25-40 °C

Ligroin, Naphta, Petroleum Benzine, Petrol Ether

CAS 64742-49-0
EINECS 265-151-9
CS 27101225
Index Nr. 649-328-00-1

Boiling Point ..... 25-40 °C
Density ..... 0.63 kg/l
Liquid

UN1268
Class/PG 3/I
ADR 3/I · IMDG 3/I · IATA 3/I
WGK 2
Storage RT

Danger



H224 H315 H373 H411 H361f H304 H336

142698 Petroleum Ether 25-40 °C pure

Specifications
Range of Boiling ..... 25-40 °C
Acidity ..... 0.001 meq/g
Non-volatile matter ..... 0.003 %
Sulfur compounds (as CS_2) ..... 0.01 %
Aromatic hydrocarbons (C_6H_6)
(U.V.) ..... 0.01 %
Water (H_2O) ..... 0.02 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
142698.0314	5 l

Petroleum Ether 30-40 °C

Ligroin, Naphta, Petroleum Benzine, Petrol Ether

CAS 64742-49-0
EINECS 265-151-9
CS 27101225
Index Nr. 649-328-00-1

Liquid

UN1268
Class/PG 3/I
ADR 3/I · IMDG 3/I · IATA 3/I
WGK 2
Storage RT

Danger



H224 H304 H336 H411 EUH066

122699 Petroleum Ether 30-40 °C for analysis

Specifications
Acidity/Alkalinity ..... max. 0.0001 meq/g
Boiling range ..... 30-40 °C (1000 hPa)
Bromine number ..... < 3
Density (15 °C) ..... 0.628-0.630 g/cm³
Non-volatile matter ..... max. 0.001 %
Total P ..... max. 0.00005 %
Total S ..... max. 0.001 %
Total Si ..... max. 0.000005 %
Aromates ..... max. 0.01 %
Water (K.F.) ..... max. 0.01 %
Ca ..... max. 0.00005 %
Cu ..... max. 0.000005 %
Fe ..... max. 0.00002 %
K ..... max. 0.00002 %
Mg ..... max. 0.000005 %
Na ..... max. 0.00005 %
Pb ..... max. 0.000005 %
Zn ..... max. 0.00001 %

Code	Packaging
122699.1611	1 L

142699 Petroleum Ether 30-40 °C pure

Specifications
Bromine number ..... < 5
Non-volatile matter ..... max. 0.002 %
Aromates ..... max. 0.05 %
Water (K.F.) ..... max. 0.02 %
Fe ..... max. 0.00005 %
Pb ..... max. 0.00005 %

Code	Packaging
142699.1612	2.5 L
142699.0616	25 L

Petroleum Ether 30-50 °C

Ligroin, Naphta, Petroleum Benzine, Petrol Ether

CAS 64742-49-0
EINECS 265-151-9
CS 27101225
Index Nr. 649-328-00-1

Liquid

UN1268
Class/PG 3/I
ADR 3/I · IMDG 3/I · IATA 3/I
WGK 1
Storage RT

Danger



H224 H304 H336 H411 EUH066

142700 Petroleum Ether 30-50 °Cpure

Specifications
Bromine number ..... max. 20
Non-volatile matter ..... max. 0.001 %
Sulfur ..... max. 0.0001 %
Aromates ..... max. 0.001 %
Water (K.F.) ..... max. 0.01 %

Code	Packaging
142700.0314	5 L
142700.0616	25 L

Petroleum Ether 40-60 °C

Ligroin, Naphta, Petroleum Benzine, Petrol Ether

CAS 64742-49-0
EINECS 265-151-9
CS 27101225
Index Nr. 649-328-00-1

Liquid

UN1268
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H304 H336 H411 EUH066

361315 Petroleum Ether 40-60 °C for UV

Specifications
Density 20/4 ..... 0.640-0.655
Range of Boiling ..... 40-60 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.01 %
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 210 nm (Cut off) ..... ≥ 10 %
Transmittance at 220 nm ..... ≥ 50 %
Transmittance at 230 nm ..... ≥ 80 %
Transmittance at 240 nm ..... ≥ 90 %
Transmittance at 250-400 nm ..... ≥ 98 %
For critical jobs, purge with nitrogen.

Code	Packaging
361315.1612	2.5 l

321315 Petroleum Ether 40-60 °C for pesticide analysis

Specifications
Density 20/4 ..... 0.640-0.655
Range of Boiling ..... 40-60 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.01 %
Signal ECD of pesticide (Lindane a DDT)
(as Lindane) ..... 5 ng/l

Code	Packaging
321315.1611	1000 ml
321315.1612	2.5 l
321315.0515	10 l

НеваРеактив

131315 Petroleum Ether 40-60 °C for analysis, ACS, ISO

Specifications
Density 20/4 ..... 0.640-0.655
Range of Boiling ..... 40-60 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %
Sulfur compounds (as CS_2) ..... 0.005 %
Peroxides ..... 0.0001 %
Bromine index 1
Aromatic hydrocarbons (C_6H_6)
(U.V.) ..... 0.02 %

Water (H_2O) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Mg	0.1
As	0.05	Au	0.05	Mo	0.02
B	0.02	Ba	0.1	Ni	0.02
Be	0.02	Bi	0.05	Pb	0.1
Ca	0.5	Cd	0.05	Mn	0.02
Co	0.02	Cr	0.02	Na	0.5
Cu	0.02	Fe	0.1	P	0.2
Ga	0.02	Ge	0.05	Pt	0.02
Hg	0.05	In	0.05		
K	0.1	Li	0.05		

Code	Packaging
131315.1611	1000 ml
131315.1612	2.5 l
131315.0314	5 l
131315.1714	5 l
131315.0515	10 l
131315.0316	25 l
131315.0516	25 l
131315.0537	30 l
131315.0619	200 l

121315 Petroleum Ether 40-60 °C for analysis

For extraction of fats for the determination of insoluble impurities in oils and fats according to UNE 663

Specifications
Density 20/4 ..... 0.640-0.655
Range of Boiling ..... 40-60 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %

Sulfur compounds (as CS_2) ..... 0.005 %
Peroxides ..... 0.0001 %
Bromine index 1
Aromatic hydrocarbons (C_6H_6)
(U.V.) ..... 0.025 %
Water (H_2O) ..... 0.015 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Be	0.02
As	0.05	Au	0.05	Ca	0.5
B	0.02	Ba	0.1	Co	0.02
				Cu	0.02
				Ga	0.02
				Hg	0.05
				K	0.1
				Mg	0.1
				Mo	0.02
				Ni	0.02
				Pb	0.1
				Bi	0.05
				Cd	0.05
				Cr	0.02
				Fe	0.1
				Ge	0.05
				In	0.05
				Li	0.05
				Mn	0.02
				Na	0.5
				P	0.2
				Pt	0.02

Code	Packaging
121315.1611	1000 ml
121315.1612	2.5 l

191315 Petroleum Ether 40-60 °C (DAB) pharma grade

Specifications
Acidic/alkaline react. subst. ..... passes test
Appearance ..... passes test
Behaviour against H_2SO_4 ..... passes test
Boiling range (40-60 °C) ..... ≥ 75 Vol. %
Foreign odor, non-vol. subst. ..... passes test
Relative density 0.642-0.656

Res. after evaporation ..... max. 0.001 %
Benzene (G.C.) ..... max. 0.001 Vol. %
n-Hexane (G.C.) ..... max. 2 Vol. %
Sulfur comp., red. subst. ..... passes test
Tetraethyl lead ..... passes test

Code	Packaging
191315.1611	1 L
191315.1612	2.5 L
191315.0314	5 L
191315.0616	25 L

141315 Petroleum Ether 40-60 °C pure

Specifications
Density 20/4 ..... 0.640-0.655
Range of Boiling ..... 40-60 °C
Acidity ..... 0.001 meq/g
Non-volatile matter ..... 0.003 %
Sulfur compounds (as CS_2) ..... 0.01 %
Aromatic hydrocarbons (C_6H_6)
(U.V.) ..... 0.05 %
Water (H_2O) ..... 0.02 %

Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141315.1611	1000 ml
141315.1612	2.5 l
141315.0314	5 l
141315.0616	25 l
141315.0537	30 l
141315.0619	200 l

161315 Petroleum Ether 40-60 °C for synthesis

Specifications
Density 20/4 ..... 0.640-0.655
Range of Boiling ..... 40-60 °C
Non-volatile matter ..... 0.002 %
Water (H_2O) ..... 0.02 %

Code	Packaging
161315.1611	1000 ml
161315.1714	5 l
161315.0616	25 l
161315.0619	200 l

Petroleum Ether 50-70 °C

Ligroin, Naphta, Petroleum Benzine, Petrol Ether

CAS 64742-49-0
EINECS 265-151-9
CS 27101225
Index Nr. 649-328-00-1

Boiling Point ..... 50-70 °C
Density ..... 0.66 kg/l
Liquid

UN1268
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H315 H373 H411 H361f H304

121862 Petroleum Ether 50-70 °C for analysis

Specifications
Range of Boiling ..... 50-70 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %
Sulfur compounds (as CS_2) ..... 0.005 %
Aromatic hydrocarbons (C_6H_6)
(U.V.) ..... 0.03 %

Water (H_2O) ..... 0.015 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Ga	0.02
As	0.05	Au	0.05	Hg	0.05
B	0.02	Ba	0.1	K	0.1
Be	0.02	Bi	0.05	Mg	0.1
Ca	0.5	Cd	0.05	Mo	0.02
Co	0.02	Cr	0.02	Ni	0.02
Cu	0.02	Fe	0.1	Pb	0.1
				S	0.2
				Si	0.2
				Ge	0.05
				In	0.05
				Li	0.05
				Mn	0.02
				Na	0.5
				P	0.2
				Pt	0.02
				Sb	0.02

Code	Packaging
121862.1611	1000 ml

141862 Petroleum Ether 50-70 °C pure

Specifications
Range of Boiling ..... 50-70 °C
Acidity ..... 0.001 meq/g
Non-volatile matter ..... 0.003 %

Sulfur compounds (as CS_2) ..... 0.01 %
Aromatic hydrocarbons (as C_6H_6)
(U.V.) ..... 0.075 %
Water (H_2O) ..... 0.02 %

Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141862.1611	1000 ml
141862.0314	5 l

НеваРеактив

НеваРеактив

Petroleum Ether 60-80 °C

Ligroin, Naphta, Petroleum Benzine, Petrol Ether

CAS 64742-49-0
EINECS 265-151-9
CS 27101225
Index Nr. 649-328-00-1

Boiling Point ..... 60-80 °C
Density ..... 0.67 kg/l
Liquid

UN1268
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H315 H373 H411 H361f H304

122701 Petroleum Ether 60-80 °C for analysis

Specifications
Range of Boiling ..... 60-80 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %
Sulfur compounds (as CS_2) ..... 0.005 %
Aromatic hydrocarbons (C_6H_6)
(U.V.) ..... 0.05 %

Water (H_2O) ..... 0.015 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Ga	0.02
As	0.05	Au	0.05	Hg	0.05
B	0.02	Ba	0.1	K	0.1
Be	0.02	Bi	0.05	Mg	0.1
Ca	0.5	Cd	0.05	Mo	0.02
Co	0.02	Cr	0.02	Ni	0.02
Cu	0.02	Fe	0.1	Pb	0.1
				S	0.2
				Si	0.2
Ge	0.05				
In	0.05				
Li	0.05				
Mn	0.02				
Na	0.5				
P	0.2				
Pt	0.02				
Sb	0.02				

Code	Packaging
122701.1611	1000 ml
122701.0314	5 l
122701.3515	10 l

142701 Petroleum Ether 60-80 °C pure

Specifications
Range of Boiling ..... 60-80 °C
Acidity ..... 0.001 meq/g
Non-volatile matter ..... 0.003 %
Sulfur compounds (as CS_2) ..... 0.01 %

Aromatic hydrocarbons (as C_6H_6)
(U.V.) ..... 0.1 %
Water (H_2O) ..... 0.02 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %

Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
142701.1611	1000 ml
142701.3514	5 l
142701.0616	25 l

Petroleum Ether 65-95 °C

Ligroin, Naphta, Petroleum Benzine, Petrol Ether

CAS 64742-49-0
EINECS 265-151-9
CS 27101225
Index Nr. 649-328-00-1

Boiling Point ..... 65-95 °C
Density ..... 0.68 kg/l
Liquid

UN1268
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H315 H373 H411 H361f H304

122702 Petroleum Ether 65-95 °C for analysis

Specifications
Range of Boiling ..... 60-95 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %
Sulfur compounds (as CS_2) ..... 0.005 %
Aromatic hydrocarbons (C_6H_6)
(U.V.) ..... 0.1 %

Water (H_2O) ..... 0.015 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Ga	0.02
As	0.05	Au	0.05	Hg	0.05
B	0.02	Ba	0.1	K	0.1
Be	0.02	Bi	0.05	Mg	0.1
Ca	0.5	Cd	0.05	Mo	0.02
Co	0.02	Cr	0.02	Ni	0.02
Cu	0.02	Fe	0.1	Pb	0.1
				S	0.2
				Si	0.2
Ge	0.05				
In	0.05				
Li	0.05				
Mn	0.02				
Na	0.5				
P	0.2				
Pt	0.02				
Sb	0.02				

Code	Packaging
122702.1611	1000 ml

142702 Petroleum Ether 65-95 °C pure

Specifications
Range of Boiling ..... 60-95 °C
Acidity ..... 0.001 meq/g
Non-volatile matter ..... 0.003 %

Sulfur compounds (as CS_2) ..... 0.01 %
Aromatic hydrocarbons (as C_6H_6)
(U.V.) ..... 0.2 %
Water (H_2O) ..... 0.02 %

Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
142702.0616	25 l

Petroleum Ether 80-110 °C

Ligroin, Naphta, Petroleum Benzine, Petrol Ether

CAS 64742-49-0
EINECS 265-151-9
CS 27101225
Index Nr. 649-328-00-1

Liquid

UN1268
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H304 H315 H336 H411

147133 Petroleum Ether 80-110 °C pure

Specifications
Bromine number ..... < 5
Non-volatile matter ..... max. 0.002 %
Aromates ..... max. 0.05 %

Water (K.F.) ..... max. 0.02 %
Fe ..... max. 0.00005 %
Pb ..... max. 0.00005 %

Code	Packaging
147133.1612	2.5 L
147133.3514	5 L

НеваРеактив

Petroleum Ether 100-120 °C

Ligroin, Naphta, Petroleum Benzine, Petrol Ether

CAS 64742-49-0
EINECS 265-151-9
CS 27101225
Index Nr. 649-328-00-1

Boiling Point ..... 100-120 °C
Density ..... 0.694 kg/l
Solubility ..... Insoluble in water
Liquid

UN1268
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H315 H373 H411 H361f H304

124809 Petroleum Ether 100-120 °C for analysis

Specifications
Range of Boiling ..... 100-120 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %
Sulfur compounds (as CS_2) ..... 0.005 %
Aromatic hydrocarbons (as C_6H_6) (U.V.) ..... 0.1 %

Water ..... 0.015 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Ga	0.02
As	0.05	Au	0.05	Ge	0.05
B	0.02	Ba	0.1	Hg	0.05
Be	0.02	Bi	0.05	In	0.05
Ca	0.5	Cd	0.05	K	0.1
Co	0.02	Cr	0.02	Li	0.05
Cu	0.02	Fe	0.1	Mg	0.1
				Mn	0.02
				Mo	0.02
				Na	0.5
				Ni	0.02
				P	0.2
				Pb	0.1
				Pt	0.02
				S	0.2
				Sb	0.02
				Si	0.2

Code	Packaging
124809.1611	1000 ml

Petroleum Ether 100-140 °C

Ligroin, Naphta, Petroleum Benzine, Petrol Ether

CAS 64742-49-0
EINECS 265-151-9
CS 27101225
Index Nr. 649-328-00-1

Liquid

UN1268
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H304 H315 H336 H411

147132 Petroleum Ether 100-140 °C pure

Specifications
Bromine number ..... < 5
Non-volatile matter ..... max. 0.002 %
Aromates ..... max. 0.05 %

Water (K.F.) ..... max. 0.02 %
Fe ..... max. 0.00005 %
Pb ..... max. 0.00005 %

Code	Packaging
147132.3514	5 L
147132.0616	25 L

Petroleum Ether 190-250 °C-Kerosene

Kerosene

CAS 64742-49-0
EINECS 265-151-9
CS 27101225
Index Nr. 649-328-00-1

Boiling Point ..... 190-250 °C
Density ..... 0.797 kg/l
Refractive Index n20/D 1.44
Liquid

UN1268
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Danger



H225 H315 H373 H411 H361f H304

125286 Petroleum Ether 190-250 °C-Kerosene for analysis

Specifications
Range of Boiling ..... 190-250 °C
Refractive Index n20/D 1.437-1.438

Maximum limit of impurities
Darkened substances by H_2SO_4 ... passes test
Residue on ignition (as SO_4) ..... 0.001 %
Water (H_2O) ..... 0.01 %

Code	Packaging
125286.1612	2,5 l
125286.0314	5 l

Petunidin-3-Glucoside Chloride

Origin from *Vitis vinifera*

$C_{22}H_{23}O_{12}Cl$
M = 514.85 g/mol
CAS 6988-81-4
CS 29389090

Storage 2-8 °C

A9591 Petunidin-3-Glucoside Chloride for HPLC

Specifications
Assay (HPLC) ..... min. 97 %

Code	Packaging
A9591,0005	5 mg
A9591,0010	10 mg

Phalloidin

Origin from *Amanita phalloides*

$C_{35}H_{48}N_8O_{11}S$
M = 788.87 g/mol
CAS 17466-45-4
EINECS 241-484-5
CS 29349990

Solid

UN3462
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage 2-8 °C

Danger



H300 H310 H330

A1488 Phalloidin

Specifications
Assay (TLC) ..... min. 95 %

Code	Packaging
A1488,0001N	1 mg

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

1,10-Phenanthroline 1-hydrate

o-Phenanthroline 1-hydrate, Phenanthroline 1-hydrate

$C_{12}H_8N_2 \cdot H_2O$
M = 198.24 g/mol
CAS 5144-89-8
EINECS 200-629-2
CS 29339980
Index Nr. 613-092-00-8

Melting Point ..... 97-101 °C
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H301 H410

131321 1,10-Phenanthroline 1-hydrate for analysis, ACS

Redox indicator

Specifications
Minimum assay (Perchl. Ac.) ..... 99.0 %
Identity ..... IR passes test

Suitability: as redox indicator ..... passes test
Melting range (anhydrous basis) ... 117-119 °C

Maximum limit of impurities
Residue on ignition (as SO_4) ..... 0.1 %

Sensitivity to Fe ..... passes test
Cu ..... 0.002 %
Fe ..... 0.001 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
131321.1604	5 g
131321.1606	25 g

A3826 1,10-Phenanthroline 1-hydrate

Specifications
Assay (titr.) ..... min. 99.5 %
EtOH-insoluble matter ..... passes test
Identity (IR) ..... passes test

Sulfated ash ..... max. 0.1 %
Water (K.F.) ..... 8.5-10.0 %

Code	Packaging
A3826,0005	5 g
A3826,0050	50 g
A3826,0100	100 g

Phenazine Methosulfate

PMS, N-Methylphenazinium Methylsulfate

$C_{14}H_{14}N_2O_4S$
M = 306.34 g/mol
CAS 299-11-6
EINECS 206-072-1
CS 29339980

Solid

Storage 2-8 °C

Warning



H315 H319 H335

A2212 Phenazine Methosulfate

Specifications
Assay (UV) ..... min. 98 %
Heavy metals ..... max. 0.001 %
Loss on drying ..... max. 1 %
Solubility (10 %; H_2O) ..... clear, yellow

Code	Packaging
A2212,0005	5 g
A2212,0010	10 g
A2212,0025	25 g

Phenol

Carbolic Acid, Hydroxybenzene, Oxybencene, Phenic Acid, Phenyl Hydroxyde, Phenylic Acid

C_6H_6O
M = 94.11 g/mol
CAS 108-95-2
EINECS 203-632-7
CS 29071100
Index Nr. 604-001-00-2

Melting Point ..... 40.85 °C
Boiling Point ..... 182 °C
Solubility ..... in water 90 g/l at 20 °C
Solid

UN1671
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage Not recommended in areas with a very hot climate

Danger



H331 H311 H301 H314 H373 H341

131322 Phenol for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test

Maximum limit of impurities
Acidity (as HCl) ..... 0.0015 %
Alkalinity ..... 0.0016 %
Insoluble matter in H_2O ..... 0.005 %
Non-volatile matter ..... 0.01 %

Chloride (Cl) ..... 0.0005 %
m-Cresol (G.C.) ..... 0.05 %
o-Cresol (G.C.) ..... 0.05 %
p-Cresol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.2 %
Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %

Cu ..... 0.000002 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
131322.1610	500 g
131322.1611	1000 g
131322.1214	5 kg

Phenol crystalline

Carbolic Acid, Phenic Acid, Hydroxybenzene

C_6H_6O
M = 94.11 g/mol
CAS 108-95-2
EINECS 203-632-7
CS 29071100
Index Nr. 604-001-00-2

Melting Point ..... 40.0-41.5 °C
Boiling Point ..... 180-182 °C
Solubility ..... 84 g/L (H_2O)
Solid

UN1671
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage 2-8 °C
Storage protected from light

Danger



H301+H311+H331 H314 H341 H373

134852 Phenol crystalline for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Freezing point (a.d.s.) ..... ≥ 40.5 °C

Maximum limit of impurities
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.01 %

Chloride (Cl) ..... 0.0005 %
m-Cresol (G.C.) ..... 0.05 %
o-Cresol (G.C.) ..... 0.05 %
p-Cresol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.2 %
Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %

Cr ..... 0.000005 %
Fe ..... 0.00005 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00005 %

Code	Packaging
134852.1209	250 g
134852.1211	1000 g
134852.0716	25 kg

HEBAPEAKTMB

144852 Phenol crystalline (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (C_6H_6O) ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
Freezing point (a.d.s.) ..... ≥ 39.5 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity ..... passes test
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.05 %
Chloride (Cl) ..... 0.005 %
Residual solvents (Ph. Eur./USP) . passes test
m-Cresol (G.C.) ..... 0.1 %
o-Cresol (G.C.) ..... 0.1 %
p-Cresol (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.5 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
144852.1211	1000 g
144852.0914	5 kg
144852.0716	25 kg

164852 Phenol crystalline, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Freezing point (a.d.s.) ..... ≥ 40.5 °C
Water (H_2O) ..... 0.2 %

Code	Packaging
164852.1210	500 g
164852.1211	1000 g

A1594 Phenol crystalline Molecular biology grade

• May change color in storage

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.5 %
Heavy metals (as Pb) ..... max. 0.0005 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 20 °C) 3.0-5.5
Water (K.F.) ..... max. 0.2 %

Code	Packaging
A1594,0500	500 g

Phenol 90 % aqueous solution

Carbolic Acid, Hydroxybenzene, Oxybenzene, Phenic Acid, Phenyl Hydroxyde, Phenylic Acid

C_6H_5OH
M = 94.11 g/mol
CAS 108-95-2
EINECS 203-632-7
CS 29071100
Index Nr. 604-001-00-2
Boiling Point ..... 182 °C
Density ..... 1.07 kg/l
Solubility ..... in water 90 g/l at 20 °C
Liquid
UN2821
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage RT

Danger



H301 H311 H314 H331 H341 H373

141323 Phenol 90 % aqueous solution (USP) pure, pharma grade

Specifications
Minimum assay (C_6H_6O) ..... 89.0 %
Identity according to
Pharmacopoeia: ..... passes test
Destilation point ..... < 182.5 °C

Maximum limit of impurities
Appearance of solution
and reaction ..... passes test
Acidity ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Non-volatile matter ..... 0.05 %
Chloride (Cl) ..... 0.005 %
Residual solvents (USP) ..... passes test
m-Cresol (G.C.) ..... 0.1 %
o-Cresol (G.C.) ..... 0.1 %
p-Cresol (G.C.) ..... 0.1 %
Water (H_2O) (w/w) ..... 9-11 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141323.1611	1000 ml
141323.0716	25 l

Phenol 85 % aqueous solution

Carbolic Acid, Hydroxybenzene, Oxybenzene, Phenic Acid, Phenyl Hydroxyde, Phenylic Acid

C_6H_5OH
M = 94.11 g/mol
CAS 108-95-2
EINECS 203-632-7
CS 29071100
Index Nr. 604-001-00-2
Density ..... 1.06 kg/l
Solubility ..... Soluble in water.
Liquid
UN2821
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage RT

Danger



H331 H311 H301 H373 H314 H341

142661 Phenol 85 % aqueous solution pure, pharma grade

Specifications
Assay (C_6H_6O) w/w ..... 82-86.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Non-volatile matter ..... 0.05 %
Chloride (Cl) ..... 0.005 %
Residual solvents (Ph. Eur./USP) . passes test
m-Cresol (G.C.) ..... 0.1 %
o-Cresol (G.C.) ..... 0.1 %
p-Cresol (G.C.) ..... 0.1 %
Water (H_2O) (w/w) ..... 15 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
This product has been manufactured with raw material which passes the CODEX (Ph. Eur., USP) specifications.

Code	Packaging
142661.1214	5 l

Phenol liquid water-saturated

Carbolic Acid, Hydroxybenzene, Phenic Acid

CAS 108-95-2
EINECS 203-632-7
CS 29071100
Index Nr. 604-001-00-2
Liquid
UN2821
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage 2-8 °C
Storage protected from light
Storage under argon

Danger



H301+H311+H331 H314 H341 H373

A1578 Phenol water-saturated, non-stabilized

without 0.1 % 8-Hydroxyquinoline

Specifications
Assay (titr.) ..... approx. 75 %
Heavy metals ..... max. 0.0005 %
pH (20 °C) 4-5
Water (K.F.) ..... approx. 25 %
Stability ..... approx. 12 months

Code	Packaging
A1578,0500	500 ml

A1624 Phenol water-saturated, stabilized

stabilized with 0.1 % 8-Hydroxyquinoline

Specifications
Assay (titr.) ..... approx. 75 %
Heavy metals ..... max. 0.0005 %
pH (20 °C) 4.0
Water (K.F.) ..... approx. 25 %
Stability ..... approx. 15 months

Code	Packaging
A1624,0250	250 ml
A1624,0500	500 ml

HeBaPeaKTMB

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A0444 Phenol water-saturated, non-stabilized + separate Tris - Solution

without 0.1 % 8-Hydroxyquinoline; with separate Tris buffer (A2492) for pH adjustement

Specifications
Assay (titr.) ..... approx. 75 %
Heavy metals ..... max. 0.0005 %
pH (20 °C) 4.0
Water (K.F.) ..... approx. 25 %
Stability ..... approx. 12 months

Code	Packaging
A0444,0500	500 ml

A0447 Phenol water-saturated, stabilized + separate Tris - Solution

stabilized with 0.1 % 8-Hydroxyquinoline; with separate Tris buffer (A2492)

Specifications
Assay (titr.) ..... approx. 75 %
Heavy metals ..... max. 0.0005 %
pH (20 °C) 4.0
Water (K.F.) ..... approx. 25 %
Stability ..... approx. 15 months

Code	Packaging
A0447,0500	500 ml

Phenol liquid non water-saturated, non-stabilized

Carbolic Acid, Hydroxybenzene, Phenic Acid

CAS 108-95-2
EINECS 203-632-7
CS 29071100
Index Nr. 604-001-00-2

Liquid

UN2821
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage under argon, 2-8 °C, protected from light

Danger



H301+H311+H331 H314 H341 H373

A3276 Phenol liquid non water-saturated, non stabilized BioChemica

For RNA-isolation

Specifications
Assay ..... approx. 90 %
Heavy metals ..... max. 0.0005 %
Insoluble matter ..... passes test
pH (20 °C) ..... approx. 4.0
Water (K.F.) ..... approx. 9 %
Stability ..... approx. 12 months

Code	Packaging
A3276,0100	100 ml

Phenol liquid equilibrated / extracted

Carbolic Acid, Hydroxybenzene, Phenic Acid

CAS 108-95-2
EINECS 203-632-7
CS 29071100
Index Nr. 604-001-00-2

Liquid

UN2821
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage under argon, 2-8 °C, protected from light

Danger



H301+H311+H331 H314 H341 H373

A1153 Phenol equilibrated, stabilized

Stabilized with 0.1 % 8-Hydroxyquinoline, extracted with Tris - Solution

Specifications
Assay (titr.) ..... 89-90 %
Heavy metals ..... max. 0.0005 %
pH (20 °C) 7.8-8.2
Water (K.F.) ..... 10-11 %
Stability ..... approx. 9 months

Code	Packaging
A1153,0100	100 ml
A1153,0250	250 ml
A1153,0500	500 ml

A0971 Phenol equilibrated, non-stabilized

Without 0.1 % 8-Hydroxyquinoline, extracted with Tris - Solution

Specifications
Assay (titr.) ..... 89-90 %
Heavy metals ..... max. 0.0005 %
pH (20 °C) 7.8-8.2
Water (K.F.) ..... 10-11 %
Stability ..... approx. 6 months

Code	Packaging
A0971,0500	500 ml

A2938 Phenol extracted with 0.1 M citrate buffer

Without 0.1 % 8-Hydroxyquinoline

Specifications
Heavy metals ..... max. 0.0005 %
pH (20 °C) 4.1-4.5
Stability ..... approx. 9 months

Code	Packaging
A2938,0500	500 ml

Phenol : Chloroform : Isoamyl Alcohol 25 : 24 : 1

CS 38220000

Liquid

UN2810
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage 2-8 °C, protected from light

Danger



H311+H331 H302 H314 H341 H351 H373

A0837 Phenol equilibrated, non-stabilized : Chloroform : Isoamyl Alcohol 25 : 24 : 1

Without 0.1 % 8-Hydroxyquinoline

Specifications
Heavy metals ..... max. 0.0005 %
pH (20 °C) 7.8-8.2
Water (K.F.) ..... approx. 5 %
Stability ..... approx. 6 months

Composition:
Chloroform ..... 480 ml/L
Isoamyl Alcohol ..... 20 ml/L
Phenol equilibrated ..... 500 ml/L

Code	Packaging
A0837,0250	250 ml

A0889 Phenol equilibrated, stabilized : Chloroform : Isoamyl Alcohol 25 : 24 : 1

Phenol stabilized with 0.1 % 8-Hydroxyquinoline

Specifications
Heavy metals ..... max. 0.0005 %
pH (20 °C) 7.8-8.2
Water (K.F.) ..... approx. 5 %
Stability ..... approx. 9 months

Composition:
Chloroform ..... 480 ml/L
Isoamyl Alcohol ..... 20 ml/L
Phenol equilibriated, stabilized ..... 500 ml/L

Code	Packaging
A0889,0100	100 ml
A0889,0250	250 ml
A0889,0500	500 ml

A0944 Phenol non stabilized : Chloroform : Isoamyl Alcohol 25 : 24 : 1

Without 0.1 % 8-Hydroxyquinoline

Specifications
Heavy metals ..... max. 0.0005 %
pH (20 °C) ..... approx. 5.0
Water (K.F.) ..... approx. 5 %
Stability ..... approx. 9 months

Composition:
Chloroform ..... 480 ml/L
Isoamyl Alcohol ..... 20 ml/L
Phenol liquid ..... 500 ml/L

Code	Packaging
A0944,0100	100 ml
A0944,0250	250 ml
A0944,0500	500 ml

НеВаРеактив

A2279 Phenol stabilized : Chloroform : Isoamyl Alcohol 25 : 24 : 1

Phenol stabilized with 0.1 % 8-Hydroxyquinoline

Specifications
Heavy metals ..... max. 0.0005 %
pH (20 °C) ..... approx. 5.0
Water (K.F.) ..... approx. 5 %
Stability ..... approx. 12 months

Composition:
Chloroform ..... 480 ml/L
Isoamyl Alcohol ..... 20 ml/L
Phenol liquid ..... 500 ml/L

Code	Packaging
A2279,0100	100 ml
A2279,0250	250 ml
A2279,0500	500 ml

A2489 Phenol non-stabilized : Chloroform : Isoamyl Alcohol 25 : 24 : 1 + separate Tris solution

Without 0.1 % 8-Hydroxyquinoline

Specifications
Heavy metals ..... max. 0.0005 %
pH (20 °C) ..... approx. 5.0
Water (K.F.) ..... approx. 5 %
Stability ..... approx. 9 months

Composition:
Chloroform ..... 480 ml/L
Isoamyl Alcohol ..... 20 ml/L
Phenol liquid ..... 500 ml/L

Code	Packaging
A2489,0100	100 ml
A2489,0250	250 ml
A2489,0500	500 ml

A2493 Phenol stabilized : Chloroform : Isoamyl Alcohol 25 : 24 : 1 + separate Tris solution

Phenol stabilized with 0.1 % 8-Hydroxyquinoline

Specifications
Heavy metals ..... max. 0.0005 %
pH (20 °C) ..... approx. 5.0
Water (K.F.) ..... approx. 5 %
Stability ..... approx. 12 months

Composition:
Chloroform ..... 480 ml/L
Isoamyl Alcohol ..... 20 ml/L
Phenol liquid ..... 500 ml/L

Code	Packaging
A2493,0500	500 ml

Phenol Red

PR, Phenolsulfonephthalein

$C_{19}H_{14}O_5S$
M = 354.38 g/mol
CAS 143-74-8
EINECS 205-609-7
CS 29349990

Solid

WGK 1
Storage RT

131615 Phenol Red for analysis, ACS

pH indicator 6,8 yellow; 8,2 red

Specifications
Identity ..... IR passes test
T.L.C. ..... passes test

Maximum limit of impurities
Insoluble matter in C_2H_5OH ..... passes test
Loss on drying at 105 °C ..... 5 %
Transition interval according to ACS:
yellow 6.8
red 8.2

Code	Packaging
131615.1604	5 g
131615.1606	25 g
131615.1607	50 g
131615.1608	100 g

A7615 Phenol Red for cell culture

Specifications
Pyrogen test ..... passes test
Identity (IR) ..... passes test
Loss on drying ..... max. 1 %
Solubility (0.1 %; 95 % EtOH) ..... clear, yellow

Code	Packaging
A7615,0010	10 g

Phenol Red Sodium Salt

$C_{19}H_{13}NaO_5S$
M = 376.36 g/mol
CAS 34487-61-1
EINECS 252-057-8
CS 29349990

Solid

Storage RT

A4233 Phenol Red Sodium Salt

Specifications
Assay (photometr.) ..... min. 95 %
Insoluble matter ..... max. 0.5 %
Loss on drying ..... max. 8 %

Code	Packaging
A4233,0100	100 g

Phenol-1,1,2,2-Tetrachloroethane 60:40 w/w

1,1,2,2-Tetrachloroethane-Phenol

CS 38220000

Density ..... 1.234 kg/l
Liquid

UN2810
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage RT

Danger



H330 H310 H300 H314 H411

125396 Phenol-1,1,2,2-Tetrachloroethane 60:40 w/w for analysis

For determination of the viscosity of polymers, according to ASTM D 4603, ISO 1628

Specifications
Assay (as 1,1,2,2-Tetrachloroethane) 38-42 %
Assay (as Phenol) ..... 58-62 %
Water (H_2O) ..... 0.05 %

Code	Packaging
125396.1612	2.5 l

Phenolphthalein

3,3-bis-(4-Hydroxyphenyl)-1-(3H)-isoBenzofuranone, 3,3-bis-(4-Hydroxyphenyl)Phthalide

$C_{20}H_{14}O_4$
M = 318.33 g/mol
CAS 77-09-8
EINECS 201-004-7
CS 29322010

Melting Point ..... 258-263 °C
Solubility ..... Insoluble in water
Solid

WGK 3
Storage away from direct light.

Danger



H350 H361f H341

131325 Phenolphthalein (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (HPLC.) ..... 99.0 %
IR ..... IR passes test
A λ_{max} ..... > 680
λ_{max} ACS ..... 551-554 nm
Melting range ..... 258-263 °C
Range of Transition interval
according to ACS ..... passes test
T.L.C. ..... passes test

Maximum limit of impurities
pH transition interval: colourless 8.0
pH transition interval: violet red 10.0
Insoluble matter in C_2H_5OH ..... passes test
Loss on drying at 105 °C ..... 1.0 %
Residue on ignition (as SO_4) ..... 0.1 %
As ..... 0.0002 %
Cu ..... 0.0005 %
Fe ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
131325.1208	100 g
131325.1210	500 g

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

НевАреактив

141325 Phenolphthalein (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (HPLC.) calc. a.d.s. ..... 98.0-101.0 %
Assay (Iodom.) calc. a.d.s. ..... 98.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
Melting range ..... 258-263 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in C_2H_5OH ..... passes test
Loss on drying at 105 °C ..... 0.5 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.02 %
Colour of solution ..... passes test
Related substances (T.L.C.) ..... 0.5 %
Residual solvents (Ph. Eur.) ..... passes test
Fluorane ..... passes test
Cromatography impurities
(HPLC.) ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0002 %

Code	Packaging
141325.1208	100 g
141325.1210	500 g
141325.0416	25 kg

Phenolphthalein solution 2 %

3,3-bis-(4-Hydroxyphenyl)-1-(3H)-iso-Benzofuranone, 3,3-bis-(4-Hydroxyphenyl)Phtalide

$C_{20}H_{14}O_4$
M = 318.33 g/mol
CS 38220000

Density ..... 0.819 kg/l
Solubility ..... Miscible with water
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Warning



H226

172866 Phenolphthalein solution 2 %

pH indicator 8,0 colourless 10,0 red violet

Composition:
Phenolphtalein ..... 20 g
Ethanol absolute ..... 960 ml
Water ..... 40 ml

Identity ..... passes test

Maximum limit of impurities
pH transition interval: violet red 10.0
pH transition interval: colourless 8.0
Sensitivity test ..... passes test

Code	Packaging
172866.1210	500 ml
172866.1211	1000 ml
172866.1212	2,5 l

Phenolphthalein solutions 1 %

3,3-bis-(4-Hydroxyphenyl)-1-(3H)-iso-Benzofuranone, 3,3-bis-(4-Hydroxyphenyl)Phtalide

$C_{20}H_{14}O_4$
M = 318.33 g/mol
CS 38220000

Density ..... 0.903 kg/l
Solubility ..... Miscible with water
Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225 H350 H341

621327 Phenolphthalein solution 1 % VINIKIT for wine analysis

For determination of total acidity in wine and oils. pH indicator 8,0 colourless; 10,0 red violet

Specifications
pH transition interval: colourless 8.0
pH transition interval: violet red 10.0

Code	Packaging
621327.1209	250 ml

281327 Phenolphthalein solution 1 % for volumetric analysis

pH indicator 8,0 colourless; 10,0 red violet

Specifications
Identity ..... passes test
pH transition interval: colourless 8.0
pH transition interval: violet red 10.0
Sensitivity test ..... passes test

Code	Packaging
281327.1209	250 ml
281327.1210	500 ml
281327.1211	1000 ml
281327.1212	2,5 l

Phenolphthalein solution 0.2 %

3,3-bis-(4-Hydroxyphenyl)-1-(3H)-iso-Benzofuranone, 3,3-bis-(4-Hydroxyphenyl)Phtalide

$C_{20}H_{14}O_4$
M = 318.33 g/mol
CS 38220000

Density ..... 0.918 kg/l
Solubility ..... Miscible with water
Liquid

UN1993
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
Storage RT

Danger



H225

281326 Phenolphthalein solution 0.2 % for volumetric analysis

pH indicator 8,0 colourless; 10,0 red violet

Specifications
pH transition interval: colourless 8.0
pH transition interval: violet red 10.0

Code	Packaging
281326.1208	100 ml

Phenolphthalein solution 0.1 %

3,3-bis-(4-Hydroxyphenyl)-1-(3H)-iso-Benzofuranone, 3,3-bis-(4-Hydroxyphenyl)Phtalide

EINECS 201-004-7
CS 38220000

Liquid

UN1170
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225

283090 Phenolphthalein solution 0.1 % for volumetric analysis

Ready-to-use indicator solution in 96 % ethanol

Composition:
Phenolphthalein ..... 0.1 %

Code	Packaging
283090.1208	100 ml
283090.1211	1 L

Phenolphthalein Diphosphate Tetrasodium Salt

$C_{20}H_{12}Na_4O_{10}P_2$
M = 566.20 g/mol
CAS 68807-90-9
EINECS 283-818-2
CS 29322985

Solid

Storage 2-8 °C

A1826 Phenolphthalein Diphosphate Tetrasodium Salt

Specifications
Assay (titr., calc on dried subst.) ..... 95-101 %
Phenolphthalein ..... max. 0.1 %

Code	Packaging
A1826,0010	10 g
A1826,0200	200 g

2-Phenoxyethanol

Ethyleneglycol mono-Phenyl Ether, mono-Phenylglycol

$C_8H_{10}O_2$
M = 138.17 g/mol
CAS 122-99-6
EINECS 204-589-7
CS 29094980
Index Nr. 603-098-00-9

Melting Point ..... 11-13 °C
Boiling Point ..... 245 °C
Density ..... 1.110 kg/l
Solubility ..... in water 24 g/l at 20 °C
Refractive Index n20/D 1.537
Liquid

WGK 1
Storage RT

Warning



H302 H319

15A631 2-Phenoxyethanol, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 1.109-1.111
Water (H_2O) ..... 0.1 %

Code	Packaging
15A631.1611	1000 ml
15A631.1612	2.5 l
15A631.1214	5 l
15A631.0716	25 l

N-Phenylacetamide see Acetanilide

L-Phenylalanine

L-2-Amino-3-Phenylpropionic Acid

$C_9H_{11}NO_2$
M = 165.19 g/mol
CAS 63-91-2
EINECS 200-568-1
CS 29224985

Solubility ..... 27 g/L
Solid

WGK nwg
Storage RT

A3442 L-Phenylalanine BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 2 %, H_2O ..... -33.0 to -34.7°
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (1 %; H_2O) 5.4-6.0
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %

Code	Packaging
A3442,0100	100 g

A1344 L-Phenylalanine (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 2 %, H_2O, calc on dried subst. ..... -33,0° - -35,5°
α25 °C/D; 2 %, H_2O ..... -32.7 to -34.7°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.3 %
pH (1 %; H_2O; 25 °C) 5.4-6.0
Sulfated ash ..... max. 0.1 %
Ninhydrin positive substances ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.001 %

Code	Packaging
A1344,0100	100 g
A1344,1000	1 kg

Phenylamine see Aniline

N-Phenylaniline see Diphenylamine

1-(4-(Phenylazo) Phenylazo)-2-Naphtol see Sudan III (C.I. 26100)

Phenylethylglucosinolate Potassium Salt see Gluconasturtiin

mono-Phenylglycol see 2-Phenoxyethanol

Phenylmethanesulfonyl Fluoride see PMSF

Phomin see Cytochalasin B

Phorbol-12-Myristate-13-Acetate (PMA)

12-O-Tetradecanoylphorbol-13-Acetate, TPA

$C_{36}H_{56}O_8$
M = 616.84 g/mol
CAS 16561-29-8
CS 29159000

Solid

Storage -20 °C, protected from light

Warning



H312 H315

A0903 Phorbol-12-Myristate-13-Acetate (PMA)

Specifications
Assay (HPLC) ..... min. 98 %
Solubility (DMSO) ..... clear

Code	Packaging
A0903,0001	1 mg
A0903,0005	5 mg

HeBaPeakTMB

Phosphatase, alkaline from calf intestine (CIP)

Calf Intestine Phosphatase, Phosphohydrolase (alkaline optimum)

M = ~ 80000 g/mol
CAS 9001-78-9
EINECS 232-631-4
CS 35079090

Solid

Storage -20 °C

A3907 Phosphatase, alkaline from calf intestine (CIP) Grade I

Freeze-dried powder

Specifications
Activity ..... approx. 100 U/mg

Code	Packaging
A3907,0100	100 mg

A3810 Phosphatase, alkaline from calf intestine (CIP) Grade II

Freeze-dried powder

Specifications
Activity .....min. 20 U/mg

Code	Packaging
A3810,0001	1 g

Phosphate buffered saline see PBS buffer (Dulbecco's) - Powder

L- see Lecithins

Phosphocreatine see Creatine Phosphate Disodium Salt 4-hydrate

Phosphoenolpyruvate Monopotassium Salt

PEP-K, Phosphoenolsuccinic Acid Potassium Salt

$C_3H_4KO_6P$
M = 206.13 g/mol
CAS 4265-07-0
EINECS 224-247-0
CS 29189990

Solid

Storage 2-8 °C

A2271 Phosphoenolpyruvate Monopotassium Salt BioChemica

Specifications
Assay (enzym.) .....min. 98 %
Loss on drying .....max. 1 %

Code	Packaging
A2271,0250	250 mg
A2271,0001	1 g
A2271,0005	5 g

Phosphoenolsuccinic Acid Potassium Salt see Phosphoenolpyruvate Monopotassium

6-Phosphogluconic Acid Trisodium Salt

D-Gluconate-6-Phosphate Trisodium Salt

$C_6H_{10}Na_3O_{10}P$
M = 342.08 g/mol
CAS 53411-70-4
EINECS 258-543-6
CS 29181600

Solid

WGK 1
Storage -20 °C

A1825 6-Phosphogluconic Acid Trisodium Salt BioChemica

Specifications
Assay (titr.) .....min. 99 %
Solubility (5 %; H_2O) .....clear, colorless
Water (K.F.) .....max. 16 %

Code	Packaging
A1825,0001	1 g

Phosphomolybdic Acid x-hydrate

Dodecamolybdophosphoric Acid, Molybdophosphoric Acid

$H_3[P(Mo_3O_{10})_4] \cdot xH_2O$
CAS 51429-74-4
EINECS 234-713-5
CS 28111980

Melting Point .....78-90 °C
Solubility .Soluble in water, ethanol and ether.
Solid

UN3260
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Danger



H314

131031 Phosphomolybdic Acid x-hydrate for analysis, ACS

Specifications
Identity .....IR passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) .....0.02 %
Nitrogen compounds (as N) .....0.02 %
Ammonium (NH_4) .....0.01 %
Sulfate (SO_4) .....0.025 %
Heavy metals (as Pb) .....0.005 %
Ca ..... 0.02 %
Fe ..... 0.002 %
K ..... 0.05 %
Na ..... 0.05 %
Pb ..... 0.003 %

Code	Packaging
131031.1606	25 g
131031.1608	100 g

Phosphonic Acid see Phosphorous Acid

Printed on FSC® certified paper from well managed forests

ortho-Phosphoric Acid 85 %

H_3PO_4
M = 98.00 g/mol
CAS 7664-38-2
EINECS 231-633-2
CS 28092000
Index Nr. 015-011-00-6

Melting Point ..... 21 °C
Boiling Point ..... 158 °C
Density ..... 1.70 kg/l
Liquid

UN1805
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314

131032 ortho-Phosphoric Acid 85 % for analysis, ACS, ISO

Specifications
Minimum assay (Acidim.) ..... 85.0 %

Maximum limit of impurities
APHA colour 10
Acidity Volatile (as CH_3COOH) ..... 0.001 %
Insoluble matter in H_2O ..... 0.001 %
Reducing substance to $KMnO_4$ (as O) ..... 0.001 %
Chloride (Cl) ..... 0.0002 %
Sulfate (SO_4) ..... 0.003 %
Silicate SiO2 ..... 0.025 %
Nitrate (NO_3) ..... 0.0005 %
As ..... 0.0001 %
Heavy metals (as Pb) ..... 0.001 %

Metals by ICP [in mg/Kg (ppm)]

Ag	1	Al	5	Cr	5
Au	1	B	1	Fe	10
Ba	5	Be	1	In	5
Bi	1	Ca	10	Li	5
Cd	1	Co	1	Mn	0.5
Cu	1	Ga	1	Na	250
Hg	1	K	5	Pb	1
Mg	10	Mo	1	Sb	2
Ni	1	Pt	5		

Code	Packaging
131032.1211	1000 ml
131032.1212	2.5 l
131032.1214	5 l
131032.0716	25 l

141032 ortho-Phosphoric Acid 85 % (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 85.0-88.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Precipit. substances by NH_4OH ... passes test
Residual solvents (Ph. Eur./USP) . passes test
Hypophosphorous and phosphorous acid ..... passes test
Alkaline phosphates ..... passes test
Nitrate ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
As ..... 0.00015 %
Cd ..... 0.00005 %
Fe ..... 0.005 %
Hg ..... 0.00015 %
Pb ..... 0.00005 %

Code	Packaging
141032.1211	1000 ml
141032.1212	2.5 l
141032.1214	5 l
141032.0739	20 l
141032.0716	25 l

201032 ortho-Phosphoric Acid 85 % (F.C.C.) food grade

Specifications
Assay (Acidim.), not less than ..... 85 %
Identity
Phosphate ..... passes test
Appearance ..... passes test
Acidity Volatile (as CH_3COOH), not more than ..... 10 ppm
Chloride (Cl), not more than ..... 0.02 %
Sulfate (as $CaSO_4$), not more than ..... 0.15 %
Fluoride, not more than ..... 10 ppm
Nitrate (as $NaNO_3$), not more than ..... 5 ppm
Arsenic (as As), not more than ..... 3 ppm
Cadmium (Cd), not more than ..... 1 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead (Pb), not more than ..... 3 ppm
Heavy metals (as Pb), not more than .... 5 ppm
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201032.1214	5 l

211032 ortho-Phosphoric Acid 85 % technical grade

Specifications
Assay (Acidim.) ..... 84 %
Chloride (Cl) ..... 0.01 %
Nitrate (NO_3) ..... 0.01 %
Fe ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
211032.1214	5 l
211032.0716	25 l

ortho-Phosphoric Acid 50 %

H_3PO_4
M = 98.00 g/mol
CAS 7664-38-2
EINECS 231-633-2
CS 28092000
Index Nr. 015-011-00-6

Density ..... 1.33 kg/l
Solubility ..... Soluble in water.
Liquid

UN1805
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314

121660 ortho-Phosphoric Acid 50 % for analysis

Specifications
Assay (Acidim.) ..... 50-51 %

Maximum limit of impurities
Acidity Volatile (as CH_3COOH) ..... 0.001 %
Reducing substance to $KMnO_4$ (as O) ..... 0.001 %
Chloride (Cl) ..... 0.0005 %
Sulfate (SO_4) ..... 0.006 %
Silicate (as SiO_2) ..... 0.025 %
Nitrate (NO_3) ..... 0.0005 %
As ..... 0.0001 %
Ca ..... 0.005 %
Cd ..... 0.0001 %
Co ..... 0.0001 %
Cr ..... 0.0001 %
Cu ..... 0.0001 %
Fe ..... 0.001 %
K ..... 0.0005 %
Mg ..... 0.001 %
Mn ..... 0.0001 %
Na ..... 0.05 %
Ni ..... 0.0001 %
Pb ..... 0.0001 %
Sb ..... 0.0002 %
Zn ..... 0.0002 %

Code	Packaging
121660.1611	1000 ml
121660.1214	5 l

ortho-Phosphoric Acid 25 %

H_3PO_4
M = 98.00 g/mol
CAS 7664-38-2
EINECS 231-633-2
CS 28092000
Index Nr. 015-011-00-6

Melting Point ..... 21 °C (85 %)
Boiling Point ..... 158 °C (85 %)
Density ..... 1.71 kg/l (85 %) (20 °C)
Liquid

UN1805
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H290 H314

147067 ortho-Phosphoric Acid 25 % pure

Specifications
Assay (titr.) ..... min. 25 %
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.01 %
As ..... max. 0.0002 %
Fe ..... max. 0.005 %

Code	Packaging
147067.1211	1 L
147067.1212	2.5 L
147067.1214	5 L

HebaPeaktnb

ortho-Phosphoric Acid 10 %

H_3PO_4
M = 98.00 g/mol
CAS 7664-38-2
EINECS 231-633-2
CS 28092000
Index Nr. 015-011-00-6

Liquid

UN1805
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H290 H315 H319

127143 ortho-Phosphoric Acid 10 % for analysis

Specifications
Assay (titr.) ..... approx. 10 %
Chloride ..... max. 0.0002 %
Nitrate ..... max. 0.0005 %
Phosphite ..... max. 0.005 %
Sulfate ..... max. 0.005 %
Ca ..... max. 0.005 %
Cu ..... max. 0.0001 %
Fe ..... max. 0.001 %
K ..... max. 0.0005 %
Mg ..... max. 0.001 %
Na ..... max. 0.02 %
Ni ..... max. 0.0001 %
Pb ..... max. 0.0001 %
Zn ..... max. 0.0002 %

Code	Packaging
127143.1211	1 L

147143 ortho-Phosphoric Acid 10 % (Ph. Eur., NF) pure, pharma grade

Specifications
Assay (titr.) ..... 9.5-10.5 % (m/m)
Assay (titr.) ..... 9.5-10.5 % (m/v)
Alkali phosphates ..... passes test
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.0001 %
Identity ..... passes test
NH_3-precipitable subst. ..... passes test
Chloride ..... max. 0.0006 %
Hypophosphite / Phosphite ..... passes test
Nitrate ..... passes test
Sulfate (Ph. Eur.) ..... max. 0.001 %
Sulfate (USP) ..... passes test
As ..... max. 0.00002 %
Fe ..... max. 0.0006 %

Code	Packaging
147143.1214	5 L
147143.0715	10 L

ortho-Phosphoric Acid 5 %

H_3PO_4
M = 98.00 g/mol
CAS 7664-38-2
EINECS 231-633-2
CS 28092000
Index Nr. 015-011-00-6

Liquid

UN1805
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H290

147146 ortho-Phosphoric Acid 5 % pure

Specifications
Assay (titr.) ..... min. 5 %
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.01 %
As ..... max. 0.0002 %
Fe ..... max. 0.005 %

Code	Packaging
147146.0715	10 L

meta-Phosphoric Acid stabilized with $NaPO_3$

$(HPO_3)_n$
M = 79.98 (n) g/mol
CAS 37267-86-0
EINECS 253-433-4
CS 28092000

Solubility ..... Soluble in water.
Solid

UN3260
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314

135324 meta-Phosphoric Acid stabilized with $NaPO_3$ (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (as HPO_3) ..... 33.5-36.5 %

Maximum limit of impurities
Reducing substances
of $KMnO_4$ (en H_3PO_3) ..... 0.01 %
Chloride (Cl) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
Stabilizer ($NaPO_3$) ..... 57.0-63.0 %
Nitrate (NO_3) ..... 0.001 %
Heavy metals (as Pb) ..... 0.005 %
As ..... 0.0001 %
Cd ..... 0.001 %
Co ..... 0.0005 %
Cu ..... 0.001 %
Fe ..... 0.005 %
Mn ..... 0.0005 %
Ni ..... 0.001 %
Pb ..... 0.001 %
Zn ..... 0.001 %

Code	Packaging
135324.1208	100 g
135324.1209	250 g
135324.1211	1000 g

Phosphoric Anhydride see di-Phosphorus Pentoxide

Phosphorous Acid

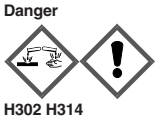
Phosphonic Acid

H_3PO_3
M = 82.00 g/mol
CAS 13598-36-2
CS 28111980
Index Nr. 015-157-00-0

Melting Point ..... 73 °C
Boiling Point ..... 200 °C
Solid

UN2834
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H302 H314

123573 Phosphorous Acid 98 % for analysis

Specifications
Assay (titr.) ..... min. 98 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.01 %
Ca ..... max. 0.01 %
Cu ..... max. 0.005 %
Fe ..... max. 0.005 %
Ni ..... max. 0.005 %
Pb ..... max. 0.005 %
Zn ..... max. 0.005 %

Code	Packaging
123573.1211	1 kg

143573 Phosphorous Acid pure

Specifications
Minimum assay ..... 98.5 %
Chloride (as HCl) ..... 0.005 %
Fe ..... 0.005 %

Code	Packaging
143573.0416	25 kg

di-Phosphorus Pentoxide

P_2O_5
M = 141.94 g/mol
CAS 1314-56-3
EINECS 215-236-1
CS 28091000
Index Nr. 015-010-00-0

Melting Point ..... 569 °C
Solubility Reacts violently with water and ethanol. Miscible with ether, chloroform or benzene
Solid

UN1807
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

131154 di-Phosphorus Pentoxide (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (Acidim.) .....98.0 %

Maximum limit of impurities
Insoluble matter in H_2O .....0.02 %
Nitrogen compounds (as N) ..... 0.002 %
Phosphorus(III) oxide (P_2O_3) .....0.02 %
As ..... 0.005 %
Heavy metals (as Pb) ..... 0.005 %

Metals by ICP [in mg/Kg (ppm)]

Al	5	Ba	5	Mo	5
Be	5	Bi	5	Ni	5
Ca	50	Cd	5	Pt	5
Co	5	Cr	5	Si	5
Cu	5	Fe	5	Sr	5
Ga	5	Hg	10	Tl	5
K	50	Li	5	Zn	5
Mg	5	Mn	5		

Mo	5	Na	50
Ni	5	Pb	5
Pt	5	Sb	5
Si	5	Sn	5
Sr	5	Ti	5
Tl	5	V	5
Zn	5	Zr	5

Code	Packaging
131154.1210	500 g

141154 di-Phosphorus Pentoxide pure

Specifications
Assay (Acidim.) .....98 %
Insoluble matter in H_2O .....0.05 %
Nitrogen compounds (as N) .....0.01 %
Phosphorus(III) oxide (P_2O_3) ..... 0.05 %
Cu ..... 0.005 %
Fe ..... 0.005 %
Ni .....0.005 %
Pb .....0.005 %

Code	Packaging
141154.1210	500 g
141154.1211	1000 g

Phosphorus(V) oxide see di-Phosphorus Pentoxide

Phosphotungstic Acid hydrate

Phosphowolframic acid, Tungstophosphoric acid

$H_3[P(W_3O_{10})_4] \cdot xH_2O$
M = 2,880.17 (anh) g/mol
CAS 12067-99-1
EINECS 235-087-6
CS 28111980

Melting Point ..... 107 °C
Solubility . Soluble in water, ethanol and ether.
Solid

WGK nwg
Storage RT

121033 Phosphotungstic Acid hydrate for analysis

Specifications
Identity .....IR passes test

Maximum limit of impurities
Insoluble matter in H_2O .....0.01 %
Insoluble matter in C_2H_5OH ..... passes test
Loss on drying 800 °C .....17 %
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.002 %
Sulfate (SO_4) ..... 0.02 %
Cd ..... 0.001 %
Co ..... 0.001 %
Cu ..... 0.001 %
Fe ..... 0.002 %
K .....0.03 %
Na .....0.03 %
Ni .....0.001 %
Pb .....0.002 %
Zn .....0.001 %

Code	Packaging
121033.1606	25 g
121033.1608	100 g

Phosphowolframic Acid see Phosphotungstic Acid hydrate

Picric Acid moistened with ~ 33 % of H_2O

2,4,6-Trinitrophenol

$C_6H_3N_3O_7$
M = 229.11 g/mol
CAS 88-89-1
EINECS 201-865-9
CS 29089900
Index Nr. 609-009-00-X

Melting Point ..... 122.5 °C
Boiling Point ..... > 300 °C
Solubility ..... Very slightly soluble in water.
Solid

UN1344
Class/PG 4.1/I
ADR 4.1/I · IMDG 4.1/I · IATA 4.1/I
WGK 2
Storage above 0 °C

Danger



EUH001 H331 H311 H301

141048 Picric Acid moistened with ~ 33 % of H_2O (Reag. Ph. Eur.) pure

Specifications
Assay (Acidim.) .....98.0 %
Identity .....IR passes test
Melting range ..... 119-122 °C
Residue on ignition (as SO_4) .....0.1 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) .....0.5 %
Insoluble and resinous substances ..... 0.1 %
(Analysis applied to the dry substance)

Code	Packaging
141048.1609	250 g
141048.1610	500 g
141048.1214	5 kg
141048.0716	25 kg

151048 Picric Acid, 98 % moistened with ~ 33 % of H_2O for synthesis

Specifications
Assay .....98 %
Identity .....IR passes test
(Analysis applied to the dry substance)

Code	Packaging
151048.1608	100 g
151048.1610	500 g

HeBaPeaKTMB

Picric Acid saturated solution

2,4,6-Trinitrophenol - Solution, saturated

$C_6H_3N_3O_7$
M = 229.11 g/mol
CAS 88-89-1
EINECS 201-865-9
CS 29089900
Index Nr. 609-009-00-X

Density .....1.006 kg/l
Liquid

WGK 2
Storage RT

251049 Picric Acid saturated solution for clinical diagnosis

for determination of alcohol and creatinine

Specifications
Minimum assay (w/v) ..... 1.2 %

Code	Packaging
251049.1610	500 ml

A2520 Picric Acid solution 1.2 % BioChemica

Specifications
Assay ..... approx. 12 g/L

Code	Packaging
A2520,0500	500 ml
A2520,1000	1 L
A2520,2500	2.5 L

Pimelic Ketone see Cyclohexanone

PIPES

Piperazine-1,4-bis-(2-Ethanesulfonic Acid)

$C_8H_{18}N_2O_6S_2$
M = 302.37 g/mol
CAS 5625-37-6
EINECS 227-057-6
CS 29335995

Solid

WGK 1
Storage RT

A3495 PIPES for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) .....min. 99 %
Water .....max. 1 %

Fe .....max. 0.001 %
Pb .....max. 0.0001 %
A (1 cm/0.1 M in 0.1 M NaOH)

260 nm .....max. 0.05
280 nm .....max. 0.04

Code	Packaging
A3495,0100	100 g
A3495,0250	250 g

A1079 PIPES for buffer solutions

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) ..... max. 0.0005 %
Water .....max. 1 %
A (1 cm/0.1 M in 0.1 M NaOH)
260 nm .....max. 0.05
280 nm .....max. 0.04

Code	Packaging
A1079,0100	100 g
A1079,0250	250 g
A1079,0500	500 g
A1079,1000	1 kg

Plate Count Agar

CS 38220000

Solid

Storage RT

A3369 Plate Count Agar

Specifications
pH before autoclaving ..... approx. 7.0 (20 °C)

Composition:
Agar ..... 15.0 g/L
Glucose ..... 1.0 g/L
Peptones .....5.0 g/L
Yeast extract .....2.5 g/L

Code	Packaging
A3369,0500	500 g
A3369,5000	5 kg

Platinic Chloride see Hexachloroplatinic(IV) Acid 6-hydrate

Pluronic® F-68

Synperonic® F-68

M = ~ 8400 g/mol
CAS 9003-11-6
CS 34021300

Melting Point ..... approx. 55 °C
Solid

WGK 1
Storage RT

A1288 Pluronic® F-68 BioChemica

®trademark of ICI

Specifications
pH (5 %; H_2O) 5.0-8.0
Solubility (1 %; H_2O) .....clear

Code	Packaging
A1288,0100	100 g
A1288,0500	500 g
A1288,9010	10 kg

PMS see Phenazine Methosulfate

PMSF

Phenylmethanesulfonyl Fluoride, Benzylsulfonyl Fluoride

$C_7H_7FO_2S$
M = 174.19 g/mol
CAS 329-98-6
EINECS 206-350-2
CS 29049095

Melting Point ..... 91-94 °C
Solid

UN2923
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
WGK 3
Storage RT

Danger



H301 H314

A0999 PMSF BioChemica

Specifications
Assay (G.C.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Solubility (10 %, EtOH) ..... clear
Sulfated ash ..... max. 0.1 %
Water (K.F.) ..... max. 0.5 %

Code	Packaging
A0999,0005	5 g
A0999,0025	25 g
A0999,0100	100 g
A0999,1000	1 kg
A0999,9025	25 kg

Polyanetholesulphonic Acid Sodium Salt

Sodium Polyanetholesulphonate

$(C_{10}H_{11}O_4S \cdot Na)_n$
CAS 55963-78-5
CS 29093090

Solubility ..... Miscible with alcohol and ether.
Solid

Storage RT

Warning



H319 H335 H315

A9727 Polyanetholesulphonic Acid Sodium Salt BioChemica

Specifications
Identity ..... IR passes test
λ_{max} ABS in H_2O 0.02 g/l ..... 283-285 nm
pH sol. 1 % in NaCl 0.85 % 5.6-7.0

Maximum limit of impurities
ABS max. in H_2O 0.02 g/l 0.14-0.20
Residue on ignition (as SO_4)
calc. a.d.s. ..... 27.2-29.6 %

Propanol ..... 0.2 %
Ethanol ..... 0.2 %
Water (H_2O) ..... 8.0-15.0 %
Ca ..... 0.1 %

Code	Packaging
A9727,0025	25 g

Polyetherin A see Nigericin Sodium Salt

Polyethylene Glycol 200

Macrogol 200, Carbowax 200, Polyglycol 200, Polyoxyethylene 200

$HO(C_2H_4O)_nH$
CAS 25322-68-3
EINECS 500-038-2
CS 39072011

Liquid

WGK 1
Storage RT

A0445 Polyethylene Glycol 200 BioChemica

Specifications
Average M 190-210
Hydroxyl-No. 535-590
Water ..... max. 2 %

Code	Packaging
A0445,5000	5 L

Polyethylene Glycol 300

Macrogol 300, Carbowax 300, Polyglycol 300, Polyoxyethylene 300

$HO(C_2H_4O)_nH$
CAS 25322-68-3
EINECS 500-038-2
CS 39072011

Liquid

WGK 1
Storage RT

A2853 Polyethylene Glycol 300 BioChemica

Specifications
Average M 285-315
Hydroxyl-No. 356-394
Water ..... max. 2 %

Code	Packaging
A2853,1000	1 L
A2853,5000	5 L

Polyethylene Glycol 400

Macrogol 400, Carbowax 400, Polyoxyethylene 400, Polyglycol 400

$HO(C_2H_4O)_nH$
CAS 25322-68-3
EINECS 500-038-2
CS 39072011

Liquid

WGK 1
Storage RT

142436 Polyethylene Glycol 400 (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 4.5-7.5
Viscosity dynamic at 20 °C ..... 105-130 mPa.s
Viscosity kinematic at 20 °C ..... 94-116 cSt
Viscosity 98.9 ± 0.3 °C ..... 6.8-8.0 cSt
Average molecular weight 380-420

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in in H_2O ..... passes test
Reducing substances ..... passes test
Residue on ignition (as SO_4) ..... 0.1 %
Hydroxyl value 264-300
Residual solvents (Ph. Eur./USP) . passes test
1,4-Dioxan (G.C.) ..... 0.001 %
Ethylene Glycol and Diethylene
Glycol (G.C.) ..... 0.25 %
Formaldehyde (CH_2O) ..... 0.0015 %
Ethylene Oxide (G.C.) ..... 0.0001 %

Water (H_2O) ..... 2 %
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0003 %

Code	Packaging
142436.1611	1000 ml
142436.1214	5 l
142436.0716	25 l

HeBaPeaKTMB

Printed on FSC® certified paper from well managed forests

162436 Polyethylene Glycol 400 for synthesis

Specifications
Identity .....IR passes test
Density 20/4 ..... 1.125-1.128
Average molecular weight 380-420
Hydroxyl value 267-295

Code	Packaging
162436.1214	5 l
162436.0716	25 l

A2203 Polyethylene Glycol 400 BioChemica

Specifications
Average M 380-420
Hydroxyl-No. 264-300
Melting range .....4-8 °C
Water .....max. 2 %

Code	Packaging
A2203,0500	500 ml
A2203,1000	1 L

Polyethylene Glycol 600

Polyoxyethylene 600, Carbowax 600, Polyglycol 600, Macrogol 600

$HO(C_2H_4O)_nH$
CAS 25322-68-3
EINECS 500-038-2
CS 39072011
Density .....1.13 g/cm³ (20 °C)
Liquid
WGK 1
Storage RT

A5336 Polyethylene Glycol 600 BioChemica

Specifications
Average M 570-630
Heavy metals (as Pb) ..... max. 0.002 %
Hydroxyl-No. 178-197
Identity .....passes test
Melting range .....17-22 °C
Sulfated ash .....max. 0.2 %
Water .....max. 2 %

Code	Packaging
A5336,5000	5 L

Polyethylene Glycol 1500

Carbowax 1500, Macrogol 1500, PEG 1500

$HO(C_2H_4O)_nH$
CAS 25322-68-3
EINECS 203-473-3
CS 39072011
Melting Point .....42-48 °C
Solubility ..... in water 650 g/l at 20 °C
Solid
WGK 1
Storage Not recommended in areas with a very hot climate

162525 Polyethylene Glycol 1500 for synthesis

Specifications
Identity .....IR passes test
Melting range ..... 42-48 °C
Average molecular weight 1400-1600
Hydroxyl value 66-80

Code	Packaging
162525.0416	25 kg

Polyethylene Glycol 4000

Polyoxyethylene 4000, Carbowax 4000, Polyglycol 4000, Macrogol 4000

$HO(C_2H_4O)_nH$
CAS 25322-68-3
EINECS 500-038-2
CS 39072011
Solid
WGK 1
Storage RT

142438 Polyethylene Glycol 4000 flakes (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to
Pharmacopoeias: ..... passes test
pH sol.5 % 4.5-7.5
Freezing point ..... 53-58 °C
Viscosity of 50 % w/w sol.
kinematic at 20 °C ..... 102-158 cSt
Viscosity at 99 °C ..... 110-158 cSt
Viscosity of 50 % w/w sol.
dynamic at 20 °C ..... 110-170 mPa.S
Average molecular weight 3600-4400

Maximum limit of impurities
Appearance of solution .....passes test
Acidity or alkalinity .....passes test
Reducing substances .....passes test
Residue on ignition (as SO_4) .....0.1 %
Hydroxyl value 25-32
Residual solvents (Ph. Eur./USP) .passes test
1,4-Dioxan (G.C.) .....0.001 %
Formaldehyde (CH_2O) .....0.0015 %
Ethylene Oxide (G.C.) .....0.0001 %
Water (H_2O) .....1 %
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
As ..... 0.0003 %

Code	Packaging
142438.1211	1000 g

162438 Polyethylene Glycol 4000 flakes for synthesis

Specifications
Identity .....IR passes test
Melting range ..... 58-62 °C
Average molecular weight 3500-4500
Hydroxyl value 25-35

Code	Packaging
162438.1211	1000 g

A1249 Polyethylene Glycol 4000 BioChemica

Specifications
Average M 3500-4500
Hydroxyl-No. 25-32
Melting range ..... 54-58 °C
pH (5 %; H_2O; 20 °C) 4.0-7.0
Water .....max. 1 %

Code	Packaging
A1249,1000	1 kg
A1249,5000	5 kg

Polyethylene Glycol 6000

Macrogol 6000, Polyoxyethylene 6000, Polyglycol 6000, Carbowax 6000

$HO(C_2H_4O)_nH$
CAS 25322-68-3
EINECS 500-038-2
CS 39072011
Solid
WGK 1
Storage RT

162439 Polyethylene Glycol 6000 flakes for synthesis

Specifications
Identity .....IR passes test
Melting range ..... 59-64 °C
Average molecular weight 5000-7000
Hydroxyl value 16-23

Code	Packaging
162439.1211	1000 g
162439.0914	5 kg

A3099 Polyethylene Glycol 6000 for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
Average M 5000-7000
Heavy metals (as Pb) .....max. 0.001 %
Hydroxyl-No. 16-22
Melting range .....56-61 °C
pH (5 %; H_2O; 20 °C) 4.5-7.0
Water .....max. 0.5 %

Code	Packaging
A3099,0250	250 g

A1387 Polyethylene Glycol 6000 BioChemica

Specifications
Average M 5000-7000
Heavy metals (as Pb) .....max. 0.005 %
Hydroxyl-No. 16-22
pH (5 %; H_2O; 20 °C) 4.5-7.0
Water ..... max. 1 %

Code	Packaging
A1387,1000	1 kg
A1387,5000	5 kg
A1387,9025BW	25 kg

163325 Polyethylene Glycol 6000 powder for synthesis

Specifications
Identity .....IR passes test
Melting range ..... 59-64 °C
Average molecular weight 5000-7000
Hydroxyl value 16-23

Code	Packaging
163325.1211	1000 g

Polyethylene Glycol 8000

Carbowax 8000, Polyglycol 8000, Macrogol 8000, Polyoxyethylene 8000

$HO(C_2H_4O)_nH$
CAS 25322-68-3
EINECS 500-038-2
CS 39072011

Solid

WGK 1
Storage RT

146224 Polyethylene Glycol 8000 (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 4.5-7.5
Freezing point ..... 55-62 °C
Viscosity at 99 °C ..... 470-900 cSt
Viscosity of 50 % w/w sol.
kinematic 20 °C ..... 240-472 cSt
Viscosity of 50 % w/w sol.
dynamic 20 °C .....260-510 mPa.s
Average molecular weight 7000-9000

Maximum limit of impurities
Appearance of solution .....passes test
Acidity or alkalinity .....passes test
Insoluble matter in in H_2O .....passes test
Reducing substances .....passes test
Residue on ignition (as SO_4) ..... 0.1 %
Hydroxyl value 12-16
Residual solvents (Ph. Eur./USP) . passes test
1,4-Dioxan (G.C.) .....0.001 %
Formaldehyde (CH_2O) .....0.0015 %
Ethylene Oxide (G.C.) .....0.0001 %
Water (H_2O) .....1 %
Heavy metals (as Pb) .....0.0005 %
As .....0.0003 %

Code	Packaging
146224.1211	1000 g
146224.0914	5 kg
146224.0416	25 kg

A2204 Polyethylene glycol 8000 BioChemica

Specifications
Average M 7000-9000
Heavy metals .....max. 0.005 %
pH (5 %; H_2O; 20 °C) 5.5-7.0
Solubility (5 %; H_2O) ..... clear, colorless

Code	Packaging
A2204,0500	500 g
A2204,1000	1 kg

Polyglycol 600 see Polyethylene Glycol 600

Polyglycol 1500 see Polyethylene Glycol 1500

Polymerases

A9755 *Green Taq* DNA Polymerase

For direct loading of PCR product onto agarose gels. Contains two tracking dyes (blue and yellow) that separate during electrophoresis.

CS 35079090

Storage -20 °C, avoid repeated freeze-thaw cycles.

Specifications
DNases .....not detectable
PCR: .....performance tested
Concentration .....5 U/µl

Code	Packaging
A9755,0500	500 U

A9800 *Pfu* DNA Polymerase

CS 35079090

Storage -20 °C, avoid repeated freeze-thaw cycles.

Specifications
Pfu DNA polymerase-generated PCR fragments exhibit the lowest error rate of any thermostable DNA Polymerase, a 12-fold increase in fidelity of DNA synthesis compared with *Taq* DNA polymerase
Supplied with:. . Reaction buffer (10X) with $MgSO_4$ and Reaction buffer (10X) without $MgSO_4$
$MgSO_4$ solution (100 mM)
Dilution buffer for polymerase
Concentration. ..... 5 U/µl

Code	Packaging
A9800,0500	500 U

A5231 *SuperHot Taq* DNA Polymerase

CS 35079090

Storage -20 °C

Specifications
Unit definition: see comment
supplied with reaction buffer (10X)
testet for Real Time PCR
Concentration .....4.5-5.0 U/µl

Code	Packaging
A5231,0200	200 U

A5186 *Taq* DNA Polymerase

Origin from *Thermus aquaticus*

CS 35079090

Storage -20 °C

Specifications
Unit definition: see comment.
supplied with reaction buffer (10X)
Concentration .....5000 Units/ml

Code	Packaging
A5186,0500	500 U
A5186,2500	2500 U

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

A5434 *Taq* DNA Polymerase DNA-free

Origin from *Thermus aquaticus*, recombinant (*E. coli*)

CS 35079090

Storage -20 °C

Specifications
Unit definition: see comment.
supplied with reaction buffer (10X)
Concentration ..... 5000 Units/ml
Bacterial DNA .... not detectable (min. 40 PCR cycle)

Code	Packaging
A5434,0500	500 U

A9750 PCRDirect DNA Polymerase

Enables direct PCR from blood or other crude samples without prior template purification.

Storage -20 °C, avoid repeated freeze-thaw cycles.

CS 35079090

Specifications
DNases ..... not detectable
PCR: ..... performance tested
Concentration ..... 4.2 U/µl

Code	Packaging
A9750,0400	400 reac.

Polymyxin Acriflavine LiCl Ceftazidime Esculin Mannitol Agar see PALCAM Listeria Agar Base (Dehydrated Culture Media) for microbiology

Polymyxin B Sulfate

Aerosporin

$C_{55}H_{96}N_{16}O_{13} \cdot 2H_2SO_4$
M = 1385.63 g/mol
CAS 1405-20-5
EINECS 215-774-7
CS 29419000

Solid

Storage RT, protected from light

Warning



H302

A0890 Polymyxin B Sulfate BioChemica

Specifications
Activity (dried subst.) ..... approx. 7000 I.U./mg
Loss on drying ..... max. 5 %
pH (2 %; H_2O) 5.0-7.0
Sulfated ash ..... max. 1 %
Sulfate ..... max. 17 %

Code	Packaging
A0890,0001	1 g
A0890,0005	5 g
A0890,0010	10 g

Polymyxin E disulfate see Colistin Sulfate

Polyoxyethylene 1500 see Polyethylene Glycol 1500

Polyoxyethylene Sorbitane mono-Oleate see Tween® 80

Polysorbate 20 see Tween® 20

Polysorbate 80

Polyoxyethylene 20 Sorbitane mono-Oleate

CAS 9005-65-6
EINECS 500-019-9
CS 34021300

Boiling Point ..... > 100 °C
Density ..... 1.075 kg/l
Solubility ..... Soluble in water.
Refractive Index n20/D 1.472
Liquid

WGK 1
Storage away from direct light.

146075 Polysorbate 80 (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to
Pharmacopoeias: ..... passes test
Density 25/25 ..... 1.06-1.09
Viscosity at 25 °C ..... 300-500 cSt

Maximum limit of impurities
Residue on ignition (as SO_4) ..... 0.2 %
Acidity value 2.0
Hydroxyl value 65-80
Iodine value 18-24
Peroxide value 10.0
Saponification value 45-55
Composition of fatty acids:
Total ashes ..... 0.25 %
Residual solvents (Ph. Eur./USP) . passes test
Myristic acid ..... 5.0 %
Palmitic acid ..... 16.0 %
Palmitoleic acid ..... 8.0 %
Stearic acid ..... 6.0 %
Oleic acid ..... 58.0-85.0 %
Linoleic acid ..... 18.0 %
Linolenic acid ..... 4.0 %
Dioxan ..... 0.001 %
Ethylene Oxide ..... 0.0001 %
Reducing impurities ..... passes test
Water (H_2O) ..... 3.0 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
146075.1611	1000 ml
146075.1214	5 l
146075.0716	25 l

Polyvinyl Alcohol 7200

M = approx. 72000 g/mol
CAS 9002-89-5
EINECS 215-774-7
CS 39053000

Melting Point ..... 265 °C
Solid

Storage RT

A2255 Polyvinyl Alcohol 72000 BioChemica

Specifications
Degree of hydrolysis ..... 85-89 %
Loss on drying ..... max. 5 %

Code	Packaging
A2255,0250	250 g
A2255,0500	500 g
A2255,1000	1 kg

Polyvinylpolypyrrolidone insoluble

Polyclar AT, PVPP

CAS 25249-54-1
CS 39059990

Melting Point ..... > 300 °C
Solid

Storage RT

A2257 Polyvinylpolypyrrolidone insoluble BioChemica

cross linked Polyvinylpyrrolidone

Specifications
Assay (from N) ..... 11.0-12.8 %
Heavy metals (as Pb) .....max. 0.001 %

pH (1 %; H_2O) 5.0-8.0
Water (K.F.) ..... max. 5 %

Code	Packaging
A2257,0250	250 g
A2257,0500	500 g
A2257,1000	1 kg

Polyvinylpyrrolidone (K15)

PVP, Plastone, Povidone

M = approx. 10000 (g/mol)
CAS 9003-39-8
CS 39059990

Solid

WGK 1
Storage RT

A2258 Polyvinylpyrrolidone (K15) BioChemica

Specifications
Assay (from N) ..... 12.0-12.8 %
Heavy metals (as Pb) .....max. 0.001 %
pH (5 %; H_2O) 3.0-5.0

Solubility (10 %; H_2O) clear, colorless to yellowish
Water (K.F.) ..... max. 5 %

Code	Packaging
A2258,0250	250 g
A2258,1000	1 kg

Polyvinylpyrrolidone (K30)

PVP, Plastone, Povidone

M = 44000-54000 (g/mol)
CAS 9003-39-8
CS 39059990

Solid

WGK 1
Storage RT

A2259 Polyvinylpyrrolidone (K30) BioChemica

Specifications
Assay (from N) ..... 12.0-12.8 %
Heavy metals (as Pb) .....max. 0.001 %
pH (5 %; H_2O) 3.0-5.0
Solubility (10 %; H_2O) ..... clear, colorless to yellowish
Water (K.F.) .....max. 5 %

Code	Packaging
A2259,0250	250 g
A2259,0500	500 g
A2259,1000	1 kg
A2259,5000	5 kg
A2259,9025	25 kg

Polyvinylpyrrolidone (K90)

PVP, Plastone, Povidone

M = 1000000-1500000 (g/mol)
CAS 9003-39-8
CS 39059990

Solid

WGK 1
Storage RT

A2260 Polyvinylpyrrolidone (K90) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (from N) ..... 11.5-12.8 %
Heavy metals (as Pb) .....max. 0.001 %
pH (10 %; H_2O) 5.0-9.0

Solubility (10 %; H_2O) .....clear, colorless to slightly yellow.
Water (K.F.) ..... max. 5 %

Code	Packaging
A2260,0250	250 g
A2260,1000	1 kg
A2260,5000	5 kg
A2260,9025	25 kg

A5422 Polyvinylpyrrolidone (K90) (Ph. Eur.) pure, pharma grade

Specifications
Assay (from N, dried subst.) ..... 11.5-12.8 %
Appearance of solution ..... passes test
Heavy metals (as Pb) .....max. 0.001 %
Identity ..... passes test

pH (5 %; H_2O) 4.0-7.0
Sulfated ash ..... max. 0.1 %
Viscosity (as K-value) 81.0-97.2
1-vinylpyrrolidin-2-one ..... max. 0.001 %
2-pyrrolidone ..... max. 3.0 %

Aldehydes .....max. 0.05 %
Formic acid (HPLC) .....max. 0.5 %
Hydrazine .....max. 0.0001 %
Peroxides (as H_2O_2) .....max. 0.04 %
Water .....max. 5.0 %

Code	Packaging
A5422,1000	1 kg

Ponceau 4R see Cochenille Red (C.I. 16255)

Ponceau S (C.I. 27195)

3-Hydroxy-4-[2-Sulfo-4-(4-Sulfophenylazo)-Phenylazo]-2,7-Naphthalenedisulfonic Acid

$C_{22}H_{12}N_4Na_4O_{13}S_4$
M = 760.56 g/mol
CAS 6226-79-5
EINECS 228-319-2
CS 29270000

Solid

WGK 3
Storage RT

A1405 Ponceau S (C.I. 27195)

Specifications
Assay .....min. 80 %
λ_{max} (H_2O) ..... 517-523 nm
Loss on drying .....max. 10 %

Code	Packaging
A1405,0010	10 g
A1405,0025	25 g
A1405,0100	100 g

HebaPeakTMB

Ponceau S solution

CS 38220000

Density ..... 1.01 kg/l (20 °C)
Refractive Index n20/D 1.338
Liquid

Storage RT

Warning



H315 H319 H335

A2935 Ponceau S solution

Solution in Acetic Acid 5 %

Composition:
Acetic acid ..... 50 g/L
Ponceau S ..... 1 g/L

Code	Packaging
A2935,0500	500 ml

Potassium Acetate

Acetic Acid Potassium Salt

CH_3COOK
M = 98.15 g/mol
CAS 127-08-2
EINECS 204-822-2
CS 29152900

Melting Point ..... 292 °C
Solubility ..... 2530 g/L (H_2O)
Solid

WGK 1
Storage RT

121479 Potassium Acetate for analysis

Specifications
Minimum assay (Perchl. Ac.) ..... 99.0 %
pH of 5 % solution 6.5-9.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.002 %
Nitrogen compounds (as N) ..... 0.001 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
As ..... 0.0001 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Mg ..... 0.005 %
Na ..... 0.25 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
121479.1211	1000 g
121479.0416	25 kg

141479 Potassium Acetate (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Perchl. Ac.) calc. a.d.s. ..99.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 7.5-9.0

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Reducing substances ..... passes test
Loss on drying at 105 °C ..... 3.0 %
Chloride (Cl) ..... 0.01 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur.) ..... passes test
Heavy metals (as Pb) ..... 0.0004 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
Al ..... 0.0001 %
As ..... 0.0002 %
Ca ..... 0.05 %
Fe ..... 0.002 %
Mg ..... 0.05 %
Na ..... 0.5 %
Pb ..... 0.002 %

Code	Packaging
141479.1211	1000 g
141479.0416	25 kg

A4279 Potassium Acetate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99 %
pH (5 %; H_2O) ..... 7.5-9.0 (20 °C)
Chloride ..... max. 0.005 %
Nitrate ..... max. 0.005 %
Sulfate ..... max. 0.001 %
As ..... max. 0.0001 %
Ca ..... max. 0.001 %
Cu ..... max. 0.0001 %
Fe ..... max. 0.0005 %
Na ..... max. 0.5 %
Pb ..... max. 0.0001 %
Zn ..... max. 0.005 %

Code	Packaging
A4279,0500	500 g
A4279,1000	1 kg
A4279,5000	5 kg

A2369 Potassium Acetate BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 20 °C) 7.5-9.0
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.001 %
A (1 cm/1 M in H_2O)
at 260 nm ..... max. 0.02
at 280 nm ..... max. 0.02

Code	Packaging
A2369,0500	500 g

Potassium and Chromium(III) Sulfate see Chromium(III) Potassium Sulfate 12-hydrate

Potassium Antimony(III) Tartrate 3-hydrate

Antimony(III) Potassium Tartrate, Potassium Antimony(III) Oxide Tartrate, Potassium Antimonyl Tartrate

$C_8H_4K_2O_{12}Sb_2 \cdot 3H_2O$
M = 667.87 g/mol
CAS 28300-74-5
EINECS 234-293-3
CS 29181300
Index Nr. 051-003-00-9

Solubility ..... in water 55 g/l at 20 °C
Solid

UN1551
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Warning



H332 H302 H411

131159 Potassium Antimony(III) Tartrate 3-hydrate for analysis, ACS

Specifications
Assay (Iodom.) ..... 99.0-103.0 %

Maximum limit of impurities
Acidity or alkalinity ..... 0.02 meq/g
Insoluble matter in H_2O ..... 0.02 %
Loss on drying at 105 °C ..... 2.7 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
As ..... 0.015 %

Code	Packaging
131159.1210	500 g

141159 Potassium Antimony(III) Tartrate 3-hydrate pure

Specifications
Assay (Iodom.) ..... 98 %
Acidity ..... passes test
Insoluble matter in H_2O ..... 0.05 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.02 %

Code	Packaging
141159.1210	500 g
141159.0416	25 kg

Potassium Bicarbonate see Potassium Hydrogen Carbonate

Potassium Biiodate see Potassium Hydrogen Diiodate

Potassium Biphthalate see Potassium Hydrogen Phthalate standard for volumetry, ACS, ISO

Potassium Bisulfate see Potassium Hydrogen Sulfate

Potassium Bitartrate see Potassium Hydrogen Tartrate

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Potassium Bromate

$KBrO_3$
M = 167.01 g/mol
CAS 7758-01-2
EINECS 231-829-8
CS 28299040
Index Nr. 035-003-00-6

Melting Point ..... 434 °C
Solubility .....in water 70 g/l at 20 °C
Solid

UN1484
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 3
Storage RT

Danger



H350 H271 H301

131487 Potassium Bromate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (Iodom.) (a.d.s.) .....99.8 %
pH of 5 % solution 5.0-9.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Loss on drying at 150 °C .....0.1 %
Nitrogen compounds (as N) ..... 0.001 %
Bromide (Br) ..... 0.02 %
Sulfate (SO_4) ..... 0.005 %
Heavy metals (as Pb) ..... 0.0005 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Mg ..... 0.001 %
Mn ..... 0.0005 %
Na ..... 0.01 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131487.1210	500 g
131487.0416	25 kg

141487 Potassium Bromate pure

Specifications
Assay (Iodom.) .....99 %
pH of 5 % solution 5.0-9.0
Insoluble matter in H_2O .....0.01 %
Nitrogen compounds (as N) ..... 0.005 %
Sulfate (SO_4) ..... 0.025 %
Cu ..... 0.002 %
Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141487.1214	5 kg

Potassium Bromide

KBr
M = 119.01 g/mol
CAS 7758-02-3
EINECS 231-830-3
CS 28275100

Melting Point ..... 730 °C
Boiling Point ..... 1,380 °C
Solubility .....in water 650 g/l at 20 °C
Solid

WGK 1
Storage RT

331489 Potassium Bromide for IR

Specifications
Max. Absorbance (2g pressed disk, 0.5 cm layer thickness)
CH- compounds; 2750-3100 cm-1 .....0.004
Other; 420-4000 cm-1 ..... 0.05
Water (3250-3750)/(1620-1640) cm-1 ..... 0.15
Suitability for IR spectrometry: .....passes test

Code	Packaging
331489.1608	100 g
331489.1609	250 g

131489 Potassium Bromide for analysis, ACS

Specifications
Minimum assay (Arg.) .....99.5 %
pH of 5 % solution 5.5-8.5

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Loss on drying at 130 °C .....0.2 %
Chloride (Cl) .....0.1 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
Iodide (I) ..... 0.001 %
Bromate (BrO_3) ..... 0.001 %
Iodate (IO_3) ..... 0.001 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Al 5
Au 5
Ba 20
Be 5
Bi 5
Ca 10
Cd 5
Co 5
Cr 5
Cu 5
Fe 3
Ga 5
Ge 5
In 5
Mg 5
Mn 5
Mo 5
Na 200
Ni 5
Pb 5
Sb 5
Se 5
Si 5
Sn 5
Sr 5
Ti 5
V 5

Code	Packaging
131489.1210	500 g

141489 Potassium Bromide (BP, USP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Arg.) calc. a.d.s. ..... 98.5-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O .....0.01 %
Loss on drying at 105 °C ..... 1.0 %
Chloride (Cl) ..... 0.5 %
Sulfate (SO_4) ..... 0.01 %
Iodide ..... passes test
Magnesium and other
alkaline-earth metals (as Ca) ..... 0.02 %
Residual solvents (Ph. Eur.) ..... passes test
Bromate ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1,300 ppm
Ba .....passes test
Fe .....0.002 %

Code	Packaging
141489.1210	500 g
141489.1214	5 kg

Potassium Carbonate

K_2CO_3
M = 138.21 g/mol
CAS 584-08-7
EINECS 209-529-3
CS 28364000

Melting Point ..... 891 °C
Solubility ..... 1120 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H315 H319 H335

131490 Potassium Carbonate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (Acidim.) calc. a.d.s. ...99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 300 °C .....1.0 %
Chloride (Cl) ..... 0.002 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfur compounds (as SO_4) ..... 0.003 %
Phosphate (PO_4) ..... 0.001 %
Silicate (as SiO_2) ..... 0.005 %
As ..... 0.0001 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Al 10
Au 5
B 5
Ba 5
Be 5
Bi 5
Ca 20
Cd 5
Co 5
Cr 5
Cu 5
Fe 5
Ga 5
Ge 5
In 5
Li 5
Mg 20
Mn 5
Mo 5
Na 200
Ni 5
Pb 5
Pt 5
Sb 5
Se 20
Si 20
Sn 5

Code	Packaging
131490.1210	500 g
131490.1211	1000 g
131490.0416	25 kg

121490 Potassium Carbonate for analysis

Specifications
Minimum assay (Acidim.) calc. a.d.s. ...99.0 %

Maximum limit of impurities
Insoluble matter in H_2O .....0.01 %
Loss on drying at 300 °C .....1.0 %
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfur compounds (as SO_4) ..... 0.01 %
Phosphate (PO_4) ..... 0.002 %
Silicate (as SiO_2) ..... 0.01 %
Heavy metals (as Pb) ..... 0.001 %
Al ..... 0.002 %
As ..... 0.0002 %
Ca ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Mg ..... 0.005 %
Na ..... 0.3 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
121490.1211	1000 g

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

191490 Potassium Carbonate (USP, BP, Ph. Eur.) pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 99.5-100.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... passes test
Loss on drying at 180 °C ..... 0.5 %
Chloride (Cl) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur./USP) .passes test
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0002 %
Ca ..... 0.005 %
Fe ..... 0.001 %
Hg ..... 0.0001 %
Pb ..... 0.0002 %

Code	Packaging
191490.0416	25 kg

141490 Potassium Carbonate pure

Specifications
Assay (Acidim.) ..... 99 %
Insoluble matter in H_2O ..... 0.02 %
Loss on drying at 300 °C ..... 3 %
Chloride (Cl) ..... 0.01 %
Nitrogen compounds (as N) ..... 0.005 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.05 %
Al ..... 0.005 %
As ..... 0.0003 %
Ca ..... 0.01 %
Cu ..... 0.003 %
Fe ..... 0.003 %
Mg ..... 0.01 %
Ni ..... 0.003 %
Pb ..... 0.003 %

Code	Packaging
141490.1211	1000 g
141490.0416	25 kg

201490 Potassium Carbonate (E-501i, F.C.C.) food grade

Specifications
Assay (as $K2CO_3$) after drying .. 99.0-100.5 %
Insoluble substances ..... passes test
Loss on drying, not more than ..... 1 %
Arsenic, not more than ..... 3 ppm
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201490.1214	5 kg

211490 Potassium Carbonate technical grade

Specifications
Assay (titr.) .....min. 97 %

Code	Packaging
211490.0416	25 kg

Potassium Chlorate

$KClO_3$
M = 122.55 g/mol
CAS 3811-04-9
EINECS 223-289-7
CS 28291900
Index Nr. 017-004-00-3
Melting Point ..... 356 °C
Solubility ..... in water 73 g/l at 20 °C
Solid
UN1485
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 2
Storage RT

Danger



H271 H300 H411

131493 Potassium Chlorate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay ..... 99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfate (SO_4) ..... 0.002 %
Bromate (BrO_3) ..... 0.015 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Al 5
As.....5
Bi 5
Ca 20
Cd 5
Co 5
Cr 5
Cu..... 5
Fe..... 3
Li 5
Mg..... 10
Mn 5
Mo 5
Na..... 100
Ni..... 5
Pb..... 5
Sr 5
Tl 5
Zn..... 5

Code	Packaging
131493.1211	1000 g
131493.0716	25 kg

141493 Potassium Chlorate (Ph. Helv.) pure, pharma grade

Specifications
Assay ..... 99.0-101.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... passes test
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0001 %
Pb ..... 0.002 %

Code	Packaging
141493.1210	500 g
141493.1211	1000 g

Potassium Chlorate (with anti-caking agent)

$KClO_3$
M = 122.55 g/mol
CAS 3811-04-9
EINECS 223-289-7
CS 28291900
Index Nr. 017-004-00-3
Solid
UN1485
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 2
Storage RT

Danger



H271 H302+H332 H411

147032 Potassium Chlorate pure (with anti-caking agent)

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) ..... max. 0.005 %
Identity ..... passes test
Chloride ..... max. 0.05 %

Code	Packaging
147032.1214	5 kg

Potassium Chloride

KCl
M = 74.56 g/mol
CAS 7447-40-7
EINECS 231-211-8
CS 31042090
Melting Point ..... 773 °C
Solubility ..... 330 g/L (H_2O)
Solid
WGK 1
Storage RT

131494 Potassium Chloride for analysis, ACS, ISO

Specifications
Assay (Arg.) ..... 99.5-100.5 %
pH of 5 % solution 5.4-8.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 150 °C ..... 0.1 %
Nitrogen compounds (as N) ..... 0.001 %
Bromide (Br) ..... 0.01 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.001 %
Iodide (I) ..... 0.002 %
Chlorate and nitrate (as NO_3) ..... 0.003 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Au 5
Ba 10
Bi.....5
Cd 5
Cr.....5
Al 10
B.....5
Be 5
Ca.....10
Co.....5
Cu.....5
Fe.....2
Ge 5
In 5
Mg 10
Mo 5
Ni.....5
Pt.....5
Se.....5
Ga 5
Hg 5
Li 5
Mn 5
Na 50
Pb..... 5
Sb..... 5

Code	Packaging
131494.1210	500 g
131494.1211	1000 g
131494.1214	5 kg
131494.0416	25 kg

191494 Potassium Chloride (USP, BP, Ph. Eur.) pharma grade

Specifications
Assay (Arg.) calc. a.d.s. ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Loss on drying at 105 °C .....1.0 %
Bromide (Br) .....0.1 %
Sulfate (SO_4) .....0.03 %
Iodide ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Ba (Ph. Eur.) ..... passes test
Calcium, Magnesium and alkaline-earth metals (as Ca) ..... 0.02 %
Iodide (USP) ..... 0.005 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
Al .....0.0001 %
As .....0.0003 %
Ba .....0.001 %
Fe .....0.002 %
Na .....0.1 %

Code	Packaging
191494.1211	1000 g
191494.1214	5 kg
191494.0915	10 Kg
191494.0416	25 kg

141494 Potassium Chloride pure

Specifications
Assay (Arg.) .....99 %
Insoluble matter in H_2O .....0.01 %
Loss on drying at 150 °C .....0.2 %
Nitrogen compounds (as N) ..... 0.005 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.01 %
As ..... 0.0001 %
Ba ..... 0.005 %
Ca ..... 0.01 %
Cu .....0.002 %
Fe .....0.002 %
Mg .....0.01 %
Ni .....0.002 %
Pb .....0.002 %

Code	Packaging
141494.1210	500 g
141494.1211	1000 g
141494.0416	25 kg

201494 Potassium Chloride (E-508, F.C.C.) food grade

Specifications
Assay (as KCl) after drying, not less than .....99.0 %
Acidity or alkalinity ..... passes test
Loss on drying, not more than .....1.0 %
Sodium ..... passes test
Bromide and/or Iodide ..... passes test
Arsenic (as As), not more than ..... 3 ppm
Cadmium, not more than ..... 1 ppm
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Heavy metals (as Pb), not more than ... 5 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201494.0416	25 kg

211494 Potassium Chloride technical grade

Specifications
Assay (Arg.) .....99 %
Insoluble matter in H_2O .....0.05 %
Sulfate (SO_4) .....0.05 %
As .....0.0003 %
Fe .....0.005 %
Pb .....0.005 %

Code	Packaging
211494.1214	5 kg
211494.0416	25 kg

A2939 Potassium Chloride for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) .....min. 99.5 %
Loss on drying (2 h; 130 °C) .....max. 0.5 %
pH (5 %; H_2O; 20 °C) 5.5-8.5
Bromide ..... max. 0.05 %
Iodide ..... max. 0.002 %
Sulfate ..... max. 0.005 %
As ..... max. 0.00005 %
Ba ..... max. 0.001 %
Ca .....max. 0.001 %
Fe .....max. 0.0005 %
Mg .....max. 0.001 %
Na .....max. 0.02 %
Pb .....max. 0.0005 %

Code	Packaging
A2939,0500	500 g
A2939,1000	1 kg

A1039 Potassium Chloride BioChemica

Specifications
Assay (titr.) .....min. 99.5 %
Heavy metals (as Pb) .....max. 0.001 %
Insoluble matter ..... passes test
Loss on drying (2 h; 130 °C) ..... max. 0.5 %
pH (5 %; H_2O; 20 °C) 5.5-8.5
Bromide ..... max. 0.05 %
Iodide ..... max. 0.002 %
Sulfate .....max. 0.005 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.01
280 nm ..... max. 0.01

Code	Packaging
A1039,1000	1 kg
A1039,5000	5 kg

Potassium Chloride saturated solution

KCl
M = 74.56 g/mol
CAS 7447-40-7
EINECS 231-211-8
CS 31042090
Density .....1.168 kg/l
Liquid
WGK 1
Storage RT

281495 Potassium Chloride saturated solution for volumetric analysis

For potentiometer electrodes

Composition:
Potassium Chloride ..... 35 g
Water (s.q.m) ..... 100 ml

Code	Packaging
281495.1209	250 ml

Potassium Chloride 3 mol/l

KCl
M = 74.56 g/mol
CAS 7447-40-7
EINECS 231-211-8
CS 31042010
Density .....1.105 kg/l
Liquid
WGK 1
Storage RT

282775 Potassium Chloride 3 mol/l for volumetric analysis

For potentiometer electrodes

Composition:
Potassium Chloride ..... 22.37 g
Water (s.q.m) ..... 100 ml
Assay (as KCl) ..... 2.9-3.1 mol/L

Code	Packaging
282775.1209	250 ml
282775.1210	500 ml
282775.1211	1000 ml
282775.1214	5 l
282775.0715	10 l

Potassium Chloride 0.01 mol/l (0.01N)

EINECS 231-211-8
CS 38220000
Liquid
WGK 1
Storage RT

183418 Potassium Chloride 0.01 mol/l (0.01N) volumetric solution

Specifications
Factor limits 0.998-1.002

Code	Packaging
183418.1211	1 L

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

Potassium Chloride 3 mol/l + Silver Chloride

CS 38220000

Density .....1.161 kg/l
Liquid

WGK 1
Storage RT

282923 Potassium Chloride 3 mol/l + Silver Chloride for volumetric analysis

For potentiometer electrodes

Composition:
Potassium Chloride ..... 22.37 g
Silver Chloride ..... 0.1 g
Water (s.q.m) ..... 100 ml

Code	Packaging
282923.1209	250 ml
282923.1210	500 ml
282923.1211	1000 ml

Potassium Chloroplatinate see Potassium Hexachloroplatinate(IV)

Potassium Chromate

K_2CrO_4
M = 194.21 g/mol
CAS 7789-00-6
EINECS 232-140-5
CS 28415000
Index Nr. 024-006-00-8

Melting Point ..... 975 °C
Solubility ..... in water 630 g/l at 20 °C
Solid

UN3288
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H350i H340 H319 H335 H315 H317 H410

131497 Potassium Chromate (max. 0.02 % Na) (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Iodom.) ..... 99.0 %
pH of 5 % solution 8.6-9.8

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %

Chloride (Cl) .....0.001 %
Sulfate (SO_4) .....0.03 %
Al .....0.003 %
Ca .....0.005 %
Cd .....0.005 %
Co .....0.005 %

Cu ..... 0.001 %
Fe ..... 0.002 %
Na ..... 0.02 %
Ni ..... 0.005 %
Pb ..... 0.005 %
Zn ..... 0.005 %

Code	Packaging
131497.1209	250 g
131497.1210	500 g
131497.1211	1000 g

141497 Potassium Chromate pure

Specifications
Assay (Iodom.) ..... 99.0-102.0 %
pH of 5 % solution 8.6-9.8
Insoluble matter in H_2O ..... 0.025 %

Chloride (Cl) .....0.005 %
Sulfate (SO_4) .....0.1 %
Al .....0.005 %
Ca .....0.01 %

Cu ..... 0.005 %
Fe ..... 0.005 %
Pb ..... 0.01 %

Code	Packaging
141497.1210	500 g
141497.1211	1000 g

Potassium Chromate solution 10 % w/v

K_2CrO_4
M = 194.21 g/mol
CAS 7789-00-6
EINECS 232-140-5
CS 28415000
Index Nr. 024-006-00-8

Density .....1.078 kg/l
Liquid

UN3287
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H350i H340 H317 H411

281499 Potassium Chromate solution 10 % w/v for volumetric analysis

For determination of chloride according to Mohr

Composition:
Potassium Chromate ..... 10.4 g
Water (s.q.m) ..... 100 ml

Code	Packaging
281499.1209	250 ml

Potassium Chromate solution 5 % w/v

K_2CrO_4
M = 194.21 g/mol
CAS 7789-00-6
EINECS 232-140-5
CS 28415000
Index Nr. 024-006-00-8

Density .....1.041 kg/l
Liquid

UN3287
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H350i H340 H317 H411

281498 Potassium Chromate solution 5 % w/v for volumetric analysis

For determination of Chloride according to Mohr

Composition:
Potassium Chromate ..... 5 g
Water (s.q.m) ..... 100 ml

Code	Packaging
281498.1209	250 ml

tri-Potassium Citrate 1-hydrate

2-Hydroxy-1,2,3-Propanetricarboxylic Acid Potassium Salt, Citric Acid Tripotassium Salt, Potassium Citrate

$K_3C_6H_5O_7 \cdot H_2O$
M = 324.42 g/mol
CAS 6100-05-6
EINECS 212-755-5
CS 29181500

Melting Point ..... 230 °C
Solubility ..... in water 1,670 g/l at 20 °C
Solid

WGK 1
Storage RT

141492 tri-Potassium Citrate 1-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Perchl. Ac.)
(calc. a.a.s) ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 7.5-9.0

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Darkened substances by H_2SO_4 ... passes test
Loss on drying at 180 °C .....3.0-6.0 %
Chloride (Cl) ..... 0.005 %
Ammonium (NH_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur./USP) . passes test
Oxalate (C_2O_4) ..... 0.03 %
Tartrate ($C_4H_4O_6$) ..... passes test
Water (H_2O) ..... 4.0-7.0 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0001 %
Na ..... 0.3 %

Code	Packaging
141492.0914	5 kg
141492.0416	25 kg

201492 tri-Potassium Citrate 1-hydrate (E-332ii, F.C.C.) food grade

Specifications
Assay (as $C_6H_5K_3O_7$) after
drying ..... 99.0-100.5 %
pH 5 % 7.5-9.0
Alkalinity ..... passes test
Loss on drying ..... 3.0-6.0 %
Oxalate (as oxalic acid)
a.d.s., not more than ..... 0.01 %
Arsenic (as As), not more than ..... 1 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 1 ppm
Heavy metals (as Pb), not more than ... 5 ppm

Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201492.0416	25 kg

Potassium Citrate tri-Basic see tri-Potassium Citrate 1-hydrate

Potassium Cyanide

KCN
M = 65.12 g/mol
CAS 151-50-8
EINECS 205-792-3
CS 28371900
Index Nr. 006-007-00-5

Melting Point ..... 634.5 °C
Solubility .....in water 680 g/l at 20 °C
Solid

UN1680
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 3
Storage RT

Danger



H330 H310 H300 EUH032 H410

131491 Potassium Cyanide (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (Arg.) .....97.0 %

Maximum limit of impurities
Insoluble matter in H_2O .....0.01 %
Chloride (Cl) .....0.05 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.02 %
Sulfide (S) ..... 0.001 %
Thiocyanate (SCN) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Bi 5
As 10
Ca.....10
Fe..... 100
Hg 5
Li 5
Na 5000
Sb..... 5
Si..... 10
Zn..... 200
Ge..... 10
In..... 5
Mg..... 5
Pb 2
Se 5
Sn 5

Code	Packaging
131491.1209	250 g
131491.0716	25 kg

141491 Potassium Cyanide pure

Specifications
Assay (Arg.) .....96 %
Insoluble matter in H_2O .....0.02 %
Chloride (Cl) .....0.1 %
Phosphate (PO_4) ..... 0.02 %
Sulfate (SO_4) ..... 0.05 %
Sulfide (S) ..... 0.005 %
Thiocyanate (SCN) ..... 0.05 %
Fe .....0.05 %
Pb .....0.001 %
Zn .....0.05 %

Code	Packaging
141491.1211	1000 g
141491.1214	5 kg

Potassium D-Gluconate

Potassium Gluconate

$C_6H_{11}KO_7$
M = 234.25 g/mol
CAS 299-27-4
EINECS 206-074-2
CS 29181600

Solubility ..... Soluble in water
Solid

WGK nwg
Storage RT

A3133 Potassium D-Gluconate

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Loss on drying ..... max. 3 %

Code	Packaging
A3133,0100	100 g

Potassium di-Hydrogen Phosphate

Potassium Phosphate mono-Basic, prim.-Potassium Phosphate

KH_2PO_4
M = 136.09 g/mol
CAS 7778-77-0
EINECS 231-913-4
CS 28352400

Melting Point ..... approx. 253 °C
Solubility ..... 222 g/L (H_2O)
Solid

WGK 1
Storage RT

131509 Potassium di-Hydrogen Phosphate for analysis, ACS

Specifications
Minimum assay (Acidim.) .....99.0 %
pH of 5 % solution 4.2-4.5

Maximum limit of impurities
Insoluble matter in H_2O .....0.01 %
Loss on drying at 105 °C .....0.2 %
Chloride (Cl) ..... 0.0005 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfate ..... 0.003 %
As ..... 0.0002 %
Heavy metals (as Pb) ..... 0.001 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Au 5
Ba 5
Bi 5
Cd 5
Cr.....5
Al 5
B.....5
Be.....5
Ca.....50
Co.....5
Cu.....5
Fe..... 10
Ge..... 5
Mg..... 5
Mo..... 5
Ni..... 5
Sb..... 5
Si..... 5
Ti..... 5
V..... 5
Ga..... 5
In..... 5
Mn..... 5
Na 50
Pb 5
Se 5
Sr 5
Tl..... 5

Code	Packaging
131509.1210	500 g
131509.1211	1000 g
131509.1214	5 kg
131509.0416	25 kg

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121509 Potassium di-Hydrogen Phosphate for analysis

Specifications
Minimum assay (Acidim.) ..... 99.0 %
pH of 5 % solution 4.2-4.5

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Loss on drying at 105 °C ..... 0.2 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %
Heavy metals (as Pb) ..... 0.002 %
As ..... 0.0001 %
Ca ..... 0.01 %
Cd ..... 0.001 %
Co ..... 0.001 %
Cu ..... 0.001 %
Fe ..... 0.002 %
Mg ..... 0.001 %
Mn ..... 0.001 %
Na ..... 0.05 %
Ni ..... 0.001 %
Pb ..... 0.001 %
Zn ..... 0.001 %

Code	Packaging
121509.1210	500 g
121509.1211	1000 g
121509.1214	5 kg

141509 Potassium di-Hydrogen Phosphate (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 98.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 4.2-4.5

Maximum limit of impurities
Appearance ..... passes test
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.2 %
Reducing substances ..... passes test
Loss on drying at 130 °C ..... 1.0 %
Chloride (Cl) ..... 0.02 %
Sulfate (SO_4) ..... 0.03 %
Residual solvents (Ph. Eur./USP) .passes test
Fluoride (F) ..... 0.001 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1.300 ppm
As ..... 0,0001 %
Cd ..... 0,00005 %
Fe ..... 0,001 %
Hg ..... 0,00015 %
Pb ..... 0,00005 %

Code	Packaging
141509.1210	500 g
141509.1211	1000 g
141509.1214	5 kg
141509.0416	25 kg

201509 Potassium di-Hydrogen Phosphate (E-340i, F.C.C.) food grade

Specifications
Assay (as $KH2PO_4$) after drying,
not less than ..... 98.0 %
Identity
Phosphate ..... passes test
Potassium ..... passes test
pH sol. 1 % 4.2-4.8
Appearance ..... passes test
Insoluble substances as an. subs.,
not more than ..... 0.2 %
Loss on drying, not more than ..... 1 %
P_2O_5 content (a.d.s.) ..... 51.0-53.0 %
Fluoride, not more than ..... 10 ppm
Arsenic (as As), not more than ..... 1 ppm
Cadmium (Cd), not more than ..... 1 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 1 ppm
Specifications Regulation (UE) n° 231/2012,
F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation
(EC) n° 1333/2008 and F.C.C.

Code	Packaging
201509.0416	25 kg

A2946 Potassium di-Hydrogen Phosphate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.5 %
pH (5 %; H_2O; 20 °C) 4.0-4.5
Water ..... max. 0.2 %
Chloride ..... max. 0.0005 %
Sulfate ..... max. 0.003 %
Cu ..... max. 0.0005 %
Fe ..... max. 0.001 %
Na ..... max. 0.02 %
Pb ..... max. 0.001 %

Code	Packaging
A2946,1000	1 kg

A3095 Potassium di-Hydrogen Phosphate for cell culture

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... min. 99.5 %
Loss on drying ..... max. 0.2 %
Chloride ..... max. 0.0005 %
Sulfate ..... max. 0.003 %
Cu ..... max. 0.0005 %
Fe ..... max. 0.001 %
Na ..... max. 0.02 %
Pb ..... max. 0.001 %

Code	Packaging
A3095,0250	250 g

A1043 Potassium di-Hydrogen Phosphate BioChemica

Specifications
Assay (titr.) ..... min. 99.5 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 20 °C) 4.0-4.5
Water ..... max. 0.2 %
Chloride ..... max. 0.0005 %
Sulfate ..... max. 0.003 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.05

Code	Packaging
A1043,0500	500 g
A1043,1000	1 kg
A1043,5000	5 kg
A1043,9025	25 kg

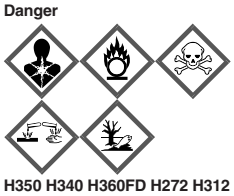
Potassium Dichromate

$K_2Cr_2O_7$
M = 294.19 g/mol
CAS 7778-50-9
EINECS 231-906-6
CS 28415000
Index Nr. 024-002-00-6

Melting Point ..... 398 °C
Boiling Point ..... 610 °C
Solubility ..... in water 120 g/l at 20 °C
Solid

UN3086
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 3
Storage RT

Danger



H350 H340 H360FD H272 H312

131500 Potassium Dichromate for analysis, ACS, ISO

Specifications
Minimum assay (Iodom.) ..... 99.5 %
pH of 5 % solution 3.7-3.9

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Loss on drying at 105 °C ..... 0.05 %
Chloride (Cl) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
Ca ..... 0.002 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.02 %
Ni ..... 0.0005 %
Pb ..... 0.001 %
Zn ..... 0.0005 %

Code	Packaging
131500.1209	250 g
131500.1210	500 g
131500.1211	1000 g

141500 Potassium Dichromate pure

Specifications
Assay (Iodom.) ..... 99 %
pH of 5 % solution 3.7-4.0
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.05 %
Ca ..... 0.01 %
Fe ..... 0.005 %

Code	Packaging
141500.1210	500 g
141500.1211	1000 g
141500.0915	10 Kg

Potassium Dichromate 1/6 mol/l (1N)

$K_2Cr_2O_7$
M = 294.19 g/mol
CAS 7778-50-9
EINECS 231-906-6
CS 28415000
Index Nr. 024-002-00-6

Density .....1.034 kg/l
Liquid

UN3287
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H350 H340 H360FD H302 H331 H334 H317 H373 H411

181501 Potassium Dichromate 1/6 mol/l (1N) volumetric solution

Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181501.1611	1000 ml

Potassium Dichromate 1/24 mol/l (0.25N)

$K_2Cr_2O_7$
M = 294.19 g/mol
CAS 7778-50-9
EINECS 231-906-6
CS 28415000
Index Nr. 024-002-00-6

Density .....1.008 kg/l
Liquid

UN3287
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H350 H340 H360FD H331 H334 H317 H373 H412

182142 Potassium Dichromate 1/24 mol/l (0.25N) volumetric solution

Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182142.1611	1000 ml

Potassium Dichromate 1/60 mol/l (0.1N)

$K_2Cr_2O_7$
M = 294.19 g/mol
CAS 7778-50-9
EINECS 231-906-6
CS 28415000
Index Nr. 024-002-00-6

Density .....1.004 kg/l
Liquid

UN3287
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H350 H340 H332 H334 H317 H412

181502 Potassium Dichromate 1/60 mol/l (0.1N) (Reag. USP, Ph. Eur.) volumetric solution

Standardised against Sodium Thiosulfate 0.1 M Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181502.1611	1000 ml

Potassium Dichromate 0.04 mol/l with 80 g/l of Mercury(II) Sulfate volumetric solution

CS 38085000

Density .....1.189 kg/l
Solubility .....Miscible with water
Liquid

UN3289
Class/PG 6.1(8)/II
ADR 6.1(8)/II · IMDG 6.1(8)/II · IATA 6.1(8)/II
WGK 3
Storage RT

Danger



H350i H340 H317 H330 H310 H300 H373 H319 H315 H411

184385 Potassium Dichromate 0.04 mol/l with 80 g/l of Mercury(II) Sulfate volumetric solution

For determination of COD according to NFT 90-101

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
184385.1611	1000 ml

Potassium Disulfite

Potassium Bisulfite, Potassium Metabisulfite, Potassium Pyrosulfite

$K_2S_2O_5$
M = 222.33 g/mol
CAS 16731-55-8
EINECS 240-795-3
CS 28322000

Melting Point .....190 °C
Solubility .....in water 335 g/l at 20 °C
Solid

WGK 1
Storage away from direct light.

Warning



EUH031 H319 H335

121522 Potassium Disulfite for analysis

Specifications
Minimum assay (Iodom.) .....96.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) .....0.005 %
Phosphate (PO_4) .....0.0002 %
Thiosulfate (S_2O_3) ..... 0.05 %
As .....0.0001 %
Cu .....0.001 %
Fe .....0.001 %
Ni .....0.001 %
Pb .....0.001 %

Code	Packaging
121522.1611	1000 g
121522.1214	5 kg
121522.0416	25 kg

Potassium Ferricyanide see Potassium Hexacyanoferrate(III)

Potassium Ferrocyanide see Potassium Hexacyanoferrate(II) 3-hydrate

НеваРеактив

Potassium Fluoride

KF
M = 58.10 g/mol
CAS 7789-23-3
EINECS 232-151-5
CS 28261990
Index Nr. 009-005-00-2

Melting Point ..... 860 °C
Solubility ..... 923 g/L (H_2O)
Solid

UN1812
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage RT

Danger



H301+H311+H331

121976 Potassium Fluoride for analysis

Specifications
Assay ..... min. 99 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.1 %
Ca ..... max. 0.005 %
Cd ..... max. 0.005 %
Co ..... max. 0.005 %
Cu ..... max. 0.005 %
Fe ..... max. 0.005 %
Na ..... max. 0.5 %
Ni ..... max. 0.005 %
Pb ..... max. 0.005 %
Zn ..... max. 0.005 %

Code	Packaging
121976.1211	1 kg

141976 Potassium Fluoride pure

Specifications
Assay (Acidim.) ..... 98 %
Acidity (as HF) ..... 0.2 %
Alkalinity ..... 0.1 %
Insoluble matter in H_2O ..... 0.01 %
Sulfite (SO_3) ..... 0.01 %
Cu ..... 0.003 %
Fe ..... 0.002 %
Ni ..... 0.003 %
Pb ..... 0.003 %

Code	Packaging
141976.1210	500 g
141976.1211	1000 g
141976.0914	5 kg

Potassium Fluoride solution 33 %

EINECS 232-151-5
CS 28261990
Index Nr. 009-005-00-2

Liquid

UN3422
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage RT

Danger



H311+H331 H302

147058 Potassium Fluoride solution 33 % pure

Specifications
Assay ..... min. 33 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.1 %
Ca ..... max. 0.005 %
Fe ..... max. 0.005 %
Na ..... max. 0.5 %
Pb ..... max. 0.005 %

Code	Packaging
147058.1211	1 L

Potassium Gluconate see Potassium D-Gluconate

Potassium Hexachloroplatinate(IV)

Platinic Potassium Chloride, Potassium Chloroplatinate, Potassium Platinic Chloride

$K_2[PtCl_6]$
M = 486.01 g/mol
CAS 16921-30-5
EINECS 240-979-3
CS 28439090

Melting Point ..... 250 °C
Solubility Slightly soluble in cold water. Soluble in hot water.
Solid

UN3288
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 1
Storage RT

Danger



H301 H318 H334 H317

125507 Potassium Hexachloroplatinate(IV) (Reag. USP) for analysis

Specifications
Minimum assay (as Pt) ..... 40 %

Code	Packaging
125507.1603	1 g

Potassium Hexacyanoferrate(II) 3-hydrate

Potassium Ferrocyanide

$K_4Fe(CN)_6 \cdot 3H_2O$
M = 422.41 g/mol
CAS 14459-95-1
EINECS 237-722-2
CS 28372000

Melting Point ..... 70 °C
Solubility ..... in water 270 g/l at 12 °C
Solid

WGK 2
Storage RT

131505 Potassium Hexacyanoferrate(II) 3-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Assay (Perm.) ..... 99.0-102.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.005 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.001 %
Cr ..... 0.005 %
Cu ..... 0.002 %
Mg ..... 0.001 %
Mn ..... 0.0005 %
Na ..... 0.02 %
Ni ..... 0.0005 %
Pb ..... 0.002 %
Zn ..... 0.002 %

Code	Packaging
131505.1210	500 g
131505.1211	1000 g
131505.1214	5 kg
131505.0416	25 kg

141505 Potassium Hexacyanoferrate(II) 3-hydrate pure

Specifications
Assay (Perm.) ..... 98 %
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.05 %
Sulfate (SO_4) ..... 0.01 %

Code	Packaging
141505.1210	500 g
141505.1211	1000 g
141505.0416	25 kg

HeBaPeaKTMB

Potassium Hexacyanoferrate(III)

Potassium Ferricyanide

$K_3[Fe(CN)_6]$
M = 329.26 g/mol
CAS 13746-66-2
EINECS 237-323-3
CS 28372000

Solubility ..... 464 g/L (H_2O)
Solid

WGK 2
Storage RT

131503 Potassium Hexacyanoferrate(III) (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Iodom.) .....99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Hexacyanoferrate(II) [$Fe(CN)_6$] ..... 0.05 %
Pb ..... 0.002 %

Code	Packaging
131503.1210	500 g
131503.1211	1000 g
131503.0416	25 kg

141503 Potassium Hexacyanoferrate(III) pure

Specifications
Assay (Iodom.) .....98 %
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) .....0.06 %
Sulfate (SO_4) .....0.02 %

Code	Packaging
141503.1210	500 g
141503.1211	1000 g
141503.1214	5 kg

A3883 Potassium Hexacyanoferrate(III) BioChemica

Specifications
Assay (titr.) .....min. 99 %
Insoluble matter ..... passes test
pH (1 M; H_2O; 25 °C) 6.0-10.0
Chloride ..... max. 0.05 %
Sulfate .....max. 0.005 %
Pb .....max. 0.002 %

Code	Packaging
A3883,0250	250 g

Potassium Hydrogen Carbonate

Potassium Bicarbonate

$KHCO_3$
M = 100.12 g/mol
CAS 298-14-6
EINECS 206-059-0
CS 28364000

Melting Point ..... 292 °C
Solubility .....in water 438 g/l at 20 °C
Solid

WGK 1
Storage RT

121480 Potassium Hydrogen Carbonate for analysis

Specifications
Assay (Acidim.) ..... 99.5-101 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.0005 %
Sulfur compounds (as SO_4) ..... 0.003 %
Phosphate (PO_4) ..... 0.0005 %
Heavy metals (as Pb) ..... 0.0005 %
Al ..... 0.001 %
As ..... 0.00004 %
Ca ..... 0.001 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe .....0.0005 %
Mg .....0.001 %
Mn .....0.0005 %
Na .....0.03 %
Ni .....0.0005 %
Pb .....0.0005 %
Zn .....0.0005 %

Code	Packaging
121480.1211	1000 g
121480.0416	25 kg

141480 Potassium Hydrogen Carbonate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 99.5-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution .....≤ 8.6

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O .....0.01 %
Loss on drying .....0.3 %
Chloride (Cl) ..... 0.005 %
Sulfur compounds (as SO_4) .....0.005 %
Ammonium (NH_4) .....0.002 %
Phosphate (PO_4) .....0.001 %
Carbonate (as K_2CO_3) ..... 2.5 %
Carbonate (Ph. Eur.) ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) .....0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
As .....0.0002 %
Ca .....0.01 %
Fe .....0.001 %
Mg .....0.01 %
Na .....0.5 %

Code	Packaging
141480.1211	1000 g
141480.0416	25 kg

Potassium Hydrogen Diiodate

Potassium Biiodate, Potassium Hydrogen Iodate

$KH(IO_3)_2$
M = 389.92 g/mol
CAS 13455-24-8
EINECS 236-650-9
CS 28299080

Solubility ..... water 13.3 g/l at 15 °C
Solid

UN1479
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage RT

Danger



H272 H319 H315

142697 Potassium Hydrogen Diiodate pure

Specifications
Assay (Iodom.) .....99 %
Insoluble matter in H_2O .....0.05 %
Sulfate (SO_4) .....0.01 %
Bromate, bromide, chlorate and chloride (as Cl) ..... 0.05 %
Cu .....0.002 %
Fe .....0.002 %
Ni .....0.002 %
Pb .....0.002 %

Code	Packaging
142697.1208	100 g

Potassium Hydrogen Iodate see Potassium Hydrogen Diiodate

НеваРеактив

di-Potassium Hydrogen Phosphate anhydrous

Phosphate Dipotasic, Potassium Biphosphate, Potassium Phosphate di-Basic, sec.-Potassium Phosphate

K_2HPO_4
M = 174.18 g/mol
CAS 7758-11-4
EINECS 231-834-5
CS 28352400

Solubility ..... 1600 g/L (H_2O)
Solid

WGK 1
Storage RT

131512 di-Potassium Hydrogen Phosphate anhydrous (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Acidim.) ..... 99.0 %
pH of 5 % solution 8.7-9.4

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 105 °C ..... 1.0 %
Chloride (Cl) ..... 0.002 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %

As .....0.00005 %
Heavy metals (as Pb) .....0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Au 5
Be 5
Ca 50
Co 5
Cu 2
Al 5
B 5
Bi 5
Cd 5
Cr 5
Fe 5
Ga 5
In 5
Mg 5
Mo 5
Ni 5
Pt 5
Se 5
Sr 5
V 5
Ge 5
Li 10
Mn 5
Na 500
Pb 5
Sb 5
Sn 5
Ti 5

Code	Packaging
131512.1209	250 g
131512.1211	1000 g

121512 di-Potassium Hydrogen Phosphate anhydrous for analysis

Specifications
Minimum assay (Acidim.) ..... 99.0 %
pH of 5 % solution 8.5-9.6

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 105 °C ..... 1.0 %
Chloride (Cl) ..... 0.005 %

Nitrogen compounds (as N) .....0.002 %
Sulfate (SO_4) .....0.01 %
Heavy metals (as Pb) .....0.001 %
As .....0.0001 %
Ca .....0.005 %
Cd .....0.001 %
Co .....0.001 %
Cu .....0.001 %
Fe .....0.001 %
Mg .....0.005 %
Mn .....0.001 %
Ni .....0.001 %
Pb .....0.001 %
Zn .....0.001 %

Code	Packaging
121512.1210	500 g
121512.1211	1000 g
121512.0914	5 kg
121512.0416	25 kg

141512 di-Potassium Hydrogen Phosphate anhydrous (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 98.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 8.5-9.6

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Reducing substance to $KMnO_4$ .... passes test

Loss on drying at 130 °C .....1.0 %
Chloride (Cl) .....0.02 %
Sulfate (SO_4) .....0.05 %
Residual solvents (Ph. Eur.) .....passes test
Fluoride (F) .....0.001 %
Potassium di-Hydrogen Phosphate .....passes test
Heavy metals (as Pb) .....0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1,300 ppm
As ..... 0.0002 %
Fe ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141512.1210	500 g
141512.1211	1000 g
141512.0914	5 kg
141512.0416	25 kg

201512 di-Potassium Hydrogen Phosphate anhydrous (E-340ii, F.C.C.) food grade

Specifications
Assay (K_2HPO_4) after drying,
not less than ..... 98.0 %
Identity
Phosphate ..... passes test
Potassium ..... passes test
pH sol. 1 % 8.7-9.4
Appearance ..... passes test

Insoluble substances a.a.s.,
not more than .....0.2 %
Loss on drying, not more than .....2.0 %
P_2O_5 content (a.a.s.) .....40.3-41.5 %
Fluoride, not more than ..... 10 ppm
Pyrophosphate (as $Na_4P_2O_7$),
not more than .....2 %
Arsenic (as As), not more than ..... 1 ppm

Cadmium, not more than .....1 ppm
Mercury (Hg), not more than .....1 ppm
Lead, not more than .....1 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201512.0914	5 kg

211512 di-Potassium Hydrogen Phosphate anhydrous technical grade

Specifications
Minimum assay (Acidim.) ..... 98 %
pH sol.5 % 8.5-9.6

Chloride (Cl) .....0.05 %
Sulfate (SO_4) .....0.1 %

Code	Packaging
211512.0914	5 kg
211512.0416	25 kg

A2945 *di*-Potassium Hydrogen Phosphate anhydrous for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
Assay (titr.) .....min. 99 %
pH (5 %; H_2O; 20 °C) 8.7-9.4

Water .....max. 0.5 %
Chloride ..... max. 0.003 %
Fluoride ..... max. 0.001 %
Sulfate ..... max. 0.005 %

As ..... max. 0.0001 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %
Zn ..... max. 0.0025 %

Code	Packaging
A2945,1000	1 kg

A1042 *di*-Potassium Hydrogen Phosphate anhydrous BioChemica

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 20 °C) 8.7-9.4
Water .....max. 0.5 %
Chloride ..... max. 0.003 %
Fluoride ..... max. 0.001 %

Sulfate ..... max. 0.005 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.05

Code	Packaging
A1042,0500	500 g
A1042,1000	1 kg
A1042,5000	5 kg
A1042,9025	25 kg

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di-Potassium Hydrogen Phosphate 3-hydrate

Phosphate Dipotasic, Potassium Biphosphate, Potassium Phosphate di-Basic, Potassium Phosphate secondary

$K_2HPO_4 \cdot 3H_2O$
M = 228.22 g/mol
CAS 16788-57-1
EINECS 231-834-5
CS 28352400

Solubility ..... Soluble in water.
Solid

WGK 1
Storage RT

122333 di-Potassium Hydrogen Phosphate 3-hydrate for analysis

Specifications
Minimum assay (Acidim.) .....99 %
pH of 5 % solution 9.1-9.5

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) .....0.001 %
Nitrogen compounds (as N) .....0.001 %
Sulfate (SO_4) .....0.005 %
Heavy metals (as Pb) .....0.001 %
As .....0.00005 %
Ca .....0.005 %
Cu .....0.001 %
Fe .....0.0005 %
Mg .....0.005 %
Na .....0.1 %
Ni .....0.0005 %
Pb .....0.0005 %

Code	Packaging
122333.1209	250 g
122333.1211	1000 g
122333.1214	5 kg

142333 di-Potassium Hydrogen Phosphate 3-hydrate pure

Specifications
Assay (Acidim.) ..... 98-102 %
pH of 5 % solution 8.5-9.6
Insoluble matter in H_2O .....0.01 %
Chloride (Cl) .....0.005 %
Nitrogen compounds (as N) .....0.005 %
Sulfate (SO_4) .....0.01 %
As .....0.0005 %
Cu .....0.003 %
Fe .....0.003 %
Ni .....0.003 %
Pb .....0.003 %

Code	Packaging
142333.1211	1000 g

202333 di-Potassium Hydrogen Phosphate 3-hydrate (E-340ii, F.C.C.) food grade

Specifications
Assay (as K_2HPO_4) after drying, not less than .....98.0 %
Assay ($K_2HPO_4.3H_2O$), not less than .....98.0 %
Identity
Phosphate ..... passes test
Potassium ..... passes test
pH sol. 1 % 8.7-9.4
Appearance .....passes test
Insoluble substances a.a.s., not more than .....0.2 %
P_2O_5 content (a.a.s.) .....40.3-41.5 %
Fluoride, not more than ..... 10 ppm
Pyrophosphate (as $Na4P_2O_7$), not more than .....2 %
Arsenic (as As), not more than ..... 1 ppm
Cadmium, not more than ..... 1 ppm
Mercury (Hg), not more than .....1 ppm
Lead, not more than .....1 ppm
Heavy metals (as Pb), not more than .....0.001 %
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
202333.0416	25 kg

Potassium Hydrogen Phthalate

Phthalic Acid mono-Potassium Salt, Potassium Biphthalate

$C_6H_4COOHCOOK$
M = 204.23 g/mol
CAS 877-24-7
EINECS 212-889-4
CS 29173995

Melting Point .....295-300 °C
Solubility ..... water 80 g/l at 20 °C
Solid

WGK 1
Storage RT

131481 Potassium Hydrogen Phthalate for analysis, ISO

Specifications
Minimum assay (Perchl. Ac.) .....99.5 %
Identity .....IR passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Loss on drying at 110 °C .....0.05 %
Chloride (Cl) ..... 0.002 %
Nitrogen compounds (as N) .....0.001 %
Sulfur compounds (as S) .....0.002 %
Heavy metals (as Pb) .....0.0005 %
Ca .....0.001 %
Cd .....0.0005 %
Co .....0.0005 %
Cr .....0.001 %
Cu .....0.0005 %
Fe .....0.0005 %
Mg .....0.001 %
Mn .....0.0005 %
Na .....0.01 %
Ni .....0.0005 %
Pb .....0.0005 %
Zn .....0.0005 %

Code	Packaging
131481.1208	100 g
131481.1210	500 g
131481.1211	1000 g
131481.0416	25 kg

121481 Potassium Hydrogen Phthalate (Reag. Ph. Eur.) for analysis

Specifications
Minimum assay (Perchl. Ac.) .....99.5 %
Identity .....IR passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Loss on drying at 110 °C .....0.2 %
Chloride (Cl) ..... 0.002 %
Nitrogen compounds (as N) .....0.001 %
Sulfur compounds (as S) .....0.002 %
Heavy metals (as Pb) .....0.0005 %
Ca .....0.001 %
Cd .....0.0005 %
Co .....0.0005 %
Cr .....0.001 %
Cu .....0.0005 %
Fe .....0.0005 %
Mg .....0.001 %
Mn .....0.0005 %
Na .....0.01 %
Ni .....0.0005 %
Pb .....0.0005 %
Zn .....0.0005 %

Code	Packaging
121481.1210	500 g
121481.1211	1000 g

141481 Potassium Hydrogen Phthalate pure

Specifications
Assay (Perchl. Ac.) ..... 99-101 %
Identity .....IR passes test
Insoluble matter in H_2O .....0.01 %
Loss on drying at 110 °C .....0.3 %
Chloride (Cl) .....0.003 %
Nitrogen compounds (as N) .....0.005 %
Cu .....0.002 %
Fe .....0.002 %
Ni .....0.002 %
Pb .....0.002 %

Code	Packaging
141481.1210	500 g
141481.1211	1000 g

Potassium Hydrogen Phthalate solution

$C_6H_4COOHCOOK$
M = 204.23 g/mol
CS 38220000

Liquid

WGK nwg
Storage RT

177053 Potassium Hydrogen Phthalate solution for COD-determination (170 mg/L)

DIN 38409 (H41)

Specifications
Application test .....passes test

Composition:
Potassium Hydrogen Phthtalate .....170 mgl/L

Code	Packaging
177053.1210	500 ml

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

Potassium Hydrogen Sulfate

Potassium Bisulfate

$KHSO_4$
M = 136.17 g/mol
CAS 7646-93-7
EINECS 231-594-1
CS 28332980
Index Nr. 016-056-00-4

Melting Point ..... 214 °C
Solubility ..... in water 490 g/l at 20 °C
Solid

UN2509
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314 H335

121485 Potassium Hydrogen Sulfate for analysis

Specifications
Minimum assay (Acidim.) ..... 96 %

Maximum limit of impurities
Insoluble matter in NH_4OH ..... 0.01 %
Chloride (Cl) ..... 0.001 %
Phosphate (PO_4) ..... 0.001 %
Nitrate (NO_3) ..... 0.001 %
As ..... 0.0001 %
Ca ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Mg ..... 0.005 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
121485.1211	1000 g
121485.0416	25 kg

Potassium Hydrogen Tartrate

Cream of Tartar, Potassium Bitartrate

$(COO)_2KH(CHOH)_2$
M = 188.18 g/mol
CAS 868-14-4
EINECS 212-769-1
CS 29181300

Solubility ..... in water 5.7 g/l at 20 °C
Solid

WGK 1
Storage RT

121486 Potassium Hydrogen Tartrate for analysis

Specifications
Minimum assay (Acidim.) ..... 99.0 %
pH sol. 0.5 % 3.5-3.8

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Soluble matter in C_2H_5OH ..... 0.1 %
Loss on drying at 110 °C ..... 0.2 %
Chloride (Cl) ..... 0.001 %
Ammonium (NH_4) ..... 0.005 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.01 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0001 %
Ca ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
121486.1210	500 g

Potassium Hydroxide - Pellets

KOH
M = 56.11 g/mol
CAS 1310-58-3
EINECS 215-181-3
CS 28152000
Index Nr. 019-002-00-8

Melting Point ..... 360 °C
Boiling Point ..... 1320 °C
Solubility ..... 1130 g/L (H_2O)
Solid

UN1813
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H302 H314

131515 Potassium Hydroxide 85 % pellets for analysis, ACS, ISO

Specifications
Minimum assay (Acidim.) ..... 85 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Nitrogen compounds (as N) ..... 0.0005 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.002 %
Silicate (as SiO_2) ..... 0.001 %
Carbonate (as K_2CO_3) ..... 1.0 %
Heavy metals (as Ag) ..... 0.001 %
Al ..... 0.001 %
As ..... 0.00004 %
Ca ..... 0.001 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.05 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131515.1210	500 g
131515.1211	1000 g
131515.1214	5 kg

121515 Potassium Hydroxide 85 % pellets for analysis

Specifications
Minimum assay (Acidim.) ..... 85 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.001 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.002 %
Silicate (as SiO_2) ..... 0.01 %
Carbonate (as K_2CO_3) ..... 1.0 %
Al ..... 0.001 %
As ..... 0.00005 %
Ca ..... 0.002 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.5 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.001 %

Code	Packaging
121515.1210	500 g
121515.1211	1000 g
121515.1214	5 kg
121515.0416	25 kg

631515 Potassium Hydroxide 85 % pellets (Ph. Eur, BP, USP-NF) GMP - IPEC grade

Specifications
Assay (Acidim.) ..... 85.0-100.5 %
Identity according to Pharmacopoeias:
pH ..... passes test
Potassium ..... passes test

Maximum limit of impurities
Appearance of solution
Appearance Clear < formazin I ..... passes test
Appearance Colourless ..... passes test
Insoluble substances ..... passes test
Chloride (Cl) ..... 0.0050 %
Phosphate (PO_4) ..... 0.0020 %
Sulfate (SO_4) ..... 0.0050 %
Carbonate (as K_2CO_3) ..... 2.0 %
Residual solvents (Ph. Eur./USP) ..... passes test
Na ..... 1.0 %
Iron (Fe) ..... 0.0010 %
Heavy metals (as Pb) ..... 0.0010 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm

Code	Packaging
631515.0416	25 kg

141515 Potassium Hydroxide 85 % pellets (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 85.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble substances ..... passes test
Chloride (Cl) ..... 0.005 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %
Carbonate (as K_2CO_3) ..... 1.0 %
Residual solvents (Ph. Eur./USP) ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
Al ..... 0.002 %
As ..... 0.0001 %
Ca ..... 0.005 %
Fe ..... 0.001 %
Mg ..... 0.005 %
Na ..... 1.0 %
Pb ..... 0.001 %

Code	Packaging
141515.1210	500 g
141515.1211	1000 g
141515.1214	5 kg
141515.0416	25 kg

201515 Potassium Hydroxide 85 % pellets (E-525, F.C.C.) food grade

Specifications
Assay (as KOH) total alkali ..... 85.0-100.5 %
Identity
Potassium ..... passes test
Appearance ..... passes test
Insoluble substances ..... passes test
Carbonate (as K_2CO_3), not more than ..... 3.5 %
Strongly alkaline 1 % solution ..... passes test
Arsenic, not more than ..... 3 ppm
Mercury, not more than ..... 0.1 ppm
Lead, not more than ..... 2 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201515.0416	25 kg

A3871 Potassium Hydroxide - Pellets BioChemica

Specifications
Assay (titr.) ..... min. 85 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Carbonate ..... max. 1.0 %
Chloride ..... max. 0.0005 %
Phosphate ..... max. 0.0001 %
Sulfate ..... max. 0.0005 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.02
280 nm ..... max. 0.01

Code	Packaging
A3871,1000	1 kg

Potassium Hydroxide 90 % flakes

KOH
M = 56.11 g/mol
CAS 1310-58-3
EINECS 215-181-3
CS 28152000
Index Nr. 019-002-00-8

Melting Point ..... 360 °C
Boiling Point ..... 1,327 °C
Solubility ..... in water 1,120 g/l at 20 °C
Solid
White lumps, pellets or flakes, translucent, caustic, deliquescent, absorbs CO_2 and moisture from the air

UN1813
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H302 H314

211514 Potassium Hydroxide 90 % flakes technical grade

Specifications
Assay (Acidim.) ..... 90 %
Insoluble matter in H_2O ..... 0.05 %
Chloride (Cl) ..... 0.05 %
Sulfate (SO_4) ..... 0.05 %
As ..... 0.0003 %
Fe ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
211514.1211	1000 g
211514.1214	5 kg
211514.0415	10 Kg
211514.0416	25 kg

Potassium Hydroxide solutions 48 -50 %

KOH
M = 56.11 g/mol
CAS 1310-58-3
EINECS 215-181-3
CS 28152000
Index Nr. 019-002-00-8

Liquid

UN1814
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H302 H314

142403 Potassium Hydroxide solution 50 % pure

Specifications
Assay (titr.) ..... approx. 50 %
Density (d 20 °C/4 °C) ..... approx. 1.52

Code	Packaging
142403.1212	2.5 L
142403.1214	5 L
142403.0715	10 L

202403 Potassium Hydroxide solution 48-50 % w/w (F.C.C.) food grade

Specifications
Assay (as KOH) w/w ..... 48-50 %
Carbonate (as K_2CO_3) (calc. on dried substances), not more than ..... 3.5 %
Arsenic, not more than ..... 3 ppm
Mercury (calc. on dried basis), not more than ..... 0.1 ppm
Lead (calc. on dried basis), not more than ..... 2 ppm
Specifications F.C.C. 9

Code	Packaging
202403.1214	5 l

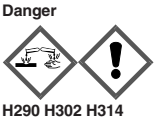
Potassium Hydroxide solution 45 %

KOH
M = 56.11 g/mol
CAS 1310-58-3
EINECS 215-181-3
CS 28152000
Index Nr. 019-002-00-8

Liquid

UN1814
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H302 H314

147083 Potassium Hydroxide solution 45 % pure

Specifications
Assay (titr.) ..... approx. 45 %
Density (d 20 °C/4 °C) ..... approx. 1.48

Code	Packaging
147083.0715	10 L

Potassium Hydroxide solution 20 %

KOH
M = 56.11 g/mol
CAS 1310-58-3
EINECS 215-181-3
CS 28152000
Index Nr. 024-002-00-6

Liquid

UN1814
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H302 H314

143277 Potassium Hydroxide solution 20 % pure

Specifications
Assay (titr.) ..... approx. 20 %
Density (d 20 °C/4 °C) ..... approx. 1.19

Code	Packaging
143277.0715	10 L

Potassium Hydroxide solution 10 %

KOH
M = 56.11 g/mol
CAS 1310-58-3
EINECS 215-181-3
CS 28152000
Index Nr. 024-002-00-6

Liquid

UN1814
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314 H302

144647 Potassium Hydroxide solution 10 % pure

Specifications
Assay (titr.) ..... approx. 10 %
Density (d 20 °C/4 °C) ..... approx. 1.09

Code	Packaging
144647.1212	2.5 L

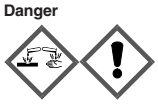
Potassium Hydroxide 3 mol/l (3N)

KOH
M = 56.11 g/mol
EINECS 215-181-3
CS 28152000
Index Nr. 024-002-00-6

Liquid

UN1814
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H302 H314

187080 Potassium Hydroxide 3 mol/l (3N) volumetric solution

Specifications
Factor limits 0.998-1.002

Code	Packaging
187080.1214	5 L

Potassium Hydroxide 1 mol/l (1N)

KOH
M = 56.11 g/mol
CAS 1310-58-3
EINECS 215-181-3
CS 28152000
Index Nr. 019-002-00-8

Density .....1.042 kg/l
Liquid

UN1814
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

181517 Potassium Hydroxide 1 mol/l (1N) volumetric solution

Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181517.1211	1000 ml
181517.1214	5 l

621517 Potassium Hydroxide 1 mol/l (1N) VINIKIT for wine analysis

potash liquor for determining sulfurous gas in wines

Specifications
Titer at 20 °C ..... 1.000 ± 0.001

Code	Packaging
621517.1210	500 ml

Potassium Hydroxide 0.5 mol/l (0.5N)

KOH
M = 56.11 g/mol
CAS 1310-58-3
EINECS 215-181-3
CS 28152000
Index Nr. 019-002-00-8

Density .....1.021 kg/l
Liquid

UN1814
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

181518 Potassium Hydroxide 0.5 mol/l (0.5N) volumetric solution

Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181518.1211	1000 ml

Potassium Hydroxide 0.23 mol/l (0.23N)

KOH
M = 56.11 g/mol
CAS 1310-58-3
EINECS 215-181-3
CS 28152000
Index Nr. 019-002-00-8

Density .....1.012 kg/l
Liquid

UN1814
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H315

183354 Potassium Hydroxide 0.23 mol/l (0.23N) volumetric solution

For determination of raw fibre according to Weende. Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
183354.1214	5 l
183354.1315	10 l

Potassium Hydroxide 0.1 mol/l (0.1N)

KOH
M = 56.11 g/mol
CAS 1310-58-3
EINECS 215-181-3
CS 28152000
Index Nr. 019-002-00-8

Density .....1.002 kg/l
Liquid

UN1814
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H315

181521 Potassium Hydroxide 0.1 mol/l (0.1N) volumetric solution

Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181521.1211	1000 ml

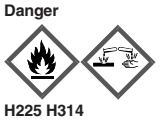
Potassium Hydroxide 0.5 mol/l (0.5N) in ethanol

KOH
M = 56.11 g/mol
CS 38220000

Density .....0.840 kg/l
Liquid

UN2924
Class/PG 3(8)/II
ADR 3(8)/II · IMDG 3(8)/II · IATA 3(8)/II
WGK 1
Storage RT

Danger



H225 H314

181519 Potassium Hydroxide 0.5 mol/l (0.5N) in ethanol (Reag. USP, Ph. Eur.) volumetric solution

Standardised against Hydrochloric Acid 0,5M.
Indicator: Phenolphthalein

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181519.1611	1000 ml

Potassium Hydroxide 0.1 mol/l (0.1N) in ethanol

KOH
M = 56.11 g/mol
CS 38220000

Density .....0.816 kg/l
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H319 H315

182146 Potassium Hydroxide 0.1 mol/l (0.1N) in ethanol (Reag. USP, Ph. Eur.) volumetric solution

Standardised against Hydrochloric Acid 0,1M.
Indicator: Phenolphthalein

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182146.1611	1000 ml

Potassium Hydroxide 0.5 mol/l (0.5N) in methanol

KOH
M = 56.11 g/mol
CS 38220000

Density .....0.856 kg/l
Liquid

UN3286
Class/PG 3(6.1)(8)/II
ADR 3(6.1)(8)/II · IMDG 3(6.1)(8)/II · IATA 3(6.1)(8)/II
WGK 1
Storage RT

Danger



H225 H331 H311 H301 H370 H314

181520 Potassium Hydroxide 0.5 mol/l (0.5N) in methanol volumetric solution

Indicator: Phenolphthalein

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181520.1211	1000 ml

Potassium Hydroxide 0.1 mol/l (0.1N) in methanol

KOH
M = 56.11 g/mol
CS 38220000

Density .....0.821 kg/l
Liquid

UN3286
Class/PG 3(8)(6.1)/II
ADR 3(8)(6.1)/II · IMDG 3(8)(6.1)/II · IATA 3(8)(6.1)/II
WGK 1
Storage RT

Danger



H225 H331 H311 H301 H370 H319 H315

182147 Potassium Hydroxide 0.1 mol/l (0.1N) in methanol volumetric solution

Indicator: Phenolphthalein

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182147.1211	1000 ml
182147.1212	2,5 l

Potassium Hydroxide 0.1 mol/l (0.1N) in 2-propanol

KOH
M = 56.11 g/mol
CS 38220000
Index Nr. 019-002-00-8

Density .....0.787 kg/l
Liquid

UN1993
Class/PG 3(8)/II
ADR 3(8)/II · IMDG 3(8)/II · IATA 3(8)/II
WGK 1
Storage RT

Danger



H225 H319 H335

183336 Potassium Hydroxide 0.1 mol/l (0.1N) in 2-propanol volumetric solution

Indicator: Phenolphtalein

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
183336.1211	1000 ml
183336.1212	2,5 l

Printed on FSC® certified paper from well managed forests

Potassium Hydroxide 0.01 mol/l (0.01N) in 2-propanol

KOH
M = 56.11 g/mol
CS 38220000

Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H319 H336

183034 Potassium Hydroxide 0.01 mol/l (0.01N) in 2-propanol volumetric solution

Specifications
Factor limits 0.995-1.005

Code	Packaging
183034.1211	1 L

Potassium Iodate

KIO_3
M = 214.00 g/mol
CAS 7758-05-6
EINECS 231-831-9
CS 28299080

Melting Point ..... 560 °C
Solubility ..... in water 47 g/l at 20 °C
Solid

UN1479
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 1
Storage RT

Danger



H272

131540 Potassium Iodate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Iodom.) ..... 99.4-100.4 %
pH of 5 % solution 5.0-8.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 130 °C ..... 0.05 %
Nitrogen compounds (as N) ..... 0.002 %

Sulfate (SO_4) ..... 0.005 %
Iodide (I) ..... 0.001 %
Bromide and Chloride (as Cl) ..... 0.01 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.0001 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %

Fe ..... 0.001 %
Mg ..... 0.001 %
Mn ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131540.1209	250 g
131540.1210	500 g
131540.1211	1000 g

141540 Potassium Iodate pure

Specifications
Assay (Iodom.) ..... 99 %
pH of 5 % solution 4-8
Insoluble matter in H_2O ..... 0.05 %
Loss on drying at 130 °C ..... 0.1 %

Nitrogen compounds (as N) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Bromide and Chloride (as Cl) ..... 0.05 %
Cu ..... 0.002 %
Fe ..... 0.002 %

Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141540.1208	100 g
141540.1209	250 g
141540.1211	1000 g

Potassium Iodide

KI
M = 166.01 g/mol
CAS 7681-11-0
EINECS 231-659-4
CS 28276000

Melting Point ..... 686 °C
Boiling Point ..... 1330 °C
Solubility ..... 1430 g/L (H_2O)
Solid

WGK 1
Storage RT

131542 Potassium Iodide for analysis, ACS, ISO

Specifications
Minimum assay ..... 99.5 %
pH of 5 % solution 6.0-9.2

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Reducing substances of I_2 (en I) ..... 0.001 %
Loss on drying at 150 °C ..... 0.2 %
Nitrogen compounds (as N) ..... 0.001 %
Phosphate (PO_4) ..... 0.001 %

Sulfate (SO_4) ..... 0.0025 %
Chloride and bromide (as Cl) ..... 0.01 %
Iodate (IO_3) ..... 0.0003 %
As ..... 0.00001 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Al 5
Au 5
B 5
Ba 10
Be 5
Ca 10
Cd 5
Co 5
Cr 5
Cu 5
Fe 2
Ga 5
Ge 5
Hg 5
In 5
Mg 5
Mn 5
Mo 5
Na 50
Ni 5
Pb 5
Pt 5
Si 5
Sn 5
Sr 5

Code	Packaging
131542.1208	100 g
131542.1209	250 g
131542.1210	500 g
131542.1211	1000 g
131542.1214	5 kg

121542 Potassium Iodide for analysis

Specifications
Minimum assay (Arg.) ..... 99.0 %
pH of 5 % solution 6-9.2

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Reducing substances of I_2 (en I) ..... 0.001 %
Loss on drying at 150 °C ..... 0.3 %
Nitrogen compounds (as N) ..... 0.001 %

Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
Chloride and bromide (as Cl) ..... 0.01 %
Iodate (IO_3) ..... 0.0003 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00001 %
Ba ..... 0.002 %
Ca ..... 0.002 %
Cd ..... 0.0005 %

Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Mg ..... 0.001 %
Mn ..... 0.0005 %
Na ..... 0.05 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
121542.1209	250 g
121542.1210	500 g
121542.1211	1000 g
121542.1214	5 kg

141542 Potassium Iodide (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay calc. a.d.s. ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Alkalinity ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Loss on drying at 105 °C ..... 1.0 %

Sulfate (SO_4) ..... 0.015 %
Residual solvents (Ph. Eur./USP) ..... passes test
Chloride and bromide (as Cl) ..... 0.05 %
Nitrate, nitrite and ammonia ..... passes test
Thiosulfate ..... passes test
Iodate ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0002 %
Ba ..... passes test
Fe ..... 0.002 %

Code	Packaging
141542.1208	100 g
141542.1209	250 g
141542.1210	500 g
141542.1211	1000 g
141542.1214	5 kg

201542 Potassium Iodide (F.C.C.) food grade

Specifications
Assay (as KI) (a.d.s.) ..... 99.0-101.5 %
Identity ..... passes test
Potassium ..... passes test

pH of 5 % solution 6-10
Appearance ..... passes test
Loss on drying, not more than ..... 1 %
Nitrate, nitrite and ammonia ..... passes test
Thiosulfate and Barium ..... passes test

Iodate, not more than ..... 4 ppm
Lead, not more than ..... 4 ppm
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201542.1214	5 kg

A3872 Potassium Iodide BioChemica

Specifications
Assay (titr.) .....min. 99.5 %
Heavy metals (as Pb) .....max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O) ..... 6.0-9.0 (20 °C)
Loss on drying ..... max. 1 %
Bromide ..... max. 0.001 %
Chloride ..... max. 0.001 %
Iodate .....max. 0.0002 %
Sulfate .....max. 0.001 %

Code	Packaging
A3872,0500	500 g

Potassium Iodide solution 50 %

KI
M = 166.01 g/mol
CS 28276000
Liquid
WGK 1
Storage RT

147068 Potassium Iodide solution 50 % pure

Specifications
Assay ..... approx. 50 %
pH (H_2O) .....5.5-8.5 (20 °C)

Code	Packaging
147068.3514	5 L

Potassium Iodide solution 30 % w/v

KI
M = 166.01 g/mol
CAS 7681-11-0
EINECS 231-659-4
CS 28276000
Density .....1.224 kg/l
Liquid
WGK 1
Storage RT

624572 Potassium Iodide solution 30 % w/v VINIKIT for wine analysis

For determination of reducing sugar in wine, according to Rebelein method

Composition:
Potassium Iodide ..... 30 g
Water (s.q.m) ..... 100 ml

Code	Packaging
624572.1210	500 ml

Potassium Iodide solution 10 % w/v

KI
M = 166.01 g/mol
CAS 7681-11-0
EINECS 231-659-4
CS 28276000
Density .....1.072 kg/l
Liquid
WGK 1
Storage RT

171543 Potassium Iodide solution 10 % w/v

Composition:
Potassium Iodide .....11 g
Water (s.q.m) .....100 ml
Assay (w/v) ..... 10 ± 0.1 %
Identity ..... passes test

Code	Packaging
171543.1609	250 ml
171543.1611	1000 ml
171543.3514	5 l

Potassium Iodide 2 mol/l (2M) (pH 7.0)

KI
M = 166.01 g/mol
CAS 7681-11-0
EINECS 231-659-4
CS 38220000
Density .....1.253 kg/l
Liquid
WGK 1
Storage RT

183425 Potassium Iodide 2 mol/l (2M) (pH 7.0) volumetric solution

Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
183425.1214	5 l

Potassium Iodide 1 mol/l (1N)

KI
M = 166.01 g/mol
CAS 7681-11-0
EINECS 231-659-4
CS 28276000
Density .....1.118 kg/l
Liquid
WGK 1
Storage RT

182256 Potassium Iodide 1 mol/l (1N) volumetric solution

Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182256.1611	1000 ml

Potassium Iodide 0.1 mol/l (0.1N)

KI
M = 166.01 g/mol
CAS 7681-11-0
EINECS 231-659-4
CS 28276000
Density .....1.008 kg/l
Liquid
WGK 1
Storage RT

181544 Potassium Iodide 0.1 mol/l (0.1N) volumetric solution

Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181544.1611	1000 ml

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Potassium L-Glutamate 1-hydrate

L-Glutamic Acid Monopotassium Salt 1-hydrate

$C_5H_8KNO_4 \cdot H_2O$
M = 203.24 g/mol
CAS 6382-01-0
EINECS 243-094-0
CS 29224200

Solid

WGK 1
Storage RT

127117 L-Glutamic Acid Monopotassium Salt 1-hydrate for analysis

• All amino acids are of non-animal origin

Specifications

Assay (titr.)	min. 99 %	Sulfated ash	max. 0.05 %
α20 °C/D; 5 %, 5 M HCl	22-24°	Other amino acids	max. 0.5 %
Heavy metals (as Pb)	max. 0.05 %	Ammonium	max. 0.05 %
		Chloride	max. 0.02 %
		As	max. 0.0001 %
		Fe	max. 0.001 %

Code	Packaging
127117.1210	500 g

A3881 Potassium L-Glutamate 1-hydrate BioChemica

• All amino acids are of non-animal origin

Specifications

Assay (titr.)	min. 99 %	Chloride	max. 0.01 %
Ammonium	max. 0.02 %	Sulfate	max. 0.01 %
		Cu	max. 0.0005 %
		Fe	max. 0.0005 %
		Pb	max. 0.0005 %
		Zn	max. 0.0005 %

Code	Packaging
A3881,0100	100 g

Potassium meta-Bisulfite see Potassium Disulfite

Potassium Metabisulfite see Potassium Disulfite

Potassium Myronate see Sinigrin 1-hydrate

Potassium Nitrate without anticaking

KNO_3
M = 101.11 g/mol
CAS 7757-79-1
EINECS 231-818-8
CS 28342100

Melting Point 334 °C
Solubility 1445 g/L (H_2O)
Solid

UN1486
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage RT

Danger



H272

131524 Potassium Nitrate without anticaking (Reag. Ph. Eur.) for analysis, ISO

Specifications

Minimum assay (Acidim.)	99.0 %
pH of 5 % solution	5-8

Maximum limit of impurities

Insoluble matter in H_2O	0.005 %
Chloride (Cl)	0.001 %
Ammonium (NH_4)	0.001 %
Phosphate (PO_4)	0.0005 %
Sulfate (SO_4)	0.003 %
Nitrite (NO_2)	0.001 %
Iodate (IO_3)	0.0005 %
As	0.00004 %
Heavy metals (as Pb)	0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	5	Al	5	Cu	5
Ba	5	Be	5	Ga	5
Bi	5	Ca	10	Hg	1
Cd	5	Co	5	Li	5
				Mn	5
				Na	200
				Pb	5
				Sb	5
				Ti	5
				Zn	5
				Fe	3
				Ge	5
				In	5
				Mg	10
				Mo	5
				Ni	5
				Pt	5
				Sr	5
				Tl	5

Code	Packaging
131524.1210	500 g
131524.1211	1000 g
131524.1214	5 kg
131524.0416	25 kg

141524 Potassium Nitrate without anticaking (BP, Ph. Eur.) pure, pharma grade

Specifications

Assay (Acidim.) calc. a.d.s.	99.0-100.5 %
Identity according to Pharmacopoeias:	passes test
pH of 5 % solution	4.5-8.5

Maximum limit of impurities

Appearance of solution	passes test
Acidity or alkalinity	passes test
Insoluble matter in H_2O	0.025 %
Loss on drying at 105 °C	0.5 %
Chloride (Cl)	0.002 %
Ammonium (NH_4)	0.005 %
Phosphate (PO_4)	0.003 %
Sulfate (SO_4)	0.01 %
Reducible substances	passes test
Residual solvents (Ph. Eur.)	passes test
Heavy metals (as Pb)	0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):

Class 1A (Pt, Pd)	10 ppm
Class 1B (Ir, Rh, Ru, Os)	10 ppm
Class 1C (Mo, Ni, Cr, V)	25 ppm
Class 2 (Cu, Mn)	250 ppm
Class 3 (Zn)	1,300 ppm
As	0.0002 %
Ca	0.005 %
Fe	0.001 %
Mg	0.005 %
Na	0.1 %

Code	Packaging
141524.1210	500 g
141524.1211	1000 g
141524.1214	5 kg
141524.0415	10 Kg
141524.0416	25 kg

201524 Potassium Nitrate without anticaking (E-252, F.C.C.) food grade

Specifications

Assay (as KNO_3) after drying	99.0-100.5 %
pH of 5 % solution	4.5-8.5
Loss on drying, not more than	1 %
Chlorate	passes test
Nitrite (as KNO_2), not more than	20 ppm
Arsenic (as As), not more than	3 ppm
Mercury (Hg), not more than	1 ppm
Lead, not more than	2 ppm
Heavy metals (as Pb), not more than	0.001 %

Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201524.0416	25 kg

A3874 Potassium Nitrate BioChemica

* Risk of adamant hardening

Specifications

Assay (titr.)	min. 99 %
Heavy metals (as Pb)	max. 0.001 %
Insoluble matter	passes test
pH (5 %; H_2O; 20 °C)	5.0-7.5
Ammonium	max. 0.03 %
Chloride	max. 0.001 %
Nitrite	max. 0.001 %
Sulfate	max. 0.1 %

Code	Packaging
A3874,5000	5 kg

Potassium Nitrate with anticaking

KNO_3
M = 101.11 g/mol
CAS 7757-79-1
EINECS 231-818-8
CS 28342100

Melting Point 334 °C
Solubility water 320 g/l at 20 °C
Solid

UN1486
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage RT

Danger



H272

206401 Potassium Nitrate with anticaking (F.C.C.) food grade

Specifications

Assay (as KNO_3) after drying	99.0-100.5 %
Loss on drying, not more than	1 %
Anticaking (E504ii)	
Chlorate	passes test
Nitrite (as KNO_2), not more than	20 ppm
Arsenic (as As), not more than	3 ppm
Mercury (Hg), not more than	1 ppm
Lead, not more than	4 ppm
Heavy metals (as Pb), not more than	0.001 %

Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
206401.0416	25 kg

di-Potassium Oxalate 1-hydrate

Oxalic Acid Potassium Salt

$(COOK)_2 \cdot H_2O$
M = 184.24 g/mol
CAS 6487-48-5
EINECS 209-506-8
CS 29171100
Index Nr. 607-007-00-3

Solubility ..... water 360 g/l at 20 °C
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage RT

Warning



H312 H302

121526 di-Potassium Oxalate 1-hydrate for analysis

Specifications
Minimum assay (Perm.) ..... 99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Darkened substances by H_2SO_4 ... passes test
Chloride (Cl) ..... 0.001 %
Ammonium (NH_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
121526.1211	1000 g

141526 di-Potassium Oxalate 1-hydrate pure

Specifications
Assay (Perm.) ..... 98 %
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.005 %
Ammonium (NH_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.02 %
Cu ..... 0.003 %
Fe ..... 0.003 %
Ni ..... 0.003 %
Pb ..... 0.003 %

Code	Packaging
141526.1210	500 g
141526.1211	1000 g
141526.0416	25 kg

Potassium Perchlorate

$KClO_4$
M = 138.55 g/mol
CAS 7778-74-7
EINECS 231-912-9
CS 28299010
Index Nr. 017-008-00-5

Melting Point ..... 610 °C
Solubility ..... water 17 g/l at 20 °C
Solid

UN1489
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 1
Storage RT

Danger



H271 H302

141856 Potassium Perchlorate (DAC) pure, pharma grade

Specifications
Assay (Arg.) ..... 99.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Nitrogen compounds (as N) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Chloride and Chlorate (as Cl) ..... 0.02 %
Heavy metals (as Pb) ..... 0.002 %
As ..... 0.0001 %
Ca ..... 0.01 %
Cu ..... 0.002 %
Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141856.1210	500 g
141856.0716	25 kg

Potassium Permanganate

Permanganic Acid Potassium Salt

$KMnO_4$
M = 158.04 g/mol
CAS 7722-64-7
EINECS 231-760-3
CS 28416100
Index Nr. 025-002-00-9

Melting Point ..... 50 °C
Solubility ..... water 65 g/l at 20 °C
Solid

UN1490
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 2
Storage RT

Danger



H272 H302 H410

471527 Potassium Permanganate (max. 0.000005 % Hg) for analysis, ACS

Specifications
Minimum assay ..... 99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.2 %
Nitrogen compounds (as N) ..... 0.005 %
Sulfate (SO_4) ..... 0.02 %
Chloride and Chlorate (as Cl) ..... 0.005 %
Hg ..... 0.000005 %

Code	Packaging
471527.1210	500 g

131527 Potassium Permanganate for analysis, ACS

Specifications
Minimum assay ..... 99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.2 %
Nitrogen compounds (as N) ..... 0.005 %
Sulfate (SO_4) ..... 0.02 %
Chloride and Chlorate (as Cl) ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.002 %
Pb ..... 0.005 %

Code	Packaging
131527.1209	250 g
131527.1210	500 g
131527.1211	1000 g
131527.1214	5 kg
131527.0415	10 Kg
131527.0716	25 kg

141527 Potassium Permanganate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Iodom.) ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.2 %
Loss on drying ..... 0.5 %
Chloride (Cl) ..... 0.02 %
Nitrogen compounds (as N) ..... 0.03 %
Sulfate (SO_4) ..... 0.05 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.003 %
As ..... 0.0003 %
Fe ..... 0.005 %
Pb ..... 0.005 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141527.1210	500 g
141527.1211	1000 g
141527.1214	5 kg
141527.0716	25 kg

Potassium Permanganate 0.2 mol/l (1N)

Permanganic Acid Potassium Salt

$KMnO_4$
M = 158.04 g/mol
CAS 7722-64-7
EINECS 231-760-3
CS 28416100
Index Nr. 025-002-00-9

Density ..... 1.022 kg/l
Liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H411

181528 Potassium Permanganate 0.2 mol/l (1N) volumetric solution

Specifications
Titer at 20 ..... 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181528.1611	1000 ml

HeBaPeaKTMB

Potassium Permanganate 0.1 mol/l (0.5N)

Permanganic Acid Potassium Salt

$KMnO_4$
M = 158.04 g/mol
CAS 7722-64-7
EINECS 231-760-3
CS 28416100

Density .....1.01 kg/l
Liquid

UN3214
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 2
Storage RT
H412

182651 Potassium Permanganate 0.1 mol/l (0.5N) volumetric solution

for the titration of percarbonates

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182651.1611	1000 ml

Potassium Permanganate 0.02 mol (3.161g $KMnO_4$) to prepare 1l of 0.1N solution

$KMnO_4$
M = 158.04 g/mol
CAS 7722-64-7
EINECS 231-760-3
CS 28416100

Plastic or glass ampoules containing clear dark violet liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H411

303124 Potassium Permanganate 0.02 mol (3.161g $KMnO_4$) to prepare 1l of 0.1N solution

Specifications
Titer at 20 °C 0.998-1.002

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
303124.1920	1 bottle

Potassium Permanganate 0.02 mol/l (0.1N)

Permanganic Acid Potassium Salt

$KMnO_4$
M = 158.04 g/mol
CAS 7722-64-7
EINECS 231-760-3
CS 28416100
Index Nr. 025-002-00-9

Density .....1.002 kg/l
Liquid

WGK 2
Storage RT
H412

181529 Potassium Permanganate 0.02 mol/l (0.1N) (Reag. USP) volumetric solution

Standardised against Sodium Oxalate

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability ..... NIST

Code	Packaging
181529.1611	1000 ml
181529.1612	2.5 l
181529.1214	5 l

Potassium Permanganate 0.02 mol/l (0.1N)

Permanganic Acid Potassium Salt

$KMnO_4$
M = 158.04 g/mol
CAS 7722-64-7
EINECS 231-760-3
CS 28416100
Index Nr. 025-002-00-9

Density .....1.002 kg/l
Liquid

WGK 2
Storage RT
H412

186986 Potassium Permanganate 0.02 mol/l (0.1N) (Reag. Ph. Eur.) volumetric solution

Standardised against Sodium Thiosulfate
0.1M. Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
186986.1611	1000 ml

Potassium Permangante 0.002 mol/l (0.01N)

Permanganic Acid Potassium Salt

$KMnO_4$
M = 158.04 g/mol
CAS 7722-64-7
EINECS 231-760-3
CS 28416100

Density .....1.00 kg/l
Liquid

Storage RT

181790 Potassium Permanganate 0.002 mol/l (0.01N) volumetric solution

Specifications
Titer at 20 °C ..... 1.000 ± 0.001

Code	Packaging
181790.1611	1000 ml

Potassium Peroxidisulfate see Potassium Peroxodisulfate

Printed on FSC® certified paper from well managed forests

Potassium Peroxodisulfate

Potassium Persulphate

$K_2S_2O_8$
M = 270.33 g/mol
CAS 7727-21-1
EINECS 231-781-8
CS 28334000

Melting Point ..... 100 °C
Solubility ..... water 47 g/l at 20 °C
Solid

UN1492
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage RT

Danger



H272 H302 H319 H335 H315 H334 H317

121525 Potassium Peroxodisulphate (Reag. Ph. Eur.) for analysis

Specifications
Minimum assay (Iodom.) ..... 99.0 % *

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Chlorine compounds (as Cl) ..... 0.005 %
Heavy metals (as Pb) ..... 0.001 %
Cu ..... 0.001 %
Fe ..... 0.0005 %
Mn ..... 0.0002 %
Ni ..... 0.001 %
Pb ..... 0.001 %
* At the moment of the batch analysis.

Code	Packaging
121525.1210	500 g
121525.1211	1000 g

Potassium Persufhate see Potassium Peroxodisulfate

tri-Potassium Phosphate 1,5-hydrate

Potassium Phosphate tertiary, Potassium Phosphate tri-Basic

$K_3PO_4 \cdot 1{,}5H_2O$
M = 239.28 g/mol
CAS 27176-10-9
EINECS 231-907-1
CS 28352400

Solubility ..... Soluble in water.
Solid

WGK 1
Storage RT

Warning



H319 H315

141513 tri-Potassium Phosphate 1.5-hydrate pure

Specifications
Assay (Acidim.) ..... 95 %
Insoluble matter in H_2O ..... 0.05 %
Chloride (Cl) ..... 0.01 %
Nitrogen compounds (as N) ..... 0.005 %
Sulfate (SO_4) ..... 0.05 %
As ..... 0.0005 %
Cu ..... 0.003 %
Fe ..... 0.003 %
Ni ..... 0.003 %
Pb ..... 0.003 %

Code	Packaging
141513.1211	1000 g
141513.0416	25 kg

201513 tri-Potassium Phosphate 1.5-hydrate (E-340iii, F.C.C.) food grade

Specifications
Assay ($K3PO_4$) calc. on the ignited substance ..... 97.0 %
pH sol. 1 % 11.5-12.3
Insoluble substances in anhydrous substance, not more than ..... 0.2 %
P_2O_5 content ..... 30.5-33.0 %
Loss on ignition ..... 8.0-20.0 %
Fluoride, not more than ..... 10 ppm
Arsenic (as As), not more than ..... 1 ppm
Cadmium, not more than ..... 1 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 1 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201513.0416	25 kg

Potassium Phosphate di-Basic see di-Potassium Hydrogen Phosphate anhydrous

Potassium Phosphate mono-Basic see Potassium di-Hydrogen Phosphate

Potassium Phosphate tertiary see tri-Potassium Phosphate 1,5-hydrate

Potassium Pyrosulfite see Potassium Disulfite

Potassium Rhodanide see Potassium Thiocyanate

Potassium Sodium Tartrate 4-hydrate

Rochelle Salt, Seignette Salt, Tartaric Acid Potassium Sodium Salt

$NaK(COO)_2(CHOH)_2 \cdot 4H_2O$
M = 282.23 g/mol
CAS 6381-59-5
EINECS 206-156-8
CS 29181300

Melting Point ..... 70 °C
Solubility ..... water 630 g/l at 20 °C
Solid

Storage RT

131729 Potassium Sodium Tartrate 4-hydrate for analysis, ACS, ISO

Specifications
Assay (Perchl. Ac.) ..... 99.0-102.0 %
pH of 5 % solution 6.5-8.5

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Chloride (Cl) ..... 0.0005 %
Ammonium (NH_4) ..... 0.002 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00002 %
Ca ..... 0.002 %
Cu ..... 0.0002 %
Fe ..... 0.0002 %
Mg ..... 0.002 %
Ni ..... 0.0005 %
Pb ..... 0.0002 %
Zn ..... 0.001 %

Code	Packaging
131729.1210	500 g
131729.1211	1000 g
131729.1214	5 kg
131729.0416	25 kg

141729 Potassium Sodium Tartrate 4-hydrate (USP) pure, pharma grade

Specifications
Assay (Acidim.) (calc. a.a.s) ..... 99.0-102.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Alkalinity ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.003 %
Ammonium (NH_4) ..... 0.002 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur./USP) . passes test
Water (H_2O) ..... 21.0-27.0 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0001 %
Ca ..... 0.01 %
Mg ..... 0.01 %

Code	Packaging
141729.1210	500 g
141729.1211	1000 g
141729.1214	5 kg

HebaPeaktnb

Potassium Sodium Tartrate 0.886 mol/l, alkaline solution

CS 38220000

Density .....1.188 kg/l
Solubility .....Miscible with water

UN3266
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H314

624573 Potassium Sodium Tartrate 0.886 mol/l, alkaline solution VINIKIT for wine analysis

for determination of reducing sugar in wine, according to Rebelein method

Composition:
Sodium Hydroxide sol. 50 % w/w ..... 110 ml
Potassium Sodium Tartrate 4-hydrate ... 250 g
Water (s.q.m) .....1 l
Identity .....passes test

Maximum limit of impurities
Suitability for determination of sugars ..... passes test

Code	Packaging
624573.1209	250 ml

Potassium Sorbate

2,4-Hexadienoic Acid Potassium Salt, Potassium 2,4-Hexadienoate, Sorbic Acid Potassium Salt

$CH_3(CHCH)_2COOK$
M = 150.22 g/mol
CAS 24634-61-5
EINECS 246-376-1
CS 29161995

Melting Point ..... 270 °C
Solubility ..... water 1.95 g/l at 20 °C
Solid

WGK 1
Storage away from direct light.

Warning



H319 H315

141531 Potassium Sorbate (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Perchl. Ac.) calc. a.d.s. ..... 99.0-101.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test

Loss on drying at 105 °C ..... 1.0 %
Residual solvents (Ph. Eur./USP) .passes test
Aldehydes (as CH_3CHO) ..... 0.15 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1.300 ppm
As ..... 0,00015 %
Cd ..... 0,00005 %
Hg ..... 0,00015 %
Pb ..... 0,001 %

Code	Packaging
141531.1211	1000 g
141531.0914	5 kg

201531 Potassium Sorbate (E-202, F.C.C.) food grade

Specifications
Assay ($C_6H_7KO_2$) (after drying) ..... 99.0-101.0 %
Acidity (as Sorbic Acid, not more than) ..... 1.0 %
Alkalinity (as $K2CO_3$, not more than) ..... 1 %
Loss on drying, not more than ..... 1.0 %

Volatile matter, not more than ..... 1.0 %
Aldehydes (as formaldehyde), not more than ..... 0.1 %
Arsenic (As), not more than ..... 3 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 2 ppm

Heavy metals (as Pb), not more than .....10 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201531.0914	5 kg

Potassium Sulfate

K_2SO_4
M = 174.27 g/mol
CAS 7778-80-5
EINECS 231-915-5
CS 31043000

Melting Point ..... 1069 °C
Boiling Point ..... 1689 °C
Solubility ..... 110 g/L (H_2O)
Solid

WGK 1
Storage RT

131532 Potassium Sulfate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay ..... 99.0 %
pH of 5 % solution 5.5-8.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 105 °C ..... 1.0 %
Chloride (Cl) ..... 0.0005 %
Nitrogen compounds (as N) ..... 0.0005 %

Phosphate (PO_4) .....0.0005 %
As .....0.0001 %
Heavy metals (as Pb) .....0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Al.....5
Ba.....5
Be.....5
Ca.....50
Cd.....5
Co.....5
Cr.....5
Cu.....5
Fe.....5
In.....5
Mg.....20
Mo.....5
Ni.....5
Se.....5
Ti.....5
Zn.....5
Ga.....5
Li.....10
Mn.....5
Na.....200
Pb.....5
Sr.....5
V.....5
Zr.....5

Code	Packaging
131532.1210	500 g
131532.1211	1000 g
131532.1214	5 kg
131532.0416	25 kg

141532 Potassium Sulfate pure

Specifications
Assay ..... 98 %
pH of 5 % solution 5.5-8.0
Insoluble matter in H_2O ..... 0.025 %
Loss on drying at 105 °C ..... 1.0 %
Chloride (Cl) ..... 0.01 %
Nitrogen compounds (as N) ..... 0.002 %

Phosphate (PO_4) .....0.005 %
As .....0.0001 %
Ca .....0.03 %
Cu .....0.003 %
Fe .....0.003 %
Mg .....0.03 %
Ni ..... 0.003 %
Pb ..... 0.003 %

Code	Packaging
141532.1210	500 g
141532.1211	1000 g
141532.1214	5 kg
141532.0416	25 kg

211532 Potassium Sulfate technical grade

Specifications
Assay (titr.) .....min. 98 %

Water .....max. 1 %
Chloride .....max. 0.005 %

Code	Packaging
211532.0416	25 kg

A3877 Potassium Sulfate BioChemica

Specifications
Assay (titr.) .....min. 99.0 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test

pH (5 %; H_2O) ..... 5.5-8.5 (20 °C)
Total N .....max. 0.001 %
Water .....max. 0.5 %
Chloride .....max. 0.0005 %

A (1 cm/0.5 M in H_2O)
260 nm .....max. 0.005
280 nm .....max. 0.005

Code	Packaging
A3877,0500	500 g

Potassium Sulfocyanide see Potassium Thiocyanate

Potassium Tartrate 1/2-hydrate

di-Potassium Tartrate

$C_4H_4K_2O_6 \cdot 0{,}5H_2O$
M = 235.28 g/mol
CAS 6100-19-2
EINECS 213-067-8
CS 29181300

Solubility ..... water 2,000 g/l at 20 °C
Solid

Storage RT

121537 Potassium Tartrate 1/2-hydrate (Reag. Ph. Eur.) for analysis

Specifications
Minimum assay (Perchl. Ac.) .....99.5 %
pH of 5 % solution 6.5-9.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 150 °C .....3.5-4 %
Chloride (Cl) .....0.0005 %
Ammonium (NH_4) .....0.003 %
Phosphate (PO_4) .....0.001 %
Sulfate (SO_4) .....0.01 %
Heavy metals (as Pb) .....0.001 %
Ca .....0.005 %
Cu .....0.0005 %
Fe .....0.001 %
Ni .....0.0005 %
Pb .....0.0005 %

Code	Packaging
121537.1211	1000 g

Potassium Tetraiodomercurate(II) see Nessler's Reagent

Potassium Thiocyanate

Potassium Rhodanide, Potassium Sulphocyanide

KSCN
M = 97.18 g/mol
CAS 333-20-0
EINECS 206-370-1
CS 28429080
Index Nr. 615-004-00-3

Melting Point ..... 173 °C
Solubility ..... water 2,170 g/l at 20 °C
Solid
deliquescent

WGK 1
Storage RT

Warning



H332 H312 H302 EUH032 H412

131534 Potassium Thiocyanate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (Arg.) .....99.0 %
pH of 5 % solution 5.3-8.5

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Insoluble matter in C_2H_5OH .....0.01 %
Chloride (Cl) .....0.005 %
Ammonium (NH_4) .....0.002 %
Sulfate (SO_4) .....0.005 %
Sulfide (S) .....0.001 %
Iodine-consuming substances (I) .....0.025 %
Heavy metals (as Pb) .....0.0005 %
Cu .....0.0005 %
Fe .....0.0001 %
Na .....0.005 %
Pb .....0.0005 %

Code	Packaging
131534.1210	500 g
131534.1211	1000 g
131534.0416	25 kg

121534 Potassium Thiocyanate for analysis

Specifications
Minimum assay (Arg.) .....99.0 %
pH of 5 % solution 5.3-8.5

Maximum limit of impurities
Insoluble matter in H_2O .....0.01 %
Chloride (Cl) .....0.01 %
Ammonium (NH_4) .....0.02 %
Sulfate (SO_4) .....0.05 %
Sulfide (S) .....0.002 %
Iodine-consuming substances (I) .....0.05 %
Heavy metals (as Pb) .....0.001 %
Cu .....0.001 %
Fe .....0.001 %
Na .....0.05 %
Pb .....0.001 %

Code	Packaging
121534.1210	500 g
121534.1211	1000 g

141534 Potassium Thiocyanate pure

Specifications
Assay (Arg.) .....98 %
pH of 5 % solution 5.0-8.7
Insoluble matter in H_2O .....0.02 %
Chloride (Cl) .....0.05 %
Sulfate (SO_4) .....0.1 %
Cu .....0.002 %
Fe .....0.002 %
Ni .....0.002 %
Pb .....0.002 %

Code	Packaging
141534.1210	500 g
141534.1211	1000 g
141534.0416	25 kg

Potassium Thiocyanate 0,1 mol/l (0,1N)

Potassium Rhodanide, Potassium Sulphocyanide

KSCN
M = 97.18 g/mol
CAS 333-20-0
EINECS 206-370-1
CS 28429080

Density .....1.005 kg/l
Liquid

WGK 1
Storage RT

181535 Potassium Thiocyanate 0.1 mol/l (0.1N) (Reag. USP) volumetric solution

Standardised against Silver Nitrate 0.1M Indicator: Alum Iron Ammonium

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181535.1211	1000 ml

Potato Dextrose Agar

CS 38220000

Solid

WGK nwg
Storage RT

A5838 Potato Dextrose Agar

• **Attention**: Please note that a supplement (A6789) exists for this agar. Please order separately.

Specifications
pH before autoclaving .....approx. 5.6 (20 °C)

Composition:
Agar .....15 g/L
Glucose .....20.0 g/L
Potato extract (solid) .....4.0 g/L

Code	Packaging
A5838,0500	500 g

Progoitrin

2-Hydroxybut-3-Enylglucosinlate Potassium Salt

Origin from *Brassica napus*

$C_{11}H_{18}KNO_{10}S_2$
M = 427.48 g/mol
CAS 585-95-5
CS 29321900

Storage 2-8 °C

A8993 Progoitrin for HPLC

Specifications
Assay .....min. 97 %

Code	Packaging
A8993,0010	10 mg

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

D-Proline

$C_5H_9NO_2$
M = 115.13 g/mol
CAS 344-25-2
EINECS 206-452-7
CS 29339980

Solid

WGK nwg
Storage RT

A2645 D-Proline

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 4 %, 5 N HCl ..... 83-87°
Loss on drying ..... max. 1 %
Chloride ..... max. 0.03 %
Sulfate ..... max. 0.03 %
As ..... max. 0.001 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0001 %

Code	Packaging
A2645,5000	5 kg

L-Proline

L-2-Pyrrolidinecarbonic Acid

$C_5H_9NO_2$
M = 115.13 g/mol
CAS 147-85-3
EINECS 205-702-2
CS 29339980

Solubility ..... 1500 g/L (H_2O)
Solid

WGK nwg
Storage RT

A3926 L-Proline for cell culture

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... min. 99 %
α20 °C/D; 4 %, H_2O ..... -84.3 to -86.0°
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.03 %
As ..... max. 0.0001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A3926,1000	1 kg

A3453 L-Proline BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 4 %, H_2O ..... -84.3 to -86.0°
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.03 %

Code	Packaging
A3453,0025	25 g
A3453,0100	100 g

A1707 L-Proline (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 4 %, H_2O, calc on dried subst. ..... -84.0 to -86.0°
α25 °C/D; 4 %, H_2O ..... -84.3 to -86.3°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.4 %
Sulfated ash ..... max. 0.1 %
Ninhydrin positive substances ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.001 %

Code	Packaging
A1707,0100	100 g
A1707,0500	500 g
A1707,1000	1 kg
A1707,9020	20 kg

Pronase E see Protease from Streptomyces griseus

1,2-Propanediol

1,2-Propileneglycol

$C_3H_8O_2$
M = 76.10 g/mol
CAS 57-55-6
EINECS 200-338-0
CS 29053200

Melting Point ..... -59 °C
Boiling Point ..... 189 °C
Density ..... 1.040 kg/l
Refractive Index n20/D 1.4324
Liquid

WGK 1
Storage RT

141545 1,2-Propanediol (USP, BP, Ph. Eur., JP) pure, pharma grade

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity according to Pharmacopoeias: ..... passes test
Density 25/25 ..... 1.035-1.037
Density 20/20 ..... 1.035-1.040
Range of Distillation (min. 95 %) ..... 184-189 °C
Refractive Index n20/D 1.431-1.433

Maximum limit of impurities
Appearance ..... passes test
Acidity (Ph. Eur.) ..... passes test
Acidity (USP, JP) ..... passes test
Reducing substances ..... passes test
Residue on ignition (as SO_4) ..... 0.005 %
Chloride (Cl) ..... 0.007 %
Sulfate (SO_4) ..... 0.002 %
Oxidizing substances ..... passes test
Residual solvents (Ph. Eur./USP) ..... passes test
Glycerol ..... passes test
Ethylenglycol ..... 0.10 %
Diethyleneglycol ..... 0.10 %
Water (H_2O) ..... 0.2 %
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0002 %

Code	Packaging
141545.1211	1000 ml
141545.1214	5 l
141545.0716	25 l
141545.0718	60 l

201545 1,2-Propanediol (E-1520, F.C.C.) food grade

Specifications
Assay ($C_3H_8O_2$) by weight, not less than ..... 99.5 %
Density 20/20 ..... 1.035-1.040
Range of Distillation ..... 185-189 °C
Refractive Index n20/D 1.431-1.433
Specific gravity at 25/25 ..... 1.035-1.037
Acidity ..... passes test
Residue on ignition, not more than ..... 0.007 %
Lead, not more than ..... 1 ppm
Water, not more than ..... 0.2 %
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201545.0716	25 l

151545 1,2-Propanediol, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 1.038-1.042
Water (H_2O) ..... 0.1 %

Code	Packaging
151545.1214	5 l

Propanoic Acid see Propionic Acid

НеваРеактив

1-Propanol

n-Propanol, n-Propyl alcohol

$CH_3CH_2CH_2OH$
M = 60.10 g/mol
CAS 71-23-8
EINECS 200-746-9
CS 29051200
Index Nr. 603-003-00-0

Melting Point ..... -126.5 °C
Boiling Point ..... 97.4 °C
Density ..... 0.804 kg/l
Refractive Index n20/D 1.385
Liquid

UN1274
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H318 H336

361885 1-Propanol for UV, IR, HPLC

Specifications
Minimum assay (G.C.) ..... 99.8 %
Density 20/4 ..... 0.803-0.805

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0002 %
Water (H_2O) ..... 0.1 %
Suitability for IR spectrometry: ..... passes test
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 208 nm (Cut off) ..... ≥ 10 %
Transmittance at 210 nm ..... ≥ 15 %
Transmittance at 230 nm ..... ≥ 70 %
Transmittance at 240 nm ..... ≥ 80 %
Transmittance at 250 nm ..... ≥ 94 %
Transmittance at 260-400 nm ..... ≥ 98 %

Data of interest in HPLC:
Rohrschneider Polarity 4.0
Eluotropic value e° (Al_2O_3) 0.82
Sol. H_2O in solv. at 20 °C ..... miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361885.1611	1000 ml
361885.1612	2.5 l

131885 1-Propanol (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.803-0.805
Range of Distillation (> 95 % dist.) ... 96-98 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0004 meq/g
Alkalinity ..... 0.0006 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 ... passes test
Carbonyl compounds (as C_2H_5CHO) .. 0.03 %
Acetone (G.C.) ..... 0.01 %
2-Propanol (G.C.) ..... 0.05 %
Ethanol (G.C.) ..... 0.01 %
di-n-Propyl Ether (G.C.) ..... 0.1 %
Methanol (G.C.) ..... 0.01 %
Propionaldehyde (G.C.) ..... 0.01 %
Water (H_2O) ..... 0.1 %
Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.000002 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
131885.1211	1000 ml
131885.1611	1000 ml
131885.1212	2,5 l
131885.1612	2.5 l
131885.0716	25 l
131885.0718	60 l

141885 1-Propanol (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (G.C.) ..... 99.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
ABS λ_{max} 230 nm ..... 0.3 UA
ABS λ_{max} 250 nm ..... 0.1 UA
ABS λ_{max} 270 nm ..... 0.03 UA
ABS λ_{max} 290 nm ..... 0.02 UA
ABS λ_{max} 310 nm ..... 0.01 UA
Appearance ..... passes test
Acidity or alkalinity ..... passes test
Non-volatile matter ..... 0.004 %
Reducing substances ..... passes test
Related substances (G.C.)
Individual ..... 0.1 %
Total ..... 0.3 %
Residual solvents (Ph. Eur.) ..... passes test
Water (H_2O) ..... 0.2 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141885.1211	1000 ml
141885.0716	25 l

201885 1-Propanol (F.C.C.) food grade

Solvent of extraction for food industrial use

Specifications
Minimum assay (G.C.) ..... 99.0 %
IR ..... passes test
Density 25 °C (specific) 0.800-0.805
Refractive Index n 20 °C 1.383-1.388
Arsenic, not more than ..... 1 ppm
Lead, not more than ..... 1 ppm
Specifications Dir. 2009/32/CE, F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201885.9774	1000 l

161885 1-Propanol, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.803-0.805
Non-volatile matter ..... 0.001 %
Methanol (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.1 %

Code	Packaging
161885.1211	1000 ml
161885.1714	5 l

211885 1-Propanol technical grade

Specifications
Assay (G.C.) ..... 99.5 %
Density 20/4 ..... 0.803-0.805
Water (H_2O) ..... 0.5 %

Code	Packaging
211885.9774	1000 l

n-Propanol see 1-Propanol

2-Propanol (Isopropanol)

sec.-Propyl Alcohol, iso-Propyl Alcohol, Isopropanol, Isopropyl Alcohol, Dimethylcarbinol

$CH_3CHOHCH_3$
M = 60.10 g/mol
CAS 67-63-0
EINECS 200-661-7
CS 29051200
Index Nr. 603-117-00-0

Melting Point ..... -89 °C (abs.)
Boiling Point ..... 82 °C (abs.)
Density ..... 0.786 kg/l (abs.)
Refractive Index n20/D ..... 1.377 (abs.)
Liquid

UN1219
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H319 H336

221090 2-Propanol for HPLC gradient

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 0.784-0.786

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.0002 %
Water (H_2O) ..... 0.05 %
Suitability for IR spectrometry: ..... passes test
Gradient at 235 nm ..... 1 mUA
Gradient at 254 nm ..... 1 mUA
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 207 nm (Cut off) ..... ≥ 10 %
Transmittance at 220 nm ..... ≥ 80 %
Transmittance at 230 nm ..... ≥ 90 %
Transmittance at 250-400 nm ..... ≥ 99 %

Data of interest in HPLC:
Rohrschneider Polarity 3.9
Eluotropic value e° (Al_2O_3) 0.82
Sol. H_2O in solv. at 20 °C ..... miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.
* Read after purging with nitrogen.

Code	Packaging
221090.1611	1000 ml
221090.1612	2.5 l

НеваРеактив

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361090 2-Propanol for HPLC

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 0.784-0.786

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.0003 %
Water (H_2O) ..... 0.05 %
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 207 nm (Cut off) ..... ≥ 10 %
Transmittance at 217 nm ..... ≥ 50 %
Transmittance at 232 nm ..... ≥ 80 %
Transmittance at 242 nm ..... ≥ 90 %
Transmittance at 250 nm ..... ≥ 95 %
Transmittance at 260-400 nm ..... ≥ 98 %
Data of interest in HPLC:
Rohrschneider Polarity 3.9
Eluotropic value e° (Al_2O_3) 0.82
Sol. H_2O in solv. at 20 °C ..... miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361090.1611	1000 ml
361090.1612	2.5 l

261090 2-Propanol for HPLC preparative

Specifications
Minimum assay (G.C.) ..... 99.8 %
Density 20/4 ..... 0.784-0.786

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.05 %
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 220 nm ..... ≥ 50 %
Transmittance at 260-400 nm ..... ≥ 98 %
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
261090.0314	5 l

321090 2-Propanol for pesticide analysis

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 0.784-0.786

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.0005 %
Water (H_2O) ..... 0.1 %
Signal ECD of pesticide (Lindane a DDT) (as Lindane) ..... 5 ng/l
Signal FID of 2-Octanol to Tetradecanol (as 2-Octanol) ..... passes test

Code	Packaging
321090.1611	1000 ml

481090 2-Propanol dry (max. 0.01 % water), ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 0.784-0.786

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0001 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$ (as O) ..... 0.0005 %
Darkened substances by H_2SO_4 ... passes test
Carbonyl compounds (as Acetone) .... 0.002 %
Carbonyl compounds (as Propionaldehyde) ..... 0.002 %
Acetone (G.C.) ..... 0.002 %
1-Propanol (G.C.) ..... 0.05 %
Ethanol (G.C.) ..... 0.01 %
Methanol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5
As	0.05	Au	0.05
B	0.02	Ba	0.1
Be	0.02	Bi	0.05
Ca	0.5	Cd	0.05
Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Ga	0.02	Ge	0.05
Hg	0.05	In	0.05
K	0.1	Li	0.05
Mg	0.1		

Code	Packaging
481090.1611	1000 ml
481090.1612	2,5 l

131090 2-Propanol (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 0.784-0.786
Range of Boiling ..... 81-83 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0001 meq/g
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$ (as O) ..... 0.0005 %
Darkened substances by H_2SO_4 ... passes test
Carbonyl compounds (as Acetone) .... 0.002 %
Carbonyl compounds (as Propionaldehyde) ..... 0.002 %
Acetone (G.C.) ..... 0.002 %
1-Propanol (G.C.) ..... 0.05 %
Ethanol (G.C.) ..... 0.01 %
Methanol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5
As	0.05	Au	0.05
B	0.02	Ba	0.1
Be	0.02	Bi	0.05
Ca	0.2	Cd	0.05
Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Ga	0.02	Ge	0.05
Hg	0.05	In	0.05
K	0.1	Li	0.05

Code	Packaging
131090.1211	1000 ml
131090.1611	1000 ml
131090.1212	2.5 l
131090.1612	2.5 l
131090.1214	5 l
131090.0515	10 l
131090.0716	25 l

631090 2-Propanol (Ph. Eur, BP, USP-NF) GMP - IPEC grade

Specifications
Minimum assay (G.C.) ..... 99.0 %
Identity according to Pharmacopoeias:
USP ..... IR passes test
C (Ph. Eur) ..... passes test
Density 20/20 ..... 0.785-0.789
Refractive Index n20/D 1.376-1.378
Specific gravity 0.783-0.787

Maximum limit of impurities
ABS λ_{max} 230 nm ..... 0.30 UA
ABS λ_{max} 250 nm ..... 0.10 UA
ABS λ_{max} 270 nm ..... 0.03 UA
ABS λ_{max} 290 nm ..... 0.02 UA
ABS λ_{max} 310 nm ..... 0.01 UA
Appearance ..... passes test
Acidity USP
(< 0.70 ml NaOH 0.02N) ..... passes test
Acidity or alkalinity Ph. Eur
(< 0.6 ml NaOH 0.01N) ..... passes test
Non-volatile matter ..... 0.0020 %
Peroxides ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Benzene and related substances (CG):
Benzene ..... 0.0002 %
Total other impurities different to 2-Butanol ..... 0.3 %
Volatile impurities (G.C.):
Individual impurity ..... 0.1 %
Total impurities ..... 1.0 %
Water (H_2O) ..... 0.5 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
631090.0716	25 l
631090.0719	200 l
631090.9774	1000 l

141090 2-Propanol (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity according to Pharmacopoeias: ..... passes test
Density 25/25 ..... 0.783-0.787
Density 20/20 ..... 0.785-0.789
Refractive Index n20/D 1.376-1.378

Maximum limit of impurities
ABS λ_{max} 230 nm ..... 0.3 UA
ABS λ_{max} 250 nm ..... 0.1 UA
ABS λ_{max} 270 nm ..... 0.03 UA
ABS λ_{max} 290 nm ..... 0.02 UA
ABS λ_{max} 310 nm ..... 0.01 UA
Appearance ..... passes test
Acidity or alkalinity ..... passes test
Non-volatile matter ..... 0.002 %
Peroxides ..... passes test
Related substances ..... 0.3 %
Residual solvents (Ph. Eur./USP) . passes test
Benzene ..... 0.0002 %
Ethanol (G.C.) ..... 0.05 %
Volatile impurities (G.C.):
Individual impurity ..... 0.1 %
Total impurities ..... 1.0 %
Water (H_2O) ..... 0.5 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141090.1211	1000 ml
141090.1212	2.5 l
141090.1214	5 l
141090.0715	10 l
141090.0716	25 l
141090.0718	60 l
141090.0719	200 l
141090.9774	1000 l

201090 2-Propanol (F.C.C.) food grade

extraction solvent for industrial food use

Specifications
Assay (as C_3H_8O), not less than ..... 99.7 %
Range of Distillation (including 82.3 °C) ... 1 °C
Refractive Index n 20 °C 1.377-1.380
Specific gravity at 25/25, not more thatn 0.784
Acidity (as acetic acid), not more than ..... 10 ppm
Non-volatile residue, not more than .... 10 ppm
Reducing substances of $KMnO_4$ ... passes test
Solubility in water ..... passes test
Arsenic, not more than ..... 1 ppm
Lead, not more than ..... 1 ppm
Water, not more than ..... 0.2 %
Specifications Dir. 2009/32/CE, F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201090.1214	5 l
201090.0716	25 l

НеваРеактив

161090 2-Propanol, 99.7 % for synthesis

Specifications

Minimum assay (G.C.) .....99.7 %
Identity .....IR passes test
Density 20/4 ..... 0.784-0.786
Non-volatile matter ..... 0.002 %
Methanol (G.C.) .....0.25 %
Water (H_2O) .....0.2 %

Code	Packaging
161090.1211	1000 ml
161090.1212	2.5 l
161090.1214	5 l
161090.1714	5 l
161090.0716	25 l

211090 2-Propanol technical grade

Specifications

Assay (G.C.) .....99.5 %
Density 20/4 ..... 0.784-0.786
Acidity .....0.0015 meq/g
Alkalinity .....0.006 meq/g
Methanol (G.C.) .....0.5 %
Water (H_2O) .....0.5 %

Code	Packaging
211090.1211	1000 ml
211090.1212	2.5 l
211090.1214	5 l
211090.0715	10 l
211090.0716	25 l
211090.9774	1000 l

A3928 2-Propanol for molecular biology

Specifications

DNases/RNases/Proteases .....not detectable
Assay (G.C.) .....min. 99.8 %
Acidity/Alkalinity .....max. 0.0005 meq/g
Non-volatile matter ..... max. 0.0005 %
Total P ..... max. 0.00005 %
Total S ..... max. 0.00005 %
Ethanol .....max. 0.01 %
Methanol .....max. 0.1 %
n-Propanol ..... max. 0.05 %
Water (K.F.) ..... max. 0.1 %
Ca ..... max. 0.00002 %
Cu ..... max. 0.000002 %
Fe ..... max. 0.00001 %
Mg ..... max. 0.00001 %
Pb ..... max. 0.000002 %
Zn ..... max. 0.00001 %

Code	Packaging
A3928,0500GL	500 ml
A3928,0500PE	500 ml
A3928,1000GL	1 L
A3928,1000PE	1 L
A3928,2500GL	2.5 L
A3928,2500PE	2.5 L

A3465 2-Propanol BioChemica

Specifications

Assay (G.C.) .....min. 99.7 %
Acidity/Alkalinity .....max. 0.0005 meq/g
Heavy metals (as Pb) ..... max. 0.0005 %
Insoluble matter ..... passes test
Non-volatile matter ..... max. 0.001 %
Total P ..... max. 0.00005 %
Total S ..... max. 0.00005 %
Total Si ..... max. 0.000005 %
C4-Alcohols ..... max. 0.005 %
C5-Alcohols .....max. 0.005 %
Ethanol .....max. 0.01 %
Methanol .....max. 0.1 %
n-Propanol .....max. 0.05 %
Water (K.F.) .....max. 0.1 %

Code	Packaging
A3465,1000	1 L
A3465,2500	2.5 L
A3465,5000	5 L

2-Propanol (Isopropanol) 70 %

sec. Propanol, Isopropyl alcohol, Isopropanol

$CH_3CHOHCH_3$
M = 60.10 g/mol
CAS 67-63-0
EINECS 200-661-7
CS 29051200
Index Nr. 603-117-00-0

Liquid

UN1219
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 H319 H336

125618 2-Propanol 70 % for analysis

Specifications

Assay (G.C.) .....min. 70 %
Acidity/Alkalinity .....max. 0.0005 meq/g
Non-volatile matter .....max. 0.001 %
Total P ..... max. 0.00005 %
Total S ..... max. 0.00005 %
Total Si ..... max. 0.000005 %
C4-Alcohols ..... max. 0.005 %
C5-Alcohols ..... max. 0.005 %
Ethanol ..... max. 0.01 %
Methanol ..... max. 0.1 %
Propanol ..... max. 0.05 %
Ca ..... max. 0.00002 %
Cu ..... max. 0.000002 %
Fe .....max. 0.00001 %
K .....max. 0.00002 %
Mg .....max. 0.00001 %
Na .....max. 0.00001 %
Pb .....max. 0.000002 %
Zn .....max. 0.00001 %

Code	Packaging
125618.1211	1 L

145618 2-Propanol 70 % pure

Specifications

Assay (G.C.) .....min. 70 %
Non-volatile matter .....max. 0.002 %
Methanol .....max. 0.1 %
Fe ..... max. 0.0001 %
Pb ..... max. 0.0005 %

Code	Packaging
145618.1211	1 L
145618.1212	2.5 L
145618.1214	5 L
145618.0715	10 L
145618.0716	25 L

215618 2-Propanol 70 % Technical grade

Specifications

Assay (G.C.) ..... approx. 70 %
Methanol .....max. 0.5 %

Code	Packaging
215618.1212	2.5 L
215618.1214	5 L
215618.0715	10 L
215618.0716	25 L

НеваРеактив

Propidium Iodide

3,8-Diamino-5-(3-Diethylaminopropyl)-6-Phenyl-phenanthridinium Iodide Methiodide

$C_{27}H_{34}I_2N_4$
M = 668.40 g/mol
CAS 25535-16-4
EINECS 247-081-0
CS 29339980

Solid

Storage protected from light
Storage 2-8 °C

Warning



H315 H319 H335

A2261 Propidium Iodide BioChemica

Specifications
Assay (HPLC) .....min. 94 %

Code	Packaging
A2261,0025	25 mg
A2261,0100	100 mg
A2261,9001	1 g
A2261,9005	5 g

Propionic Acid

Ethylformic Acid, Methylacetic Acid, Propanoic Acid

CH_3CH_2COOH
M = 74.08 g/mol
CAS 79-09-4
EINECS 201-176-3
CS 29155000
Index Nr. 607-089-00-0

Melting Point .....-21.5 °C
Boiling Point .....141.1 °C
Density .....0.991 kg/l
Refractive Index n20/D 1.386
Liquid

UN3463
Class/PG 8(3)/II
ADR 8(3)/II · IMDG 8(3)/II · IATA 8(3)/II
WGK 1
Storage RT

Danger



H314

161810 Propionic Acid, 99 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Identity .....IR passes test
Density 20/4 .....0.988-0.993
Water (H_2O) .....0.2 %

Code	Packaging
161810.1611	1000 ml

Propionic Anhydride

Methylacetic Anhydride, Propanoic Acid Anhydride, Propanoic Anhydride

$C_6H_{10}O_3$
M = 130.14 g/mol
CAS 123-62-6
EINECS 204-638-2
CS 29159070
Index Nr. 607-010-00-X

Melting Point .....-45 °C
Boiling Point ..... 167 °C
Density .....1.01 kg/l
Solubility .....in water at 20 °C:breaks down.
Refractive Index n20/D 1.404
Liquid

UN2496
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314

15A983 Propionic Anhydride for synthesis

Specifications
Assay ..... 98.5 %
Identity ..... IR passes test
Acetic anhydride [$(CH_3CO)_2O$] .....< 0.05 %

Code	Packaging
15A983.0719	197 l

2-Propyl Acetate see Isopropyl Acetate

iso-Propyl Acetate see Isopropyl Acetate

n-Propyl Alcohol see 1-Propanol

n-Propyl Gallate

3,4,5-Trihydroxybenzoic Acid Propyl Ester, Propyl-3,4,5-Trihydroxybenzoate

$C_{10}H_{12}O_5$
M = 212.20 g/mol
CAS 121-79-9
EINECS 204-498-2
CS 29182900
Index Nr. 607-198-00-3

Melting Point .....148-151 °C
Solid

WGK 2
Storage RT

Warning



H302 H317

141962 *n*-Propyl Gallate (Ph. Eur.) pure, pharma grade

Specifications
Assay (UV, dried subst.) .....97.0-103.0 %
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity .....passes test
Loss on drying (105 °C) ..... max. 0.5 %
Sulfated ash ..... max. 0.1 %
Chloride ..... max. 0.01 %
Gallic acid (TLC) ..... passes test
Total Chlorine .....max. 0.02 %
Zn ..... max. 0.0025 %

Code	Packaging
141962.1211	1 kg

Propyl-4-Hydroxybenzoate

Propyl p-Hydroxybenzoate, Propyl p-Oxibenzoate, Propylparaben

$C_{10}H_{12}O_3$
M = 180.20 g/mol
CAS 94-13-3
EINECS 202-307-7
CS 29182900

Melting Point .....95-97 °C
Boiling Point ..... 133 °C 1.33 hPa
Solubility .....soluble in ethanol
Solid

WGK 1
Storage RT

15A512 Propyl 4-Hydroxybenzoate, 99 % for synthesis

Specifications
Minimum assay ..... 99 %

Code	Packaging
15A512.1611	1000 g

1,2-Propyleneglycol see 1,2-Propanediol

Propylparaben see Propyl-4-Hydroxybenzoate

Protease from Streptomyces griseus

Pronase E

CAS 9036-06-0
EINECS 232-909-5
CS 35079090
Index Nr. 612-029-00-1

Solubility ..... soluble (H_2O)

WGK 1
Storage 2-8 °C

Danger



H315 H319 H334 H335

A3459 Protease from Streptomyces griseus

Specifications
Activity ... > 4000 U/mg (Casein pH 7.4; 40 °C)
Appearance (powder) ..... light brown, fine

Code	Packaging
A3459,0001	1 g
A3459,0005	5 g

Protease Inhibitor Cocktails

CS 38220000

Storage shipment at ambient temperature
Storage -20 °C

A7706 Protease Inhibitor Cocktail 1 Cell

lyophilized

* The composition refers to the 100X stock solution

Specifications
inhibits serine-, aspartic-, metallo-, cysteine- and trypsin-like proteases
reconstitute in 1 ml of water to obtain a 100X stock solution
suited in preparation of cell extracts
lyophilized mixture of protease inhibitors against a broad spectrum of proteases

Composition:
AEBSF · HCl ..... 167 mM
EDTA · Na_2 salt ..... 1344 mM
Leupeptin hemisulfate ..... 210 µM
Pepstatin A ..... 146 µM

Code	Packaging
A7706,0001	1 ml

A7735 Protease Inhibitor Cocktail 3 Bacteria

lyophilized

* The concentration refers to the 5 ml stock solution after reconstitution

Specifications
inhibits serine-, aspartic-, metallo- and cysteine proteases, as well as aminopeptidase B and leucine aminopeptidase
reconstitute in 1 ml of DMSO (supplied) and dilute with 4 ml of water; sufficient for 20 g of *E. coli*.
suited for preparation of extracts from **bacteria**
lyophilized mixture of inhibitors of bacterial proteases

Composition:
AEBSF · HCl ..... 20 mM
Bestatin ..... 1.7 mM
E-64 ..... 200 µM
EDTA · Na_2 salt ..... 85 mM
Pepstatin A ..... 2 mM

Code	Packaging
A7735,0001	1 ml

A7779 Protease Inhibitor Cocktail 5 MammCell/Tissue

lyophilized

* The concentration refers to the lyophilisate reconstituted as 1 ml stock solution

Specifications
inhibits serine, cysteine and trypsin-like proteases, as well as esterases
supplied as lyophilisate for the preparation of 1 ml 100X stock solution in ddH_2O
suited for preparation of extracts from mammlian cells and tissue
mixture of inhibitors against a broad spectrum of proteases from mammalian origin

Composition:
AEBSF · HCl ..... 500 µM
Aprotinin ..... 150 nM
E-64 ..... 1 µM
Leupeptin hemisulfate ..... 1 µM

Code	Packaging
A7779,0001	1 ml

A7802 Protease Inhibitor Cocktail 6 His-Tag Prot

ready-to-use stock solution

* The concentration refers to the 1 ml stock solution

Specifications
inhibits serine, aspartic, metallo and cysteine proteases, as well as aminopeptidase B and leucine aminopeptidase
supplied in 1 ml of DMSO and small amount of water
suited for preparation of up to 10 g of extracts from cells
mixture of inhibitors especially for the purification of His-Tag proteins from cell extracts

Composition:
AEBSF · HCl ..... 100 mM
Bestatin ..... 5 mM
E-64 ..... 1.5 mM
Pepstatin A ..... 0.2 mM
Phosphoramidon ..... 2 mM

Code	Packaging
A7802,0001	1 ml

Protein A Agarose Suspension

Protein A resin in 20 % ethanol

CS 38220000

Storage 2-8 °C

A9808 Protein A Agarose Suspension

Specifications
Concentration: 4 % (cross-linked) Agarose
Ligand: ca. 3 mg ProteinA/ml resin
Binding capacity: ca. 25 mg IgG/ml resin
Bead size: 40-180 µm, spherical

Code	Packaging
A9808,0005	5 ml

Protein A resin in 20 % ethanol see Protein A Agarose Suspension

Protein determination with Bicinchoninic acid Micro Scale see Bicinchoninic Acid Protein Assay Micro

Protein determination with Bicinchoninsic acid see Bicinchoninic Acid Protein Assay

Proteinase K

Origin from *Tritirachium album*

M = 27000 g/mol
CAS 39450-01-6
EINECS 254-457-8
CS 35079090

Solubility ..... soluble (H_2O)

WGK 1
Storage 2-8 °C

Danger



H315 H319 H334 H335

A3830 Proteinase K

lyophilized

Specifications
DNases/RNases ..... not detectable
Activity ..... min. 30 mAnsonU
Appearance ..... white
pH (1 %; H_2O; 20 °C) 6.2-6.8

Code	Packaging
A3830,0025	25 mg
A3830,0100	100 mg
A3830,0500	500 mg

HeBaPeaKTMB

Proteinase K, recombinant

Origin from *Pichia pastoris*

M = 28.8 kD
CAS 39450-01-6
EINECS 254-457-8
CS 35079090

Solubility .....clear, colorless (20 mg/ml)

WGK 1
Storage 2-8 °C

Danger



H315 H319 H334 H335

A7932 Proteinase K, recombinant

lyophilized

Specifications
DNases/RNases .....not detectable
Activity/mg .....min. 30 mAnsonU

Appearance .....white lyophilizate
Bioburden ..... ≤ 125 cfu/g
DNA (threshold) ..... ≤ 10 pg/mg enzyme

Code	Packaging
A7932,0100	100 mg
A7932,0500	500 mg

Proteinase K solution

CS 38220000

Liquid

Storage 2-8 °C

A4392 Proteinase K solution

Specifications
DNases/RNases .....not detectable
Proteinase K .....min. 600 mAnsonU/ml

Composition:
$CaCl_2 \cdot 2H_2O$ ..... 1 mM
Glycerol (v/v) ..... 40 %
Proteinase K ..... 20 mg/ml
Tris · HCl (pH 7.5) ..... 10 mM

Code	Packaging
A4392,0001	1 ml
A4392,0005	5 ml
A4392,0010	10 ml

Protopine

Biflorine, Fumarine, Macleyine

Origin from *Chelidonium majus*

$C_{20}H_{19}NO_5$
M = 353.37 g/mol
CAS 130-86-9
CS 29399900

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage 2-8 °C

Danger



H301 H373

A9599 Protopine for HPLC

Specifications
Assay (HPLC) .....min. 98 %

Code	Packaging
A9599,0010	10 mg
A9599,0020	20 mg

PSA, Primary Secundary Amine

Aminopropyl Modified Silica

CAS 63231-67-4
EINECS 231-545-4
CS 28112200

Solid

Storage RT

176971 PSA, Primary Secundary Amine

Specifications
Maximum limit of impurities
Loss on ignition ..... 15 %

Code	Packaging
176971.1608	100 g

Pseudomonas-F Medium see King B Medium (Dehydrated Culture Media) for microbiology

Pumice Stone granules

CS 25131000

Solubility .....Insoluble in water
Solid

Storage RT

211835 Pumice Stone granules technical grade

additive regulator of boiling

Specifications
Particle size lower than 2.4 mm .....20-25 %
Particle size between
2.4 and 4 mm ..... 70-80 %

Code	Packaging
211835.1209	250 g
211835.1210	500 g
211835.0914	5 kg

Puromycin Dihydrochloride

Purimycin

$C_{22}H_{29}N_7O_5 \cdot 2HCl$
M = 544.44 g/mol
CAS 58-58-2
EINECS 200-387-8
CS 29419000

Solid

Storage 2-8 °C

Warning



H302

A2856 Puromycin Dihydrochloride BioChemica

Specifications
Assay (HPLC) .....min. 98 %
IR-Spectrum ..... passes test
Solubility (H_2O) .....clear, colorless

Code	Packaging
A2856,0010	10 mg
A2856,0025	25 mg
A2856,0100	100 mg

Purpuric Acid Ammonium Salt see Murexide (C.I. 56085)

НеВаРеактив

PVDF-Star Transfer Membrane 0.45 µm

Blotting membranes

CS 39209953

Storage RT

A5243 PVDF-Star Transfer Membrane 0.45 µm

Specifications
Application
Western blots
Immunoblotting
Amino acid and protein analysis
Features and Benefits
Superior strength: Can withstand aggressive handling or be used with automated equipment without breaking or tearing.
Exceptional sensitivity: Detects low-level components
Hydrophobic: Resists water
High binding capacity: Binds a wide range of fragment sizes
High range of chemical compatibility: Resistant to most commonly used chemicals and chemically aggressive solvents
Pore size .....0.45 µm
Protein binding ..... 125 µg/cm²
Thickness ..... 140-250 µm
supplied as sheets (20 cm x 20 cm) or as a roll (30 cm x 3 m)

Code	Packaging
A5243,3030R	1 roll

PVP see Polyvinylpyrrolidone (K90)

PVPP see Polyvinylpolypyrrolidone insoluble

Pyridine

C_5H_5N
M = 79.10 g/mol
CAS 110-86-1
EINECS 203-809-9
CS 29333100
Index Nr. 613-002-00-7

Melting Point .....-41.6 °C
Boiling Point ..... 115.2 °C
Density .....0.982 kg/l
Refractive Index n20/D 1.5092
Liquid

UN1282
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H225 H332 H312 H302

481457 Pyridine dry (max. 0.01 % water), ACS

Specifications
Minimum assay (G.C.) .....99.5 %
Identity .....IR passes test
Density 20/4 ..... 0.981-0.982

Maximum limit of impurities
APHA colour 10
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$ (as O) ..... 0.0005 %

Chloride (Cl) .....0.001 %
Sulfate (SO_4) .....0.001 %
2-Methilpyridine (G.C.) ..... 0.1 %
Ammonia (NH_3) .....0.002 %
Piperidine (G.C.) ..... 0.01 %
Water (H_2O) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5
As	0.05	Au	0.05
B	0.02	Ba	0.1
Be	0.02	Bi	0.05
Ca	0.5	Cd	0.05
Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Ga	0.02	Ge	0.05
Hg	0.05	In	0.05
K	0.1	Li	0.05
Mg	0.1	Mn	0.02
Mo	0.02	Na	0.5
Ni	0.02		

Code	Packaging
481457.1611	1000 ml

131457 Pyridine (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) .....99.5 %
Identity .....IR passes test
Density 20/4 ..... 0.981-0.982

Maximum limit of impurities
APHA colour 10
Insoluble matter in H_2O ..... passes test
Non-volatile matter ..... 0.001 %
Reducing substance to $KMnO_4$ (as O) ..... 0.0005 %

Chloride (Cl) .....0.0005 %
Sulfate (SO_4) .....0.0005 %
2-Methilpyridine (G.C.) ..... 0.1 %
Ammonia (NH_3) .....0.002 %
Piperidine (G.C.) ..... 0.01 %
Water (H_2O) ..... 0.1 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5
As	0.05	Au	0.05
B	0.02	Ba	0.1
Be	0.02	Bi	0.05
Ca	0.5	Cd	0.05
Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1
Ga	0.02	Ge	0.05
Hg	0.05	In	0.05
K	0.1	Li	0.05
Mg	0.1	Mn	0.02
Mo	0.02	Na	0.5
Ni	0.02		

Code	Packaging
131457.1611	1000 ml
131457.1612	2.5 l
131457.0716	25 l

141457 Pyridine pure

Specifications
Assay (G.C.) .....99 %
Identity .....IR passes test
Density 20/4 ..... 0.981-0.982
Non-volatile matter .....0.01 %

Chloride (Cl) .....0.005 %
Sulfate (SO_4) .....0.005 %
2-Methilpyridine (G.C.) ..... 0.2 %
Ammonia (NH_3) .....0.005 %
Piperidine (G.C.) ..... 0.05 %
Water (H_2O) .....0.3 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141457.1611	1000 ml
141457.1612	2.5 l

161457 Pyridine, 99 % for synthesis

Specifications
Minimum assay (G.C.) .....99 %
Identity .....IR passes test
Density 20/4 ..... 0.981-0.982

Non-volatile matter .....0.001 %
Water (H_2O) ..... 0.1 %

Code	Packaging
161457.1611	1000 ml
161457.1612	2,5 l

171457 Pyridine (max. 0.02 % water) according to Karl Fischer

for water determination

Specifications
Minimum assay (G.C.) .....99.5 %

Identity ..... IR passes test
Density 20/4 .....0.981-0.982

Maximum limit of impurities
Water (H_2O) .....0.02 %

Code	Packaging
171457.1611	1000 ml

Pyridoxal 5'-Phosphate

$C_8H_{10}NO_6P$
M = 247.16 g/mol
CAS 54-47-7
EINECS 200-208-3
CS 29362500

Solubility .....5 g/L (H_2O)
Solid

WGK 1
Storage RT

A3831 Pyridoxal 5'-Phosphate BioChemica

Specifications
Assay (HPLC) .....min. 98 %
Heavy metals (as Pb) .....max. 0.002 %
Identity (IR) ..... passes test

Loss on drying ..... max. 0.5 %
pH (0.25 %; H_2O; 20 °C) ..... approx. 3.0
Free Phosphates ..... max. 1 %

Code	Packaging
A3831,0005	5 g
A3831,0025	25 g

HeBaPeaKTmB

Pyridoxal Hydrochloride

2-Methyl-3-Hydroxy-4-fFrmyl-5-Hydroxy-Methylpyridine Hydrochloride

$C_8H_9NO_3 \cdot HCl$
M = 203.63 g/mol
CAS 65-22-5
EINECS 200-602-5
CS 29362500

Solubility ..... 500 g/L (H_2O)
Solid

Storage protected from light
Storage RT

A0960 Pyridoxal Hydrochloride BioChemica

Specifications
Assay (titr.) .....min. 99 %
pH (10 %; H_2O) 1.5-2.5
Water (K.F.) .....max. 0.5 %

Code	Packaging
A0960,0025	25 g
A0960,0500	500 g
A0960,1000	1 kg

Pyridoxine Hydrochloride

Pyridoxol Hydrochloride, Vitamin B_6 Hydrochloride

$C_8H_{11}NO_3 \cdot HCl$
M = 205.64 g/mol
CAS 58-56-0
EINECS 200-386-2
CS 29362500

Solubility ..... 220 g/L (H_2O)
Solid

WGK 1
Storage RT
Storage protected from light

A0957 Pyridoxine Hydrochloride BioChemica

Specifications
Assay (titr.) .....min. 99 %
Water (K.F.) .....max. 0.5 %

Code	Packaging
A0957,0025	25 g
A0957,0100	100 g

A8093 Pyridoxine Hydrochloride (Ph. Eur., USP) pure, pharma grade

Specifications
Assay (HPLC, calc on dried subst.) ..... 98.0-102.0 %
Assay (titr., calc on dried subst.) ..... 99.0-101.0 %
Appearance of solution .....passes test
Heavy metals (as Pb) ..... max. 0.002 %
Identity .....passes test
Loss on drying ..... max. 0.5 %
pH (5 %; H_2O) 2.4-3.0
Related subst. ..... passes test
Sulfated ash .....max. 0.1 %
Chloride ..... 16.9-17.6 %

Code	Packaging
A8093,0100	100 g

Pyrogallol

1,2,3-Trihydroxybenzene, 1,2,3-Benzenetrio, Pyrogallol, 1,2,3-Trihydroxibenzene

$C_6H_3(OH)_3$
M = 126.11 g/mol
CAS 87-66-1
EINECS 201-762-9
CS 29072900
Index Nr. 604-009-00-6

Melting Point .....131-135 °C
Solid

WGK 2
Storage RT

Danger



H302+H312+H332 H341 H412

131050 Pyrogallic Acid (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99 %
Identity .....IR passes test
Melting range ..... 131.0-135.0 °C

Maximum limit of impurities
Insoluble matter in H_2O .....0.01 %
Residue on ignition (as SO_4) .....0.005 %
Chloride (Cl) .....0.001 %
Sulfate (SO_4) .....0.005 %
Heavy metals (as Pb) ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.001 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
131050.1608	100 g

141050 Pyrogallol pure

Specifications
Assay (HPLC) .....min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
pH (5 %; H_2O) 4-5
Sulfated ash ..... max. 0.05 %
Chloride ..... max. 0.005 %

Code	Packaging
141050.1608	100 g
141050.1609	250 g

151050 Pyrogallic Acid, 99 % for synthesis

Specifications
Assay ..... 99 %
Identity .....IR passes test

Code	Packaging
151050.1608	100 g

Pyrogallol see Pyrogallol

Pyrogallol Red

Sulfogalleine, Pyrogallolsulfonephthalein

$C_{19}H_{12}O_8S$
M = 400.36 g/mol
CAS 32638-88-3
EINECS 251-134-3
CS 29349990

Solubility .....soluble (H_2O)
Solid

WGK 3
Storage RT

A3932 Pyrogallol Red

Specifications
λ_{max} (50 % EtOH) ..... 502-510 nm
Loss on drying ..... max. 5 %
UV spectrum .....passes test

Code	Packaging
A3932,0005	5 g

L-Pyroglutamic Acid β-Naphthylamide

N^1-(2-Naphthyl)-L-Pyroglutamic Acid

$C_{15}H_{14}N_2O_2$
M = 254.30 g/mol
CAS 22155-91-5
EINECS 244-809-9
CS 29337900

Solid

Storage 2-8 °C

Warning



H302

A4680 L-Pyroglutamic Acid β-Naphthylamide

Specifications
Assay (HPLC) .....min. 99 %

Code	Packaging
A4680,0001	1 g

Pyronin Y (C.I. 45005)

Pyronin G

$C_{17}H_{19}ClN_2O$
M = 302.80 g/mol
CAS 92-32-0
EINECS 202-147-8
CS 32041900

Melting Point .....250-260 °C
Solid

Storage RT

A1406 Pyronin Y (C.I. 45005)

Specifications
Assay (from C) .....min. 95 %
λ_{max} (50 %, EtOH) ..... 546-551 nm
E 1 %/1 cm, λ_{max} 2650-3160
Loss on drying (110 °C) ..... max. 5 %

Code	Packaging
A1406,0005	5 g

Pyruvic Acid

$CH_3COCOOH$
M = 88.06 g/mol
CAS 127-17-3
EINECS 204-824-3
CS 29183000

Melting Point ..... 12 °C
Boiling Point ..... 165 °C
Density .....1.267 kg/l
Solubility ..... Soluble in water.
Refractive Index n20/D 1.428

UN3265
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 3
Storage RT

Danger



H314

15A915 Pyruvic Acid, 98 % for synthesis

Specifications
Minimum assay .....98 %

Code	Packaging
15A915.1214	5 l

Pyruvic Acid Sodium Salt see Sodium Pyruvate

QuEChERS dispersive EN15662 Method

CS 38220000

Storage RT

176969 QuEChERS dispersive EN15662 Method

Composition:
Magnesium Sulfate anhydrous .....0.9 g
Primary Secundary Amine (PSA) ..... 0.15 g
Box with 50 tubes

Code	Packaging
176969.23162	50x1,05g

QuEChERS extraction EN15662 Method

CS 38220000

Storage RT

176967 QuEChERS extraction EN15662 Method

Composition:
Magnesium Sulfate anhydrous .....4 g
Sodium Chloride .....1 g
di-Sodium Hydrogen Citrate
1.5 hydrate ..... 0.5 g
tri-Sodium Citrate 2 hydrate ..... 1 g
Box with 50 tubes

Code	Packaging
176967.12160	50x6,5g
176967.23160	50x6,5g

Quercetin

3,3',4',5,7-Pentahydroxyflavone, Meletin

Origin synthetic from Rutin

$C_{15}H_{10}O_7$
M = 302.24 g/mol
CAS 117-39-5
CS 29329900

Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage 2-8 °C

Danger



H301

A3415 Quercetin for HPLC

Specifications
Assay .....min. 99 %

Code	Packaging
A3415,0020	20 mg
A3415,0050	50 mg

A7241 Quercetin pure

Specifications
Assay .....min. 98 %
..... negative
Sa..... negative
Ash ..... max. 0.2 %
Heavy metals (as Pb) ..... max. 0.001 %
Loss on drying ..... max. 5 %
Total plate count ..... max. 1000 /g
Yeasts & moulds .....max. 100 /g
As .....max. 0.0001 %

Code	Packaging
A7241,1000	1 kg

Querc...3- see Hyperosid

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

Quercetin-3-Glucoside see Isoquercitrin

Quercetin-3-Rutinoside see Rutin

Quinoline

1-Benzazine, Benzo β Pyridine, Leucoline

C_9H_7N
M = 129.16 g/mol
CAS 91-22-5
EINECS 202-051-6
CS 29334990

Melting Point ..... -15 °C
Boiling Point ..... 237 °C
Density ..... 1.093 kg/l
Refractive Index n20/D 1.6268
Liquid

UN2656
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 2
Storage RT

Danger



H350 H312 H302 H319 H315 H341 H411

15A862 Quinoline, 96 % for synthesis

Specifications
Minimum assay (G.C.) ..... 96 %
Identity ..... IR passes test
Density 20/4 ..... 1.092-1.096

Code	Packaging
15A862.1611	1000 ml

8-Quinolinol see 8-Hydroxyquinoline

D(+)-Raffinose 5-hydrate

Melitriose, Melitose

$C_{18}H_{32}O_{16} \cdot 5H_2O$
M = 594.53 g/mol
CAS 17629-30-0
EINECS 208-146-9
CS 29400000

Melting Point ..... 80 °C
Solid

WGK 1
Storage RT

A6882 D(+)-Raffinose 5-hydrate BioChemica

Specifications
Assay (HPLC) ..... min. 98.0 %
α20 °C/D; 4 %, $NH_3 + H_2O$ ..... +104° ± 2°
Heavy metals (as Pb) ..... max. 0.001 %
Sulfated ash ..... max. 0.1 %
Water (K.F.) ..... 14.0-16.0 %

Code	Packaging
A6882,0025	25 g
A6882,0100	100 g
A6882,5000	5 kg
A6882,9025	25 kg

Rakoff staining solution

CS 38220000

Liquid

WGK 1
Storage RT

A8112 Rakoff staining solution for microscopy

Composition:
Eosin Y (C.I. 45380) ..... 0.17 g/L
Light Green SF, yellowish
(C.I. 42095) ..... 4.15 g/L

Code	Packaging
A8112,0015	15 ml

Random Primer Hexamer

random hexanucleotides

CS 38220000

Storage -20 °C

A8369 Random Primer Hexamer

Specifications
30 µg lyophilized primer hexamer nucleotides.
30 µg equals ~ 1 OD unit (A260),

Supplied with one vial of 1 ml of nuclease-free water.
Components:

Code	Packaging
A8369,0030	30 µg

Rapamune see Rapamycin

Rapamycin

RAPA, Rapamune, Sirolimus, RPM, Antibiotic AY 22989

Origin from *Streptomyces hygroscopicus*

$C_{51}H_{79}NO_{13}$
M = 914.17 g/mol
CAS 53123-88-9
CS 29349990

Melting Point ..... 178-182 °C
Solid

Storage -20 °C
Storage protected from light

A7663 Rapamycin BioChemica

Specifications
Assay (HPLC) ..... min. 95 %
λ_{max} ..... 265, 277, 287 nm

Code	Packaging
A7663,0001	1 mg

Rappaport Soy acc. Vassiliadis Broth see Rappaport-Vassiliadis (RVS) Broth (ISO 6579, ISO 19250) (Dehydrated Culture Media) for microbiology

Rappaport-Vassiliadis Soy Peptone Broth see Rappaport-Vassiliadis (RVS) Broth (ISO 6579, ISO 19250) (Dehydrated Culture Media) for microbiology

Real Time-PCR Kit see qPCR Kit, DNA-free

Real Time-PCR Mastermix see qPCR Kit, DNA-free

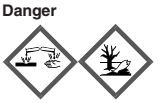
Rebelein's Kit

CS 38220000

Solubility ..... Miscible with water

UN3316
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
Storage RT

Danger



H314 H411

624901 Rebelein's Kit VINIKIT for wine analysis

for determination of reducing sugar, according to Rebelein method

Specifications
Comprised of:
624582 Cupric Solution
0.168 mol/l .....(1x500 ml)

624573 Potassium Sodium Tartrate 0.886 mol/l, alkaline solution ..... (1x500 ml)
624572 Potassium Iodide solution 30 % w/v ..... (1x500 ml)
624570 Sulfuric Acid solution 16 % v/v ..... (1x500 ml)

624576 Sodium Thiosulfate 0.0551 mol/l (0.0551N) .....(1x1000 ml)
624567 Starch solution 2 % .....(1x500 ml)
211835 Pumice Stone granules .....(1x5 g)

Code	Packaging
624901.0922	Kit

recombinant Human Epidermal Growth Factor see rHu EGF

recombinant Human Insulin see rHu Insulin

Red Oil 3B see Sudan III (C.I. 26100)

Red Oil AS see Sudan III (C.I. 26100)

Regeneration Kit for DNA Binding Columns see maxXbond™

rekombinant Human Glial Derived Neurotrophic Factor see rHu GDNF

Resazurin Sodium Salt

7-Hydroxy-3H-Phenoxacin-3-One-10-Oxide Sodium Salt

$C_{12}H_6NNaO_4$
M = 251.17 g/mol
CAS 62758-13-8
EINECS 263-718-5
CS 32041300

Melting Point ..... 273 °C
Solubility ..... water 20 g/l at 20 °C
Solubility ..... alcohol 6 g/l
Solid

WGK 3
Storage RT

121591 Resazurin Sodium Salt for analysis

pH indicator 5,0 pink; 7,0 blue violet

Specifications
Identity ..... IR passes test

A 1 %, 1 cm, λ_{max} ..... > 1625
λ_{max} ABS in NaOH
0.002 mol/l ..... 597-602 nm
T.L.C. ..... passes test

Maximum limit of impurities
pH transition interval: pink 5.0
pH transition interval: blue violet 7.0
Loss on drying at 135 °C ..... 10 %

Code	Packaging
121591.1604	5 g

Resorcinol

1,3-Benzenediol, 1,3-Dihydroxybenzene

$C_6H_6O_2$
M = 110.11 g/mol
CAS 108-46-3
EINECS 203-585-2
CS 29072100
Index Nr. 604-010-00-1

Melting Point ..... 110 °C
Boiling Point ..... 281 °C
Solubility ..... water 1,000 g/l at 20 °C
Solid

UN2876
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage away from direct light.

Warning



H302 H319 H315 H400

141603 Resorcinol (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (calc. a.d.s.) ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test
Melting range ..... 109-111 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Loss on drying ..... 1.0 %
Residue on ignition (as SO_4) ..... 0.05 %
Residual solvents (Ph. Eur./USP) . passes test
Phenol ..... passes test
Ordinary impurities ..... 0.5 %
Pyrocatechol ..... passes test

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141603.1208	100 g
141603.0914	5 kg
141603.0416	25 kg

Reticulin Kit

CS 38220000

Storage between 2-8 °C

Warning



H412 H351 H317

255115 Reticulin Kit for clinical diagnosis

reticulin fibres staining
S ications
Com
1x25ml Re Kit Reagent A

1x25ml Reticulin Kit Reagent B
1x25ml Reticulin Kit Reagent C
1x25ml Reticulin Kit Reagent D
1x25ml Reticulin Kit Reagent E
1x25ml Reticulin Kit Reagent F

1x25ml Reticulin Kit Reagent G
1 Instructions sheet

Code	Packaging
255115.0922	Kit

HebaPeakTMB

Printed on FSC® certified paper from well managed forests

Retinoic

Vitamin A Acid, all-trans-Retinoic acid, Tretinoin, ATRA

$C_{20}H_{28}O_2$
M = 300.44 g/mol
CAS 302-79-4
EINECS 206-129-0
CS 29362100

Solid

Storage 2-8 °C
Storage protected from light
Storage under argon

Warning



H302 H411

A6947 Retinoic Acid (Ph. Eur.) pure, pharma grade

Specifications
Assay (titr., getr. Subst.) ..... 98.0-102.0 %
Heavy metals (as Pb) ..... max. 0.002 %
Identity ..... passes test
Loss on drying (16 h; vacuum) ..... max. 0.5 %
Related subst. (HPLC) ..... passes test
Sulfated ash ..... max. 0.1 %

Code	Packaging
A6947,0100	100 mg

Retinyl acetate see Vitamin A Acetate

M-MuLV Reverse Transcriptase, RNase H minus

Origin recombinant from *E. coli* from Moloney Murine Leukemia Virus
M = 69 kDa
CS 38220000

Storage -20 °C

A5211 M-MuLV Reverse Transcriptase, RNase H minus

• **Attention**: Don't interrupt the cold chain

Specifications
Unit definition: see comment.

supplied with reaction buffer (5X)
Concentration ..... 50000-200000 U/ml

Code	Packaging
A5211,10000	10 KU

Reverse Transcription First Strand cDNA Synthesis Kit for RT-PCR see First Strand cDNA Synthesis-Kit for RT-PCR

L(+)-Rhamnose 1-hydrate

6-Deoxy-L-Mannose

$C_6H_{12}O_5 \cdot H_2O$
M = 182.17 g/mol
CAS 10030-85-0
EINECS 222-793-4
CS 29400000

Melting Point ..... 85-95 °C
Solid

WGK nwg
Storage RT

A4336 L(+)-Rhamnose 1-hydrate BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Solubility (10 %; H_2O) ..... clear, colorless
Sulfated ash ..... max. 0.05 %
Water (K.F.) ..... 9.5 ± 1 %
Chloride ..... max. 0.005 %

Code	Packaging
A4336,0010	10 g
A4336,0050	50 g
A4336,0100	100 g

Rhinanthin see Aucubin

Rhodamine B (C.I. 45170)

Basic Violet 1, D & C Red 19, Safranalin, Tetraethylrhodamin, Tetraethylrhodamine, Rosazein, Brilliantrose

$C_{28}H_{31}ClN_2O_3$
M = 479.02 g/mol
CAS 81-88-9
EINECS 201-383-9
CS 32041300

Solubility ..... 34 g/L (H_2O)
Solid

WGK 2
Storage RT

Danger



H318 H412

251604 Rhodamine B (C.I. 45170) for clinical diagnosis

for microscopy, fluorescent staining

Specifications
Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 1.10-1.37
A 1 %, 1 cm, λ_{max} (calc. a.d.s.) ..... > 2100
λ_{max} ABS in H_2O ..... 550-554 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 135 °C ..... 15 %

Code	Packaging
251604.1608	100 g

A3930 Rhodamine B (C.I. 45170)

Specifications
Assay (photometr.) ..... min. 90 %
λ_{max} (50 % EtOH) ..... 550-552 nm
E 1 %/1 cm, λ_{max} 2115-2350
Loss on drying ..... max. 5 %
pH (0.5 %; H_2O; 20 °C) ..... approx. 2.0
UV/VIS spectrum ..... passes test

Code	Packaging
A3930,0100	100 g

Ribitol see Adonitol

Riboflavin

Vitamin B_2, Lactoflavin, Vitamin G

$C_{17}H_{20}N_4O_6$
M = 376.40 g/mol
CAS 83-88-5
EINECS 201-507-1
CS 29362300

Melting Point ..... ~ 280 °C (dec.)
Solubility ..... 0.065 g/L (H_2O)
Solid

WGK 1
Storage RT
Storage protected from light

A0968 Riboflavin BioChemica

Specifications
Assay (photometr.) ..... min. 98 %
α20 °C/D; 0.5 %, 0.05 N NaOH ..... -125° ± 5°
Heavy metals ..... max. 0.001 %

Code	Packaging
A0968,0010	10 g

HeBaPeaKTMB

A6279 Riboflavin (Ph. Eur., USP) pure, pharma grade

Specifications
Assay (UV, dried subst.) ..... 98.0-102.0 %
α20 °C/D; 0.5 %, 0.05 N
NaOH, dried subst. .....-115 to -135°
$A_{373\ nm}$ / $A_{267\ nm}$ 0.31-0.33
$A_{444\ nm}$ / $A_{267\ nm}$ 0.36-0.39

Absorption maxima
(223, 267, 373, 444 nm) .....passes test
Identity .....passes test
Loss on drying ..... max. 1.5 %
Sulfated ash ..... max. 0.1 %
Impurity A (HPLC) ..... max. 0.025 %
Impurity B (HPLC) ..... max. 0.20 %

Impurity C (HPLC) .....max. 0.20 %
Impurity D (HPLC) .....max. 0.20 %
Largest unspecified impurity
(HPLC) .....max. 0.10 %
Lumiflavin (UV) .....passes test
Related substances impurities
(total) (HPLC) .....max. 0.5 %

Code	Packaging
A6279,0025	25 g
A6279,0100	100 g
A6279,0250	250 g

Riboflavin 5'-Phosphate Monosodium Salt 2-hydrate see Flavin Mononucleotide Monosodium Salt 2-hydrate

Riboflavin-5'-Adenosine Diphosphate Disodium Salt 2-hydrate see Flavin Adenine Dinucleotide Disodium Salt 2-hydrate

Ribonucleic Acid from yeast

RNA from yeast, tRNA

CAS 63231-63-0
EINECS 277-256-7
CS 29349990

Solid

Storage -20 °C

A3931 Ribonucleic Acid from yeast

Specifications
Activity ..... approx. 18 A_{260} U/mg
Solubility (1 %; H_2O) .....clear, slightly yellow
Water .....max. 10 %

Code	Packaging
A3931,0100	100 mg
A3931,0500	500 mg

D(-)-Ribose

$C_5H_{10}O_5$
M = 150.13 g/mol
CAS 50-69-1
EINECS 200-059-4
CS 29400000

Melting Point ..... 86-88 °C
Solid

Storage RT

A2219 D(-)-Ribose BioChemica

Specifications
Assay (HPLC) .....min. 99 %
α20 °C/D; 2 %, H_2O .....-20.5 to -19.0°

Heavy metals (as Pb) ..... max. 0.001 %
Solubility (5 %; H_2O) ..... clear, colorless

TLC .....passes test
Loss on drying .....max. 0.5 %

Code	Packaging
A2219,0050	50 g

Rifampicin

Rifampin, Rifamycin SV

$C_{43}H_{58}N_4O_{12}$
M = 822.96 g/mol
CAS 13292-46-1
EINECS 236-312-0
CS 29419000

Solid

WGK 1
Storage RT
Storage protected from light

Warning



H302 H315 H319 H335

A2220 Rifampicin

Specifications
Assay (HPLC) .....min. 98 %
Heavy metals (as Pb) .....max. 0.002 %
Water .....max. 2 %

Code	Packaging
A2220,0500	500 mg
A2220,0001	1 g
A2220,0005	5 g

RNA - Isolation

CS 38220000

UN2821
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2

Storage 2-8 °C
Storage protected from light
Storage under argon
Storage RT
Storage except for Phenol AC: +4 °C

Danger



H311+H331 H314 H341 H373 H302 H412

A2867 RNAtidy G

Ready-to-use - solution for the isolation of RNA from biological material

Specifications
Isolation of intact total RNA from tissue and cells, sequential precipitation of DNA and protein
improved version of the 'single-step' RNA-isolation method developed by Chomczynski & Sacchi

suited for small and large samples
mono-phasic reagent (contains phenol and guanidinium thiocyanate)
Isolation of small and large RNA species (0.1-15 kb) with high purity (DNA and protein-free)

Code	Packaging
A2867,0100	100 ml
A2867,0200	200 ml

A5189 Total RNA Mini SI Isolation Spin-Kit

Specifications
Kit for the total RNA isolation from different types of samples
Application of the RNA in RT-PCR, cDNA synthesis and Northern blotting
Binding capacity of the columns 100 µg RNA
Maximum sample volume: Blood (1 ml); cell culture cells ($5x10^6$ cells); bacteria ($5x10^9$ cells); tissue (20 mg)

Code	Packaging
A5189,0100	100 Isolations

RNA from yeast see Ribonucleic Acid from yeast

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

RNase A

Ribonuclease A

Origin from bovine pancreas

M = ~ 13700 g/mol
CAS 9001-99-4
EINECS 232-646-6
CS 35079090

Solid

WGK nwg
Storage -20 °C

A3832 RNase A (DNase-free)

salt-free, freeze dried

Specifications
DNases ..... not detectable
Proteases ..... not detectable
Activity ..... min. 80 U/mg (Kunitz)

Code	Packaging
A3832,0050	50 mg
A3832,0250	250 mg
A3832,0500	500 mg

A2760 RNase A

salt-free, freeze dried

Specifications
Assay ..... approx. 70 %
Activity ..... min. 70 U/mg (Kunitz)

Code	Packaging
A2760,0100	100 mg
A2760,0500	500 mg
A2760,1000	1 g

RNase decontamination solution see RNase-ExitusPlus™

RNase-ExitusPlus™

RNase decontamination solution, Decontamination removal solution for RNase

CS 38220000

Storage RT
Storage protected from light

A7153 RNase-ExitusPlus™

Specifications
removes RNase contaminations from surfaces for cleaning of laboratory surfaces for cleaning of electrophoresis equipment, pipetts, reaction tubes etc.
supplied in spray bottles or refill bottles (RF)
special, new features
non-enzymatic degradation of RNase by catalytic and cooperative effects of the components
All components of RNase-ExitusPlus™ are readily bio-degradable and not harmful or toxic for humans.
Doesn't contain aggressive mineralic acids or alkaline substances
No toxic fumes. Contains low concentration of alcohol.
Efficacy (ExitusPlus™ activity test) passes test
Functionality (Strand breakage test) ... passes test

Code	Packaging
A7153,0250	250 ml
A7153,0500	500 ml
A7153,1000	1 L
A7153,1000RF	1 L
A7153,2500RF	2.5 L

Robigenin see Kaempferol

Rochelle Salt see Potassium Sodium Tartrate 4-hydrate

Rosaniline Chloride see Fuchsin basic (C.I. 42510)

Rose Bengal (C.I. 45440)

Acid Red 94, Bengale Rose, 4,5,6,7-Tetrachloro-2',4',5',7'- Tetraiodofluorescein

$C_{20}H_2Cl_4I_4Na_2O_5$
M = 1017.65 g/mol
CAS 632-69-9
EINECS 211-182-8
CS 29182900

Solid

Storage RT

A4439 Rose Bengal (C.I. 45440)

Specifications
Assay ..... min. 85 %
λ_{max} (1 % Na_2CO_3) ..... 543-553 nm
E 1 %/1 cm, λ_{max}, 1 % Na_2CO_3 ..... min. 600
Identity ..... passes test
Solubility (1 %; MeOH) ..... clear, pink
Loss on drying ..... max. 5 %

Code	Packaging
A4439,0050	50 g

RPMI 1640 - Powder Medium

Cell culture media

CS 38210000

Storage 2-8 °C

A1339 RPMI 1640 - Powder Medium

Specifications
with L-Glutamine
without Sodium hydrogen carbonate

Code	Packaging
A1339,9050	50 L

A1538 RPMI 1640 - Powder Medium

Specifications
with L-Glutamine
with 25 mM HEPES
without Sodium hydrogen carbonate

Code	Packaging
A1538,9010	10 L

A1959 RPMI 1640 - Powder Medium

Specifications
without L-Glutamine
without Sodium hydrogen carbonate

Code	Packaging
A1959,9050	50 L

A3135 RPMI 1640 - Powder Medium

Specifications
with L-Glutamine
without Phenol red
without Sodium hydrogen carbonate

Code	Packaging
A3135,9050	50 L

RT-PCR First Strand cDNA Synthesis Kit for Reverse Transcription see First Strand cDNA Synthesis-Kit for RT-PCR

Rubidium Chloride

RbCl

RbCl
M = 120.92 g/mol
CAS 7791-11-9
EINECS 232-240-9
CS 28273985

Melting Point ..... 715 °C
Boiling Point ..... 1390 °C
Solid

WGK 1
Storage RT

A4240 Rubidium Chloride BioChemica

Specifications
Assay ..... min. 99 %
Solubility (5 %; H_2O) ..... clear, colorless
Sulfate ..... max. 0.02 %
Cu ..... max. 0.005 %
Fe ..... max. 0.005 %
K ..... max. 0.5 %
Na ..... max. 0.005 %
Ni ..... max. 0.005 %
Pb ..... max. 0.005 %
Zn ..... max. 0.005 %

Code	Packaging
A4240,0010	10 g
A4240,0050	50 g

Rubin Acid see Fuchsin Acidic Disodium Salt (C.I. 42685)

Ruthenium Red

$Cl_6H_{42}N_{14}O_2Ru_3 \cdot 4H_2O$
M = 858.42 g/mol
CAS 11103-72-3
EINECS 308-985-1
CS 28439090

Solubility ..... soluble (H_2O)
Solid

WGK 3*
Storage RT

Warning



H302

A3488 Ruthenium Red

Specifications
Assay (titr.) ..... approx. 95 %
pH (20 °C) ..... 7.0 (H_2O)

Code	Packaging
A3488,0001	1 g
A3488,0005	5 g

Rutin

Sophorin, Quercetin-3-Rutinoside, Rutosid

$C_{27}H_{30}O_{16}$
M = 610.52 g/mol
CAS 153-18-4
CS 29381000

Solid

Storage 2-8 °C

Warning



H315 H319 H335

A6764 Rutin for HPLC

Specifications
Assay ..... min. 99 %

Code	Packaging
A6764,0050	50 mg

Rutosid see Rutin

RVS Broth see Rappaport-Vassiliadis (RVS) Broth (ISO 6579, ISO 19250) (Dehydrated Culture Media) for microbiology

Sabouraud Agar see Sabouraud Glucose Agar (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Sabouraud Liquid Broth, Modifi see Glucose Sabouraud Broth (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Safranalin see Rhodamine B (C.I. 45170)

Safranine O (C.I. 50240)

Basic Red 2, Safranine T, 3,7-Diamino-2,8-Dimethyl-5-Phenylphenazinium Chloride

$C_{20}H_{19}ClN_4$
M = 350.88 g/mol
CAS 477-73-6
EINECS 207-518-8
CS 32041300

Solid

WGK 2
Storage RT

251622 Safranine O (C.I. 50240) for clinical diagnosis

Dye for microorganisms staining according to Gram-Hucker

Specifications
Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 1.10-1.32
A 1 %, 1 cm, λ_{max} ..... > 875
λ_{max} ABS in C_2H_5OH 50 % ..... 530-534 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 110 °C ..... 15 %

Code	Packaging
251622.1605	10 g
251622.1607	50 g

A0427 Safranine O (C.I. 50240) for microscopy

Specifications
Assay ..... min. 80 %
λ_{max} (50 % EtOH) ..... 530-534 nm
E 1 %/1 cm, λ_{max} 1180-1480
Loss on drying ..... max. 15 %

Code	Packaging
A0427,0100	100 g
A0427,1000	1 kg

D(-)-Salicin

$C_{13}H_{18}O_7$
M = 286.27 g/mol
CAS 138-52-3
EINECS 205-331-6
CS 29389090

Solid

WGK 1
Storage RT

Warning



H317

A3269 D(-)-Salicin for microbiology

Specifications
Assay (HPLC) ..... min. 90 %
α20 °C/D; 3 %, H_2O ..... -60.5 to -64.5°
Solubility (3 %; H_2O) ..... clear, colorless
Water (K.F.) ..... max. 0.5 %

Code	Packaging
A3269,0025	25 g
A3269,0100	100 g

Salicylic Acid

2-Hydroxybenzoic Acid

$C_6H_4(OH)COOH$
M = 138.12 g/mol
CAS 69-72-7
EINECS 200-712-3
CS 29182100

Melting Point ..... 159 °C
Boiling Point ..... 211 °C 27 hPa
Solubility ..... water 1.8 g/l at 20 °C
Solid

WGK 1
Storage away from direct light.

Warning



H302 H319

131045 Salicylic Acid for analysis, ACS

Specifications
Minimum assay (HPLC.) ..... 99.0 %
Identity ..... IR passes test
Melting range ..... 159-161.0 °C

Maximum limit of impurities
Insoluble matter in C_2H_5OH ..... passes test
Darkened substances by H_2SO_4 ..... passes test
Residue on ignition (as SO_4) ..... 0.01 %
Chloride (Cl) ..... 0.001 %
Sulfate (SO_4) ..... 0.003 %
Heavy metals (as Pb) ..... 0.0005 %
Ca ..... 0.001 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0002 %
Fe ..... 0.0002 %
K ..... 0.005 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.05 %
Ni ..... 0.0002 %
Pb ..... 0.0002 %
Zn ..... 0.0005 %

Code	Packaging
131045.1208	100 g

141045 Salicylic Acid (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 99.5-100.5 %
Identity according to Pharmacopoeias: ..... passes test
Melting range ..... 159-161 °C
T.L.C. ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in C_2H_5OH ..... passes test
Darkened substances by H_2SO_4 ..... passes test
Loss on drying ..... 0.5 %
Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.02 %
Related Substances (HPLC) ..... 0.2 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.002 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141045.1210	500 g
141045.1211	1000 g
141045.0914	5 kg
141045.0416	25 kg

151045 Salicylic Acid, 99 % for synthesis

Specifications
Assay ..... 99 %
Identity ..... IR passes test

Code	Packaging
151045.1210	500 g

Salicylic Acid Sodium Salt see Sodium Salicylate

Salmon sperm DNA Sodium Salt

Deoxyribonucleic acid from salmon sperm

CAS 9007-49-2
EINECS 309-566-6
CS 29349990

Solid

Storage 2-8 °C

A2160 Salmon sperm DNA Sodium Salt

lyophilized

Specifications
DNases/RNases/Proteases ..... not detectable

Code	Packaging
A2160,0001	1 g

A2159 Salmon sperm DNA sodium salt (sonified)

lyophilized

Specifications
DNases/RNases/Proteases ..... not detectable
Fragment size ..... 10-330 bp

Code	Packaging
A2159,0001	1 g
A2159,0005	5 g

Salvinin see Pelargonidin-3,5-Diglucoside Chloride

SAM see S-(5'-Adenosyl)-L-Methionine Iodide

Saponin from Quillaja Bark

CAS 8047-15-2
EINECS 232-462-6
CS 29389090

Solid

WGK 1
Storage RT

Warning



H319 H335

A45[illegible] Saponin from Quillaja Bark (DAB) pure, pharma grade

Specifica[illegible]
Extinction ..... max. 0.4
Foam-rate 6-17
Muddiness ..... max. 30 TE/F
pH (5 %; H_2O) 4-7
Specific density ..... 1.01-1.02 g/L
Surface-tension [20 °C, 0,1 % solution] ..... 35-55 dyn/cm
Sapogenin content ..... 10-14 %

Code	Packaging
A4518,0100	100 g
A4518,1000	1 kg

Printed on FSC® certified paper from well managed forests

A2542 Saponin from Quillaja Bark pure

Specifications
pH (20 %; H_2O) 4.5-5.5
Sapogenin content ..... 10-14 %

Code	Packaging
A2542,0100	100 g
A2542,0500	500 g
A2542,1000	1 kg

Sarkine see Hypoxanthine

Sarkosyl see N-Lauroylsarcosine Sodium Salt

Schaffer's solution

CS 38220000

Liquid

UN1993
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 2
Storage RT

Warning



H226 H302+H312+H332 H315 H317 H319 H335 H336 H351

A3199 Schaffer's solution

Composition:
Ethanol (80 %) .....667 ml/L
Formaldehyde 37 % .....333 ml/L

Code	Packaging
A3199,2500	2.5 L

Schiff's Reagent

Reagent for aldehydes

CS 28061000

Density .....1.010 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

251588 Schiff's Reagent for clinical diagnosis

Composition:
Pararosaniline .....0.1 g
Sodium Sulphite solution 10 % .....10 ml
Hydrochloric Acid 35 % .....3 ml
Water .....50 ml

Code	Packaging
251588.1609	250 ml
251588.1611	1000 ml

SDS

Laurylsulfate Sodium Salt, Sodium Dodecylsulfate, Sodium Laurylsulfate, Dodecyl Sulfate Sodium Salt

$C_{12}H_{25}NaO_4S$
M = 288.38 g/mol
CAS 151-21-3
EINECS 205-788-1
CS 29209010

Solubility ..... 250 g/L (H_2O)
Solid

UN2926
Class/PG 4.1(6.1)/III
ADR 4.1(6.1)/III · IMDG 4.1(6.1)/III · IATA 4.1(6.1)/III
WGK 2
Storage RT

Danger



H228 H302 H311 H315 H318 H335

362363 SDS for HPLC

for ion pair chromatography

Specifications
Minimum assay .....99.0 %
Identity .....IR passes test

Maximum limit of impurities
Insoluble matter in H_2O .....0.005 %
C12 compounds minimum (G.C.) .....99.0 %
Water (H_2O) ..... 1 %

UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 220 nm .....≥ 70 %
Transmittance at 230 nm .....≥ 90 %
Transmittance at 240 nm .....≥ 94 %
Transmittance at 250-350 nm .....≥ 96 %

Code	Packaging
362363.1606	25 g

132363 SDS for analysis, ACS

for determination of surfactants

Specifications
Minimum assay (a.d.s.) .....99.0 %
Identity .....IR passes test

Maximum limit of impurities
ABS λ_{max} 220-350 nm 3 % sol. in H_2O 0.1
Alkalinity ..... 0.06 meq/g
Insoluble matter in H_2O .....0.01 %
Loss on drying at 105 °C ..... 1.0 %

Chloride (Cl) .....0.05 %
C12 compounds minimum (G.C.) .....99 %
Unsulfated Alcohols .....1 %
Water (H_2O) .....1 %
Heavy metals (as Pb) .....0.0005 %

Code	Packaging
132363.1207	50 g
132363.1209	250 g
132363.0914	5 kg

142363 SDS (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Minimum assay .....85.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Alkalinity ..... passes test

Residual solvents (Ph. Eur./USP) . passes test
Non-esterified alcohols .....4.0 %
Total alcohols minimum .....59.0 %
Sodium Chloride and Sodium Sulfate .... 8.0 %
Heavy metals (as Pb) .....0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm

Code	Packaging
142363.1209	250 g
142363.1211	1000 g
142363.0914	5 kg
142363.0416	25 kg

A2263 SDS for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
Assay (titr.) .....min. 99.0 %
pH (10 %; H_2O; 25 °C) 5.0-7.0
Water .....max. 0.05 %
Chloride .....max. 0.025 %
Phosphate ..... max. 0.0001 %

Pb ..... max. 0.0005 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.04
280 nm ..... max. 0.02

Code	Packaging
A2263,0100	100 g
A2263,0500	500 g
A2263,1000	1 kg
A2263,9025	25 kg

A1112 SDS ultrapure

Specifications
Assay (titr.) .....min. 99.0 %
pH (0.1 M; H_2O; 25 °C) 5.0-7.0
Water .....max. 0.05 %
Chloride .....max. 0.025 %

Phosphate ..... max. 0.0001 %
Pb ..... max. 0.0005 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.04
280 nm ..... max. 0.02

Code	Packaging
A1112,0100	100 g
A1112,0500	500 g
A1112,1000	1 kg

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

НеваРеактив

A2572 SDS BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (10 %; H_2O; 25 °C) 5.0-7.0
Water ..... max. 0.1 %
Chloride ..... max. 0.05 %
Phosphate ..... max. 0.01 %

Code	Packaging
A2572,0250	250 g
A2572,0500	500 g
A2572,1000	1 kg
A2572,9025	25 kg

A7249 SDS grained pure

Specifications
Assay (titr.) ..... min. 96 %
Appearance of substance ..... white to pale yellow granulate
pH (10 %; H_2O) ..... 7.0-10.5 (20 °C)
Sodium chloride ..... max. 1.0 %
Sodium sulfate ..... max. 2.5 %
Water (K.F.) ..... max. 2.5 %

Code	Packaging
A7249,0500	500 g
A7249,1000	1 kg
A7249,5000	5 kg

SDS solutions 20 %

Sodium Dodecylsulfate solution

CS 29209010

Liquid

WGK 2
Storage RT

Warning



H315 H319

A0675 SDS solution 20 % for molecular biology

SDS precipitates at temperatures below 15 °C. It can be dissolved by warming in a water bath above 37 °C

Specifications
DNases/RNases/Proteases ..... not detectable

Appearance of solution ..... clear, colorless

Composition:
SDS ..... 200 g/L
A (1 cm/0.1 M HPLC water)
260 nm ..... max. 0.03
280 nm ..... max. 0.02

Code	Packaging
A0675,0250	250 ml
A0675,0500	500 ml
A0675,1000	1 L

A3942 SDS solution 20 % pure

SDS precipitates at temperatures below 15 °C. It can be dissolved by warming in a water bath above 37 °C

Specifications
Appearance of solution ..... clear, yellowish
pH (25 °C) 7.0-10.5

Composition:
SDS ..... 200 g/L

Code	Packaging
A3942,1000	1 L

SDS solutions 10 %

Sodium Dodecylsulfate solution, Laurylsulfate Sodium Salt, Sodium Dodecylsulfate, Sodium Laurylsulfate, Dodecyl Sulfate Sodium Salt

CS 29209010

Liquid

WGK 2
Storage RT

Warning



H315 H319

146132 SDS solution 10 % w/v pure

Specifications
Assay (w/v) ..... 9.8-10.2 %

Code	Packaging
146132.1315	10 l

A0676 SDS solution 10 % for molecular biology

SDS precipitates at temperatures below 15 °C. It can be dissolved by warming in a water bath above 37 °C

Specifications
DNases/RNases/Proteases ..... not detectable

Appearance of solution ..... clear, colorless
pH (25 °C) 5.0-7.0

Composition:
SDS ..... 100 g/L
A (1 cm/0.1 M HPLC water)
260 nm ..... max. 0.03
280 nm ..... max. 0.02

Code	Packaging
A0676,0250	250 ml
A0676,0500	500 ml
A0676,1000	1 L

A3950 SDS solution 10 % pure

SDS precipitates at temperatures below 15 °C. It can be dissolved by warming in a water bath above 37 °C

Specifications
Appearance of solution ..... clear, yellowish
pH (25 °C) 7.0-10.5

Composition:
SDS ..... 100 g/L

Code	Packaging
A3950,1000	1 L

SDS 0.004 mol/l

Dodecyl Sulfate Sodium salt, Laurylsulphate Sodium Salt, SDS, Sodium Laurylsulphate

$C_{12}H_{25}NaO_4S$
M = 288.38 g/mol
CAS 151-21-3
EINECS 205-788-1
CS 34021190

Density ..... 1.000 kg/l
Solubility ..... Miscible with water
Liquid

WGK 2
Storage RT

182792 SDS 0.004 mol/l volumetric solution

for titration of cationic surfactants

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182792.1211	1000 ml

НеваРеактив

SDS-Tris-Glycine buffer

TGS buffer, Laemmli buffer

CS 38220000 | Liquid | Storage RT

A1415 SDS-Tris-Glycine buffer (10X) BioChemica

10X concentrated solution for electrophoresis

Specifications
pH (H_2O; 25 °C) ..... 8.4 ± 0.2

Composition:
Glycine ..... 144.13 g/L (1.92 M)
SDS ..... 10 g/L (1 %)
Tris ..... 30.29 g/L (0.25 M)

Code	Packaging
A1415,1000	1 L

A3376 SDS-Tris-Glycine buffer (5X) BioChemica

Specifications
pH (H_2O; 25 °C) ..... 8.4 ± 0.2

Composition:
Glycine ..... 72.06 g/L
SDS ..... 5 g/L
Tris ..... 15.15 g/L

Code	Packaging
A3376,5000	5 L

Sea Sand

CAS 14808-60-7
EINECS 238-878-4
CS 25051000

Density ..... approx. 1430 kg/m³
Solid

WGK nwg
Storage RT

121160 Sea Sand for analysis

acid washed and heated

Specifications
Acid-soluble Fe ..... max. 0.01 %
HCl-soluble subst. ..... max. 0.15 %
Loss on drying ..... max. 0.1 %
Particle size ..... 0.1-0.3 mm
Chloride ..... max. 0.005 %

Code	Packaging
121160.1212	2.5 kg
121160.1211	1 kg
121160.1214	5 kg
121160.0415	10 kg
121160.0416	25 kg

141160 Sea Sand pure

acid washed; suitable for column chromatography

Specifications
Loss on drying ..... max. 0.2 %
Particle size ..... 0.1-0.3 mm
Chloride ..... max. 0.005 %

Fe ..... max. 0.005 %
Pb ..... max. 0.001 %

Code	Packaging
141160.1212	2.5 kg
141160.1214	5 kg
141160.0415	10 kg
141160.0416	25 kg

211160 Sea Sand washed, thin grain technical grade

Specifications
Soluble matter in HCl ..... 0.2 %
Loss on drying ..... 0.2 %
Chloride (Cl) ..... 0.015 %
Particle size ..... < 0.30 mm

Code	Packaging
211160.1211	1000 g
211160.1214	5 kg
211160.0416	25 kg

Sea Sand washed

SiO_2
M = 60.09 g/mol
CAS 14808-60-7
EINECS 238-878-4
CS 25051000

Solubility ..... Insoluble in water
Solid

WGK nwg
Storage RT

211161 Sea Sand washed, thick grain technical grade

Specifications
Soluble matter in HCl ..... 0.2 %
Loss on drying ..... 0.2 %
Chloride (Cl) ..... 0.015 %
Particle size ..... 1-2 mm

Code	Packaging
211161.1211	1000 g
211161.1214	5 kg
211161.0416	25 kg

Seignette Salt see Potassium Sodium Tartrate 4-hydrate

Selective Agar for Staphylococci according to Baird-Parker see Baird-Parker Agar Base (Dehydrated Culture Media) for microbiology

Selenium metal powder

Se
M = 78.96 g/mol
CAS 7782-49-2
EINECS 231-957-4
CS 28049000
Index Nr. 034-001-00-2

Melting Point ..... 217 °C
Boiling Point ..... 684 °C
Solubility ..... Insoluble in water
Solid

WGK 2
Storage RT

Danger



H331 H301 H373 H413

141625 Selenium metal powder pure

Specifications
Assay (Redox.) ..... 99 %
Residue on ignition ..... 0.5 %
Nitrogen compounds (as N) ..... 0.01 %
Sulfur compounds (as S) ..... 0.05 %

Cu ..... 0.01 %
Fe ..... 0.05 %
Ni ..... 0.01 %
Pb ..... 0.05 %

Code	Packaging
141625.1207	50 g
141625.1208	100 g
141625.1210	500 g

Selenium Reactive Mixture see Kjeldahl Catalyst (Cu-Se) powder

HeBaPeaKTMB

Senecionin

12-Hydroxysenecionane-11,16-dione, Aureine

Origin from *Senecio vulgaris*

$C_{18}H_{25}NO_5$
M = 335.39 g/mol
CAS 130-01-8
CS 29161995

Solid

UN2811
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage 2-8 °C

Danger



H301 H373

A2071 Senecionin HPLC grade

Specifications
Assay (HPLC) .....min. 99 %

Code	Packaging
A2071,0050	50 mg

Sennosid A1

Sennosid A', Sennosid G

Origin from *Cassia angustifolia*

$C_{42}H_{38}O_{20}$
M = 862.72 g/mol
CAS 66575-30-2
CS 29389090

Storage 2-8 °C

A9545 Sennosid A1 for HPLC

Specifications
Assay .....min. 95 %

Code	Packaging
A9545,0010	10 mg
A9545,0020	20 mg

SeparatelT Polymer solution

CS 38220000

Storage 2-8 °C

Warning



H302 H315 H319

A8587 SeparatelT Polymer solution

Specifications
Polymer Solution Improving Acrylamid : Bis (29:1) Gel Electrophoresis
supplied as 10X *ready-to-use* reagent

Code	Packaging
A8587,0100	100 ml

L-Serine

L-2-Amino-3-Hydroxypropionic Acid

$C_3H_7NO_3$
M = 105.09 g/mol
CAS 56-45-1
EINECS 200-274-3
CS 29225000

Solubility ..... 364 g/L (H_2O)
Solid

Storage RT

A3943 L-Serine for cell culture

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) .....min. 99 %
α20 °C/D; 10 %, 2 M HCl .....14.0-16.0°
Other amino acids .....max. 0.5 %
Ammonium .....max. 0.02 %
Chloride .....max. 0.02 %
Sulfate .....max. 0.02 %
As ..... max. 0.0001 %
Fe .....max. 0.001 %
Pb .....max. 0.001 %

Code	Packaging
A3943,1000	1 kg

A1708 L-Serine (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) .....98.5-101.0 %
α20 °C/D; 10 %, 2 M HCl, calc on dried subst. .....14.0-16.0°
α25 °C/D; 10 %, 2 N HCl .....14.0-15.6°
Appearance of solution .....passes test
Heavy metals (as Pb) .....max. 0.001 %
Identity .....passes test
Loss on drying (3 h; 105 °C) .....max. 0.2 %
Sulfated ash .....max. 0.1 %
Ninhydrin positive substances .....max. 0.5 %
Ammonium .....max. 0.02 %
Chloride .....max. 0.02 %
Sulfate .....max. 0.03 %
Fe .....max. 0.001 %

Code	Packaging
A1708,0100	100 g
A1708,0500	500 g
A1708,1000	1 kg

Set of dNTPs (dATP, dCTP, dGTP, dTTP) see Deoxyribonucleotide - Set (4 x 10 mM)

Sialic Acid

NANA, N-Acetylneuraminic Acid

Origin from bird's nests

$C_{11}H_{19}NO_9$
M = 309.28 g/mol
CAS 131-48-6
EINECS 205-023-1
CS 29241900

Melting Point ..... 182-188 °C (dec.)
Solid

Storage 2-8 °C

A1002 Sialic Acid BioChemica

Specifications
Assay (titr.) .....min. 98 %
α20 °C/D; 1 %, H_2O .....-33° ± 2°

Code	Packaging
A1002,0100	100 mg

Silan-Sterol-1

CS 38220000

Density .....0.940 kg/l
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225 H332 H312 H302 H319 H315

355650 Silan-Sterol-1 for GC

for derivatization (G.C.)

Composition:
Hexamethyldisilazane ..... 300 ml
Pyridine dry .....900 ml
Trimethylchlorosilane .....100 ml

Code	Packaging
355650.0922	20x1ml

Silane A 174 see 3-Methacryloxypropyl Trimethoxysilane

Silica Gel 2,5-6 mm with indicator (without cobalt chloride)

CAS 112926-00-8
EINECS 231-545-4
CS 28112200

Melting Point .....> 1,000 °C
Solubility .....Insoluble in water
Solid

Storage RT

135571 Silica Gel 2,5-6 mm with indicator (without cobalt chloride) for analysis, ACS

Maximum limit of impurities
Loss on drying at 150 °C .....2.0 %
Minimum water absorption capacity
(24 hrs at 80 % relative humidity) .....27 %
Amber colour ..... activated
Light yellow colour .....worn out (regenerate)

Code	Packaging
135571.1210	500 g
135571.1211	1000 g
135571.1212	2,5 kg
135571.0914	5 kg
135571.0415	10 Kg
135571.0416	25 kg

Silica Gel 3-6 mm with indicator (with cobalt chloride)

CAS 112926-00-8
EINECS 231-545-4
CS 28112200

Solubility .....Insoluble in water
Solid

Storage RT

Danger



H350i H302 H412

131335 Silica Gel 3-5 mm with indicator (with cobalt chloride) for analysis, ACS

Maximum limit of impurities
Loss on drying at 150 °C .....2.0 %

Minimum water absorption capacity
(24 hrs at 80 % relative humidity) .....27 %

Blue colour ..... activated
Pink colour .....worn out (not regenerable)

Code	Packaging
131335.1211	1000 g

211335 Silica Gel 3-5 mm with indicator (with cobalt chloride) technical grade

Specifications
Minimum water absorption capacity
(24 hrs at 80 % relative humidity) .....22 %
Blue colour ..... activated
Pink colour .....worn out (not regenerable)

Code	Packaging
211335.1210	500 g
211335.1211	1000 g
211335.0914	5 kg
211335.0416	25 kg

Silica Gel 60, 40-63 microns

CAS 112926-00-8
EINECS 231-545-4
CS 28112200

Solubility .....Insoluble in water
Solid

Storage RT

176448 Silica Gel 60, 40-63 microns

for chromatography in column

Specifications
pH of 10 % aqueous suspension 6.0-7.5

Maximum limit of impurities
Loss on ignition 800 °C .....10 %
Granular size less than 25 um .....15 %
Granular size more than 71 um .....7 %

Code	Packaging
176448.1211	1000 g
176448.0914	5 kg

Silica Gel 60, 63-200 microns

CAS 112926-00-8
CS 28112200

Solubility .....Insoluble in water
Solid

Storage RT

174275 Silica Gel 60, 63-200 microns

for chromatography in column

Specifications
pH of 10 % aqueous suspension 5.5-7.5

Maximum limit of impurities
Loss on ignition 800 °C .....10 %

Granular size less than 63 um .....7 %
Granular size more than 200 um .....12 %

Code	Packaging
174275.1211	1000 g
174275.1212	2,5 kg
174275.0914	5 kg
174275.0416	25 kg

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Printed on FSC® certified paper from well managed forests

Silica Gel 60, 200-500 microns

CAS 112926-00-8
CS 28112200

Solubility ..... Insoluble in water
Solid

Storage RT

177009 Silica Gel 60, 200-500 microns

Specifications
pH of 10 % aqueous suspension 6.0-7.5

Maximum limit of impurities
Residue on ignition ..... 10 %
Particle size < 200 um ..... 8 %
Particle size > 500 um ..... 8 %

Specific surface ..... 500 +/- 50 m2/g
Poro volume ..... 0.75 +/- 0.1 ml/g
Mean pore size ..... 60 +/- 10 A

Code	Packaging
177009.0416	25 kg

Siliceous Earth purified and calcined

Diatomaceous Earth, Infusorial Earth, Kieselgur

CAS 91053-39-3
EINECS 293-303-4
CS 25120000

Melting Point ..... 1,713 °C
Boiling Point ..... 2,230 °C
Solubility ..... Insoluble in water
Solid

Storage RT

142475 Siliceous Earth purified and calcined (USP-NF) pure, pharma grade

Maximum limit of impurities
Soluble matter in H_2O ..... 0.2 %
Soluble matter in HCl ..... 2.0 %
Loss on ignition 980 °C ..... 2.0 %
Loss on drying at 105 °C ..... 0.5 %

Non siliceous substances ..... 25 %
Residual solvents (Ph. Eur./USP) . passes test
Leachable As ..... 0.001 %

Leachable Pb ..... 0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
142475.1211	1000 g
142475.0914	5 kg
142475.0416	25 kg

212475 Siliceous Earth purified and calcined technical grade

Specifications
pH of 10 % 5-10
Soluble matter in HCl ..... 2 %

Chloride (Cl) ..... 0.01 %
Leachable Fe ..... 0.04 %
Heavy metals (as Pb) ..... 0.005 %

Code	Packaging
212475.1211	1000 g

Silicon-free greases (glisseal® HV)

CS 34039900

Storage RT

177072 Silicon-free greases (glisseal® HV)

no dripping point

Silicon-free grease with extraordinary temperature and chemical resistance, no dripping point in the range of -40 to +300 °C. Can easily be removed with deconex; withstands high vaccums.

® glisseal is a trademark of Borer Chemie AG Zuchwil. Switzerland

Code	Packaging
177072.0058	60 g
177072.0011	1 kg

Silicon-free greases (glisseal® N)

CS 34039900

WGK 1
Storage RT

177075 Silicon-free greases (glisseal® N)

no dripping point

® glisseal is a trademark of Borer Chemie AG Zuchwil. Switzerland

Code	Packaging
177075.0058	60 g

Silicone antifoaming liquid (AQ)

CS 39100000

Boiling Point ..... > 35 °C
Density ..... 1.00 kg/l
Liquid

Storage RT

216241 Silicone antifoaming liquid (AQ) technical grade

for distillation of aqueous products

Specifications
Identity ..... IR passes test

Code	Packaging
216241.1210	500 ml

Silicone antifoaming liquid (ORG)

CS 39100000

Density ..... 0.97 kg/l
Solubility ..... Inmiscible with water.
Liquid

Storage RT

211628 Silicone antifoaming liquid (ORG) technical grade

for distillation of organic products

Specifications
Identity ..... IR passes test

Code	Packaging
211628.1208	100 ml
211628.1209	250 ml
211628.1210	500 ml

Silicone heat resistant liquid

CS 39100000

Density ..... 0.990 kg/l
Solubility ..... Insoluble in water
Liquid

Storage RT

211629 Silicone heat resistant liquid technical grade

for oil bath up to 250 °C

Specifications
Identity ..... IR passes test
Density 20/4 ..... 0.98-1.10

Appearance ..... passes test
Test of heater ..... passes test

Code	Packaging
211629.1210	500 ml
211629.1214	5 l

Silicone paste A

CS 39100000

Solubility ..... Insoluble in water
Solid

Storage RT

211630 Silicone paste A technical grade

for greasing at high temperatures

Specifications
Identity ..... IR passes test

Code	Packaging
211630.1207	50 g
211630.1208	100 g

Silicone paste B

CS 39100000

Solubility ..... Insoluble in water
Solid

Storage RT

211631 Silicone paste B technical grade

for greasing at pressure and vacuum. For use at pressures down to 10-6 mm Hg

Specifications
Identity ..... IR passes test

Code	Packaging
211631.1207	50 g
211631.1208	100 g
211631.1214	5 kg

Silvan see 2-Methylfuran

Silver Carbonate

Ag_2CO_3
M = 275.75 g/mol
CAS 534-16-7
EINECS 208-590-3
CS 28432900

Solubility ..... 0.032 g/L (H_2O)
Solid

WGK 2
Storage RT

Danger



H318

141800 Silver Carbonate pure

Specifications
Assay (titr.) ..... min. 99 %
Sulfate ..... max. 0.005 %
Cd ..... max. 0.005 %
Fe ..... max. 0.005 %
Pb ..... max. 0.005 %

Code	Packaging
141800.1208	100 g

Silver Chloride

AgCl
M = 143.32 g/mol
CAS 7783-90-6
EINECS 232-033-3
CS 28432900

Melting Point ..... 455 °C
Boiling Point ..... 1,550 °C
Solubility ..... Insoluble in water
Solid

WGK 3
Storage RT

141802 Silver Chloride pure

Specifications
Assay ..... 99 %
Insoluble matter in NH_4OH ..... 0.05 %
Cu ..... 0.003 %
Fe ..... 0.003 %
Ni ..... 0.003 %
Pb ..... 0.003 %

Code	Packaging
141802.1606	25 g

Silver Diethyldithiocarbamate

Diethyldithiocarbamic Acid Silver Salt

$C_5H_{10}AgNS_2$
M = 256.14 g/mol
CAS 1470-61-7
EINECS 216-003-7
CS 28432900

Melting Point ..... 172-175 °C
Solubility ..... Insoluble in water
Solid

WGK 3
Storage RT

132382 Silver Diethyldithiocarbamate (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Arg.) ..... 99.0 %

Maximum limit of impurities
Insoluble matter in C_5H_5N ..... passes test
Sensitivity to As ..... passes test

Code	Packaging
132382.1606	25 g

Silver Methanesulfonate

CH_3AgO_3S
M = 202.97 g/mol
CAS 2386-52-9
EINECS 219-199-2
CS 28432900

Storage RT

147086 Silver Methanesulfonate pure

Specifications
Assay (titr.) ..... min. 99 %
Loss on drying ..... max. 3 %
Solubility (5 %; H_2O) ..... clear, colorless
Cu ..... max. 0.005 %
Fe ..... max. 0.005 %
Pb ..... max. 0.005 %

Code	Packaging
147086.1208	100 g

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Silver Nitrate

$AgNO_3$
M = 169.87 g/mol
CAS 7761-88-8
EINECS 231-853-9
CS 28432100
Index Nr. 047-001-00-2

Melting Point ..... 212 °C
Boiling Point ..... 444 °C
Solubility ..... 2150 g/L (H_2O)
Solid

UN1493
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 3
Storage RT

Danger



H272 H314 H410

131459 Silver Nitrate for analysis, ACS, ISO

Specifications
Minimum assay (Arg.) ..... 99.8 %

Maximum limit of impurities
Acidity ..... passes test
Insoluble matter in H_2O ..... 0.003 %
Insoluble matter in C_2H_5OH ..... passes test
Chloride (Cl) ..... 0.0005 %

Sulfate (SO_4) ..... 0.002 %
Non-precipit. subst. by HCl ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]
Bi.....5 Ca.....10
Co.....5 Cu.....2
Fe.....2 Ga.....5
Ge.....5 In.....5
K.....100 Mg.....10
Mn.....5 Na.....20
Ni.....5 Pb.....10
Sr.....5 V.....5
Zr.....5

Code	Packaging
131459.1606	25 g
131459.1607	50 g
131459.1608	100 g
131459.1609	250 g
131459.1611	1000 g

141459 Silver Nitrate (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Arg.) ..... 99.8-100.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test

Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Sulfate (SO_4) ..... 0.002 %
Residual solvents (Ph. Eur.) ..... passes test
Al, Pb, Cu and Bi ..... passes test
Foreign salts ..... 0.02 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %

Pb ..... 0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141459.1606	25 g
141459.1607	50 g
141459.1608	100 g
141459.1609	250 g
141459.1611	1000 g

A3944 Silver Nitrate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.8 %
Chloride ..... max. 0.0005 %

Sulfate ..... max. 0.002 %
Cd ..... max. 0.0001 %
Fe ..... max. 0.0002 %
Mn ..... max. 0.0005 %

Ni ..... max. 0.0005 %
Pb ..... max. 0.001 %
Zn ..... max. 0.0001 %

Code	Packaging
A3944,0025	25 g
A3944,0100	100 g

A3972 Silver Nitrate BioChemica

suitable for protein and DNA staining

Specifications
Assay (titr.) ..... min. 99.8 %
Insoluble matter ..... passes test

Chloride ..... max. 0.0005 %
Nitrite ..... max. 0.05 %
Sulfate ..... max. 0.002 %
Cu ..... max. 0.0005 %

Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
A3972,0025	25 g
A3972,0100	100 g

Silver Nitrate solution 10 %

$AgNO_3$ - Solutions

EINECS 231-853-9
CS 28432100
Index Nr. 047-001-00-2

Liquid

UN1760
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 3
Storage RT

Danger



H314 H411

122204 Silver Nitrate solution 10 % for analysis

Specifications
Assay (titr.) ..... min. 10 %
Chloride ..... max. 0.0005 %
Sulfate ..... max. 0.002 %

Cd ..... max. 0.0001 %
Fe ..... max. 0.0002 %
Mn ..... max. 0.0005 %
Ni ..... max. 0.0005 %

Pb ..... max. 0.001 %
Zn ..... max. 0.0001 %

Code	Packaging
122204.1611	1 L

Silver Nitrate solution 5 %

$AgNO_3$ - Solutions

EINECS 231-853-9
CS 28432100
Index Nr. 047-001-00-2

Liquid

UN1760
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 2
Storage RT

Warning



H315 H319 H411

123328 Silver Nitrate solution 5 % for analysis

Specifications
Assay (titr.) ..... min. 5 %
Chloride ..... max. 0.0005 %
Sulfate ..... max. 0.002 %

Cd ..... max. 0.0001 %
Fe ..... max. 0.0002 %
Mn ..... max. 0.0005 %
Ni ..... max. 0.0005 %

Pb ..... max. 0.001 %
Zn ..... max. 0.0001 %

Code	Packaging
123328.1611	1 L

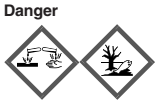
Silver Nitrate 1 mol/l (1N)

$AgNO_3$
M = 169.87 g/mol
CAS 7761-88-8
EINECS 231-853-9
CS 28432100
Index Nr. 047-001-00-2

Density ..... 1.138 kg/l
Liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 3
Storage RT

Danger



H314 H410

182116 Silver Nitrate 1 mol/l (1N) volumetric solution

Indicator: Potassium Chromate

Specifications
Titer 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182116.1610	500 ml
182116.1211	1000 ml

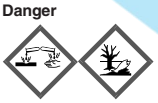
Silver Nitrate 0.5 mol/l (0.5N)

$AgNO_3$
CAS 7761-88-8
EINECS 231-853-9
CS 28432100
Index Nr. 047-001-00-2

Density .....1.068 kg/l
Liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
Storage RT

Danger



H314 H410

185560 Silver Nitrate 0.5 mol/l (0.5N) volumetric solution

Specifications
Titer at 20 °C .....1.000 ± 0.001

Code	Packaging
185560.1611	1000 ml
185560.1612	2.5 l

Silver Nitrate 0.1 mol (16.987 g $AgNO_3$) to prepare 1l of 0.1N solution

$AgNO_3$
M = 169.87 g/mol
CAS 7761-88-8
EINECS 231-853-9
CS 28432100
Index Nr. 047-001-00-2

Liquid
Plastic or glass ampoules containing clear colourless liquid

UN1760
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 2
Storage RT

Danger



H314 H411

303117 Silver Nitrate 0.1 mol (16.987g $AgNO_3$) to prepare 1l of 0.1N solution

Specifications
Titer at 20 °C 0.998-1.002
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
303117.1920	1 bottle

Silver Nitrate 0.1 mol/l (0.1N)

$AgNO_3$
M = 169.87 g/mol
CAS 7761-88-8
EINECS 231-853-9
CS 28432100
Index Nr. 047-001-00-2

Density .....1.012 kg/l
Liquid

WGK 2
Storage RT
H412

181464 Silver Nitrate 0.1 mol/l (0.1N) volumetric solution

Indicator: Potassium Chromate

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181464.1610	500 ml
181464.1211	1000 ml
181464.1212	2.5 l
181464.1315	10 l

Silver Nitrate 0.1 mol/l (0.1N)

$AgNO_3$
M = 169.87 g/mol
CAS 7761-88-8
EINECS 231-853-9
CS 28432100
Index Nr. 047-001-00-2

Density .....1.012 kg/l
Liquid

WGK 2
Storage RT
H412

186983 Silver Nitrate 0.1 mol/l (0.1N) (Reag. USP) volumetric solution

Standardised against Sodium Chloride Indicator: Eosine

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
186983.1211	1000 ml

Silver Nitrate 0.05 mol/l (0.05N)

$AgNO_3$
M = 169.87 g/mol
CAS 7761-88-8
EINECS 231-853-9
CS 28432100
Index Nr. 047-001-00-2

Density .....1.008 kg/l
Liquid

WGK 2
Storage RT
H412

182115 Silver Nitrate 0.05 mol/l (0.05N) volumetric solution

Indicator: Potassium Chromate

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182115.1211	1000 ml

Silver Nitrate 0.02 mol/l (0.02N)

$AgNO_3$
M = 169.87 g/mol
CAS 7761-88-8
EINECS 231-853-9
CS 28432100
Index Nr. 047-001-00-2

Density .....1.004 kg/l
Liquid

WGK 3
Storage RT
H412

181465 Silver Nitrate 0.02 mol/l (0.02N) volumetric solution

Indicator: Potassium Chromate

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181465.1211	1000 ml

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Silver Nitrate 0.01 mol/l (0.01N)

$AgNO_3$
M = 169.87 g/mol
CAS 7761-88-8
EINECS 231-853-9
CS 28432100

Density .....1.000 kg/l
Liquid

WGK 2
Storage RT

182564 Silver Nitrate 0.01 mol/l (0.01N) volumetric solution

Indicator: Potassium Chromate

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
182564.1211	1000 ml
182564.1212	2,5 l

Silver Sulfate

Ag_2SO_4
M = 311.83 g/mol
CAS 10294-26-5
EINECS 233-653-7
CS 28432900

Melting Point ..... 652 °C
Solubility ..... water 8 g/l at 20 °C
Solid

WGK 3
Storage RT

131801 Silver Sulfate for analysis, ACS

Specifications
Minimum assay (Arg.) ..... 99.0 %
Identity ..... passes test
Suitability: for COD determination according to UNE 77-004-89 ..... passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.02 %

Chloride (Cl) .....0.001 %
Non-precipitated substances by HCl (as SO_4) .....0.03 %
Nitrate (NO_3) .....0.001 %
Ca .....0.002 %
Cd .....0.0005 %
Co .....0.0005 %
Cu .....0.0005 %

Fe ..... 0.001 %
K ..... 0.005 %
Mg ..... 0.002 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131801.1606	25 g
131801.1608	100 g
131801.1609	250 g

141801 Silver Sulfate pure

Specifications
Assay (Arg.) ..... 99 %
Chloride (Cl) ..... 0.003 %
Fe ..... 0.005 %
Pb ..... 0.002 %

Code	Packaging
141801.1606	25 g
141801.1608	100 g
141801.1609	250 g

Silver Sulfate solution 80 g/l in sulfuric acid

Ag_2SO_4
M = 311.83 g/mol
CS 38220000

Density .....1.895 kg/l
Solubility .....Miscible with water

UN3264
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H314

284291 Silver Sulfate solution 80 g/l in sulfuric acid for volumetric analysis

for determination of COD according to DIN 38 409-H

Specifications
Suitability: for COD determination .passes test

Maximum limit of impurities

Code	Packaging
284291.1612	2.5 l

Silver Sulfate solution 10 g/l in sulfuric acid

Ag_2SO_4
M = 311.83 g/mol
CS 38220000

Density .....1.84 kg/l
Solubility .....Miscible with water

UN3264
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

283098 Silver Sulfate solution 10 g/l in sulfuric acid for volumetric analysis

for determination of COD according to Norme Française NFT 90-101

Specifications
Assay (as $Ag2SO_4$) .....9.8-10.2 g/l
Suitability: for COD determination passes test

Code	Packaging
283098.1611	1000 ml
283098.1612	2.5 l
283098.2212	2.5 l

Silver Sulfate solution 6.6 g/ in sulfuric acid

Ag_2SO_4
M = 311.83 g/mol
CS 38220000

Density .....1.84 kg/l
Solubility .....Miscible with water

UN3264
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

282922 Silver Sulfate solution 6.6 g/l in sulfuric acid for volumetric analysis

for determination of COD

Specifications
Suitability for COD determination ..... passes test

Code	Packaging
282922.1611	1000 ml
282922.1612	2.5 l

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Silver Sulfate solution 6 % in sulfuric acid

CS 38220000

Liquid

UN1830
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

287093 Silver Sulfate solution 6 % in sulfuric acid f for COD-determination for volumetric analysis

DIN 38409 (H41-2)

Composition:
Silver sulfate (A0633) ..... 60 g/L
Sulfuric acid (A0655) ..... 800 ml/L
Water (A1991) ..... 200 ml/L

Code	Packaging
287093.1612	2.5 L

Sinalbin

Origin from *Sinapis alba*

$C_{30}H_{42}N_2O_{15}S_2$
M = 734.79 g/mol
CAS 20196-67-2
CS 29389090

Solid

Storage -18 °C

A8738 Sinalbin for HPLC

Specifications
Assay (HPLC) .....min. 99.0 %

Code	Packaging
A8738,0020	20 mg

Sinalbin Potassium Salt

Origin from *Sinapis alba*

$C_{14}H_{18}NO_{10}S_2K$
M = 463.52 g/mol
CAS 16411-05-5
CS 29389090

Solid

Storage 2-8 °C

A9569 Sinalbin Potassium Salt for HPLC

Specifications
Assay (HPLC) .....min. 97 %

Code	Packaging
A9569,0020	20 mg
A9569,0050	50 mg

Sinigrin 1-hydrate

Potassium Myronate, Sinigroside, Allyl Glucosinolate

Origin from *Sinapis nigra*

$C_{10}H_{16}KNO_9S_2 \cdot H_2O$
M = 415.48 g/mol
CAS 3952-98-5
CS 29389090

Solid

Storage 2-8 °C

A5315 Sinigrin 1-hydrate for HPLC

Specifications
Assay .....min. 99 %

Code	Packaging
A5315,9025	25 g

A5316 Sinigrin 1-hydrate pure

Specifications
Assay .....min. 97 %

Code	Packaging
A5316,0001	1 g

Sinigroside see Sinigrin 1-hydrate

Sirolimus see Rapamycin

β-Sitosterol

α-Dihydrofucosterol, 22,23-Dihydrostigmasterol

$C_{29}H_{50}O$
M = 414.70 g/mol
CAS 83-46-5
EINECS 201-480-6
CS 29061310

Melting Point ..... 139-142 °C
Solid

Storage 2-8 °C

A4305 β-Sitosterol

Specifications
Assay (G.C.) ..... approx. 75 %
α20 °C/D; 2 %, $CHCl_3$ .....-24 to -32°
Appearance .....white powder
Ash .....approx. 0.1 %
Loss on drying ..... max. 3.5 %

Code	Packaging
A4305,0100	100 g

Size Standard for Gel Electrophoresis Proteins see Protein Marker I (14-116)

Size-exclusion chromatography matrix see AppliXchange-G50 SF

Size-exclusion Chromatography Protein see DextraSEC PRO10

НеваРеактив

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

Skim milk see Nonfat dried milk powder

Slaked lime see Calcium Hydroxide

Soda Lime with indicator

CAS 8006-28-8
CS 38220000

Solubility ..... Insoluble in water
Solid

UN1907
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314

212778 Soda Lime with indicator technical grade

granules

Specifications
Loss on drying at 200 °C ..... 18 %
Absorption capacity of CO_2 ..... ≥ 20 %

Cream colour ..... activated
Blue-violet colour ..... worn out (dispose)

Code	Packaging
212778.1211	1000 g
212778.0914	5 kg

Sodium 1-Butanesulfonate see 1-Butane Sulfonic Acid Sodium Salt

Sodium 1-Heptanesulfonate see 1-Heptane Sulfonic Acid Sodium Salt

Sodium 1-Hexanesulfonate see 1-Hexane Sulfonic Acid Sodium Salt

Sodium 1-naphthyl Phosphate see 1-Naphthyl Phosphate Monosodium Salt 1-hydrate

Sodium 1-Octanesulfonate see 1-Octane Sulfonic Acid Sodium Salt

Sodium 2-Hydroxybenzoate see Sodium Salicylate

Sodium 4-Toluenosulphonechloramide see Chloramine T 3-hydrate

Sodium Acetate anhydrous

Acetic Acid Sodium Salt

CH_3COONa
M = 82.03 g/mol
CAS 127-09-3
EINECS 204-823-8
CS 29152900

Solid

WGK 1
Storage RT

131633 Sodium Acetate anhydrous (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Perchl. Ac.) ..... 99.0 %
pH of 5 % solution 7.5-9.2

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 120 °C ..... 1.0 %
Chloride (Cl) ..... 0.002 %

Ammonium (NH_4) ..... 0.001 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.003 %
Heavy metals (as Pb) ..... 0.001 %
Al ..... 0.001 %
As ..... 0.0001 %
Ca ..... 0.001 %
Cd ..... 0.0005 %

Co ..... 0.0005 %
Cu ..... 0.0003 %
Fe ..... 0.0005 %
K ..... 0.02 %
Mg ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131633.1210	500 g
131633.1211	1000 g
131633.0914	5 kg
131633.0416	25 kg

141633 Sodium Acetate anhydrous (USP) pure, pharma grade

Specifications
Assay (Perchl. Ac.) calc.
a.d.s. ..... 99.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 3 % solution 7.5-9.2

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.05 %
Loss on drying at 120 °C ..... 1.0 %
Chloride (Cl) ..... 0.005 %

Ammonium (NH_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %
Residual solvents (Ph. Eur./USP) . passes test
Calcium and magnesium
(as Ca) ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm

Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
Al ..... 0.00002 %
As ..... 0.00005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
K ..... passes test

Code	Packaging
141633.1210	500 g
141633.1211	1000 g

A4555 Sodium Acetate anhydrous for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99 %
pH (5 %; H_2O) ..... 7.5-9.5 (20 °C)
Chloride ..... max. 0.001 %

Phosphate ..... max. 0.0005 %
Sulfate ..... max. 0.005 %
Al ..... max. 0.001 %
Ca ..... max. 0.001 %
Cu ..... max. 0.0003 %

Fe ..... max. 0.0005 %
Mg ..... max. 0.0005 %
Pb ..... max. 0.0001 %

Code	Packaging
A4555,0250	250 g
A4555,1000	1 kg

Sodium Acetate 3-hydrate

Acetic Acid Sodium Salt

$CH_3COONa \cdot 3H_2O$
M = 136.08 g/mol
CAS 6131-90-4
EINECS 204-823-8
CS 29152900

Melting Point ..... 58 °C
Boiling Point ..... 123 °C
Solubility ..... 1250 g/L (H_2O)
Solid

WGK nwg
Storage RT

131632 Sodium Acetate 3-hydrate for analysis, ACS, ISO

Specifications
Assay (Perchl. Ac.) ..... 99.0-101.0 %
Identity ..... passes test
pH of 5 % solution 7.5-9.0

Maximum limit of impurities
Insoluble matter ..... 0.005 %
Reducing substances
to $KMnO_4$ (en HCOOH) ..... 0.005 %
Chloride (Cl) ..... 0.0005 %

Nitrogen compounds (as N) ..... 0.001 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.002 %
As ..... 0.00005 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 3
Al 5
B 3
Ba 3
Be 3
Ca 10
Cd 5
Co 5
Cu 3
Fe 3
Ge 3
Hg 3
In 3
K 50
Li 3
Mg 5
Mn 3
Mo 3
Ni 5
Pb 5
Si 3
Sr 3
Ti 3
V 3
Zn 3
Zr 3

Code	Packaging
131632.1210	500 g
131632.1211	1000 g
131632.1214	5 kg
131632.0416	25 kg

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

НеваРеактив

631632 Sodium Acetate 3-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade

Specifications
Assay (Perchl. Ac.)
(calc. a.a.s) ..... 99.0-101.0 %
Identity according to Pharmacopoeias:
Acetate ..... passes test
Sodium ..... passes test
pH of 5 % solution 7.5-9.0

Maximum limit of impurities
Appearance of solution
Appearance Clear < formazin I ..... passes test
Appearance Colourless ..... passes test
Reducing substances ..... passes test
Loss on drying at 130 °C .....39.0-40.5 %
Chloride (Cl) ..... 0.0200 %
Sulfate (SO_4) ..... 0.003 %
Residual solvents (Ph. Eur./USP) . passes test
Calcium and magnesium ..... passes test
Calcium and magnesium (as Ca) ..... 0.005 %
Insoluble matter ..... 0.05 %
Heavy metals (as Pb) ..... 0.0010 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0002 %
Fe ..... 0.0010 %
K ..... passes test

Code	Packaging
631632.0416	25 kg

141632 Sodium Acetate 3-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Perchl. Ac.)
(calc. a.a.s) ..... 99.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 7.5-9.0

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.005 %
Reducing substances ..... passes test
Loss on drying at 130 °C ..... 39.0-40.5 %
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.005 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.003 %
Residual solvents (Ph. Eur./USP) . passes test
Calcium and magnesium (as Ca) ..... 0.005 %
Heavy metals (as Pb) ..... 0.0006 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
Al ..... 0.00002 %
As ..... 0.00005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
K ..... passes test

Code	Packaging
141632.1210	500 g
141632.1211	1000 g
141632.1214	5 kg
141632.0416	25 kg

211632 Sodium Acetate 3-hydrate technical grade

Specifications
Assay (Perchl. Ac.) ..... 99 %
pH of 5 % solution 7.5-9.2
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %

Code	Packaging
211632.0416	25 kg

A1045 Sodium Acetate 3-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99.5 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 25 °C) 7.5-9.0
Chloride ..... max. 0.0005 %
Phosphate ..... max. 0.0002 %
Sulfate ..... max. 0.002 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.01
280 nm ..... max. 0.01

Code	Packaging
A1045,1000	1 kg
A1045,9025	25 kg

Sodium Acetate solution 3 mol/l (3 M, pH 5.2)

Acetic Acid Sodium Salt - Solution

CS 29152900
Liquid
WGK 1
Storage RT

Warning



H315 H319

A3947 Sodium Acetate solution 3 mol/l (3 M, pH 5,2) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
pH (20 °C) .....5.2 ± 0.1

Composition:
Sodium Acetate ..... 408.24 g/L

Code	Packaging
A3947,0100	100 ml
A3947,0250	250 ml

A3802 Sodium Acetate solution 3 mol/l (3 M, pH 5.2)

Specifications
pH (20 °C) .....5.2 ± 0.1

Composition:
Sodium Acetate ..... 408.24 g/L

Code	Packaging
A3802,0500	500 ml

Sodium Alginate see Alginic Acid Sodium Salt

Sodium Alizarinsulfonate see Alizarin Red S (C.I. 58005)

Sodium Ammonium Hydrogen Phosphate see Ammonium Sodium Hydrogen Phosphate 4-hydrate

Sodium and Cobalt(III) Nitrite see Sodium Hexanitrocobaltate(III)

Sodium and Potassium Tartrate see Potassium Sodium Tartrate 4-hydrate

Sodium Azide

NaN_3
M = 65.01 g/mol
CAS 26628-22-8
EINECS 247-852-1
CS 28500060
Index Nr. 011-004-00-7
Solid
UN1687
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage RT

Danger



EUH032 H300 H410

122712 Sodium Azide (Reag. USP, Ph. Eur.) for analysis

Specifications
Minimum assay (Cerim.) .....99.0 %

Maximum limit of impurities
Alkalinity .....0.1 %
Insoluble matter in H_2O ..... 0.3 %
Loss on drying ..... 0.1 %
Chloride (NaCl) ..... 0.05 %

Code	Packaging
122712.1608	100 g
122712.1609	250 g
122712.1611	1000 g

НеваРеактив

162712 Sodium Azide, 99 % for synthesis

Specifications
Minimum assay (Perchl. Ac.) ..... 99 %

Code	Packaging
162712.1608	100 g
162712.1611	1000 g
162712.1214	5 kg

A1430 Sodium Azide pure

Specifications
Assay (titr.) .....min. 99 %
H_2O-insoluble matter ..... max. 0.05 %
Heavy metals (as Pb) ..... max. 0.001 %
Loss on drying ..... max. 0.25 %
Solubility (H_2O; 17 °C) .....420 g/L

Code	Packaging
A1430,0010	10 g
A1430,0050	50 g
A1430,0100	100 g
A1430,0500	500 g

Sodium Benzoate

Benzenecarboxylic Acid Sodium Salt, Benzoic AcidSodium Salt, Phenylformic Acid Sodium Salt

C_6H_5COONa
M = 144.10 g/mol
CAS 532-32-1
EINECS 208-534-8
CS 29163100

Melting Point ..... 436 °C 1,013 hPa
..... (OECD 102)
Boiling Point ..... 465 °C
Solubility ..... water 556 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H319

141637 Sodium Benzoate (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Perchl. Ac.) calc.
a.d.s. ..... 99.0-100.5 %
Assay (HPLC.) calc. a.d.s. ..... 99.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... passes test
Loss on drying at 105 °C ..... 1.5 %
Residual solvents (Ph. Eur./USP) . passes test
Halogenated compounds:
Ionized Chlorine (Cl) ..... 0.02 %
Total Chlorine (Cl) ..... 0.03 %
Water (H_2O) ..... 1.5 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0003 %

Code	Packaging
141637.1211	1000 g
141637.0914	5 kg
141637.0416	25 kg

Sodium Bicarbonate see Sodium Hydrogen Carbonate

Sodium Bioxide see Sodium Peroxide granulated

Sodium Bisulfite see Sodium Hydrogen Sulfite solution 40 % w/v

Sodium Boranate see Sodium Borohydride

Sodium Borate see di-Sodium tetra-Borate 10-hydrate

Sodium Borohydride

Sodium Tetrahydroborane

NaH_4B
M = 37.83 g/mol
CAS 16940-66-2
EINECS 241-004-4
CS 28500020

Melting Point ..... 36 °C
Boiling Point ..... ~ 500 °C
Solubility ..... water 550 g/l at 25 °C
Solid

UN1426
Class/PG 4.3/I
ADR 4.3/I · IMDG 4.3/I · IATA 4.3/I
WGK 2
Storage RT

Danger



H261 H301 H314

123314 Sodium Borohydride for analysis

Specifications
Minimum assay (Iodom.) ..... 96.0 %

Maximum limit of impurities
Chloride (Cl) ..... 0.5 %
Sulfate (SO_4) ..... 0.01 %

Metals by ICP [in mg/Kg (ppm)]

As	0.5	Bi	5	Mn	10
Ca	200	Cd	10	Ni	10
Co	10	Cr	10	Pb	10
Cu	10	Fe	10	Sb	0.5
Hg	0.5	K	200	Se	0.5
				Zn	10

Code	Packaging
123314.1606	25 g
123314.1608	100 g

163314 Sodium Borohydride, 96 % for synthesis

Specifications
Minimum assay (Iodom.) ..... 96 %

Code	Packaging
163314.1608	100 g

Sodium Bromide

NaBr
M = 102.90 g/mol
CAS 7647-15-6
EINECS 231-599-9
CS 28275100

Melting Point ..... 755 °C
Boiling Point ..... 1,390 °C
Solubility ..... water 1,160 g/l at 50 °C
Solubility .....soluble in ethanol 96 %
Solid

WGK 1
Storage RT

121646 Sodium Bromide for analysis

Specifications
Minimum assay (Arg.) ..... 99 %
pH of 5 % solution 5.0-8.8

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.2 %
Nitrogen compounds (as N) ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %
Iodide (I) ..... 0.005 %
Bromate (BrO_3) ..... passes test
As ..... 0.0002 %
Ba ..... 0.005 %
Ca ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
K ..... 0.2 %
Mg ..... 0.005 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
121646.1211	1000 g

141646 Sodium Bromide (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Arg.) calc. a.d.s. ..... 98.5-100.5 %
Identity according to Pharmacopoeias: ..... passes test
pH of 5 % solution 5.0-8.8

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Loss on drying at 105 °C .....3.0 %
Chloride (Cl) .....0.3 %
Nitrogen compounds (as N) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Iodide (I) ..... passes test
Residual solvents (Ph. Eur.) ..... passes test
Bromate (BrO_3) ..... passes test
Magnesium and alkaline-earth metals (as Ca) ..... 0.02 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1,300 ppm
As .....0.0002 %
Ba .....passes test
Ca .....0.005 %
Fe .....0.001 %
Mg .....0.005 %

Code	Packaging
141646.1210	500 g
141646.1211	1000 g
141646.1214	5 kg

Sodium Carbonate anhydrous

Na_2CO_3
M = 105.99 g/mol
CAS 497-19-8
EINECS 207-838-8
CS 28362000
Index Nr. 011-005-00-2

Melting Point ..... 854 °C
Solubility ..... 220 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H319

131648 Sodium Carbonate anhydrous (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Acidim.) after drying at 285 °C .....99.5 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Reducing substances of I2 ..... 0.005 %
Loss on drying at 285 °C .....1.0 %
Chloride (Cl) .....0.001 %
Nitrogen compounds (as N) .....0.001 %
Sulfur compounds (as SO_4) .....0.003 %
Phosphate (PO_4) .....0.001 %
Silicate (as SiO_2) .....0.005 %
Heavy metals (as Pb) .....0.0005 %
Al .....0.001 %
As .....0.0001 %
Ca .....0.005 %
Cu .....0.0005 %
Fe .....0.0005 %
K .....0.005 %
Mg .....0.002 %
Ni .....0.0005 %
Pb .....0.0005 %

Code	Packaging
131648.1210	500 g
131648.1211	1000 g
131648.0914	5 kg
131648.0416	25 kg

141648 Sodium Carbonate anhydrous (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 99.5-100.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Loss on drying at 300 °C .....0.5 %
Chloride (Cl) .....0.01 %
Nitrogen compounds (as N) ..... 0.005 %
Phosphate (PO_4) .....0.005 %
Sulfate (SO_4) .....0.025 %
Residual solvents (Ph. Eur./USP) . passes test
Alkaline hydroxides and hydrogen carbonates ..... passes test
Heavy metals (as Pb) .....0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1,300 ppm
As .....0.0003 %
Ca .....0.01 %
Fe .....0.001 %
K .....0.05 %
Mg .....0.01 %
Pb .....0.001 %

Code	Packaging
141648.1210	500 g
141648.1211	1000 g
141648.0914	5 kg
141648.0416	25 kg

201648 Sodium Carbonate anhydrous (E-500i, F.C.C.) food grade

Specifications
Assay (as $Na2CO_3$) after drying ..... 99.5-100.5 %
Loss on drying, not more than .....1 %
Arsenic, not more than ..... 3 ppm
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201648.0914	5 kg

A3900 Sodium Carbonate anhydrous BioChemica

Specifications
Assay (titr.) .....min. 99.5 %
Heavy metals (as Pb) .....max. 0.001 %
Insoluble matter ..... passes test
Water ..... max. 1 %
Chloride ..... max. 0.002 %
Phosphate ..... max. 0.001 %
Sulfate ..... max. 0.005 %
A (1 cm/1 M in H_2O)
260 nm .....max. 0.03
280 nm .....max. 0.02

Code	Packaging
A3900,0500	500 g
A3900,1000	1 kg

Sodium Carbonate 12-hydrate

$Na_2CO_3 \cdot 10H_2O$
M = 286.14 g/mol
CAS 6132-02-1
EINECS 207-838-8
CS 28362000
Index Nr. 011-005-00-2

Melting Point ..... 34 °C
Solubility ..... water 210 g/l at 20 °C
Solid

WGK 1
Storage Not recommended in areas with a very hot climate

Warning



H319

131647 Sodium Carbonate 10-hydrate for analysis, ISO

Specifications
Assay (Acidim.) ..... 99.0-102.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Reducing substances of I2 ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.0005 %
Sulfur compounds (as SO_4) .....0.003 %
Phosphate (PO_4) .....0.001 %
Silicate (as SiO_2) .....0.003 %
Precipitated by NH_4OH ..... 0.01 %
Heavy metals (as Pb) .....0.0005 %
Al .....0.0005 %
As .....0.0001 %
Ca .....0.003 %
Cu .....0.0005 %
Fe .....0.0003 %
K .....0.005 %
Mg .....0.0003 %
Ni .....0.0005 %
Pb .....0.0005 %

Code	Packaging
131647.1211	1000 g

141647 Sodium Carbonate 10-hydrate pure

Specifications
Assay (Acidim.) ..... 98-102 %
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.002 %
Sulfur compounds (as SO_4) .....0.01 %
Phosphate (PO_4) .....0.002 %
Heavy metals (as Pb) .....0.002 %
As .....0.0001 %
Ca .....0.01 %
Cu .....0.001 %
Fe .....0.001 %
K .....0.05 %
Mg .....0.01 %
Ni .....0.001 %
Pb .....0.001 %

Code	Packaging
141647.1211	1000 g
141647.0416	25 kg

201647 Sodium Carbonate 10-hydrate (E-500i, F.C.C.) food grade

Specifications
Assay (as $Na2CO_3$) after drying ..... 99.5-100.5 %
Loss on drying ..... 55.0-65.0 %
Arsenic, not more than ..... 3 ppm
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201647.0416	25 kg

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НеваРеактив

Sodium Carbonate solution 20 %

CS 28362000

Liquid

WGK 1
Storage RT

Warning



H319

127081 Sodium Carbonate solution 20 % for analysis

Composition:
Sodium carbonate (A1881) .....200 g/L

Code	Packaging
127081.0716	25 L

Sodium Carbonate 0.5 mol/l (1N)

Na_2CO_3
M = 105.99 g/mol
CAS 497-19-8
EINECS 207-838-8
CS 28362000

Density .....1.048 kg/l
Liquid

WGK 1
Storage RT

181649 Sodium Carbonate 0.5 mol/l (1N) volumetric solution

Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
181649.1211	1000 ml
181649.1214	5 l

Sodium Chloride

NaCl
M = 58.44 g/mol
CAS 7647-14-5
EINECS 231-598-3
CS 25010099

Melting Point ..... 801 °C
Boiling Point ..... 1461 °C
Solubility ..... 358 g/L (H_2O)
Solid

WGK nwg
Storage RT

381659 Sodium Chloride 99.9 %

Specifications
Assay (titr.) .....min. 99.9 %
pH (5 %; H_2O) .....5.0-8.0 (20 °C)
Bromide ..... max. 0.005 %
Iodide ..... max. 0.001 %
Phosphate ..... max. 0.001 %
Sulfate ..... max. 0.001 %

Ba .....max. 0.001 %
Ca .....max. 0.002 %
Fe .....max. 0.001 %
K .....max. 0.005 %
Mg .....max. 0.001 %
Pb .....max. 0.0005 %

Code	Packaging
381659.1211	1 kg
381659.1214	5 kg
381659.0415	10 kg
381659.0416	25 kg

131659 Sodium Chloride for analysis, ACS, ISO

Specifications
Minimum assay (Arg.) ..... 99.5 %
pH of 5 % solution 5.0-8.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 105 °C ..... 0.2 %
Nitrogen compounds (as N) ..... 0.001 %
Bromide (Br) ..... 0.005 %

Phosphate (PO_4) .....0.0005 %
Sulfate (SO_4) .....0.001 %
Iodide (I) .....0.001 %
Chlorate and nitrate (as NO_3) .....0.003 %
Hexacyanoferrate(II) and (III)
[Fe(CN)6] .....0.0001 %
Heavy metals (as Pb) .....0.0005 %
As .....0.00004 %
Ba .....0.0005 %

Ca ..... 0.002 %
Cu ..... 0.0002 %
Fe ..... 0.0001 %
K ..... 0.005 %
Mg ..... 0.001 %
Ni ..... 0.0005 %
Pb ..... 0.0002 %

Code	Packaging
131659.1210	500 g
131659.1211	1000 g
131659.1214	5 kg
131659.0416	25 kg

121659 Sodium Chloride for analysis

Specifications
Minimum assay (Arg.) ..... 99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Loss on drying at 105 °C ..... 0.2 %
Nitrogen compounds (as N) ..... 0.002 %
Bromide (Br) ..... 0.01 %

Phosphate (PO_4) .....0.001 %
Sulfate (SO_4) .....0.02 %
Chlorate and nitrate (as NO_3) .....0.005 %
Hexacyanoferrate(II) .....passes test
Heavy metals (as Pb) .....0.001 %
As .....0.0001 %
Ca .....0.005 %
Cu .....0.0005 %

Fe ..... 0.0002 %
K ..... 0.01 %
Mg ..... 0.002 %
Ni ..... 0.0005 %
Pb ..... 0.0002 %

Code	Packaging
121659.1210	500 g
121659.1211	1000 g
121659.1214	5 kg
121659.0415	10 Kg
121659.0416	25 kg

141659 Sodium Chloride (USP, BP, Ph. Eur., JP) pure, pharma grade

Specifications
Assay (Arg.) calc. a.d.s. .....99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Loss on drying at 105 °C ..... 0.5 %
Nitrogen compounds (as N) ..... 0.005 %
Bromide (Br) ..... 0.005 %
Phosphate (PO_4) ..... 0.001 %

Sulfate (SO_4) .....0.02 %
Iodide .....passes test
Residual solvents (Ph. Eur./USP) .passes test
Calcium, Magnesium and
alkaline-earth metals (as Ca) .....0.005 %
Chlorate and nitrate (as NO_3) .....0.01 %
Hexacyanoferrate(II) .....passes test
Nitrite (NO_2) .....passes test
Heavy metals (as Pb) .....0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
Al ..... 0.00002 %
As ..... 0.0001 %
Ba ..... passes test
Fe ..... 0.0002 %
K ..... 0.05 %

Code	Packaging
141659.1210	500 g
141659.1211	1000 g
141659.1214	5 kg
141659.0415	10 Kg
141659.0416	25 kg

201659 Sodium Chloride (F.C.C.) food grade

Specifications
Assay (as NaCl) after drying .....99.0-100.5 %
Identity
Chloride ..... passes test
Sodium ..... passes test

Appearance .....passes test
Loss on drying, not more than .....0.5 %
Calcium and Magnesium,
not more than .....0.35 %
Arsenic (As), not more than ..... 1 ppm

Heavy metals (as Pb), not more than ....2 ppm
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201659.0416	25 kg

211659 Sodium Chloride technical grade

Specifications
Assay (Arg.) ..... 99.0 %
Insoluble matter in H_2O ..... 0.05 %

As .....0.0001 %
Fe .....0.005 %

Code	Packaging
211659.1214	5 kg
211659.0416	25 kg

171659 Sodium Chloride ASTM B117-11

for saline spray (fog)

Specifications
Minimum assay (Arg.) .....99.8 %

Maximum limit of impurities
Anti-caking Agents .....0.0 %
Halides (Bromide, Fluoride, Iodide) .....0.1 %
Total impurities .....0.2 %
Cu .....0.00003 %
Ni .....0.001 %
According to ASTM B117-11, equivalent to ISO 9227:2012

Code	Packaging
171659.1211	1000 g
171659.0415	10 kg
171659.0416	25 kg

A2942 Sodium Chloride for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
Assay (titr.) .....min. 99.5 %
pH (5 %; H_2O; 20 °C) 5.0-8.0
Bromide .....max. 0.005 %
Iodide .....max. 0.001 %
Phosphate .....max. 0.001 %
Sulfate .....max. 0.001 %
Ba .....max. 0.001 %
Ca .....max. 0.002 %
Fe .....max. 0.0001 %
K .....max. 0.005 %
Mg .....max. 0.001 %
Pb .....max. 0.0005 %

Code	Packaging
A2942,0500	500 g
A2942,1000	1 kg
A2942,5000	5 kg

A4256 Sodium Chloride for cell culture

Specifications
Pyrogen test .....passes test
Assay (titr.) .....min. 99.5 %
pH (5 %; H_2O) .....5.0-8.0 (20 °C)
Bromide .....max. 0.005 %
Iodide .....max. 0.001 %
Phosphate .....max. 0.001 %
Sulfate .....max. 0.001 %
As .....max. 0.0001 %
Fe .....max. 0.0001 %
Pb .....max. 0.0005 %

Code	Packaging
A4256,1000	1 kg
A4256,5000	5 kg

A1149 Sodium Chloride BioChemica

Specifications
Assay (titr.) .....min. 99.5 %
Heavy metals (as Pb) .....max. 0.001 %
Insoluble matter .....passes test
pH (5 %; H_2O; 20 °C) 5.0-8.0
Bromide .....max. 0.005 %
Iodide .....max. 0.001 %
Phosphate .....max. 0.001 %
Sulfate .....max. 0.001 %
A (1 cm/1 M in water)
260 nm .....max. 0.01
280 nm .....max. 0.01

Code	Packaging
A1149,1000	1 kg
A1149,5000	5 kg
A1149,9010	10 kg
A1149,9025	25 kg

Sodium Chloride coarse salt

NaCl
M = 58.44 g/mol
CAS 7647-14-5
EINECS 231-598-3
CS 25010010

Melting Point .....804 °C
Boiling Point .....1,413 °C
Solubility .....water 360 g/l at 20 °C
Solid

WGK nwg
Storage RT

211939 Sodium Chloride coarse salt technical grade

for freezer mixtures

Specifications
Assay (Arg.) .....98 %

Code	Packaging
211939.1214	5 kg
211939.0416	25 kg

Sodium Chloride with anticaking

NaCl
M = 58.44 g/mol
CAS 7647-14-5
EINECS 231-598-3
CS 25010099

Melting Point .....801 °C
Boiling Point .....1461 °C
Solubility .....358 g/L (H_2O)
Solid

WGK nwg
Storage RT

146994 Sodium Chloride pure, free-flowing

Specifications
Assay (titr.) .....min. 99 %
Insoluble matter .....max. 0.005 %
Sodium nitrite .....max. 0.5 %

Code	Packaging
146994.1214	5 kg
146994.0415	10 kg
146994.0416	25 kg

206994 Sodium Chloride with anticaking (F.C.C.) food grade

Specifications
Assay (as NaCl) after drying at 625 °C .....99.0-100.5 %
Identity
Chloride .....passes test
Sodium .....passes test
Appearance .....passes test
Loss on drying, not more than .....0.5 %
Ferrocyanide (as $Na_4Fe(CN)_6$), not more than .....0.0013 %
Calcium and Magnesium, not more than .....0.35 %
Arsenic (as As), not more than .....1 ppm
Heavy metals (as Pb), not more than ....2 ppm
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
206994.0416	25 kg

Sodium Chloride solution ASTM B117-11

NaCl
M = 58.44 g/mol
CAS 7647-14-5
EINECS 231-598-3
CS 25010010

Density .....1.035 kg/l
Liquid

WGK nwg
Storage RT

175305 Sodium Chloride solution ASTM B117-11

for saline spray (fog)

Specifications
Assay (Arg.) .....4-6 %
pH at 23+-3 / 35 °C 6.5-7.2

Maximum limit of impurities
Anti-caking Agents .....0.0 %
Halides (Bromide, Fluoride, Iodide) .....0.1 %
Total impurities .....0.3 %
Cu .....0.00003 %
Ni .....0.001 %
This product has been manufactured with Sodium Chloride and Water Type IV which passes the ASTM B117-11 and ASTM D1193-06 specifications, respectively.

Code	Packaging
175305.0716	25 l
175305.9774	1000 l

НеваРеактив

Sodium Chloride solution 0.9 %, sterile

EINECS 231-598-3
CS 38220000

Liquid

WGK nwg
Storage RT

A1671 Sodium Chloride solution 0.9 %, sterile

Specifications
pH (20 °C) 5.0-7.5

Code	Packaging
A1671,0100	100 ml
A1671,0250	250 ml
A1671,0500	500 ml
A1671,1000	1 L

Sodium Chloride 5 mol/l (5 M)

EINECS 231-598-3
CS 25010099

Liquid

WGK nwg
Storage RT

A7006 Sodium Chloride 5 mol/l (5 M) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable

Composition:
NaCl ..... 292.2 g/L

Code	Packaging
A7006,1000	1 L

Sodium Chlorite solution 25 % w/w

$NaClO_2$
M = 90.44 g/mol
CAS 7758-19-2
EINECS 231-836-6
CS 28289000

Density ..... 1.21 kg/l
Solubility ..... Miscible with water
Liquid

UN1908
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H332 H312 H302 EUH032

161977 Sodium Chlorite solution 25 % w/w for synthesis

Specifications
Minimum assay (Iodom.) ..... 24 %*
* At the moment of the batch analysis.

Code	Packaging
161977.1211	1000 ml

Sodium Cholate

Cholic Acid Sodium Salt

$C_{24}H_{39}NaO_5$
M = 430.57 g/mol
CAS 361-09-1
EINECS 206-643-5
CS 29181930

Solid

Storage RT

A0979 Sodium Cholate BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
α20 °C/D; 0.6 %, EtOH ..... 35-37°
pH (0.1 M; H_2O; 20 °C) 7.0-9.0
Water (K.F.) ..... max. 5 %

Code	Packaging
A0979,0100	100 g

Sodium Chromate

Na_2CrO_4
M = 161.97 g/mol
CAS 7775-11-3
EINECS 231-889-5
CS 28415000
Index Nr. 024-018-00-3

Melting Point ..... 792 °C
Solubility ..... water 873 g/l at 30 °C
Solid

UN3288
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H350 H340 H360FD H312 H301 H330 H314 H334 H317 H372 H400 H410

121664 Sodium Chromate for analysis

Specifications
Minimum assay (Iodom.) ..... 99.0 %
pH of 5 % solution 8.6-9.8

Maximum limit of impurities
Alkalinity ..... 0.04 %
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.05 %
Al ..... 0.003 %
Ca ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.002 %
K ..... 0.02 %
Pb ..... 0.005 %

Code	Packaging
121664.1210	500 g

tri-Sodium Citrate 2-hydrate

Sodium Citrate, Sodium Citrate tri-Basic, Citric Acid Trisodium Salt Dihydrate, 2-Hydroxy-1,2,3-Propanetricarboxylic Acid Sodium Salt

$C_6H_5Na_3O_7 \cdot 2H_2O$
M = 294.10 g/mol
CAS 6132-04-3
EINECS 200-675-3
CS 29181500

Melting Point ..... 150 °C
Solubility ..... 425 g/L (H_2O)
Solid

WGK nwg
Storage RT

131655 tri-Sodium Citrate 2-hydrate for analysis, ACS

Specifications
Minimum assay (Perchl. Ac.) ..... 99.0 %
Identity ..... passes test
pH of 5 % solution 7.5-9.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Darkening substances b
y H_2SO_4 ..... passes test
Reducing substances ..... passes test
Chloride (Cl) ..... 0.003 %
Ammonium (NH_4) ..... 0.001 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %
Oxalate (C_2O_4) ..... 0.01 %
Water ..... 11.0-13.0 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00004 %
Ca ..... 0.005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.01 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
131655.1210	500 g
131655.1211	1000 g
131655.1214	5 kg
131655.0416	25 kg

НеВаРеактив

631655 tri-Sodium Citrate 2-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade

Specifications
Assay (Perchl. Ac.)
(Ph. Eur.) (calc. a.a.s) ..... 99.0-101.0 %
Assay (Perchl. Ac.) (USP)
(a.a.s.) ..... 99.0-100.5 %
Identity according to Pharmacopoeias:
Sodium ..... passes test
Citrate ..... passes test
B USP ..... passes test

Maximum limit of impurities
Appearance of solution
Appearance Clear < formazin I ..... passes test
Appearance Colourless ..... passes test
Acidity or alkalinity (< 0.2 ml HCl or NaOH
0.1M) ..... passes test
Alkalinity USP ..... passes test
Loss on drying at 180 °C ..... 10.0-13.0 %
Chloride (Cl) ..... 0.0050 %
Sulfate (SO_4) ..... 0.0150 %
Residual solvents (Ph. Eur./USP) .passes test
Easily darkened substances ..... < Y2 o GY2
Oxalate (C_2O_4) ..... 0.0300 %
Tartrate ..... passes test
Water (KF) ..... 11.0-13.0 %
Heavy metals (as Pb) ..... 0.0010 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
631655.0416	25 kg

141655 tri-Sodium Citrate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Perchl. Ac.)
(calc. a.a.s) ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 7.5-9.0

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Darkened substances by H_2SO_4 ... passes test
Chloride (Cl) ..... 0.005 %
Ammonium (NH_4) ..... 0.002 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.015 %
Residual solvents (Ph. Eur./USP) . passes test
Oxalate (C_2O_4) ..... 0.03 %
Tartrate ..... passes test
Water (H_2O) ..... 11.0-13.0 %
Heavy metals (as Pb) ..... 0.001 %
Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0001 %
K ..... 0.1 %
Pb ..... 0.001 %

Code	Packaging
141655.1210	500 g
141655.1211	1000 g
141655.1214	5 kg
141655.0416	25 kg

201655 tri-Sodium Citrate 2-hydrate (E-331iii, F.C.C) food grade

Specifications
Assay (as $C_6H_5Na_3O_7$) calc.
after drying ..... 99.0-100.5 %
Identity
Citrate ..... passes test
Sodium ..... passes test
pH 5 % 7.5-9.0
Appearance ..... passes test
Alkalinity ..... passes test
Loss on drying ..... 10.0-13.0 %
Oxalate (as oxalic acid) a.a.s.,
not more than ..... 0.01 %
Arsenic (as As), not more than ..... 1 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 1 ppm
Water ..... 10.0-13.0 %
Heavy metals (as Pb),
not more than ..... 5 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201655.0416	25 kg

A4522 *tri*-Sodium Citrate 2-hydrate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.5 %
pH (5 %; H_2O) ..... 7.5-9.0 (20 °C)
Chloride ..... max. 0.001 %
Phosphate ..... max. 0.002 %
Sulfate ..... max. 0.005 %
As ..... max. 0.00001 %
Ca ..... max. 0.001 %
Cd ..... max. 0.0005 %
Cr ..... max. 0.0005 %
Cu ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Mn ..... max. 0.0005 %
Ni ..... max. 0.0005 %
Pb ..... max. 0.0005 %
Zn ..... max. 0.0005 %

Code	Packaging
A4522,0500	500 g
A4522,1000	1 kg

A3901 *tri*-Sodium Citrate 2-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O) ..... 7.5-9.0 (20 °C)
Chloride ..... max. 0.001 %
Phosphate ..... max. 0.002 %
Sulfate ..... max. 0.005 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.02
280 nm ..... max. 0.02

Code	Packaging
A3901,1000	1 kg
A3901,9025	25 kg

A1351 *tri*-Sodium Citrate 2-hydrate for buffer solutions

Specifications
Assay (titr.) ..... min. 99 %
Loss on drying ..... 11.0-13.0 %
pH (5 %; H_2O; 20 °C) 7.5-9.0
Chloride ..... max. 0.005 %
Phosphate ..... max. 0.002 %
Sulfate ..... max. 0.005 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %
Zn ..... max. 0.001 %

Code	Packaging
A1351,5000	5 kg
A1351,9010	10 kg

tri-Sodium Citrate 5,5-hydrate

2-Hydroxy-1,2,3-Propanetricarboxylic Acid SodiumSalt, Citric Acid Trisodium Salt, Sodium Citrate

$Na_3C_6H_5O_7 \cdot 5,5H_2O$
M = 357.15 g/mol
CAS 6858-44-2
EINECS 200-675-3
CS 29181500
Melting Point ..... 150 °C (anh)
Solubility ..... water 920 g/l at 25 °C
Solid
WGK 1
Storage RT

121656 tri-Sodium Citrate 5.5-hydrate for analysis

Specifications
Minimum assay (Perchl. Ac.) ..... 99.0 %
pH of 5 % solution 8.0-9.3

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Darkened substances
by H_2SO_4 ..... passes test
Reducing substances ..... passes test
Chloride (Cl) ..... 0.001 %
Ammonium (NH_4) ..... 0.001 %
Phosphate (PO_4) ..... 0.003 %
Sulfate (SO_4) ..... 0.005 %
Oxalate (C_2O_4) ..... 0.01 %
As ..... 0.00004 %
Ca ..... 0.005 %
Cu ..... 0.00005 %
Fe ..... 0.0002 %
K ..... 0.01 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
121656.1211	1000 g

141656 tri-Sodium Citrate 5.5-hydrate pure

Specifications
Assay (Perchl. Ac.) ..... 98 %
pH of 5 % solution 8.0-9.3
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.005 %
Ammonium (NH_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.015 %
As ..... 0.0001 %
Cu ..... 0.0005 %
Fe ..... 0.001 %
K ..... 0.1 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141656.1211	1000 g

Sodium Citrate tri-Basic see tri-Sodium Citrate 2-hydrate

Sodium Cobaltinitrite see Sodium Hexanitrocobaltate(III)

Sodium Cyanide

NaCN
M = 49.01 g/mol
CAS 143-33-9
EINECS 205-599-4
CS 28371100
Index Nr. 006-007-00-5

Melting Point ..... 563 °C
Boiling Point ..... 1,496 °C
Solubility ..... water 480 g/l at 10 °C
Solid

UN1689
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 3
Storage RT

Danger



H330 H310 H300 EUH032 H410

141652 Sodium Cyanide pure

Specifications
Assay (Arg.) ..... 98 %
Insoluble matter in H_2O ..... 0.02 %
Chloride (Cl) ..... 0.025 %
Sulfate (SO_4) ..... 0.1 %
Sulfide (S) ..... 0.005 %
Total Iron (as Fe) ..... 0.03 %
Thiocyanate (SCN) ..... 0.05 %
Cu ..... 0.002 %
K ..... 0.2 %
Pb ..... 0.001 %
Zn ..... 0.02 %

Code	Packaging
141652.1209	250 g
141652.1214	5 kg

Sodium Deoxycholate

Deoxycholic Acid Sodium Salt

$C_{24}H_{39}NaO_4$
M = 414.57 g/mol
CAS 302-95-4
EINECS 206-132-7
CS 29181930

WGK 1
Storage RT

Warning



H302

A1531 Sodium Deoxycholate BioChemica

Specifications
Assay (HPLC) ..... min. 98.5 %
α20 °C/D; 2 %, H_2O ..... +44° ± 2°
Heavy metals ..... max. 0.002 %
pH (2 %; H_2O; 20 °C) 7.5-9.5
Sodium cholate ..... max. 2.0 %
Loss on drying ..... max. 5.0 %

Code	Packaging
A1531,0025	25 g
A1531,0100	100 g
A1531,5000	5 kg

Sodium di-Hydrogen Phosphate anhydrous

Sodium Phosphate, primary, Sodium Phosphate Acid, Sodium Phosphate mono-Basic

NaH_2PO_4
M = 120.00 g/mol
CAS 7558-80-7
EINECS 231-449-2
CS 28352200

Solubility ..... Miscible with ehtanol
Solid

WGK 1
Storage RT

122018 Sodium di-Hydrogen Phosphate anhydrous for analysis

Specifications
Assay (Acidim.) ..... 99-100.5 %
pH of 5 % solution 4.1-4.7

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.05 %
Chloride (Cl) ..... 0.002 %
Nitrogen compounds (as N) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %
As ..... 0.0001 %
Ca ..... 0.01 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Mg ..... 0.01 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
122018.1210	500 g
122018.1211	1000 g

Sodium di-Hydrogen Phosphate 1-hydrate

Sodium Phosphate mono-Basic, Sodium Phosphate Acid, Sodium Phosphate

$NaH_2PO_4 \cdot H_2O$
M = 137.99 g/mol
CAS 10049-21-5
EINECS 231-449-2
CS 28352200

Solubility ..... 850 g/L (H_2O)
Solid

WGK 1
Storage RT

131965 Sodium di-Hydrogen Phosphate 1-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Acidim.) ..... 99.0-102.0 %
pH of 5 % solution 4.1-4.5

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.0005 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfate (SO_4) ..... 0.003 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00005 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.005 %
Mg ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
131965.1210	500 g
131965.1211	1000 g
131965.1214	5 kg
131965.0416	25 kg

141965 Sodium di-Hydrogen Phosphate 1-hydrate (USP, BP) pure, pharma grade

Specifications
Assay (Acidim.) (calc. a.a.s) ..... 98.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 4.2-4.5

Maximum limit of impurities
Appearance and colour
of solution ..... passes test
Insoluble matter in H_2O ..... 0.005 %
Reducing substance to $KMnO_4$ .... passes test
Loss on drying at 130 °C ..... 11.5-14.5 %
Chloride (Cl) ..... 0.014 %
Sulfate (SO_4) ..... 0.03 %
Residual solvents (Ph. Eur./USP) . passes test
Aluminium, Calcium and related
elements. ..... passes test
Heavy metals (Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1.300 ppm
As ..... 0,00015 %
Cd ..... 0,00005 %
Fe ..... 0,001 %
Hg ..... 0,00015 %
Pb ..... 0,00005 %

Code	Packaging
141965.1211	1000 g
141965.1214	5 kg
141965.0416	25 kg

A4229 Sodium di-Hydrogen Phosphate 1-hydrate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.5 %
(5 %; H_2O) ..... approx. 4.5 (20 °C)
Chloride ..... max. 0.0005 %
Sulfate ..... max. 0.003 %
Ca ..... max. 0.005 %
Fe ..... max. 0.0005 %
K ..... max. 0.005 %
N ..... max. 0.001 %
Pb ..... max. 0.0005 %

Code	Packaging
A4229,0500	500 g
A4229,1000	1 kg

A1047 Sodium di-Hydrogen Phosphate 1-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as P ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 20 °C) ..... approx. 4.5
Chloride ..... max. 0.0005 %
Sulfate ..... max. 0.003 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.01
280 nm ..... max. 0.01

Code	Packaging
A1047,1000	1 kg

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Sodium di-Hydrogen Phosphate 2-hydrate

Sodium Phosphate, Sodium Phosphate Acid, Sodium Phosphate mono-Basic

$NaH_2PO_4 \cdot 2H_2O$
M = 156.01 g/mol
CAS 13472-35-0
EINECS 231-449-2
CS 28352200

Solubility ..... 850 g/L (H_2O)
Solid

WGK 1
Storage RT

121677 Sodium di-Hydrogen Phosphate 2-hydrate for analysis

Specifications
Assay (Acidim.) ..... 99.0-101.0 %
pH of 5 % solution 4.2-4.5

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfate (SO_4) ..... 0.003 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00005 %
Ca ..... 0.005 %
Cu ..... 0.0002 %
Fe ..... 0.0005 %
Mg ..... 0.005 %
Ni ..... 0.001 %
Pb ..... 0.0002 %

Code	Packaging
121677.1210	500 g
121677.1211	1000 g
121677.1214	5 kg
121677.0416	25 kg

141677 Sodium di-Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) (calc. a.a.s) ..... 98.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test
pH of 5 % solution 4.2-4.5

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.005 %
Reducing substance to $KMnO_4$ .... passes test
Loss on drying at 130 °C ..... 21.5-24.0 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur./USP) . passes test
Aluminium, Calcium and related elements ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1.300 ppm
As ..... 0,00015 %
Cd ..... 0,00005 %
Fe ..... 0,001 %
Hg ..... 0,00015 %
Pb ..... 0,00005 %

Code	Packaging
141677.1211	1000 g
141677.1214	5 kg
141677.0415	10 Kg
141677.0416	25 kg

201677 Sodium di-Hydrogen Phosphate 2-hydrate (E-339i, F.C.C.) food grade

Specifications
Assay (NaH_2PO_4) after drying ... 98.0-103.0 %
pH sol. 1 % 4.1-5.0
Insoluble substances a.a.s., not more than ..... 0.2 %
Loss on drying ..... 20.0-25.0 %
P_2O_5 content (a.a.s.) ..... 58.0-60.0 %
Fluoride, not more than ..... 10 ppm
Arsenic (as As), not more than ..... 1 ppm
Cadmium, not more than ..... 1 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 1 ppm

Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201677.0416	25 kg

A3902 Sodium di-Hydrogen Phosphate 2-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
pH (5 %; H_2O) ..... approx. 4.5 (20 °C)
Chloride ..... max. 0.001 %
Fluoride ..... max. 0.0001 %
Sulfate ..... max. 0.001 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.1
280 nm ..... max. 0.07

Code	Packaging
A3902,1000	1 kg

Sodium Diatrizoate 2-hydrate

3,5-Bis(-Acetylamino)-2,4,6-Triiodobenzoic Acid Sodium Salt

$C_{11}H_8I_3N_2NaO_4 \cdot 2H_2O$
M = 671.90 g/mol
CAS 737-31-5
EINECS 212-004-1
CS 29242998

Solid

Storage RT

Danger



H317 H334

A3769 Sodium Diatrizoate 2-hydrate for cell culture

Specifications
Pyrogen test ..... passes test
Assay ..... min. 99 %
Heavy metals ..... max. 10 ppm
Iodide ..... passes test
Chloride ..... max. 0.004 %
Sulfate ..... max. 0.1 %

Code	Packaging
A3769,0100	100 g

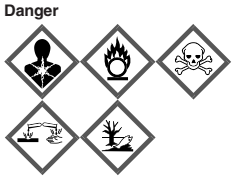
Sodium Dichromate 2-hydrate

$Na_2Cr_2O_7 \cdot 2H_2O$
M = 298.00 g/mol
CAS 7789-12-0
EINECS 234-190-3
CS 28413000
Index Nr. 024-004-00-7

Solubility ..... water 1,800 g/l at 20 °C
Solid

UN3086
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H350 H340 H360FD H272 H312 H301 H330 H314 H334 H317 H372 H410

131666 Sodium Dichromate 2-hydrate (Reag. USP) for analysis, ACS

Specifications
Assay (Iodom.) ..... 99.5-100.5 %
pH of 5 % solution 3.6-3.9

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Chloride (Cl) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %
Al ..... 0.001 %
Ca ..... 0.002 %
Cu ..... 0.001 %
Fe ..... 0.002 %
K ..... 0.01 %
Mg ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
131666.0416	25 kg

141666 Sodium Dichromate 2-hydrate pure

Specifications
Assay (Iodom.) ..... 98.5 %
pH of 5 % solution 3.5-3.9
Insoluble matter in H_2O ..... 0.01 %
Loss on drying at 120 °C ..... < 12.5 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.1 %
Cu ..... 0.002 %
Fe ..... 0.005 %
Pb ..... 0.01 %

Code	Packaging
141666.1211	1000 g
141666.0416	25 kg

For technical support contact your local distributor or visit:
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Sodium Diethyldithiocarbamate 3-hydrate

Cupral, Dithiocarbamic Acid Diethyl Ester Sodium Salt, Diethyldithiocarbamic Acid Sodium Salt, DDTC Sodium Salt

$NaSCSN(C_2H_5)_2 \cdot 3H_2O$
M = 225.31 g/mol
CAS 20624-25-3
EINECS 205-710-6
CS 29302000

Solid

WGK 3*
Storage 2-8 °C

Danger



H302 H315 H318

131668 Sodium Diethyldithiocarbamate 3-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Perchl. Ac.) ..... 99.0 %
Identity ..... IR passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %

Residue on ignition (as $Na2SO_4$) 30.5-32.5 %
Sensitivity to Cu ..... passes test

Code	Packaging
131668.1209	250 g

A2171 Sodium Diethyldithiocarbamate 3-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals ..... max. 0.001 %
Sulfated ash ..... 30-33 %

Code	Packaging
A2171,0100	100 g
A2171,0250	250 g
A2171,1000	1 kg

Sodium Dioxide see Sodium Peroxide granulated

Sodium Disulfite

Sodium Metabisulphite, Sodium Pyrosulphite

$Na_2S_2O_5$
M = 190.10 g/mol
CAS 7681-57-4
EINECS 231-673-0
CS 28321000
Index Nr. 016-063-00-2

Solubility ..... water 470 g/l at 20 °C
Solid

WGK 1
Storage away from direct light.

Danger



H302 EUH031 H318

131698 Sodium Disulfite for analysis, ACS

Specifications
Minimum assay (Iodom.) ..... 97.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.005 %
Phosphate (PO_4) ..... 0.002 %
Thiosulfate (S_2O_3) ..... 0.05 %
As ..... 0.0001 %

Heavy metals (as Pb) ..... 0.001 %

Metals by ICP [in mg/Kg (ppm)]

Al	5	Au	5	Mn	10
Ba	5	Bi	5	Ni	10
Cd	5	Co	5	Pt	5
Cr	10	Cu	10	Si	5
Fe	10	Ga	5	Sr	5
In	5	Mg	5	Tl	10
Mo	5	Pb	10	Sb	5
Sn	5	Ti	5	V	5
Zn	10	Zr	5		

Code	Packaging
131698.1210	500 g
131698.1211	1000 g
131698.1214	5 kg
131698.0416	25 kg

141698 Sodium Disulfite (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (as SO_2) (Iodom.) ..... 65.0-67.4 %
Assay ($Na_2S_2O_5$) (Iodom.) ..... 96.5-100.0 %
Identity according to Pharmacopoeias: ..... passes test
pH of 5 % solution 3.5-5.0

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.02 %
Residual solvents (Ph. Eur./USP) . passes test
Thiosulfate (BP) ..... passes test
Thiosulfate (S_2O_3) ..... 0.05 %

Heavy metals (as Pb) ..... 0.002 %
As ..... 0.0003 %
Fe ..... 0.002 %
Pb ..... 0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141698.1211	1000 g
141698.1214	5 kg
141698.0416	25 kg

201698 Sodium Disulfite (E-223, F.C.C.) food grade

Specifications
Assay (as SO_2), not less than ..... 64.0 %
Assay (as $Na_2S_2O_5$) ..... 95.0-100.5 %
pH of 10 % solution 4.0-5.5
Thiosulfate, not more than ..... 0.05 %

Arsenic (as As), not more than ..... 3 ppm
Iron, not more than ..... 10 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Selenium, not more than ..... 5 ppm

Heavy metals (as Pb), not more than 0.001 %
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201698.0416	25 kg

Sodium Dithionite

Sodium Hydrosulphite, Sodium Hypodisulphite, Sodium Sulphoxylate

$Na_2S_2O_4$
M = 174.11 g/mol
CAS 7775-14-6
EINECS 231-890-0
CS 28311000
Index Nr. 016-028-00-1

Melting Point ..... > 100 °C
Solubility ..... water 224 g/l at 20 °C
Solid

UN1384
Class/PG 4.2/II
ADR 4.2/II · IMDG 4.2/II · IATA 4.2/II
WGK 1
Storage RT

Danger



EUH031 H251 H302

211685 Sodium Dithionite technical grade

Specifications
Assay (Iodom.) ..... 85 %*
Insoluble matter in H_2O ..... passes test
Cu ..... 0.002 %

Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %
* At the moment of the batch analysis.

Code	Packaging
211685.1611	1000 g
211685.1214	5 kg

Sodium Edetate see EDTA Disodium Salt 2-hydrate

HebaPeaktnb

Sodium Fluoride

NaF
M = 41.99 g/mol
CAS 7681-49-4
EINECS 231-667-8
CS 28261910
Index Nr. 009-004-00-7

Melting Point ..... 993 °C
Solubility ..... 42 g/L (H_2O)
Solid

UN1690
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage RT

Danger



EUH032 H301 H315 H319

131675 Sodium Fluoride for analysis, ACS, ISO

Specifications
Minimum assay (Compl.) ..... 99.0 %

Maximum limit of impurities
Acidity ..... 0.025 meq/g
Alkalinity ..... 0.01 meq/g
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 150 °C ..... 0.2 %
Chloride (Cl) ..... 0.002 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
Sulfite (SO_3) ..... 0.005 %
Sodium fluorosilicate (NaSiF6) ..... 0.1 %
Heavy metals (as Pb) ..... 0.001 %
Cu ..... 0.0005 %
Fe ..... 0.002 %
K ..... 0.01 %
Ni ..... 0.003 %
Pb ..... 0.001 %

Code	Packaging
131675.1210	500 g
131675.1211	1000 g
131675.0416	25 kg

141675 Sodium Fluoride (USP) pure, pharma grade

Specifications
Assay (calc. a.d.s.) ..... 98.5-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Loss on drying at 150 °C ..... 0.5 %
Chloride (Cl) ..... 0.012 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur./USP) . passes test
Sodium fluorosilicate (NaSiF6) ..... passes test
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141675.1210	500 g
141675.1211	1000 g
141675.0914	5 kg
141675.0416	25 kg

A3904 Sodium Fluoride BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Water ..... max. 0.2 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.01 %
A (1 cm/0.5 M in H_2O)
260 nm ..... max. 0.01
280 nm ..... max. 0.01

Code	Packaging
A3904,0025	25 g

Sodium Formaldehyde Sulfoxylate x-hydrate

Formaldehyde Sodium Sulphoxylate, Hydroxymethanesulphinic Acid Sodium Salt, Rongalit

$CH_3NaO_3S \cdot xH_2O$
M = 118.09 (anh) g/mol
CAS 149-44-0
EINECS 205-739-4
CS 28311000

Solubility ..... water 680 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H335

143289 Sodium Formaldehyde Sulfoxylate x-hydrate (USP-NF) pure, pharma grade

Specifications
Assay (as SO_2) (Iodom.)
(calc. a.a.s) ..... 45.5-54.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH sol. 2 % 9.5-10.5

Maximum limit of impurities
Alkalinity ..... 0.35 meq/g
Insoluble matter in H_2O ..... 0.05 %
Loss on drying at 105 °C ..... 27.0 %
Sulfide ..... passes test
Clarity and appearance of
solution ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Sodium sulphite
(as $Na2SO_3$) calc. a.a.s. ..... 5.0 %
Fe ..... 0.0025 %
Pb ..... 0.001 %

Code	Packaging
143289.1214	5 kg

Sodium Gluconate

D-Gluconic Acid Sodium Salt

$C_6H_{11}NaO_7$
M = 218.14 g/mol
CAS 527-07-1
EINECS 208-407-7
CS 29181600

Melting Point ..... 206 °C
Solubility ..... water 590 g/l at 25 °C
Solid

WGK 1
Storage RT

142983 Sodium D-Gluconate (USP) pure, pharma grade

Specifications
Assay (Perchl. Ac.) ..... 98.0-102.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 10 % solution 6.8-7.5
Specific rotation α 20/
D c=10 (in H_2O) ..... 11.5-12.5°

Maximum limit of impurities
Insoluble matter in H_2O ..... passes test
Reducing substances (as Glucosa) ..... 0.5 %
Loss on drying at 105 °C ..... 0.3 %
Chloride (Cl) ..... 0.07 %
Sulfate (SO_4) ..... 0.05 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1.300 ppm
As ..... 0,0003 %
Cd ..... 0,00005 %
Pb ..... 0,001 %

Code	Packaging
142983.1211	1000 g
142983.0914	5 kg

Sodium Heptylsulfonate 1-hydrate see 1-Heptane Sulfonic Acid Sodium Salt 1-hydrate

Sodium Hexa meta-Phosphate see Sodium Polyphosphate

HeBaPeaKTMB

Sodium Hexanitrocobaltate(III)

Cobalt (III) and Sodium Nitrite, Sodium and Cobalt(III) Nitrite, Sodium Cobaltinitrite, tri-Sodium Hexakis(Nitrito-N)Cobaltate(3-)

$Na_3Co(NO_2)_6$
M = 403.94 g/mol
CAS 13600-98-1
EINECS 237-077-7
CS 28429080

Solubility ..... water 720 g/l at 20 °C
Solid

UN1479
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 2
Storage RT

Danger



H350i H272

131663 Sodium Hexanitrocobaltate(III) for analysis, ACS

Specifications
Suitability: for K determination ..... passes test

Maximum limit of impurities
Insoluble matter in CH_3COOH dil ..... 0.02 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Fe ..... 0.0005 %
K ..... 0.01 %

Code	Packaging
131663.1208	100 g
131663.0914	5 kg

Sodium Hydrogen Carbonate

Sodium Bicarbonate

$NaHCO_3$
M = 84.01 g/mol
CAS 144-55-8
EINECS 205-633-8
CS 28363000

Solubility ..... 96 g/L (H_2O)
Solid

WGK nwg
Storage RT

131638 Sodium Hydrogen Carbonate for analysis, ACS, ISO

Specifications
Assay (Acidim.) ..... 99.7-100.3 %
Identity ..... passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Reducing substances of I2 (en I) ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.0005 %
Sulfur compounds (as SO_4) ..... 0.003 %
Phosphate (PO_4) ..... 0.001 %
Silicate SiO_2 ..... 0.005 %
As ..... 0.00004 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Al 5
Ba 5
Bi 5
Ca..... 100
Co..... 5
Cu..... 5
K..... 50
Mg..... 50
Mo..... 5
Pb..... 5
Tl..... 5
Cd 5
Cr 5
Fe..... 5
Li 20
Mn..... 5
Ni..... 5
Sr 5
Zn..... 5

Code	Packaging
131638.1210	500 g
131638.1211	1000 g
131638.1214	5 kg
131638.0416	25 kg

141638 Sodium Hydrogen Carbonate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Loss on drying ..... 0.25 %
Chloride (Cl) ..... 0.005 %
Sulfur compounds (as SO_4) ..... 0.015 %
Ammonium (NH_4) ..... 0.002 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %
Carbonate ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0002 %
Ca ..... 0.01 %
Fe ..... 0.0005 %

Code	Packaging
141638.1210	500 g
141638.1211	1000 g
141638.1214	5 kg
141638.0416	25 kg

201638 Sodium Hydrogen Carbonate (E-500ii, F.C.C.) food grade

Specifications
Assay (as $NaHCO_3$)
after drying ..... 99.0-100.5 %
pH sol. 1 % 8.0-8.6
Insoluble substances ..... passes test
Loss on drying, not more than ..... 0.25 %
Ammonia ..... passes test
Arsenic, not more than ..... 3 ppm
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201638.0416	25 kg

A0384 Sodium Hydrogen Carbonate for cell culture

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... min. 99.5 %
pH (5 %; H_2O; 20 °C) 7.5-8.5
Chloride ..... max. 0.001 %
Sulfate ..... max. 0.005 %
As ..... max. 0.0001 %
Ca ..... max. 0.005 %
Cu ..... max. 0.0005 %
Fe ..... max. 0.001 %
Mg ..... max. 0.005 %
Pb ..... max. 0.0005 %

Code	Packaging
A0384,0500	500 g
A0384,1000	1 kg
A0384,5000	5 kg
A0384,9020	20 kg

A1940 Sodium Hydrogen Carbonate BioChemica

Specifications
Assay (titr.) ..... min. 99.5 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 20 °C) 7.5-8.5
Chloride ..... max. 0.001 %
Phosphate ..... max. 0.005 %
Sulfate ..... max. 0.005 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.02
280 nm ..... max. 0.02

Code	Packaging
A1940,1000	1 kg

di-Sodium Hydrogen Phosphate anhydrous

Sodium Phosphate di-Basic, Sodium Phosphate, Sodium mono-Hydrogen Phosphate, sec.-Sodium phosphate

Na_2HPO_4
M = 141.96 g/mol
CAS 7558-79-4
EINECS 231-448-7
CS 28352200

Solubility ..... 77 g/L (H_2O)
Solid

WGK 1
Storage RT

131679 di-Sodium Hydrogen Phosphate anhydrous (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Acidim.) ..... 99.0 %
pH of 5 % solution 8.7-9.3

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Loss on drying at 105 °C ..... 0.2 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
Pyrophosphate (P_2O_7) ..... 0.2 %
As ..... 0.00005 %
Heavy metals (as Pb) ..... 0.001 %

Metals by ICP [in mg/Kg (ppm)]
Al.....5
Au 5
B 5
Ba 5
Be 5
Ca.....10
Cd..... 5
Cu..... 5
K..... 100
Mn 5
Ni..... 5
Pt..... 5
Se..... 5
Sr..... 5
Zn..... 5
Co 5
Fe..... 10
Mg..... 10
Mo 5
Pb..... 10
Sb..... 5
Si..... 5
Ti..... 5

Code	Packaging
131679.1210	500 g
131679.1211	1000 g
131679.0914	5 kg
131679.0416	25 kg

НеВаРеактив

141679 di-Sodium Hydrogen Phosphate anhydrous (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 98.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 8.7-9.4

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Reducing substance to $KMnO_4$ .... passes test
Loss on drying at 105 °C ..... 1.0 %
Loss on drying at 130 °C (USP) ..... 5.0 %
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.003 %
Sulfate (SO_4) ..... 0.03 %
Residual solvents (Ph. Eur./USP) . passes test
Sodium di-Hydrogen Phosphate ... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
As ..... 0.0001 %
Cd ..... 0.00005 %
Fe ..... 0.002 %
Hg ..... 0.00015 %
Pb ..... 0.00005 %

Code	Packaging
141679.1210	500 g
141679.1211	1000 g
141679.1214	5 kg
141679.0416	25 kg

A2943 *di*-Sodium Hydrogen Phosphate anhydrous for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99 %
pH (5 %; H_2O; 20 °C) 8.7-9.3
Total N ..... max. 0.001 %
Water ..... max. 0.2 %
Chloride ..... max. 0.001 %
Fluoride ..... max. 0.0001 %
Sulfate ..... max. 0.005 %
Fe ..... max. 0.001 %
K ..... max. 0.01 %
Pb ..... max. 0.001 %

Code	Packaging
A2943,1000	1 kg

A1046 *di*-Sodium Hydrogen Phosphate anhydrous BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O; 20 °C) 8.7-9.3
Total N ..... max. 0.001 %
Water ..... max. 0.2 %
Chloride ..... max. 0.001 %
Fluoride ..... max. 0.0001 %
Sulfate ..... max. 0.005 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.05

Code	Packaging
A1046,0500	500 g
A1046,1000	1 kg
A1046,5000	5 kg

di-Sodium Hydrogen Phosphate 2-hydrate

sec.-Sodium phosphate, Sodium Phosphate di-Basic, Sodium mono-Hydrogen Phosphate, Sodium Phosphate, Disodium phosphate

$Na_2HPO_4 \cdot 2H_2O$
M = 177.99 g/mol
CAS 10028-24-7
EINECS 231-448-7
CS 28352200
Solubility ..... 93 g/L (H_2O)
Solid
WGK 1
Storage RT

122507 di-Sodium Hydrogen Phosphate 2-hydrate for analysis

Specifications
Minimum assay (Acidim.) ..... 99.0 %
pH of 5 % solution 8.7-9.3

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.002 %
Nitrogen compounds (as N) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %
Pyrophosphate (P_2O_7) ..... 0.2 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.00005 %
Ca ..... 0.001 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.002 %
K ..... 0.005 %
Mg ..... 0.001 %
Mn ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.001 %
Zn ..... 0.0005 %

Code	Packaging
122507.1210	500 g
122507.1211	1000 g
122507.1214	5 kg
122507.0416	25 kg

142507 di-Sodium Hydrogen Phosphate 2-hydrate (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) (calc. a.a.s) ..... 98.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 8.7-9.4

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Reducing substances ..... passes test
Loss on drying at 130 °C ..... 19.5-21.0 %
Chloride (Cl) ..... 0.002 %
Nitrogen compounds (as N) ..... 0.003 %
Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur.) ..... passes test
Sodium di-Hydrogen Phosphate ... passes test
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
As ..... 0.0001 %
Fe ..... 0.002 %

Code	Packaging
142507.1211	1000 g
142507.0914	5 kg
142507.0416	25 kg

A4732 *di*-Sodium Hydrogen Phosphate 2-hydrate for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.5 %
Appearance ..... white powder
pH (5 %; H_2O; 20 °C) 8.8-9.4
Chloride ..... max. 0.001 %
Fluoride ..... max. 0.0001 %
Sulfate ..... max. 0.005 %
Cu ..... max. 0.0005 %
Fe ..... max. 0.001 %
K ..... max. 0.005 %
Pb ..... max. 0.001 %

Code	Packaging
A4732,0500	500 g

A3905 *di*-Sodium Hydrogen Phosphate 2-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99.5 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O) ..... 8.8-9.4 (20 °C)
Chloride ..... max. 0.001 %
Fluoride ..... max. 0.0001 %
Sulfate ..... max. 0.005 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.05

Code	Packaging
A3905,1000	1 kg
A3905,5000	5 kg

di-Sodium Hydrogen Phosphate 7-hydrate

Disodium Phosphate, Sodium Phosphate, secondary, Sodium Phosphate di-Basic

$Na_2HPO_4 \cdot 7H_2O$
M = 268.06 g/mol
CAS 7782-85-6
EINECS 231-448-7
CS 28352200
Melting Point ..... 48 °C
Solubility ..... Miscible with alcohol and ether.
Solid
WGK 1
Storage RT

132656 di-Sodium Hydrogen Phosphate 7-hydrate for analysis, ACS

Specifications
Assay (Acidim.) ..... 98.0-102.0 %
pH of 5 % solution 8.7-9.3

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0005 %
Fe ..... 0.001 %

Code	Packaging
132656.1211	1000 g

Printed on FSC® certified paper from well managed forests

di-Sodium Hydrogen Phosphate 12-hydrate

Sodium Phosphate, Disodium Phosphate, Sodium mono-Hydrogen Phosphate, sec.-Sodium Phosphate, Sodium Phosphate di-Basic

$Na_2HPO_4 \cdot 12H_2O$
M = 358.14 g/mol
CAS 10039-32-4
EINECS 231-448-7
CS 28352200

Melting Point ..... 35 °C (dec.)
Solubility ..... 218 g/L (H_2O)
Solid

WGK 1
Storage RT

131678 di-Sodium Hydrogen Phosphate 12-hydrate for analysis, ISO

Specifications
Assay (Acidim.) ..... 99-102 %
pH of 5 % solution 9-9.4

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
Mono or tri-Base salt ..... passes test
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00005 %
Ca ..... 0.001 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.01 %
Mg ..... 0.001 %
Mn ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131678.1210	500 g
131678.1211	1000 g
131678.1214	5 kg
131678.0416	25 kg

141678 di-Sodium Hydrogen Phosphate 12-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) (calc. a.a.s) ..... 98.5-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 8.7-9.4

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in in H_2O ..... 0.025 %
Reducing substance to $KMnO_4$ .... passes test
Loss on drying at 130 °C ..... 57-61 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.003 %
Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur./USP) . passes test
Sodium di-Hydrogen Phosphate ... passes test
Water (H_2O) ..... 57.0-61.0 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1.300 ppm
As ..... 0,0001 %
Cd ..... 0,00005 %
Fe ..... 0,001 %
Hg ..... 0,00015 %
Pb ..... 0,00005 %

Code	Packaging
141678.1210	500 g
141678.1211	1000 g
141678.1214	5 kg
141678.0416	25 kg

201678 di-Sodium Hydrogen Phosphate 12-hydrate (E-339ii) food grade

Specifications
Assay ($Na2HPO_4$) after drying,
not less than ..... 98.0 %
pH sol. 1 % 8.4-9.6
Insoluble substances a.a.s.,
not more than ..... 0.2 %
Loss on drying, not more than ..... 61.0 %
P_2O_5 content (a.a.s.) ..... 49-51 %
Fluoride, not more than ..... 10 ppm
Arsenic (as As), not more than ..... 1 ppm
Cadmium, not more than ..... 1 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 1 ppm
Specifications Regulation (UE) n° 231/2012, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008

Code	Packaging
201678.0416	25 kg

A3906 *di*-Sodium Hydrogen Phosphate 12-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (5 %; H_2O) 9.0-9.5
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.01
280 nm ..... max. 0.01

Code	Packaging
A3906,1000	1 kg

Sodium Hydrogen Sulfite solution 40 % w/v

Sodium Bisulphite

$NaHSO_3$
M = 104.06 g/mol
CAS 7631-90-5
EINECS 231-548-0
CS 28321000
Index Nr. 016-064-00-8

Melting Point ..... - 44 °C
Boiling Point ..... 146 °C
Density ..... 1.260 kg/l
Liquid

UN2693
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H302 EUH031

211642 Sodium Hydrogen Sulfite solution 40 % w/v technical grade

Specifications
Assay (Iodom.) ..... 40 %

Code	Packaging
211642.1211	1000 ml

Sodium Hydrosulfite see Sodium Dithionite

Sodium Hydroxide

Caustic soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151100
Index Nr. 011-002-00-6

Melting Point ..... 324 °C
Boiling Point ..... 1390 °C
Solubility ..... 1090 g/L (H_2O)
Solid

UN1823
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

131687 Sodium Hydroxide pellets for analysis, ACS, ISO

Specifications
Minimum assay (Acidim.) ..... 98.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.0005 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.002 %
Silicate SiO_2 ..... 0.001 %
Carbonate (as $Na2CO_3$) ..... 1.0 %
Heavy metals (as Pb) ..... 0.0005 %
Al ..... 0.0005 %
As ..... 0.00004 %
Ca ..... 0.0005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Hg ..... 0.00001 %
K ..... 0.02 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.001 %

Code	Packaging
131687.1210	500 g
131687.1211	1000 g
131687.1214	5 kg
131687.0415	10 Kg
131687.0416	25 kg

631687 Sodium Hydroxide pellets (Ph. Eur, BP, USP, JP) GMP - IPEC grade

Specifications
Assay (Acidim.) ..... 97.0-100.5 %
Identity according to Pharmacopoeias:
pH ..... passes test
Sodium ..... passes test

Maximum limit of impurities
Appearance of solution
Appearance Clear < formazin I ..... passes test
Appearance Colourless ..... passes test
Chloride (Cl) ..... 0.0050 %
Sulfate (SO_4) ..... 0.0050 %
Carbonate (as $Na2CO_3$) ..... 2.0 %
Insoluble substances and
organic matter ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.0020 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
Fe ..... 0.0010 %
Hg ..... 0.00001 %
K (JP) ..... passes test
K (USP) ..... passes test

Code	Packaging
631687.0914	5 kg
631687.0416	25 kg

141687 Sodium Hydroxide pellets (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 98.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.002 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %
Carbonate (as $Na2CO_3$) ..... 1.0 %
Residual solvents (Ph. Eur./USP) . passes test
Insoluble substances and
organic matter ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
Fe ..... 0.001 %
K ..... passes test

Code	Packaging
141687.1210	500 g
141687.1211	1000 g
141687.1214	5 kg
141687.0415	10 Kg
141687.0416	25 kg

201687 Sodium Hydroxide pellets (E-524, F.C.C.) food grade

Specifications
Assay (as NaOH) of total
alkali ..... 98.0-100.5 %
Carbonate (as $Na2CO_3$),
not more than ..... 0.5 %
Insoluble substances and
organic matter ..... passes test
Arsenic (as As), not more than ..... 3 ppm
Mercury, not more than ..... 0.1 ppm
Lead, not more than ..... 0.5 ppm

Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201687.1214	5 kg
201687.0416	25 kg

211687 Sodium Hydroxide pellets technical grade

Specifications
Assay (Acidim.) ..... 98 %
Insoluble matter in H_2O ..... 0.05 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Heavy metals (as Pb) ..... 0.005 %
As ..... 0.0003 %
Fe ..... 0.005 %

Code	Packaging
211687.1211	1000 g
211687.1214	5 kg
211687.0416	25 kg

A6829 Sodium Hydroxide pellets for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99 %
pH (1 M; H_2O) ..... > 12 (20 °C)
Carbonate ..... max. 1.0 %
Chloride ..... max. 0.0005 %
Phosphate ..... max. 0.0005 %
Sulfate ..... max. 0.0005 %
Ca ..... max. 0.0005 %
Cu ..... max. 0.0002 %
Fe ..... max. 0.0005 %
K ..... max. 0.05 %
Mg ..... max. 0.0005 %
Pb ..... max. 0.0005 %
Zn ..... max. 0.001 %

Code	Packaging
A6829,0500	500 g
A6829,1000	1 kg

A3910 Sodium Hydroxide pellets BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
pH (1 M; H_2O) ..... > 12 (20 °C)
Carbonate ..... max. 1.0 %
Chloride ..... max. 0.0005 %
Phosphate ..... max. 0.0005 %
Sulfate ..... max. 0.0005 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.012
280 nm ..... max. 0.006

Code	Packaging
A3910,1000	1 kg

Sodium Hydroxide pearls

Caustic soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151100
Index Nr. 011-002-00-6

Melting Point ..... 318 °C
Boiling Point ..... 1,390 °C
Solubility ..... water 1,090 g/l at 20 °C
Solid
caustic, deliquescent, absorbs CO_2 from air

UN1823
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314 H290

141929 Sodium Hydroxide pearls (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 98.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Insoluble substances and
organic matter ..... passes test
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.002 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %
Carbonate (as $Na2CO_3$) ..... 1.0 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
Fe ..... 0.001 %
K ..... passes test

Code	Packaging
141929.1211	1000 g
141929.1214	5 kg
141929.0416	25 kg

211929 Sodium Hydroxide pearls technical grade

Specifications
Assay (Acidim.) ..... 98 %
Fe ..... 0.005 %

Code	Packaging
211929.1214	5 kg
211929.0415	10 kg
211929.0416	25 kg

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Sodium Hydroxide micropearls

Caustic soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151100
Index Nr. 011-002-00-6

Melting Point ..... 318 °C
Boiling Point ..... 1,390 °C
Solubility ..... water 1,090 g/l at 20 °C
Solid
caustic, deliquescent, absorbs CO_2 from air

UN1823
Class/PG 8(8)/II
ADR 8(8)/II · IMDG 8(8)/II · IATA 8(8)/II
WGK 1
Storage RT

Danger



H314 H290

145881 Sodium Hydroxide micropearls (USP-NF) pure, pharma grade

Specifications
Assay (Acidim.) ..... 98.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Insoluble substances and
organic matter ..... passes test

Nitrogen compounds (as N) ..... 0.002 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %
Carbonate (as $Na2CO_3$) ..... 1.0 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
As ..... 0.00004 %
Fe ..... 0.001 %
K ..... passes test

Code	Packaging
145881.1211	1000 g
145881.0416	25 kg

Sodium Hydroxide solution 50 % w/w

Soda lye

CS 28151200
Index Nr. 011-002-00-6

Liquid

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

122404 Sodium Hydroxide solution 50 % w/w for analysis

Specifications
Minimum assay (Acidim.) ..... 50 %

Maximum limit of impurities
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.0001 %
Phosphate (PO_4) ..... 0.0005 %

Sulfate (SO_4) ..... 0.002 %
Silicate (as SiO_2) ..... 0.001 %
Carbonate (as $Na2CO_3$) ..... 1.0 %
Heavy metals (as Pb) ..... 0.0005 %
Al ..... 0.0005 %
As ..... 0.00004 %
Ca ..... 0.0005 %

Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.02 %
Mg ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.001 %

Code	Packaging
122404.1211	1000 ml

142404 Sodium Hydroxide solution 50 % w/w pure

Specifications
Assay (Acidim.) ..... 50 %
Chloride (Cl) ..... 0.01 %
Nitrogen compounds (as N) ..... 0.002 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %

Carbonate (as $Na2CO_3$) ..... 1 %
Heavy metals (as Pb) ..... 0.002 %
Al ..... 0.002 %
As ..... 0.00004 %
Ca ..... 0.005 %
Cu ..... 0.001 %

Fe ..... 0.005 %
Mg ..... 0.005 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
142404.1211	1000 ml
142404.1214	5 l

212404 Sodium Hydroxide solution 50 % technical grade

Specifications
Assay (titr.) ..... approx. 50 %
Density (d 20 °C) ..... approx. 1.53 g/cm³

Code	Packaging
212404.1214	5 L

Sodium Hydroxide solution 50 % w/v

Soda lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density ..... 1.39 kg/l
Solubility ..... Soluble in water.
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

141571 Sodium Hydroxide solution 50 % w/v pure

Specifications
Assay (Acidim.) ..... 49.5-50.5 %
Chloride (Cl) ..... 0.01 %
Nitrogen compounds (as N) ..... 0.002 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %

Carbonate (as $Na2CO_3$) ..... 1.0 %
Heavy metals (as Pb) ..... 0.002 %
Al ..... 0.002 %
As ..... 0.00004 %
Ca ..... 0.005 %
Cu ..... 0.001 %

Fe ..... 0.005 %
Mg ..... 0.005 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141571.1214	5 l

211571 Sodium Hydroxide solution 50 % w/v technical grade

Specifications
Assay (Acidim.) ..... 50 %
Chloride (Cl) ..... 0.05 %

Sulfate (SO_4) ..... 0.05 %
Heavy metals (as Pb) ..... 0.005 %

As ..... 0.0003 %
Fe ..... 0.005 %

Code	Packaging
211571.1214	5 l

Sodium Hydroxide solution 45 % w/w

Soda Lye

CS 28151200
Index Nr. 011-002-00-6

Liquid

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

217110 Sodium Hydroxide solution 45 % technical grade

Specifications
Assay (titr.) ..... approx. 45 %
Density (d 20 °C) ..... approx. 1.48 g/cm³

Code	Packaging
217110.0716	25 L

Sodium Hydroxide solution 40 % w/w

Soda lye

CS 28151200
Index Nr. 011-002-00-6

Liquid

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

121220 Sodium Hydroxide solution 40 % for analysis

Specifications
Assay (titr.) ..... min. 40 %
Total N ..... max. 0.0003 %
Carbonate ..... max. 0.2 %
Chloride ..... max. 0.0005 %
Silicate ..... max. 0.005 %
Sulfate ..... max. 0.0005 %
Al ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
121220.1214	5 L

141220 Sodium Hydroxide solution 40 % w/w pure

Specifications
Assay (titr.) ..... approx. 40 %
Total N ..... max. 0.0003 %
Carbonate ..... max. 1 %
Chloride ..... max. 0.005 %
Silicate ..... max. 0.005 %
Sulfate ..... max. 0.005 %
Al ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
141220.1214	5 L

171220 Sodium Hydroxide solution 40 % w/w

for determination of N

Specifications
Minimum assay (Acidim.) ..... 40 %

Maximum limit of impurities
Nitrogen compounds (as N) ..... 0.002 %
Carbonate (as $Na2CO_3$) ..... 1.0 %

Code	Packaging
171220.1211	1000 ml
171220.1214	5 l
171220.1315	10 l
171220.0716	25 l

Sodium Hydroxide solution 40 % w/v

Soda Lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density ..... 1.33 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

121593 Sodium Hydroxide solution 40 % w/v for analysis

for the N determination in milk according to ISO8968-3:2004

Specifications
Minimum assay (Acidim.) ..... 40 %

Maximum limit of impurities
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.0005 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.002 %
Silicate (as SiO_2) ..... 0.001 %
Carbonate (as $Na2CO_3$) ..... 1.0 %
Heavy metals (as Pb) ..... 0.0005 %
Al ..... 0.0005 %
As ..... 0.00004 %
Ca ..... 0.001 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.02 %
Mg ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.001 %

Code	Packaging
121593.1214	5 l

141593 Sodium Hydroxide solution 40 % w/v pure

Specifications
Assay (Acidim.) ..... 40 %
Chloride (Cl) ..... 0.01 %
Nitrogen compounds (as N) ..... 0.002 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %
Carbonate (as $Na2CO_3$) ..... 1 %
Heavy metals (as Pb) ..... 0.002 %
Al ..... 0.002 %
As ..... 0.0001 %
Ca ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Mg ..... 0.005 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141593.1214	5 l

Sodium Hydroxide solution 32 % w/w

CS 28151200
Index Nr. 011-002-00-6

Liquid

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

126682 Sodium Hydroxide solution 32 % w/w for analysis

Specifications
Assay (titr.) ..... min. 32 %
Density (d 20 °C) ..... approx. 1.35 g/cm³
Total N ..... max. 0.0003 %
Carbonate ..... max. 0.2 %
Chloride ..... max. 0.0005 %
Silicate ..... max. 0.005 %
Sulfate ..... max. 0.0005 %
Al ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
126682.1212	2.5 L
126682.1214	5 L
126682.0715	10 L

146682 Sodium Hydroxide solution 32 % w/w pure

Specifications
Assay (titr.) ..... approx. 32 %
Density (d 20 °C) ..... approx. 1.35 g/cm³
Total N ..... max. 0.0003 %
Carbonate ..... max. 1 %
Chloride ..... max. 0.002 %
Silicate ..... max. 0.005 %
Sulfate ..... max. 0.003 %
Al ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
146682.1214	5 L
146682.0716	25 L

216682 Sodium Hydroxide solution 32 % w/w technical grade

Specifications
Assay (titr.) ..... approx. 32 %
Density (d 20 °C) ..... approx. 1.35 g/cm³

Code	Packaging
216682.1214	5 L
216682.0715	10 L
216682.0716	25 L

НеваРеактив

176682 Sodium Hydroxide solution 32 % w/w for nitrogen determination

Specifications
Assay (titr.) ..... min. 32 %
Density (d 20 °C) ..... approx. 1.35 g/cm³
Total N ..... max. 0.0001 %
Carbonate ..... max. 0.2 %
Chloride ..... max. 0.0005 %
Silicate ..... max. 0.001 %
Sulfate ..... max. 0.0005 %
Al ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
176682.1212	2.5 L
176682.1214	5 L
176682.0715	10 L
176682.0716	25 L

Sodium Hydroxide solution 32 % w/v

Soda lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density ..... 1.28 kg/l
Solubility ..... Miscible with water
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

122666 Sodium Hydroxide solution 32 % w/v for analysis

for determination of N

Specifications
Assay (Acidim.) ..... 32-34 %

Maximum limit of impurities
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.0001 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.002 %
Silicate (as SiO_2) ..... 0.001 %
Carbonate (as $Na2CO_3$) ..... 1.0 %
Heavy metals (as Pb) ..... 0.0005 %
Al ..... 0.0005 %
As ..... 0.00004 %
Ca ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.02 %
Mg ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.001 %

Code	Packaging
122666.1211	1000 ml
122666.1212	2,5 l
122666.1214	5 l
122666.0715	10 l
122666.0716	25 l

Sodium Hydroxide solution 30 % w/w

Soda lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density ..... 1.328 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H314

144320 Sodium Hydroxide solution 30 % w/w pure, pharma grade

Specifications
Assay (Acidim.) ..... 29.5-30.5 %
Identity
Sodium ..... positive

Maximum limit of impurities
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.002 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %
Carbonate (as $Na2CO_3$) ..... 1.0 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
Fe ..... 0.001 %
K ..... passes test
This product has been manufactured with Sodium Hydroxide which passes USP-NF, BP and Ph. Eur. specifications.

Code	Packaging
144320.1211	1000 ml

Sodium Hydroxide solution 30 % w/v

Soda lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density ..... 1.26 kg/l
Solubility ..... Miscible with water
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

171690 Sodium Hydroxide solution 30 % w/v

Specifications
Assay (Acidim.) ..... 30 %

Maximum limit of impurities
Chloride (Cl) ..... 0.01 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %
Carbonate (as $Na2CO_3$) ..... 1 %

Code	Packaging
171690.1210	500 ml
171690.1214	5 l
171690.0716	25 l

Sodium Hydroxide solution 25 % w/w

CS 28151200
Index Nr. 011-002-00-6

Liquid

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

143402 Sodium Hydroxide solution 25 % w/w pure

Specifications
Assay (titr.) ..... approx. 25 %
Total N ..... max. 0.0003 %
Carbonate ..... max. 1 %
Chloride ..... max. 0.002 %
Silicate ..... max. 0.005 %
Sulfate ..... max. 0.003 %
Al ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
143402.0715	10 L

213402 Sodium Hydroxide solution 25 % technical grade

Specifications
Assay (titr.) ..... approx. 25 %

Code	Packaging
213402.0716	25 L

НеВаРеактив

Sodium Hydroxide solution 15 % w/w

CS 28151200
Index Nr. 011-002-00-6

Liquid

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

144222 Sodium Hydroxide solution 15 % w/w pure

Specifications
Assay (titr.) ..... approx. 15 %
Total N ..... max. 0.0003 %
Chloride ..... max. 0.002 %
Silicate ..... max. 0.005 %
Sulfate ..... max. 0.003 %
Al ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
144222.0715	10 L

Sodium Hydroxide solution 10 % w/w

CS 28151200
Index Nr. 011-002-00-6

Liquid

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

141688 Sodium Hydroxide solution 10 % w/w pure

Specifications
Assay (titr.) ..... approx. 10 %
Total N ..... max. 0.0003 %
Chloride ..... max. 0.005 %
Silicate ..... max. 0.005 %
Sulfate ..... max. 0.003 %
Al ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
141688.0716	25 L

Sodium Hydroxide 10 mol/l (10N)

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200

Density ..... 1.331 kg/l
Solubility ..... Soluble in water.
Liquid

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

183508 Sodium Hydroxide 10 mol/l (10N) volumetric solution

Indicator: Phenolphthalein

Specifications
Titer at 20 °C 0.99-1.01

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
183508.1211	1000 ml
183508.1214	5 l

Sodium Hydroxide 8 mol/l (8N)

CS 28151200
Index Nr. 011-002-00-6

Liquid

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

187063 Sodium Hydroxide 8 mol/l (8N) volumetric solution

Specifications
Factor limits 0.998-1.002

Code	Packaging
187063.1211	1 L

Sodium Hydroxide 5 mol/l (5N)

Soda lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density ..... 1.186 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

182159 Sodium Hydroxide 5 mol/l (5N) volumetric solution

Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182159.1211	1000 ml
182159.1214	5 l

Sodium Hydroxide 4 mol/l (4N)

Soda lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density ..... 1.153 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

183466 Sodium Hydroxide 4 mol/l (4N) volumetric solution

Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
183466.1211	1000 ml
183466.1214	5 l

НеВаРеактив

Sodium Hydroxide 2 mol/l (2N)

Soda lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density .....1.09 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

182158 Sodium Hydroxide 2 mol/l (2N) volumetric solution

Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182158.1211	1000 ml

Sodium Hydroxide 1.02 mol/l (1.02N)

Soda lye

HNaO
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density .....1.044 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

185528 Sodium Hydroxide 1.02 mol/l (1.02N) volumetric solution

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
185528.1315	10 l

Sodium Hydroxide 1 mol (40.00g NaOH) to prepare 1l of 1N solution

CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Liquid
Plastic or glass ampoules containing clear colourless liquid

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

303126 Sodium Hydroxide 1 mol (40.00g NaOH) to prepare 1l of 1N solution

Specifications
Titer at 20 °C 0.998-1.002

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
303126.1920	1 bottle

Sodium Hydroxide 1 mol/l (1N)

Soda lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density .....1.042 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

192415 Sodium Hydroxide 1 mol/l (1N) pharma grade

Indicator: Phenolphthalein

Specifications
Titer at 20 °C .....1.00 ± 0.01
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.002 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %

Carbonate (as $Na2CO_3$) .....1.0 %
Residual solvents (Ph. Eur./USP) .passes test
Heavy metals (as Pb) .....0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
Al .....0.002 %

As ..... 0.00004 %
Ca ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Hg ..... 0.00001 %
K ..... passes test
Mg ..... 0.005 %
Ni ..... 0.001 %
Pb ..... 0.001 %
This product has been manufactured with Sodium Hydroxide which passes the USP-NF, BP and Ph. Eur. specifications.

Code	Packaging
192415.1212	2.5 l

182415 Sodium Hydroxide 1 mol/l (1N) (Reag. USP) volumetric solution

Standardised against Potassium Hydrogen Phthalate. Indicator: Phenolphthalein

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
182415.1211	1000 ml
182415.1315	10 l

Sodium Hydroxide 1 mol/l (1N)

Soda lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density .....1.042 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

186982 Sodium Hydroxide 1 mol/l (1N) (Reag. Ph. Eur.) volumetric solution

Standardised against Hydrochloric Acid 1M. Indicator: Phenolphthalein

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
186982.1211	1000 ml
186982.0715	10 l

Sodium Hydroxide 1 mol/l (1N)

Soda lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density .....1.042 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

181691 Sodium Hydroxide 1 mol/l (1N) volumetric solution

Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181691.1211	1000 ml
181691.1212	2.5 l
181691.1214	5 l
181691.1315	10 l

Sodium Hydroxide solution (1 M)

Soda lye

CS 38220000
Index Nr. 011-002-00-6

Liquid

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Danger



H314

A6579 Sodium Hydroxide solution (1 M) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable

Composition:
NaOH ..... 40 g/L

Code	Packaging
A6579,1000	1 L

Sodium Hydroxide 0.5 mol/l (0.5N)

Caustic Soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density .....1.021 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

181692 Sodium Hydroxide 0.5 mol/l (0.5N) volumetric solution

Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181692.1211	1000 ml
181692.1315	10 l

Sodium Hydroxide 0.3546 mol/l (N/2.82)

Caustic Soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density .....1.015 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H319 H315

182156 Sodium Hydroxide 0.3546 mol/l (N/2.82) standard volumetric solution

Empiric Liquor for analysis of oils. Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182156.1211	1000 ml
182156.1315	10 l

Sodium Hydroxide 0.330 mol/l

Soda lye

CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density .....1.016 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Warning



H319 H315

184912 Sodium Hydroxide 0.330 mol/l volumetric solution

Specifications
Titer at 20 °C .....1.000 ± 0.001

Code	Packaging
184912.1211	1000 ml
184912.1315	10 l

НеваРеактив

Sodium Hydroxide 0.313 mol/l (0.313N)

Soda lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density .....1.016 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H319 H315

183337 Sodium Hydroxide 0.313 mol/l (0.313N) standard volumetric solution

for determination of raw fibre. Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
183337.1214	5 l

Sodium Hydroxide 0.25 mol/l (0.25N)

Caustic Soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density .....1.011 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H319 H315

182155 Sodium Hydroxide 0.25 mol/l (0.25N) standard volumetric solution

Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability ..... NIST

Code	Packaging
182155.1211	1000 ml
182155.1214	5 l
182155.1315	10 l

Sodium Hydroxide 0.2 mol/l (0.2N)

Soda lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density .....1.006 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H319 H315

182971 Sodium Hydroxide 0.2 mol/l (0.2N) standard volumetric solution

Indicator: Phenolphthalein

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
182971.1211	1000 ml
182971.0715	10 l

Sodium Hydroxide 0.1332 mol/l (0.1332N)

Soda lye

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density .....1.005 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H319 H315

624835 Sodium Hydroxide 0.1332 mol/l (0.1332N) VINIKIT for wine analysis

for determination of total acidity in wine and must

Specifications
Titer at 20 °C ..... 1.000 ± 0.001

Code	Packaging
624835.1211	1000 ml

Sodium Hydroxide 0.111 mol/l (0.111N) according to Dornic

Caustic Soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200

Density .....1.005 kg/l
Liquid
caustic, absorbs CO_2 from air

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

183154 Sodium Hydroxide 0.111 mol/l (0.111N) according to Dornic standard volumetric solution

for analysis of acidity in milk

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability ..... NIST

Code	Packaging
183154.1211	1000 ml
183154.1214	5 l
183154.1315	10 l

НеВаРеактив

Sodium Hydroxide 0,1 mol (4.000 g NaOH) to prepare 1l of 0.1N solution

CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Liquid
Plastic or glass ampoules containing clear colourless liquid

UN1824
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK nwg
Storage RT

Danger



H314

303125 Sodium Hydroxide 0.1 mol (4.000g NaOH) to prepare 1l of 0.1N solution

Specifications
Titer at 20 °C 0.998-1.002
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
303125.1920	1 bottle

Sodium Hydroxide 0.1 mol/l (0.1N)

Caustic Soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200

Density ..... 1.004 kg/l
Liquid

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

181694 Sodium Hydroxide 0.1 mol/l (0.1N) standard volumetric solution

Indicator: Phenolphthalein

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181694.1211	1000 ml
181694.1315	10 l

Sodium Hydroxide 0.1 mol/l (0.1N)

Caustic Soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200

Density ..... 1.004 kg/l
Liquid
absorbs CO_2 from air

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

181693 Sodium Hydroxide 0.1 mol/l (0.1N) standard volumetric solution

Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181693.1211	1000 ml
181693.1212	2.5 l
181693.1214	5 l
181693.0715	10 l
181693.1315	10 l

Sodium Hydroxide 0.05 mol/l (0.05N)

Caustic Soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200

Density ..... 1.003 kg/l
Liquid
absorbs CO_2 from air

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

182153 Sodium Hydroxide 0.05 mol/l (0.05N) standard volumetric solution

Indicator: Bromophenol Blue

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182153.1211	1000 ml

Sodium Hydroxide 0.02 mol/l (0.02N)

Caustic Soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200

Density ..... 1.000 kg/l
Liquid
absorbs CO_2 from air

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

183397 Sodium Hydroxide 0.02 mol/l (0.02N) standard volumetric solution

Indicator: Phenolphthalein

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
183397.1211	1000 ml

623397 Sodium Hydroxide 0.02 mol/l (0.02N) VINIKIT for wine analysis

for determination of real volatile acidity according to García-Tena. Indicator: Phenolphthalein

Specifications
Titer at 20 °C ..... 1.000 ± 0.001

Code	Packaging
623397.1210	500 ml

HEBAPEAKTMB

Printed on FSC® certified paper from well managed forests

Sodium Hydroxide 0.01 mol/l (0.01N)

Soda lye

CS 38220000
Index Nr. 011-002-00-6

Liquid

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H290

181845 Sodium Hydroxide 0.01 mol/l (0.01N) volumetric Solution

Specifications
Factor limits 0.998-1.002

Code	Packaging
181845.1211	1 L

621845 Sodium Hydroxide 0.01 mol/l VINIKIT for wine analysis

for determination of sulfurous gas (SO_2) in wine, according to Paul

Specifications
Titer at 20 °C ..... 1.000 ± 0.001

Code	Packaging
621845.1210	500 ml

Sodium Hydroxide N/4.9

Caustic Soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200
Index Nr. 011-002-00-6

Density ..... 1.007 kg/l
Liquid
absorbs CO_2 from air

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H319 H315

624782 Sodium Hydroxide N/4.9 VINIKIT for wine analysis

acidimetric liquor for determination of total acidity in wine and mustIndicator: Bromophenol Blue

Specifications
Titer at 20 °C ..... 1.000 ± 0.001

Code	Packaging
624782.1210	500 ml
624782.1211	1000 ml

Sodium Hydroxide N/49

Caustic Soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
EINECS 215-185-5
CS 28151200

Density ..... 1.001 kg/l
Liquid
absorbs CO_2 from air

UN1824
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

624785 Sodium Hydroxide N/49 VINIKIT for wine analysis

acidimetric liquor for determination of the volatile acidity in wine

Specifications
Titer at 20 °C ..... 1.000 ± 0.001

Code	Packaging
624785.1210	500 ml
624785.1211	1000 ml

Sodium Hydroxide 0.1 mol/l (0.1N) in ethanol volumetric solution

Caustic Soda

NaOH
M = 40.00 g/mol
CAS 1310-73-2
CS 38220000

Density ..... 0.852 kg/l
Liquid
absorbs CO_2 from air

UN2924
Class/PG 3(8)/II
ADR 3(8)/II · IMDG 3(8)/II · IATA 3(8)/II
WGK nwg
Storage RT

Danger



H225

182284 Sodium Hydroxide 0.1 mol/l (0.1N) in ethanol volumetric solution

Indicator: Phenolphthalein

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182284.1611	1000 ml

Sodium Hypochlorite solution 13 %

NaClO in H_2O
M = 74.45 g/mol
CAS 7681-52-9
CS 28289000
Index Nr. 017-011-00-1

Liquid

UN1791
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage < 20 °C

Danger



H314 H400 EUH31

213322 Sodium Hypochlorite solution 13 % technical grade

* The specification refers to the date of filling. Depending on the length of storage and temperature a decrease in the concentration of the active chlorine is expected

Specifications
Assay (active chlorine, iodometr.) ..... 10.0-14.0 %
NaCl ..... max. 11.5 %
NaClO ..... 10.0-14.0 %

Code	Packaging
213322.1214	5 L
213322.0715	10 L
213322.0716	25 L

Sodium Hypochlorite solution 10 % w/v

NaClO
M = 74.44 g/mol
CAS 7681-52-9
EINECS 231-668-3
CS 28289000
Index Nr. 017-011-00-1

Density .....1.18 kg/l
Solubility .....Miscible with water
Liquid

UN1791
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Danger



EUH031 H314

211921 Sodium Hypochlorite solution 10 % w/v technical grade

Specifications
Assay (Iodom.) ..... 10 %*
* At the moment of the batch analysis.

Code	Packaging
211921.1211	1000 ml
211921.1214	5 l
211921.0716	25 l

Sodium Hypochlorite solution 7 ± 2 % w/w (as active chlorine)

NaClO
M = 74.44 g/mol
CAS 7681-52-9
EINECS 231-668-3
CS 28289000

Density .....1.15 kg/l
Solubility ..... Soluble in water.
Liquid

UN1791
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Warning



EUH031 H319 H315

122967 Sodium Hypochlorite solution (7+-2 % w/w as active chlorine) for analysis

Specifications
Assay (as Cl2) (Iodom.) (w/w) .....5-9 %*

Maximum limit of impurities
Alkalinity .....1.8 %

Metals by ICP [in mg/Kg (ppm)]
Cd.....10 Cr.....10
Cu.....10 Hg.....10
Mn.....10 Ni.....10
Zn.....10
* At the moment of the batch analysis.

Code	Packaging
122967.1211	1000 ml

Sodium Hypochlorite solution 5 % w/v

NaClO
M = 74.44 g/mol
CAS 7681-52-9
EINECS 231-668-3
CS 28289000
Index Nr. 017-011-00-1

Density .....1.12 kg/l
Solubility .....Miscible with water
Liquid

UN1791
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Warning



EUH031 H319 H315

212297 Sodium Hypochlorite solution 5 % w/v technical grade

Specifications
Assay (Iodom.) ..... 5 %*
* At the moment of the batch analysis.

Code	Packaging
212297.1211	1000 ml
212297.1214	5 l

Sodium Hypochlorite solution 4 %

$NaClO$ in H_2O
M = 74.45 g/mol
CAS 7681-52-9
CS 28289000
Index Nr. 017-011-00-1

Liquid

Storage < 20 °C

217135 Sodium Hypochlorite solution 4 % technical grade

* The specification refers to the date of filling. Depending on the length of storage and temperature a decrease in the concentration of the active chlorine is expected

Specifications
Active Chlorine .....approx. 4 %
NaCl ..... max. 4.5 %
NaClO .....approx. 4.5 %

Code	Packaging
217135.1214	5 L

Sodium Hypodisulfite see Sodium Dithionite

Sodium Hyposulfite see Sodium Thiosulfate anhydrous

Sodium Iodate

$NaIO_3$
M = 197.89 g/mol
CAS 7681-55-2
EINECS 231-672-5
CS 28299080

Solubility ..... water 81 g/l at 20 °C
Solid

UN1479
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 1
Storage RT

Danger



H272

122338 Sodium Iodate for analysis

Specifications
Minimum assay (Iodom.) .....99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 130 °C .....0.1 %
Nitrogen compounds (as N) .....0.003 %
Sulfate (SO_4) .....0.005 %
Iodide (I) .....0.001 %
Bromate, bromide, chlorate and chloride (as Cl) .....0.02 %
Cu .....0.0005 %
Fe .....0.001 %
K .....0.01 %
Ni .....0.0005 %
Pb .....0.0005 %

Code	Packaging
122338.1214	5 kg

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Sodium Iodide

NaI
M = 149.89 g/mol
CAS 7681-82-5
EINECS 231-679-3
CS 28276000

Melting Point ..... 662 °C
Boiling Point ..... 1300 °C
Solubility ..... 1790 g/L (H_2O)
Solid

WGK 1
Storage RT

Warning



H400

131726 Sodium Iodide for analysis, ACS

Specifications
Minimum assay (Arg.) ..... 99.5 %
pH of 5 % solution 6.0-9.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
Chloride and bromide (as Cl) ..... 0.01 %
Iodate (IO_3) ..... 0.0003 %
Heavy metals (as Pb) ..... 0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ba..... 20 Ca 20
Fe..... 5 K..... 100
Mg..... 10

Code	Packaging
131726.1609	250 g
131726.1611	1000 g
131726.1214	5 kg

191726 Sodium Iodide (Ph. Eur., USP) pharma grade

Specifications
Assay (titr., dried subst.) ..... 99.0-100.5 %
Alkaline reacting subst. ..... passes test
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 3.0 %
Water (K.F.) ..... max. 2.0 %
Iodate (Ph. Eur.) ..... passes test
Iodate (USP) ..... max. 0.0004 %
Nitrate, Nitrite, Ammonium ..... passes test
Sulfate ..... max. 0.015 %
Thiosulfate (Ph. Eur.) ..... passes test
Thiosulfate and Ba (USP) ..... passes test
Fe ..... max. 0.002 %
K ..... passes test

Code	Packaging
191726.1210	500 g
191726.1211	1 kg
191726.1214	5 kg

141726 Sodium Iodide pure

Specifications
Assay (Arg.) ..... 98 %
pH of 5 % solution 6.0-9.2
Insoluble matter in H_2O ..... 0.025 %
Nitrogen compounds (as N) ..... 0.005 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Chloride and bromide (as Cl) ..... 0.05 %
As ..... 0.0003 %
Cu ..... 0.002 %
Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141726.1609	250 g
141726.1610	500 g

Sodium Iodoacetate see Iodoacetic Acid Sodium Salt

Sodium L(+)-Ascorbate

L(+)-Ascorbic Acid Sodium Salt, Vitamin C SodiumSalt

$C_6H_7NaO_6$
M = 198.11 g/mol
CAS 134-03-2
EINECS 205-126-1
CS 29362700

Melting Point ..... 218 °C
Solubility ..... water 620 g/l at 20 °C
Solid

WGK 1
Storage RT

143865 Sodium L(+)-Ascorbate (USP) pure, pharma grade

Specifications
Assay (Iodom.) calc. a.d.s. ..... 99.0-101.0 %
Identity according to Pharmacopoeias: ..... passes test
pH of 10 % solution 7.0-8.0
Specific rotation α 20/D c=10 (in H_2O) ..... 103-108°

Maximum limit of impurities
Loss on drying at 60 °C ..... 0.25 %
Residual solvents (Ph. Eur./USP) ..... passes test
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1.300 ppm
Cd ..... 0,00005 %
Hg ..... 0,00015 %

Code	Packaging
143865.1211	1000 g

203865 Sodium L(+)-Ascorbate (E-301, F.C.C) food grade

Specifications
Assay (as $C_6H_7NaO_6$) (a.d.s.) ..... 99.0-101.0 %
pH of 10 % solution 6.5-8.0
Specific rotation α n20/D ..... 103-106°
Loss on drying, not more than ..... 0.25 %
Arsenic (as As), not more than ..... 3 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Heavy metals (as Pb), not more than ..... 0.001 %
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
203865.1214	5 kg

Sodium L-Glutamate 1-hydrate

(S)-(+)-2-Aminoglutaric Acid mono-Sodium Salt, (S)-Glutamic Acid mono-Sodium Salt

$NaCOOHCOONH_2CH(CH_2)_2 \cdot H_2O$
M = 187.13 g/mol
CAS 6106-04-3
EINECS 205-538-1
CS 29224200

Melting Point ..... 225-240 °C
Solubility ..... Soluble in water.
Solid

WGK 2
Storage RT

141683 Sodium L-Glutamate 1-hydrate (USP-NF) pure, pharma grade

Specifications
Assay (Perchl. Ac.) ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test
pH of 5 % solution 6.7-7.2
Specific rotation α n20/D c=10 (in HCl 2 mol/l) ..... 24.8-25.3°

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.05 %
Loss on drying at 100 °C ..... 0.5 %
Chloride (Cl) ..... 0.2 %
Sulfate (SO_4) ..... 0.05 %
Clarity and colour of solution ..... passes test
Residual solvents (Ph. Eur./USP) ..... passes test
Heavy metals (as Pb) ..... 0.001 %
As ..... 0,00015 %
Cu ..... 0,001 %
Fe ..... 0,001 %
Ni ..... 0,001 %
Pb ..... 0,001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141683.1210	500 g
141683.0914	5 kg

L(+)-Sodium Lactate crystalline

L(+)-Lactic Acid Sodium Salt

$C_3H_5NaO_3$
M = 112.06 g/mol
CAS 867-56-1
EINECS 212-762-3
CS 29181100

Solid

Storage 2-8 °C

A1004 L(+)-Sodium Lactate crystalline BioChemica

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 1 %, H_2O ..... -12 to -13°
Heavy metals ..... max. 0.0005 %
Solubility (H_2O) ..... readily soluble
Water (K.F.) ..... max. 1.0 %

Code	Packaging
A1004,0010	10 g
A1004,0050	50 g
A1004,0100	100 g

Sodium Lactate solution 50 % w/w

2-Hydroxypropanoic Acid Sodium Salt

$C_3H_5NaO_3$
M = 112.06 g/mol
CAS 72-17-3
EINECS 200-772-0
CS 29181100

Boiling Point ..... ~ 110 °C
Density ..... 1.272 kg/l
Liquid

WGK 1
Storage RT

143307 Sodium Lactate solution 50 % w/w (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Minimum assay (Perchl. Ac.) ..... 50.0 %
Identity according to Pharmacopoeias: ..... passes test
pH 6.5-9.0

Maximum limit of impurities
Appearance of solution ..... passes test
Sugars Reducing ..... passes test
Chloride (Cl) ..... 0.0025 %
Sulfate (SO_4) ..... 0.005 %
Sulfate (SO_4) (USP) ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Citrate, Oxalate, Phosphate or Tartrate ..... passes test
Methanol and methyl esters ..... 0.025 %
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0003 %
Ba ..... passes test
Fe ..... 0.0005 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
143307.1211	1000 ml

Sodium meta-Periodate

Sodium Metaperiodate, Sodium Tetroxoiodate(VII), Sodium Periodate

$NaIO_4$
M = 213.89 g/mol
CAS 7790-28-5
EINECS 232-197-6
CS 28299080

Melting Point ..... 175 °C (dec.)
Boiling Point ..... 300 °C
Solid

UN1479
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 1
Storage RT

Danger



H271

131700 Sodium meta-Periodate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Iodom.) (a.d.s.) ..... 99.8-100.3 %
pH sol. 0.5 % 4.5-5.5

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 110 °C ..... 0.05 %
Sulfate (SO_4) ..... 0.01 %
Iodide (I) ..... 0.001 %
Bromide, chlorate and chloride (as Cl) ..... 0.02 %
Ca ..... 0.01 %
Mg ..... 0.002 %
Mn ..... 0.0003 %

Code	Packaging
131700.1208	100 g
131700.1209	250 g
131700.1214	5 kg

211700 Sodium meta-Periodate technical grade

Specifications
Assay (Iodom.) (a.d.s.) ..... 99.5 %
Insoluble matter in H_2O ..... 0.05 %
Iodide (I) ..... 0.002 %
Bromide, chlorate and chloride (as Cl) ..... 0.05 %

Code	Packaging
211700.1211	1000 g

A3806 Sodium meta-Periodate for analysis

Specifications
Assay (titr.) ..... min. 99.0 %
Heavy metals (as Pb) ..... max. 0.001 %
Chloride, Chlorate, Bromide, Bromate (as Cl) ..... max. 0.01 %
Sulfate ..... max. 0.005 %
Mn ..... max. 0.0003 %

Code	Packaging
A3806,0050	50 g
A3806,0250	250 g

Sodium Metabisulfite see Sodium Disulfite

Sodium metal, sticks

Na
M = 22.99 g/mol
CAS 7440-23-5
EINECS 231-132-9
CS 28051100
Index Nr. 011-001-00-0

Melting Point ..... 97.82 °C
Boiling Point ..... 881.4 °C
Solid
Silvery white metal, turns gray on exposure to air

UN1428
Class/PG 4.3/I
ADR 4.3/I · IMDG 4.3/I · IATA 4.3/I
WGK 2
Storage RT

Danger



EUH014 H260 H314

141699 Sodium metal, sticks pure

Specifications
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Fe ..... 0.005 %

Code	Packaging
141699.0308	100 g
141699.0310	500 g

Sodium Molybdate 2-hydrate

$Na_2MoO_4 \cdot 2H_2O$
M = 241.95 g/mol
CAS 10102-40-6
EINECS 231-551-7
CS 28417000

Solubility ..... 840 g/L (H_2O)
Solid

Storage RT

131701 Sodium Molybdate 2-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Compl.) ..... 99.5-103.0 %
pH of 5 % solution 7.0-10.5

Maximum limit of impurities
Appearance ..... passes test
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.005 %
Ammonium (NH_4) ..... 0.001 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.015 %
Identification ..... positive
Nitrate (NO_3) ..... 0.005 %
Heavy metals (as Pb) ..... 0.0005 %
Ca ..... 0.001 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.05 %
Mg ..... 0.001 %
Mn ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131701.1209	250 g
131701.1211	1000 g

141701 Sodium Molybdate 2-hydrate pure

Specifications
Assay (Compl.) (calc. a.a.s) ..... 98.0-100.5 %
pH of 5 % solution 7.0-10.5
Insoluble matter in H_2O ..... 0.02 %
Loss on drying at 140 °C ..... 14.0-16.0 %
Chloride (Cl) ..... 0.005 %
Ammonium (NH_4) ..... 0.001 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.05 %
Heavy metals (as Pb) ..... 0.001 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141701.1208	100 g
141701.1209	250 g
141701.1211	1000 g
141701.0416	25 kg

211701 Sodium Molybdate 2-hydrate technical grade

Specifications
Assay (titr.) ..... min. 96 %
Chloride ..... max. 0.01 %

Code	Packaging
211701.1211	1 kg
211701.1214	5 kg

A2193 Sodium Molybdate 2-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
pH (5 %; H_2O; 20 °C) 7.0-10.0
Ammonium ..... max. 0.001 %
Chloride ..... max. 0.005 %
Phosphate ..... max. 0.001 %
Sulfate ..... max. 0.005 %

Code	Packaging
A2193,0025	25 g
A2193,0100	100 g
A2193,0250	250 g

Sodium N-Chlorotoluene-4-Sulfonamide see Chloramine T 3-hydrate

Sodium Nitrate

$NaNO_3$
M = 84.99 g/mol
CAS 7631-99-4
EINECS 231-554-3
CS 31025090

Melting Point ..... 309 °C
Solubility ..... water 880 g/l at 20 °C
Solid

UN1498
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage RT

Danger



H272

131702 Sodium Nitrate (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay ..... 99.0 %
pH of 5 % solution 5.5-8.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Chloride (Cl) ..... 0.001 %
Ammonium (NH_4) ..... 0.001 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.002 %
Nitrite (NO_2) ..... 0.001 %
Iodate (IO_3) ..... 0.0005 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00004 %
Ca ..... 0.005 %
Cd ..... 0.0002 %
Co ..... 0.0002 %
Cu ..... 0.0002 %
Fe ..... 0.0002 %
K ..... 0.005 %
Mg ..... 0.001 %
Mn ..... 0.0002 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131702.1210	500 g
131702.1211	1000 g
131702.1214	5 kg
131702.0416	25 kg

141702 Sodium Nitrate pure

Specifications
Assay ..... 99 %
pH of 5 % solution 5.0-8.0
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.005 %
Ammonium (NH_4) ..... 0.005 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.01 %
Heavy metals (as Pb) ..... 0.002 %
As ..... 0.0002 %
Ca ..... 0.005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Mg ..... 0.005 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141702.1211	1000 g
141702.1214	5 kg
141702.0416	25 kg

201702 Sodium Nitrate (E-251, F.C.C.) food grade

Specifications
Assay (as $NaNO_3$)
after drying ..... 99.0-100.5 %
pH of 5 % solution 5.5-8.3
Loss on drying, not more than ..... 1 %
Chlorine Total (approx. 0.2 %) ..... passes test
Nitrite (as $NaNO_2$), not more than ..... 30 ppm
Arsenic (as As), not more than ..... 3 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 2 ppm

Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201702.1214	5 kg
201702.0416	25 kg

HebaPeaktnb

Sodium Nitrite

$NaNO_2$
M = 69.00 g/mol
CAS 7632-00-0
EINECS 231-555-9
CS 28341000
Index Nr. 007-010-00-4

Melting Point ..... 271 °C
Solubility ..... water 820 g/l at 20 °C
Solid

UN1500
Class/PG 5.1(6.1)/III
ADR 5.1(6.1)/III · IMDG 5.1(6.1)/III · IATA 5.1(6.1)/III
WGK 2
Storage between 20 and 25 °C

Danger



H272 H330 H400

131703 Sodium Nitrite (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Perm.) ..... 98.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Chloride (Cl) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %
As ..... 0.00004 %
Heavy metals (as Pb) ..... 0.001 %

Metals by ICP [in mg/Kg (ppm)]

Al	5	Au	5	Li	5
B	5	Ba	5	Mg	25
Be	5	Bi	5	Mn	5
Ca	25	Cd	5	Mo	5
Co	5	Cr	5	Ni	10
Cu	10	Fe	10	Pb	10
Ga	5	Ge	5	Sb	5
Hg	5	K	50	Si	5
				Sn	5
				Sr	5
				Ti	5
				Tl	5
				V	5
				Zn	10

Code	Packaging
131703.1210	500 g
131703.1211	1000 g
131703.0416	25 kg

141703 Sodium Nitrite (USP) pure, pharma grade

Specifications
Assay (Perm.) calc. a.d.s. ..... 97.0-101.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.025 %
Loss on drying ..... 0.25 %

Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0002 %
Ca ..... 0.01 %
Mg ..... 0.01 %
Pb ..... 0.002 %

Code	Packaging
141703.1210	500 g
141703.1211	1000 g
141703.1214	5 kg

Sodium Nitroferricyanide see Sodium Pentacyanonitrosoferrate(III) 2-hydrate

Sodium Nitroprusside see Sodium para-Periodate

Sodium ortho-Vanadate

Na_3VO_4
M = 183.9 g/mol
CAS 13721-39-6
CS 28419030

Melting Point ..... 850-866 °C
Solid

WGK 3
Storage RT

Warning



H302+H312+H332

A2196 Sodium ortho-Vanadate BioChemica

Specifications
Assay (titr.) ..... min. 98 %

Code	Packaging
A2196,0005	5 g
A2196,0010	10 g
A2196,0025	25 g

di-Sodium Oxalate

Oxalic Acid Sodium Salt

$(NaCOO)_2$
M = 134.00 g/mol
CAS 62-76-0
EINECS 200-550-3
CS 29171100
Index Nr. 607-007-00-3

Solubility ..... water 37 g/l at 20 °C
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage RT

Warning



H312 H302

131706 di-Sodium Oxalate (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Perm.) ..... 99.5 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Darkened substances by H_2SO_4 ..... passes test

Loss on drying at 105 °C ..... 0.01 %
Chloride (Cl) ..... 0.002 %
Ammonium (NH_4) ..... 0.002 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.002 %
Neutrality ..... passes test
Heavy metals (as Pb) ..... 0.002 %

Cu ..... 0.001 %
Fe ..... 0.001 %
K ..... 0.005 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
131706.1210	500 g
131706.1211	1000 g
131706.0416	25 kg

141706 di-Sodium Oxalate pure

Specifications
Assay (Perm.) ..... 98 %
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.01 %

Ammonium (NH_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Cu ..... 0.003 %
Fe ..... 0.003 %

Ni ..... 0.003 %
Pb ..... 0.003 %

Code	Packaging
141706.1210	500 g

Sodium para-Periodate

Sodium Paraperiodate

$Na_3H_2IO_6$
M = 293.89 g/mol
CAS 13940-38-0
EINECS 237-720-1
CS 28299080

Solubility ..... Insoluble in water
Solid

UN1479
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 3
Storage RT

Danger



H272

121672 Sodium para-Periodate for analysis

Specifications
Minimum assay (Iodom.) ..... 99 %

Maximum limit of impurities
Insoluble matter in HNO_3 ..... 0.01 %
Loss on drying at 110 °C ..... 0.2 %
Sulfate (SO_4) ..... 0.01 %

Iodide (I) ..... 0.001 %
Bromide, chlorate and chloride (as Cl) ..... 0.01 %
Mn ..... 0.0005 %

Code	Packaging
121672.1214	5 kg

di-Sodium Penta-Cyanonitrosylferrate(III) see Sodium para-Periodate

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

Sodium Pentacyanonitrosoferrate(III) 2-hydrate

Disodium Pentakis(cyano-C)Nitrosylferrate (2-), Sodium Nitroferricyanide, Sodium Nitroprussiate, Sodium Nitroprusside

$Na_2Fe(CN)_5NO \cdot 2H_2O$
M = 297.95 g/mol
CAS 13755-38-9
EINECS 238-373-9
CS 28372000

Solubility ..... water 400 g/l at 20 °C
Solid

UN1588
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H301

131705 Sodium Pentacyanonitrosoferrate(III) 2-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Arg.) ..... 99.0-102.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %

Hexacyanoferrate (II) [Fe(CN)6]4- ..... 0.02 %
Hexacyanoferrate (III) [Fe(CN)6]3- ..... 0.01 %
Ca ..... 0.001 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.005 %
Cu ..... 0.0005 %

K ..... 0.3 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.005 %

Code	Packaging
131705.1206	25 g
131705.1208	100 g

121705 Sodium Pentacyanonitrosoferrate(III) 2-hydrate for analysis

Specifications
Minimum assay (Arg.) ..... 99.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %

Hexacyanoferrate (II) [Fe(CN)6]4- ..... 0.02 %
Hexacyanoferrate (III) [Fe(CN)6]3- ..... 0.02 %

Code	Packaging
121705.1208	100 g
121705.1210	500 g

Sodium Perborate 1-hydrate

$NaBO_3 \cdot H_2O$
M = 99.81 g/mol
CAS 10332-33-9
EINECS 239-172-9
CS 28403000

Melting Point ..... 63 °C
Solubility ..... water 23 g/l at 20 °C
Solid

UN3377
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 3
Storage RT

Danger



H360D H271 H302 H335 H318 H361f

144260 Sodium Perborate 1-hydrate pure

Specifications
Assay (as oxygen) ..... 15.0 %
Chloride (Cl) ..... 0.033 %

Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0008 %
Fe ..... 0.008 %

Code	Packaging
144260.0416	25 kg

Sodium Perborate 4-hydrate

$NaBO_3 \cdot 4H_2O$
M = 153.86 g/mol
CAS 10486-00-7
EINECS 231-556-4
CS 28403000
Index Nr. 005-018-01-X

Melting Point ..... 65 °C
Solubility ..... water 23.4 g/l at 20 °C
Solid

WGK 1
Storage RT

Danger



H318 H302 H335 H360Df H331 H272

145642 Sodium Perborate 4-hydrate (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Perm.) ..... 96.0-103.0 %
Identity according to Pharmacopoeias: ..... passes test
pH sol. 1 % 10.2-10.6

Maximum limit of impurities
Chloride (Cl) ..... 0.01 %

Sulfate (SO_4) ..... 1.2 %
Residual solvents (Ph. Eur.) ..... passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm

Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
Ag ..... 0.001 %
As ..... 0.0008 %
Bi ..... 0.027 %
Cd ..... 0.001 %
Fe ..... 0.002 %

Code	Packaging
145642.1211	1000 g
145642.0416	25 kg

Sodium Perchlorate 1-hydratee

$NaClO_4 \cdot H_2O$
M = 140.46 g/mol
CAS 7791-07-3
EINECS 231-511-9
CS 28299010
Index Nr. 017-010-00-6

Solubility ..... water 2,090 g/l at 20 °C
Solid

UN1502
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 1
Storage RT

Danger



H271 H302

134387 Sodium Perchlorate 1-hydrate (Reag. USP) for analysis, ACS

Specifications
Assay (Arg.) ..... 98.0-102.0 %
pH of 5 % solution 6.0-8.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.003 %
Nitrogen compounds (as N) ..... 0.001 %

Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.002 %
Chlorate (ClO_3) ..... 0.05 %
Heavy metals (as Pb) ..... 0.0005 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %

Fe ..... 0.0005 %
K ..... 0.01 %
Mg ..... 0.005 %
Mn ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
134387.1209	250 g
134387.1210	500 g
134387.1211	1000 g

Sodium Periodate see Sodium meta-Periodate

НеВаРеактив

Sodium Peroxide granulated

Sodium Dioxide, Sodium Superoxide

Na_2O_2
M = 77.98 g/mol
CAS 1313-60-6
EINECS 215-209-4
CS 28153000
Index Nr. 011-003-00-1

Melting Point ..... 460 °C
Solubility ..... water 100 g/l at 20 °C
Solid

UN1504
Class/PG 5.1/I
ADR 5.1/I · IMDG 5.1/I · IATA 5.1/I
WGK 1
Storage RT

Danger



H272 H314

131708 Sodium Peroxide granulated for analysis, ACS

Specifications
Minimum assay (Perm.) ..... 95.0 %

Maximum limit of impurities
Chloride (Cl) ..... 0.002 %
Nitrogen compounds (as N) ..... 0.003 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.001 %
Heavy metals (as Pb) ..... 0.002 %
Cd ..... 0.001 %
Co ..... 0.001 %
Cr ..... 0.001 %
Cu ..... 0.001 %
Fe ..... 0.002 %
K ..... 0.05 %
Ni ..... 0.001 %
Pb ..... 0.001 %
Zn ..... 0.001 %

Code	Packaging
131708.1209	250 g

121708 Sodium Peroxide granulated for analysis

Specifications
Minimum assay (Perm.) ..... 95.0 %

Maximum limit of impurities
Chloride (Cl) ..... 0.002 %
Nitrogen compounds (as N) ..... 0.003 %
Phosphate (PO_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.005 %
Heavy metals (as Pb) ..... 0.002 %
Cd ..... 0.002 %
Co ..... 0.002 %
Cr ..... 0.002 %
Cu ..... 0.002 %
Fe ..... 0.002 %
K ..... 0.05 %
Ni ..... 0.002 %
Pb ..... 0.002 %
Zn ..... 0.005 %

Code	Packaging
121708.1209	250 g
121708.1211	1000 g
121708.1214	5 kg

161708 Sodium Peroxide, 95 % granulated for synthesis

Specifications
Minimum assay (Perm.) ..... 95 %

Code	Packaging
161708.1208	100 g

Sodium Peroxodisulfate

Sodium Peroxydisulphate, Sodium Persulphate

$Na_2S_2O_8$
M = 238.09 g/mol
CAS 7775-27-1
EINECS 231-892-1
CS 28334000

Solubility ..... water 556 g/l at 20 °C
Solid

UN1505
Class/PG 5.1/III
ADR 5.1/III · IMDG 5.1/III · IATA 5.1/III
WGK 1
Storage RT

Danger



H272 H302 H334 H317

143396 Sodium Peroxodisufate pure

Specifications
Assay (Iodom.) ..... 98 %*
Insoluble matter in H_2O ..... 0.05 %
Clhorine compounds (as Cl) ..... 0.05 %
Ca ..... 0.01 %
Cu ..... 0.002 %
Fe ..... 0.002 %
Mg ..... 0.01 %
Ni ..... 0.002 %
Pb ..... 0.002 %
* At the moment of the batch analysis.

Code	Packaging
143396.1210	500 g
143396.1211	1000 g
143396.1214	5 kg

Sodium Peroxydisulfate see Sodium Peroxodisulfate

Sodium Persulfate see Sodium Peroxodisulfate

tri-Sodium Phosphate 12-hydrate

Sodium Phosphate tertiary, Sodium Phosphate tri-Basic

$Na_3PO_4 \cdot 12H_2O$
M = 380.12 g/mol
CAS 10101-89-0
EINECS 231-509-8
CS 28352930

Solubility ..... water 258 g/l at 20 °C
Solid

WGK 1
Storage RT

131680 tri-Sodium Phosphate 12-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Acidim.) ..... 98.0-102.0 %

Maximum limit of impurities
Alkalinity ..... 2.5 %
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.001 %
Sulfate (SO_4) ..... 0.01 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0005 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131680.1210	500 g
131680.1211	1000 g
131680.0914	5 kg
131680.0416	25 kg

141680 tri-Sodium Phosphate 12-hydrate pure

Specifications
Assay (Acidim.) ..... 98 %
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.005 %
Nitrogen compounds (as N) ..... 0.005 %
Sulfate (SO_4) ..... 0.03 %
As ..... 0.0005 %
Cu ..... 0.002 %
Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141680.1211	1000 g

201680 tri-Sodium Phosphate 12-hydrate (E-339iii, F.C.C.) food grade

Specifications
Assay ($Na3PO_4$) calc.
on ignited basis, not less than ..... 92.0 %
pH sol. 1 % 11.5-12.0
Insoluble substances,
not more than ..... 0.2 %
P_2O_5 content (a.a.s.) ..... 40.5-43.5 %
Loss on ignition ..... 45.0-57.0 %
Fluoride, not more than ..... 10 ppm
Arsenic (as As), not more than ..... 1 ppm
Cadmium, not more than ..... 1 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 1 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201680.1211	1000 g
201680.0416	25 kg

Sodium Phosphate di-Basic see di-Sodium Hydrogen Phosphate anhydrous

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

Sodium Phosphate mono-Basic see Sodium di-Hydrogen Phosphate 1-hydrate

Sodium Plumbite solution (Doctor solution)

CS 38220000

Density .....1.143 kg/l
Liquid

UN3266
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
Storage RT

Danger



H314 H360Df H332 H302 H373 H411

175506 Sodium Plumbite solution (Doctor solution)

sulphide reagent

Specifications
Suitability: as sulphide reagent .....passes test

Code	Packaging
175506.1211	1000 ml

Sodium Polymeta-Phosphate see Sodium Polyphosphate

Sodium Polyphosphate

Graham™ Salt, Sodium Hexa meta-Phosphate, SodiumPolymeta-Phosphate

$(NaPO_3)_n$
CAS 50813-16-6
EINECS 233-343-1
CS 28353900

Melting Point .....628 °C
Solubility ..... Soluble in water.
Solid

WGK 1
Storage RT

141684 Sodium Polyphosphate pure

Specifications
Assay (as P_2O_5) (Acidim.) ..... 65-70 %
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) ..... 0.03 %
Sulfate (SO_4) .....0.1 %
As .....0.0002 %
Cu .....0.0025 %
Fe .....0.01 %
Ni ..... 0.0025 %
Pb ..... 0.0025 %

Code	Packaging
141684.1211	1000 g
141684.0416	25 kg

tetra-Sodium Pyrophosphate 10-hydrate

Sodium Pyrophosphate, tetra-Sodium Diphosphate, TSPP

$Na_4P_2O_7 \cdot 10H_2O$
M = 446.06 g/mol
CAS 13472-36-1
EINECS 231-767-1
CS 28353900

Melting Point ..... 79 °C
Solubility ..... water 62.3 g/l at 20 °C
Solid

Storage RT

121710 tetra-Sodium Pyrophosphate 10-hydrate for analysis

Specifications
Minimum assay (Acidim.) ..... 99.0 %
pH of 5 % solution 9.5-10.7

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Chloride (Cl) .....0.005 %
Sulfate (SO_4) .....0.005 %
Carbonate .....passes test
Nitrate (NO_3) .....0.003 %
As .....0.0003 %
Ca .....0.01 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Mg ..... 0.01 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
121710.1211	1000 g
121710.0416	25 kg

141710 tetra-Sodium Pyrophosphate 10-hydrate pure

Specifications
Assay (Acidim.) ..... 98 %
pH of 5 % solution 9.5-10.7
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) .....0.05 %
Nitrate (NO_3) .....0.01 %
As .....0.001 %
Ca .....0.05 %
Cu .....0.003 %
Fe ..... 0.003 %
Mg ..... 0.05 %
Ni ..... 0.003 %
Pb ..... 0.003 %

Code	Packaging
141710.0416	25 kg

201710 tetra-Sodium Pyrophosphate 10-hydrate (E-450iii, F.C.C.) food grade

Specifications
Assay ($Na4P_2O_7$), calc.
on the ignited basis ..... 95.0-100.5 %
pH 1 % 9.9-10.7
Insoluble substances, not more than ..... 0.2 %
Loss on ignition .....38.0-42.0 %
P_2O_5 content calculated
on ignited basis .....52.5-54.0 %
Fluoride, not more than ..... 10 ppm
Arsenic (as As), not more than ..... 1 ppm
Cadmium, not more than ..... 1 ppm
Mercury, not more than ..... 1 ppm
Lead, not more than .....1 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201710.0416	25 kg

tetra-Sodium Pyrophosphate anhydrous

Sodium Pyrophosphate, tetra-Sodium Diphosphate, TSPP

$Na_4P_2O_7$
M = 265.91 g/mol
CAS 7722-88-5
EINECS 231-767-1
CS 28353900

Melting Point ..... 988 °C
Solubility ..... water 67 g/l at 25 °C
Solid

Storage RT

141711 tetra-Sodium Pyrophosphate anhydrous pure

Specifications
Assay (Acidim.) ..... 99 %
pH of 5 % solution 9.5-10.7
Insoluble matter in H_2O ..... 0.05 %
Chloride (Cl) ..... 0.1 %
Nitrate (NO_3) .....0.02 %
As .....0.001 %
Ca .....0.1 %
Cu .....0.003 %
Fe .....0.003 %
Mg .....0.1 %
Ni ..... 0.003 %
Pb ..... 0.003 %

Code	Packaging
141711.0416	25 kg

Sodium Pyrosulfite see Sodium Disulfite

НеВаРеактив

Sodium Pyruvate

Pyruvic Acid Sodium Salt

$C_3H_3NaO_3$
M = 110.05 g/mol
CAS 113-24-6
EINECS 204-024-4
CS 29183000

Solid

WGK 1
Storage RT

A4859 Sodium Pyruvate for cell culture

Specifications
Pyrogen test ..... passes test
Assay (titr.) .....min. 99 %
Loss on drying .....max. 0.5 %
pH (10 %; H_2O) 5.5-6.5
Chloride .....max. 0.002 %
Sulfate .....max. 0.002 %
As ..... max. 0.0001 %
Pb .....max. 0.001 %

Code	Packaging
A4859,0050	50 g
A4859,0100	100 g
A4859,0500	500 g
A4859,1000	1 kg
A4859,9010	10 kg
A4859,9025	25 kg

A3912 Sodium Pyruvate BioChemica

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) .....max. 0.001 %
Insoluble matter ..... passes test
Loss on drying .....max. 0.5 %
pH (10 %; H_2O) 5.5-6.5
Chloride ..... max. 0.002 %
Sulfate ..... max. 0.002 %

Code	Packaging
A3912,0100	100 g
A3912,0250	250 g
A3912,1000	1 kg

A1530 Sodium Pyruvate for analysis

Specifications
Assay (titr.) .....min. 99 %
Loss on drying .....max. 0.5 %
pH (10 %; H_2O) 5.5-6.5
Chloride .....max. 0.002 %
Sulfate .....max. 0.002 %
As ..... max. 0.0001 %
Pb ..... max. 0.001 %

Code	Packaging
A1530,0100	100 g
A1530,0500	500 g
A1530,1000	1 kg
A1530,9025	25 kg

Sodium Salicylate

2-Hydroxybenzoic Acid Sodium Salt, Salicylic Acid Sodium Salt, Sodium 2-Hydroxybenzoate

$C_7H_5NaO_3$
M = 160.11 g/mol
CAS 54-21-7
EINECS 200-198-0
CS 29182100

Melting Point ..... 200 °C
Solubility ..... water 1,000 g/l at 20 °C
Solid

WGK 1
Storage away from direct light.

Warning



H302

121859 Sodium Salicylate for analysis

Specifications
Minimum assay (Perchl. Ac.) (a.d.s.) ...99.5 %
Identity .....IR passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O .....0.02 %
Loss on drying at 105 °C ..... 0.3 %
Chloride (Cl) ..... 0.004 %
Sulfate (SO_4) ..... 0.06 %
Heavy metals (as Pb) ..... 0.001 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu .....0.0005 %
Fe .....0.001 %
Mg .....0.001 %
Ni .....0.0005 %
Pb .....0.0005 %
Zn .....0.0005 %

Code	Packaging
121859.1209	250 g
121859.1211	1000 g

141859 Sodium Salicylate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Perchl. Ac.) calc.
a.d.s. ..... 99.5-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity ..... passes test
Insoluble matter in H_2O ..... passes test
Loss on drying at 105 °C ..... 0.5 %
Chloride (Cl) ..... 0.02 %
Sulfate (SO_4) ..... 0.06 %
Residual solvents (Ph. Eur./USP) . passes test
Sulphite and thiosulphate ..... passes test
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm

Code	Packaging
141859.1209	250 g
141859.1211	1000 g
141859.0914	5 kg

Sodium Selenate

Disodium Selenate

Na_2SeO_4
M = 188.94 g/mol
CAS 13410-01-0
EINECS 236-501-8
CS 28429010

Solubility .....Miscible with ehtanol
Solid

UN2630
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 2
Storage RT

Danger



H331 H301 H373 H410

145777 Sodium Selenate pure

Specifications
Minimum assay .....99 %
Identity ..... passes test
Appearance ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Ca ..... 0.002 %
Cu .....0.02 %
Mg .....0.002 %

Code	Packaging
145777.1211	1000 g

HeBaPeaKTMB

Printed on FSC® certified paper from well managed forests

Sodium Selenite anhydrous

Na_2SeO_3
M = 172.94 g/mol
CAS 10102-18-8
EINECS 233-267-9
CS 28429010
Index Nr. 034-002-00-8

Solubility ..... Soluble in water.
Solid

UN2630
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 2
Storage RT

Danger



H331 H300 EUH031 H317 H411

192756 Sodium Selenite anhydrous (BP) pharma grade

Specifications
Assay (as Se) calc. a.d.s. ..... 44.0-46.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Alkalinity ..... passes test

Loss on drying at 105 °C ..... 1.0 %
Chloride (Cl) ..... 0.1 %
Sulfate (SO_4) ..... 0.2 %
Clarity of solution ..... passes test

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
192756.1211	1000 g

142756 Sodium Selenite anhydrous pure

Specifications
Assay (Iodom.) ..... 99 %
Identity
Selenite ..... passes test
Sodium ..... passes test
pH sol. 1M 10.6-11.4
Appearance ..... passes test

Insoluble matter in H_2O ..... 0.05 %
Loss on drying at 105 °C ..... 1 %
Chloride (Cl) ..... 0.05 %
Seleniate and sulphate (as SO_4) ..... 0.2 %
Fe ..... 0.005 %

Code	Packaging
142756.1208	100 g
142756.1209	250 g
142756.1211	1000 g
142756.1214	5 kg

Sodium Silicate neutral solution

Soluble glass

Na_2SiO_3
M = 122.07 g/mol
CAS 1344-09-8
EINECS 215-687-4
CS 28391900

Density ..... 1.365 kg/l
Liquid

WGK 1
Storage RT

Warning



H319 H335 H315

211714 Sodium Silicate neutral solution technical grade

Specifications
pH of 5 % solution ..... ≤ 11.5
Density 20/4 ..... 1.350-1.380
Cu ..... 0.005 %
Ni ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
211714.1211	1000 ml
211714.1212	2.5 l
211714.1214	5 l
211714.0716	25 l

Sodium Stannate 3-hydrate

$Na_2SnO_3 \cdot 3H_2O$
M = 266.71 g/mol
CAS 12209-98-2
EINECS 234-724-5
CS 28419085

Solubility ..... water 613 g/l at 16 °C
Solid

WGK 3
Storage RT

Warning



H319

142970 Sodium Stannate 3-hydrate pure

Specifications
Assay (Sn) ..... 42 %
Alkalinity ..... 29.0-32.5 %
Cu ..... 0.001 %

Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
142970.1214	5 kg
142970.0416	25 kg

Sodium Succinate 6-hydrate

Butanedioic Acid Disodium Salt, di-Sodium Succinate, Succinic Acid Disodium Salt

$(CH_2COONa)_2 \cdot 6H_2O$
M = 270.15 g/mol
CAS 6106-21-4
EINECS 205-778-7
CS 29171990

Solubility ..... water 350 g/l at 20 °C
Solid

WGK 1
Storage RT

122052 Sodium Succinate 6-hydrate for analysis

Specifications
Minimum assay (Perchl. Ac.) ..... 99.0 %
Identity ..... IR passes test
pH of 5 % solution 8.2-9.2

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %

Loss on drying at 120 °C ..... 39-41 %
Chloride (Cl) ..... 0.001 %
Ammonium (NH_4) ..... 0.001 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.005 %
As ..... 0.0001 %
Ca ..... 0.005 %

Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.05 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0002 %

Code	Packaging
122052.0914	5 kg

Sodium Sulfate anhydrous

Na_2SO_4
M = 142.04 g/mol
CAS 7757-82-6
EINECS 231-820-9
CS 28331100

Melting Point ..... 884 °C
Solubility ..... water 162 g/l at 20 °C
Solid

WGK nwg
Storage below 30 °C

131716 Sodium Sulfate anhydrous (Reag. USP) for analysis, ACS, ISO

Specifications
Minimum assay .....99.0 %
Identity ..... passes test
pH of 5 % solution 5.2-8

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on ignition 800 °C .....0.5 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.0005 %
Phosphate (PO_4) .....0.001 %
As .....0.0001 %
Heavy metals (as Pb) .....0.0005 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Al 5
Au 5
B 5
Ba 5
Be 5
Bi 5
Ca.....50
Cd 5
Co.....5
Cr 10
Cu 5
Fe..... 5
Ga 5
In 5
K 20
Mg 10
Mn..... 5
Mo 5
Ni 5
Pb..... 5
Pt 5
Sb..... 5
Se 5
Si 5
Sr 5
Ti 5
V 5

Code	Packaging
131716.1210	500 g
131716.1211	1000 g
131716.1214	5 kg
131716.0416	25 kg

191716 Sodium Sulfate anhydrous (USP, BP, Ph. Eur.) pharma grade

Specifications
Assay (calc. a.d.s.) ..... 99.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Reducing substance to $KMnO_4$ .... passes test
Loss on drying .....0.5 %
Chloride (Cl) .....0.02 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) .....0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
Ca .....0.045 %
Fe .....0.009 %
Mg .....0.02 %

Code	Packaging
191716.1211	1000 g
191716.1214	5 kg
191716.0415	10 Kg
191716.0416	25 kg

141716 Sodium Sulfate anhydrous pure

Specifications
Assay .....99 %
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) .....0.01 %
Nitrogen compounds (as N) ..... 0.005 %
Phosphate (PO_4) ..... 0.005 %
As ..... 0.0002 %
Ca .....0.03 %
Cu .....0.002 %
Fe .....0.002 %
Mg .....0.03 %
Ni .....0.002 %
Pb .....0.002 %

Code	Packaging
141716.1210	500 g
141716.1211	1000 g
141716.1214	5 kg
141716.0416	25 kg

201716 Sodium Sulfate anhydrous (E-514i, F.C.C.) food grade

Specifications
Assay ($Na2SO_4$) after drying ..... 99.0-100.5 %
Identity
Sulfate ..... passes test
Sodium ..... passes test
Appearance ..... passes test
Acidity 5 % solution neutral
or slightly alkaline ..... passes test
Loss on drying, not more than ..... 1.0 %
Arsenic, not more than ..... 3 ppm
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Selenium, not more than .....0.003 %
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201716.0416	25 kg

Sodium Sulfate anhydrous, powder

Na_2SO_4
M = 142.04 g/mol
CAS 7757-82-6
EINECS 231-820-9
CS 28331100

Melting Point ..... 884 °C
Solubility ..... water 162 g/l at 20 °C
Solid

WGK nwg
Storage RT

325709 Sodium Sulfate anhydrous, powder for pesticide analysis

Specifications
Minimum assay .....99.5 %

Maximum limit of impurities
Insoluble matter in H_2O .....0.005 %
Loss on ignition 800 °C ..... 0.2 %
Granular size more than 0,75 mm 0.05
Signal ECD of pesticide (Lindane a DDT) (as Lindane) ..... 5 ng/l

Code	Packaging
325709.1611	1000 g

Sodium Sulfate anhydrous, granulated

Na_2SO_4
M = 142.04 g/mol
CAS 7757-82-6
EINECS 231-820-9
CS 28331100

Melting Point ..... 884 °C
Solubility ..... water 162 g/l at 20 °C
Solid

WGK nwg
Storage RT

325708 Sodium Sulfate anhydrous, granulated for pesticide analysis

Specifications
Minimum assay .....99.5 %

Maximum limit of impurities
Insoluble matter in H_2O .....0.005 %
Loss on ignition 800 °C ..... 0.2 %
Granular size less than 0,25 mm .....20 %
Signal ECD of pesticide (Lindane a DDT) (as Lindane) ..... 5 ng/l

Code	Packaging
325708.1611	1000 g

Sodium Sulfate anhydrous Plus

Na_2SO_4
M = 142.04 g/mol
CAS 7757-82-6
EINECS 231-820-9
CS 28331100

Melting Point ..... 884 °C
Solubility ..... water 162 g/l at 20 °C
Solid

WGK nwg
Storage RT

124978 Sodium Sulfate anhydrous Plus for analysis

Specifications
pH of 5 % solution 5.5-7.5

Maximum limit of impurities
Loss on drying at 130 °C .....1 %
Chloride (Cl) .....0.005 %
Free acid (as H_2SO_4) .....0.05 %
Free alkali (as NaOH) .....0.04 %
Heavy metals (as Pb) .....0.001 %
As .....0.0002 %
Ca .....0.01 %
Fe .....0.001 %
Mg .....0.01 %
Zn .....0.005 %

Code	Packaging
124978.0416	25 kg

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

HeBaPeaKTMB

Sodium Sulfate 10-hydrate

Glauber Salt

$Na_2SO_4 \cdot 10H_2O$
M = 322.19 g/mol
CAS 7727-73-3
EINECS 231-820-9
CS 28331100

Melting Point ..... 32 °C
Solubility ..... water 900 g/l at 20 °C
Solid

WGK nwg
Storage Not recommended in areas with a very hot climate

131715 Sodium Sulfate 10-hydrate (Reag. USP) for analysis, ACS

Specifications
Minimum assay ..... 99.0 %
pH of 5 % solution 5.2-8.2

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Nitrogen compounds (as N) ..... 0.0003 %

Phosphate (PO_4) ..... 0.0005 %
As ..... 0.0001 %
Heavy metals (as Pb) ..... 0.0003 %

Metals by ICP [in mg/Kg (ppm)]
Ag 5
Al 5
Ba 5
Bi 5
Ca 20
Cd 5
Co..... 5
Cr..... 5
Cu..... 5
Fe..... 5
K..... 20
Li 20
Mg 10
Mn..... 5
Mo 5
Ni..... 5
Pb..... 3
Sr 5
Tl 5
Zn..... 5

Code	Packaging
131715.1211	1000 g
131715.0416	25 kg

141715 Sodium Sulfate 10-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (calc. a.a.s) ..... 99.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
pH of 5 % solution 5.2-9.2

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test

Loss on drying at 130 °C .....52.0-57.0 %
Chloride (Cl) ..... 0.01 %
Nitrogen compounds (as N) ..... 0.003 %
Residual solvents (Ph. Eur./USP) .passes test
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
As ..... 0.0002 %
Ca ..... 0.01 %
Fe ..... 0.002 %
Mg ..... 0.01 %

Code	Packaging
141715.1214	5 kg

Sodium Sulfide x-hydrate

$Na_2S \cdot xH_2O$
M = 78.04 (anh) g/mol
CAS 1313-84-4
EINECS 215-211-5
CS 28301000
Index Nr. 016-009-00-8

Melting Point ..... 50 °C
Solubility ..... water 470 g/l at 10 °C
Solid

UN1849
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 2
Storage Not recommended in areas with a very hot climate

Danger



H302 H311 EUH031 H314 H400

211682 Sodium Sulfide x-hydrate technical grade

Specifications
Assay (as Na2S) (Iodom.) ..... 30 %
Nitrogen compounds (as N) ..... 0.01 %

Code	Packaging
211682.1610	500 g
211682.1214	5 kg

Sodium Sulfite anhydrous

Na_2SO_3
M = 126.04 g/mol
CAS 7757-83-7
EINECS 231-821-4
CS 28321000

Solubility ..... water 312 g/l at 20 °C
Solid

WGK 1
Storage RT

131717 Sodium Sulfite anhydrous for analysis, ACS

Specifications
Minimum assay (Iodom.) ..... 98.0 %

Maximum limit of impurities
Acidity ..... passes test
Alkalinity ..... 0.03 meq/g

Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.01 %
Thiosulfate ..... passes test
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0001 %
Ca ..... 0.013 %
Cu ..... 0.001 %
Fe ..... 0.001 %
K ..... 0.05 %
Mg ..... 0.013 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
131717.1210	500 g
131717.1211	1000 g
131717.0416	25 kg

191717 Sodium Sulfite anhydrous (BP, Ph. Eur.) pharma grade

Specifications
Assay (Iodom.) ..... 95.0-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... passes test

Residual solvents (Ph. Eur.) .....passes test
Thiosulfate ..... 0.1 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Fe ..... 0.001 %
Se ..... 0.001 %
Zn ..... 0.0025 %

Code	Packaging
191717.1211	1000 g
191717.1214	5 kg
191717.0416	25 kg

141717 Sodium Sulfite anhydrous pure

Specifications
Assay (Iodom.) ..... 95 %
Alkalinity ..... 0.05 meq/g
Insoluble matter in H_2O ..... 0.025 %

Chloride (Cl) ..... 0.05 %
As ..... 0.0001 %
Ca ..... 0.05 %
Cu ..... 0.003 %
Fe ..... 0.003 %
Mg ..... 0.05 %
Ni ..... 0.003 %
Pb ..... 0.003 %

Code	Packaging
141717.1210	500 g
141717.1211	1000 g

Sodium Sulfoxylate see Sodium Dithionite

Sodium Superoxide see Sodium Peroxide granulated

HeBaPeaKTMB

di-Sodium Tartrate 2-hydrate

di-Sodium Tartrate, Tartaric Acid Disodium Salt

$Na_2(COO)_2(CHOH)_2 \cdot 2H_2O$
M = 230.08 g/mol
CAS 6106-24-7
EINECS 212-773-3
CS 29181300

Melting Point ..... 150 °C
Solubility ..... water 290 g/l at 20 °C
Solid

WGK 1
Storage RT

121719 Sodium Tartrate 2-hydrate (Reag. Ph. Eur.) for analysis

Specifications
Assay (Perchl. Ac.) ..... 99.0-101.0 %
pH of 5 % solution 7.0-9.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %

Chloride (Cl) ..... 0.0005 %
Ammonium (NH_4) ..... 0.003 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.002 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00005 %

Ca ..... 0.005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.002 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
121719.1211	1000 g
121719.0914	5 kg

141719 Sodium Tartrate 2-hydrate pure

Specifications
Assay (Perchl. Ac.) ..... 99.0 %
pH of 5 % solution 7-9
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.005 %

Ammonium (NH_4) ..... 0.005 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Heavy metals (as Pb) ..... 0.002 %
As ..... 0.0001 %

Ca ..... 0.01 %
Cu ..... 0.002 %
Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141719.1210	500 g

201719 Sodium Tartrate 2-hydrate (E-335ii, F.C.C.) food grade

Specifications
Assay ($C_4H_4Na_2O_6$) after drying ..... 99.0-100.5 %
pH sol. 1 % 7.0-7.5
Loss on drying ..... 14.0-17.0 %

Oxalate (as oxalic acid) a.a.s., not more than ..... 0.01 %
Arsenic (As), not more than ..... 3 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 2 ppm

Heavy metals (as Pb), not more than ..... 10 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201719.0416	25 kg

di-Sodium tetra-Borate anhydrous

Borax, Sodium Biborate, Sodium Borate

$Na_2B_4O_7$
M = 201.22 g/mol
CAS 1330-43-4
EINECS 215-540-4
CS 28401100

Melting Point ..... 741 °C
Boiling Point ..... 1,575 °C
Solubility ..... water 26 g/l at 20 °C
Solid

WGK 1
Storage RT

Danger



H360FD

123052 di-Sodium tetra-Borate anhydrous for analysis

flux

Specifications
Minimum assay (Acidim.) ..... 98.0 %

Maximum limit of impurities
Chloride (Cl) ..... 0.005 %
Phosphate (PO_4) ..... 0.002 %

Silicate (as SiO_2) ..... 0.05 %
Loss on melting ..... 2 %
Fluoride (F) ..... 0.002 %
Al ..... 0.002 %
Ca ..... 0.01 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %

Cu ..... 0.0005 %
Fe ..... 0.002 %
K ..... 0.005 %
Mg ..... 0.005 %
Mn ..... 0.0004 %
Ni ..... 0.0005 %
Pb ..... 0.002 %
Zn ..... 0.0005 %

Code	Packaging
123052.1209	250 g
123052.1211	1000 g

143052 di-Sodium tetra-Borate anhydrous pure

Specifications
Assay (Acidim.) ..... 98 %
Insoluble matter in H_2O ..... 0.05 %
Chloride (Cl) ..... 0.05 %
Phosphate (PO_4) ..... 0.005 %

Heavy metals (as Pb) ..... 0.005 %
Ca ..... 0.02 %
Cu ..... 0.005 %
Fe ..... 0.005 %
K ..... 0.05 %

Mg ..... 0.02 %
Ni ..... 0.005 %
Pb ..... 0.005 %

Code	Packaging
143052.1211	1000 g
143052.1214	5 kg

di-Sodium tetra-Borate 10-hydrate

Borax, Sodium Borate

$Na_2B_4O_7 \cdot 10H_2O$
M = 381.37 g/mol
CAS 1303-96-4
EINECS 215-540-4
CS 28401910

Melting Point ..... 75 °C
Solubility ..... water 50 g/l at 20 °C
Solid

WGK 1
Storage RT

Danger



H360FD

131644 di-Sodium tetra-Borate 10-hydrate for analysis, ACS, ISO

Specifications
Assay (Acidim.) ..... 99.5-103.0 %
pH of 0.01 mol/l solution 9.15-9.20

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %

Chloride (Cl) ..... 0.001 %
Ammonium (NH_4) ..... 0.001 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.0025 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0001 %

Ca ..... 0.005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Mg ..... 0.002 %
Ni ..... 0.001 %
Pb ..... 0.0005 %

Code	Packaging
131644.1210	500 g
131644.1211	1000 g

141644 di-Sodium tetra-Borate 10-hydrate (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 99.0-103.0 %
Identity according to Pharmacopoeias: ..... passes test
pH of 4 % solution 9.0-9.6

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.025 %

Chloride (Cl) ..... 0.005 %
Ammonium (NH_4) ..... 0.001 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %
Residual solvents (Ph. Eur./USP) . passes test
Carbonate and Hydrogen Carbonate ..... passes test
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0005 %
Ca ..... 0.01 %

Code	Packaging
141644.1210	500 g
141644.1211	1000 g

HeBaPeaKTMB

Sodium tetra-Phenylborate

Kalignost (Registered trade-mark of Heyl Co.Berlin), Sodium Tetraphenylborate, Tetraphenylboron Sodium

$C_{24}H_{20}BNa$
M = 342.23 g/mol
CAS 143-66-8
EINECS 205-605-5
CS 29319090

Solubility ..... Soluble in water.
Solid

WGK 2
Storage RT

132440 Sodium tetra-Phenylborate (Reag. Ph. Eur.) for analysis, ACS

(KALIGNOST ®) (® Registered trade-mark of Heyl Co. Berlin)

Specifications
Minimum assay ..... 99.5 %

Identity ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test

Loss on drying at 105 °C ..... 0.5 %
Sensitivity to K ..... passes test

Code	Packaging
132440.1606	25 g
132440.1608	100 g

Sodium tetra-Phenylborate 0.01 mol/l

CS 38220000

Liquid

WGK 1
Storage RT

187057 Sodium tetra-Phenylborate 0.01 mol/l volumetric solution

Specifications
Factor limits 0.998-1.002

Code	Packaging
187057.1211	1 L

di-Sodium Tetraborate see di-Sodium tetra-Borate 10-hydrate

Sodium Tetrahydroborane see Sodium Borohydride

Sodium Tetraphenylborate see Sodium tetra-Phenylborate

Sodium Thioglycolate

$C_2H_3NaO_2S$
M = 114.10 g/mol
CAS 367-51-1
EINECS 206-696-4
CS 29309099

Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage 2-8 °C

Danger



H301 H317

A2832 Sodium Thioglycolate pure

Specifications
Assay (titr.) ..... min. 96 %
pH (1 M; H_2O) 5.0-8.0
Solubility (5 %; H_2O) ..... clear

Code	Packaging
A2832,0100	100 g
A2832,0500	500 g

A0985 Sodium Thioglycolate for microbiology

Specifications
Assay (titr.) ..... min. 98.5 %
Heavy metals (as Pb) ..... max. 0.005 %

pH (1 M; H_2O) 6.0-8.0
Solubility (5 %; H_2O) ..... clear, colorless

Code	Packaging
A0985,0100N	100 g
A0985,0500N	500 g

Sodium Thiosulfate anhydrous

Fixing salt, Antichlor, Sodium Hyposulfite

$Na_2S_2O_3$
M = 158.11 g/mol
CAS 7772-98-7
EINECS 231-867-5
CS 28323000

Solubility ..... 209 g/L
Solid

WGK 1
Storage RT

121879 Sodium Thiosulfate anhydrous for analysis

Specifications
Minimum assay (Iodom.) ..... 99.0 %
pH of 5 % solution 6.0-8.4

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.01 %
Loss on drying at 105 °C ..... 1 %

Chloride (Cl) ..... 0.05 %
Sulfide (S) ..... 0.0005 %
Sulfate and sulfite (as SO_4) ..... 0.5 %
Ca ..... 0.004 %
Cd ..... 0.001 %
Co ..... 0.001 %
Cu ..... 0.001 %

Fe ..... 0.001 %
K ..... 0.01 %
Ni ..... 0.001 %
Pb ..... 0.001 %
Zn ..... 0.001 %

Code	Packaging
121879.1209	250 g
121879.1211	1000 g
121879.0914	5 kg

141879 Sodium Thiosulfate anhydrous pure

Specifications
Assay (titr.) ..... min. 98 %
pH (5 %; H_2O; 20 °C) 6.5-9.5
Sulfide ..... max. 0.005 %

Fe ..... max. 0.005 %
Pb ..... max. 0.005 %

Code	Packaging
141879.1210	500 g
141879.0914	5 kg

Printed on FSC® certified paper from well managed forests

Sodium Thiosulfate 5-hydrate

$Na_2S_2O_3 \cdot 5H_2O$
M = 248.18 g/mol
CAS 10102-17-7
EINECS 231-867-5
CS 28323000

Melting Point ..... 48 °C
Solubility ..... water 680 g/l at 20 °C
Solid

WGK 1
Storage Not recommended in areas with a very hot climate

131721 Sodium Thiosulfate 5-hydrate for analysis, ACS

Specifications
Assay (Iodom.) ..... 99.5-101.0 %
pH of 5 % solution 6.0-8.4

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.02 %
Nitrogen compounds (as N) ..... 0.002 %
Sulfide (S) ..... 0.0001 %
Sulfate and sulfite (as SO_4) ..... 0.1 %
Heavy metals (as Pb) ..... 0.0005 %
Ca ..... 0.002 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.005 %
Mg ..... 0.001 %
Mn ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131721.1210	500 g
131721.1211	1000 g
131721.0416	25 kg

141721 Sodium Thiosulfate 5-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Iodom.) ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test
pH of 10 % solution 6.0-8.4

Maximum limit of impurities
Appearance of solution ..... passes test
Loss on drying ..... 32.0-37.0 %
Chloride (Cl) ..... 0.02 %
Nitrogen compounds (as N) ..... 0.01 %
Sulfide (S) ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Sulfate and sulfite (as SO_4) ..... 0.2 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0003 %
Ca ..... passes test
Cu ..... 0.001 %
Fe ..... 0.001 %
Mg ..... 0.01 %
Ni ..... 0.001 %
Pb ..... 0.001 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141721.1210	500 g
141721.1211	1000 g
141721.1214	5 kg
141721.0416	25 kg

Sodium Thiosulfate 1 mol/l (1N)

$Na_2S_2O_3$
M = 158.10 g/mol
CAS 7772-98-7
EINECS 231-867-5
CS 28323000

Density ..... 1.121 kg/l
Liquid

WGK 1
Storage RT

181722 Sodium Thiosulfate 1 mol/l (1N) standard volumetric solution

Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181722.1211	1000 ml

Sodium Thiosulfate 0.2 mol/l (0.2N)

$Na_2S_2O_3$
M = 158.10 g/mol
CAS 7772-98-7
EINECS 231-867-5
CS 28323000

Density ..... 1.02 kg/l
Liquid

WGK 1
Storage RT

183489 Sodium Thiosulfate 0.2 mol/l (0.2N) standard volumetric solution

Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
183489.1212	2,5 l
183489.1315	10 l

Sodium Thiosulphate 0.1 mol (24.818 g $Na_2S_2O_3 \cdot 5H_2O$) to prepare 1 l of 0.1N solution

$Na_2S_2O_3 \cdot 5H_2O$
M = 248.18 g/mol
CAS 10102-17-7
EINECS 231-867-5
CS 28323000

Liquid
Plastic or glass ampoules containing clear colourless liquid

WGK 1
Storage RT

303127 Sodium Thiosulfate 0.1 mol (24.818g $Na_2S_2O_3.5H_2O$) to prepare 1l of 0.1N solution

Specifications
Titer at 20 °C 0.998-1.002
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
303127.1920	1 bottle

Sodium Thiosulfate 0.1 mol/l (0.1N)

$Na_2S_2O_3$
M = 158.10 g/mol
CAS 7772-98-7
EINECS 231-867-5
CS 28323000

Density ..... 1.012 kg/l
Liquid

WGK 1
Storage RT

181723 Sodium Thiosulfate 0.1 mol/l (0.1N) (Reag. USP) standard volumetric solution

Standardised against Potassium Dichromate.
Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
181723.1211	1000 ml
181723.1212	2.5 l
181723.1214	5 l
181723.0715	10 l
181723.1315	10 l

НеваРеактив

Sodium Thiosulfate 0.1 mol/l (0.1N)

$Na_2S_2O_3$
M = 158.10 g/mol
CAS 7772-98-7
EINECS 231-867-5
CS 28323000

Density .....1.012 kg/l
Liquid

WGK 1
Storage RT

186987 Sodium Thiosulfate 0.1 mol/l (0.1N) (Reag. Ph. Eur.) standard volumetric solution

Standardised against Potassium Bromate 1/60M. Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
186987.1211	1000 ml

Sodium Thiosulfate 0.0551 mol/l (0.0551N)

$Na_2S_2O_3$
M = 158.10 g/mol
CAS 7772-98-7
EINECS 231-867-5
CS 28323000

Density .....1.016 kg/l
Liquid

WGK 1
Storage RT

624576 Sodium Thiosulfate 0.0551 mol/l (0.0551N) VINIKIT for wine analysis

for determination of reducing sugars in wine, according to Rebelein method. Indicator: Starch

Specifications
Titer at 20 °C ..... 1.000 ± 0.001

Code	Packaging
624576.1211	1000 ml

Sodium Thiosulfate 0.05 mol/l (0.05N)

$Na_2S_2O_3$
M = 158.10 g/mol
CAS 7772-98-7
EINECS 231-867-5
CS 28323000

Density .....1.007 kg/l
Liquid

WGK 1
Storage RT

182160 Sodium Thiosulfate 0.05 mol/l (0.05N) standard volumetric solution

Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182160.1211	1000 ml

Sodium Thiosulfate 0.0394 mol/l (0.0394N) (ASTM D 1510)

$Na_2S_2O_3$
M = 158.10 g/mol
CAS 7772-98-7
EINECS 231-867-5
CS 28323000

Density .....1.002 kg/l
Liquid

WGK 1
Storage RT

182914 Sodium Thiosulfate 0.0394 mol/l (0.0394N) (ASTM D 1510) standard volumetric solution

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
182914.1214	5 l

Sodium Thiosulfate 0.01 mol/l (0.01N)

$Na_2S_2O_3$
M = 158.10 g/mol
CAS 7772-98-7
EINECS 231-867-5
CS 28323000

Density .....1.002 kg/l
Liquid

WGK 1
Storage RT

182577 Sodium Thiosulfate 0.01 mol/l (0.01N) standard volumetric solution

Indicator: Starch

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182577.1211	1000 ml

Sodium Tosylchloramide see Chloramine T 3-hydrate

Sodium Tungstate 2-hydrate

Sodium Wolframate

$Na_2WO_4 \cdot 2H_2O$
M = 329.86 g/mol
CAS 10213-10-2
EINECS 236-743-4
CS 28418000

Melting Point ..... 100 °C
Solubility ..... water 825 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H302

131724 Sodium Tungstate 2-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Compl.) ..... 99.0-101.0 %

Maximum limit of impurities
Alkalinity ..... 0.02 meq/g

Insoluble matter in H_2O .....0.01 %
Chloride (Cl) .....0.005 %
Nitrogen compounds (as N) .....0.001 %
Sulfate (SO_4) .....0.01 %
Heavy metals (as Pb) .....0.001 %

As ..... 0.0005 %
Fe ..... 0.001 %
Mo ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
131724.1211	1000 g
131724.1214	5 kg

141724 Sodium Tungstate 2-hydrate pure

Specifications
Assay (Compl.) ..... 98.0 %
Alkalinity ..... 0.05 meq/g
Insoluble matter in H_2O ..... 0.02 %

Chloride (Cl) .....0.02 %
Ammonium (NH_4) .....0.005 %
Sulfate (SO_4) .....0.05 %
As .....0.0005 %

Fe ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141724.1214	5 kg

Sodium Wolframate see Sodium Tungstate 2-hydrate

Sodium, 99 % metal, sticks in vaseline oil

Na
M = 22.99 g/mol
CAS 7440-23-5
EINECS 231-132-9
CS 28051100
Index Nr. 011-001-00-0

Melting Point ..... 97.82 °C
Boiling Point ..... 881.4 °C
Solubility ..... Breaks down violently in water.
Solid
Silvery white metal, turns gray on exposure to air

UN1428
Class/PG 4.3/I
ADR 4.3/I · IMDG 4.3/I · IATA 4.3/I
WGK 2
Storage RT

Danger



EUH014 H260 H314

15A865 Sodium, 99 % metal, sticks in vaseline oil for synthesis

Specifications
Minimum assay (Acidim.) ..... 99 %

Code	Packaging
15A865.1608	100 g

Sodium-1-Decane Sulfonate see 1-Decanesulfonic Acid Sodium Salt

α-Solanine

Solatunin

Origin from *Solanum tuberosum*

$C_{45}H_{73}NO_{15}$
M = 868.04 g/mol
CAS 20562-02-1
CS 29399900

Solid

Storage 2-8 °C

Warning



H302 H319 H335

A7951 α-Solanine for HPLC

Specifications
Assay ..... min. 98 %

Code	Packaging
A7951,0020	20 mg

Solvent Red 23 see Sudan III (C.I. 26100)

Solvent Yellow 94 see Fluorescein (C.I. 45350)

Sophorin see Rutin

Sorbic Acid

2,4-Hexadienoic Acid

$C_6H_8O_2$
M = 112.13 g/mol
CAS 110-44-1
EINECS 203-768-7
CS 29161995

Melting Point ..... 134 °C
Boiling Point ..... 228 °C
Solubility ..... water 2.5 g/l at 25 °C
Solid

WGK 1
Storage away from direct light.

Warning



H319 H335

141055 Sorbic Acid (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay ($C_6H_8O_2$) calc. a.d.s. ..... 99.0-101.0 %
Identity according to Pharmacopoeias: ..... passes test
Melting range ..... 132-135 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in CH_3CH_2OH ..... passes test
Residue on ignition (as SO_4) ..... 0.2 %
Sulfate (SO_4) ..... 0.005 %
Residual solvents (Ph. Eur./USP) . passes test
Aldehydes (as C_2H_4O) ..... 0.15 %
Water (H_2O) ..... 0.5 %
Heavy metals (as Pb) ..... 0.001 %
As ..... 0.0003 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): Zinc compounds as metal catalyst (class 3 classification) can be present. It is below to 1300 ppm. It is fully in compliance with the EMEA guideline.

Code	Packaging
141055.0416	25 kg

201055 Sorbic Acid (E-200, F.C.C.) food grade

Specifications
Assay ($C_6H_8O_2$), calculated on the anhy. basis ..... 99.0-101.0 %
Melting range ..... 133-135 °C
Residue on ignition, not more than ..... 0.2 %
Aldehydes (as formaldehyde), not more than ..... 0.1 %
Arsenic (as As), not more than ..... 3 ppm
Mercury (Hg), not more than ..... 1 ppm
Lead, not more than ..... 2 ppm
Water, not more than ..... 0.5 %
Heavy metals (as Pb), not more than ..... 10 ppm
Specifications Regulation (UE) n° 231/2012, F.C.C. 9, R.D. 1466/2009
For use in foodstuffs according to Regulation (EC) n° 1333/2008 and F.C.C.

Code	Packaging
201055.0416	25 kg

Sorbitan Laurate see Sorbitan Monostearate

Sorbitan Monododecanoate see Sorbitan Monostearate

Sorbitan Monolaurate

Sorbitan Laurate, Sorbitan Monododecanoate, Span20

$C_{18}H_{34}O_6$
M = 346.52 g/mol
CAS 1338-39-2
EINECS 215-663-3
CS 29321900

Boiling Point ..... > 100 °C
Density ..... 1.00 kg/l
Solubility ..... Insoluble in water
Refractive Index n20/D 1.474
Liquid

WGK 1
Storage away from direct light.

146101 Sorbitan Monolaurate (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (as polyols) ..... 39.0-45.0 %
Assay (as fatty acids) ..... 55.0-63.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Residue on ignition ..... 0.5 %
Acidity value 7
Hydroxyl value 330-358
Iodine value 10
Peroxide value 5.0
Saponification value 158-170
Composition of fatty acids ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Water (H_2O) ..... 1.5 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1.300 ppm
As ..... 0,00015 %
Cd ..... 0,00005 %
Hg ..... 0,00015 %
Pb ..... 0,00005 %

Code	Packaging
146101.0716	25 l

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

Sorbitan Monostearate

Sorbitan Stearate, Span 60

$C_{24}H_{46}O_6$
M = 430.70 g/mol
CAS 1338-41-6
EINECS 215-664-9
CS 29321900

Melting Point ..... 53 °C
Boiling Point ..... > 100 °C
Solid

WGK 1
Storage away from direct light.

146102 Sorbitan Monostearate (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (as polyols) ..... 27.0-34.0 %
Assay (as fatty acids) ..... 68.0-76.0 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Residue on ignition ..... 0.5 %
Acidity value 10
Hydroxyl value 235-260
Peroxide value 5.0

Saponification value 147-157
Composition of fatty acids ..... passes test
Type I according to Ph. Eur.
Residual solvents (Ph. Eur./USP) . passes test
Water (H_2O) ..... 1.5 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1.300 ppm
As ..... 0,00015 %
Cd ..... 0,00005 %
Hg ..... 0,00015 %
Pb ..... 0,00005 %

Code	Packaging
146102.0416	25 kg

D(-)-Sorbitol

Nivitin, D-Sorbitol, D-Glucitol, Sorbol

$C_6H_{14}O_6$
M = 182.18 g/mol
CAS 50-70-4
EINECS 200-061-5
CS 29054491

Melting Point ..... 94-96 °C
Solubility ..... 2350 g/L (H_2O)
Solid

Storage RT

A4992 D(-)-Sorbitol for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99 %
α20 °C/D; 10 %, borate complex ..... 4.0-7.0°
Appearance of solution ..... passes test

Heavy metals (as Pb) ..... max. 0.001 %
Sulfated ash ..... max. 0.1 %
Water (K.F.) ..... max. 1.5 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.01 %

As ..... max. 0.0003 %
Ni ..... max. 0.0001 %
Pb ..... max. 0.00005 %

Code	Packaging
A4992,1000	1 kg
A4992,5000	5 kg

A2222 D(-)-Sorbitol (Ph. Eur., NF) pure, pharma grade

Specifications
Assay (HPLC, dried subst.) ..... 97.0-100.5 %
Appearance of solution ..... passes test
Conductivity (20 %; H_2O dest.) ..... max. 20 µS/cm
Identity ..... passes test
Microbiological test ..... passes test

pH (10 %; H_2O) 3.5-7.0
Red. sugars ..... max. 0.2 %
Related subst. ..... passes test
Sulfated ash ..... max. 0.1 %
Water (K.F.) ..... max. 1.5 %
Ni ..... max. 0.0001 %
Pb ..... max. 0.00005 %

Code	Packaging
A2222,0010	10 g
A2222,1000	1 kg
A2222,5000	5 kg
A2222,9025	25 kg

Sorbol see D(-)-Sorbitol

Soy Tryptone Broth see Tryptone Soy Broth (TSB) (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Soybean Casein Digest Brot see Tryptone Soy Broth (TSB) (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Special Paper Reel pH 0.5-5.5 (gradation 0.5)

CS 38220000

Paper reel

Storage RT

524154 Special Paper Reel pH 0.5-5.5 (gradation 0.5)

Code	Packaging
524154.1825	Rolls

Special Paper Reel pH 5.5-9.0 (gradation 0.5)

CS 38220000

Paper reel

Storage RT

524152 Special Paper Reel pH 5.5-9.0 (gradation 0.5)

Code	Packaging
524152.1825	Rolls

Spectinomycin Dihydrochloride 5-hydrate

Actionospectacin

$C_{14}H_{24}N_2O_7 \cdot 2HCl \cdot 5H_2O$
M = 495.30 g/mol
CAS 21736-83-4
EINECS 244-554-3
CS 29419000

Solid

Storage RT

A3834 Spectinomycin Dihydrochloride 5-hydrate BioChemica

Specifications
Assay (titr.) ..... min. 95 %
Solubility (5 %; H_2O) ..... clear, slightly yellow

Code	Packaging
A3834,0001	1 g
A3834,0005	5 g
A3834,0010	10 g

Spermidine

N-(3-Aminopropyl)-1,4-Diaminobutane

$C_7H_{19}N_3$
M = 145.25 g/mol
CAS 124-20-9
EINECS 204-689-0
CS 29212900

Melting Point ..... 24 °C
Liquid

UN3259
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage 2-8 °C

Danger



H314

A0674 Spermidine BioChemica

Specifications
Assay (titr.) .....min. 99 %
pH (1 M; H_2O; 20 °C) 11.0-13.0

Spermine ..... max. 0.2 %
Water ..... max. 1 %

Code	Packaging
A0674,0005	5 g

Spermidine Trihydrochloride

N-(3-Aminopropyl)-1,4-Diaminobutane Trihydrochloride

$C_7H_{19}N_3 \cdot 3HCl$
M = 254.63 g/mol
CAS 334-50-9
EINECS 206-379-0
CS 29212900

Melting Point ..... 257 °C
Solid

WGK 1
Storage 2-8 °C

Warning



H315 H319

A0673 Spermidine Trihydrochloride BioChemica

Specifications
Assay (titr.) .....min. 99 %
pH (1 M; H_2O; 20 °C) 3.0-4.0

Spermine ..... max. 0.2 %
Water ..... max. 1 %

Code	Packaging
A0673,0025	25 g

Spermine

N,N'-Bis-(3-Aminopropyl)-1,4-Diaminobutane

$C_{10}H_{26}N_4$
M = 202.34 g/mol
CAS 71-44-3
EINECS 200-754-2
CS 29212900

Melting Point ..... 28 °C
Solid

UN3259
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage 2-8 °C

Danger



H314

A0672 Spermine BioChemica

Specifications
Assay (titr.) .....min. 98 %
pH (1 M; H_2O; 20 °C) 11.0-13.0
Spermidine .....max. 0.5 %

Water ..... max. 1.0 %
Carbonate ..... max. 0.5 %

Code	Packaging
A0672,0025	25 g
A0672,1000	1 kg

Spermine Tetrahydrochloride

N,N'-Bis-(3-aminopropyl)-1,4-diaminobutane

$C_{10}H_{26}N_4 \cdot 4HCl$
M = 348.18 g/mol
CAS 306-67-2
EINECS 206-379-0
CS 29212900

Solid

Storage 2-8 °C

Warning



H319 H315

A7080 Spermine Tetrahydrochloride BioChemica

Specifications
Assay (titr.) .....min. 99 %
Identity ..... passes test

pH (1 %; H_2O) 4.5-7.0
Solubility (10 %; H_2O) .....clear

Code	Packaging
A7080,0100	100 g
A7080,0250	250 g

SS Agar see Salmonella Shigella Agar (Dehydrated Culture Media) for microbiology

SSC buffer (20X)

CS 38220000

Liquid

Storage RT

A1396 SSC buffer (20X) for molecular biology

20X concentrated aqueous solution

Specifications
DNases/RNases/Proteases .....not detectable
pH (20 °C; adjusted with HCl) ..... 7.0 ± 0.2

Composition:
tri-Sodium Citrate ..... 88.23 g/L (0.3 M)
Sodium Chloride ..... 175.32 g/L (3 M)

Code	Packaging
A1396,1000	1 L

SSC buffer (20X) Powder

CS 38210000

Storage RT

A4506 SSC buffer (20X) Powder for molecular biology

Powder mixture for a 20X concentrated aqueous solution

Specifications
DNases/RNases/Proteases .....not detectable

Composition:
tri-Sodium Citrate .....88.23 g/L (0.3 M)
Sodium Chloride .....175.32 g/L (3 M)

Code	Packaging
A4506,1000	1 L
A4506,5000	5 L

НеваРеактив

Printed on FSC® certified paper from well managed forests

SSPE buffer (20X)

CS 38220000 | Liquid | Storage RT

A1397 SSPE buffer (20X) for molecular biology

20X concentrated aqueous solution

Specifications
DNases/RNases/Proteases ..... not detectable

pH (20 °C; adjusted with NaOH) ..... 7.4 ± 0.2

Composition:
EDTA · Na_2 · $2H_2O$ ..... 7.44 g/L (0.02 M)
NaH_2PO_4 · H_2O ..... 27.60 g/L (0.2 M)
Sodium Chloride ..... 175.32 g/L (3.0 M)

Code	Packaging
A1397,1000	1 L

Stabilizer for coated surfaces in immunoassays see AppliCoat Plate Stabilizer

Stain Discriminator see Alcohol-Acetone 7:3

AAS (ATOMIC ABSORPTION SPECTROSCOPY) STANDARDS (1000 mg/l)

313170 Aluminium standard solution Al=1.000 g/l for AAS

[$Al(NO_3)3.9H_2O$ in HNO_3 0,5N] for spectrophotometry

CS 38220000

Density ..... 1.020 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Composition:
Aluminium Nitrate 9-hydrate ..... 14.000 g
Nitric Acid 0.5N (s.q.m.) ..... 1000 ml
Uncertainty ..... See certificate

Traceability ..... NIST
Concentration (as Al) 0.998-1.002

Code	Packaging
313170.1208	100 ml
313170.1210	500 ml

314133 Antimony standard solution Sb=1.000 g/l for AAS

(SbCl3 in HCl 5N) for spectrophotometry

CS 28061000

Density ..... 1.129 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Composition:
Antimonium (III) Chloride ..... 1.874 g
Hydrochloric Acid 5N (s.q.m.) ..... 1000 ml
Uncertainty ..... See certificate

Traceability ..... NIST
Concentration (as Sb) 0.998-1.002

Code	Packaging
314133.1208	100 ml
314133.1210	500 ml

313171 Arsenic standard solution As=1.000 g/l for AAS

(As_2O_3 in HNO_3 2-5 %) for spectrophotometry

CS 28112910
Index Nr. 033-004-00-6

Density ..... 1.002 kg/l
Liquid

UN1556
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H350 H332 H302

Composition:
Arsenic (III) Oxide ..... 1.320 g
Nitric Acid 2-5 % (s.q.m.) ..... 1000 ml

Uncertainty ..... See certificate
Traceability ..... NIST
Concentration (as As) 0.995-1.005

Code	Packaging
313171.1208	100 ml

313172 Barium standard solution Ba=1.000 g/l for AAS

[$Ba(NO_3)2$ in HNO_3 0,5N] for spectrophotometry

CS 38220000

Density ..... 1.020 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Composition:
Barium Nitrate ..... 1.900 g
Nitric Acid 0.5N (s.q.m.) ..... 1000 ml

Uncertainty ..... See certificate
Traceability ..... NIST
Concentration (as Ba) 0.998-1.002

Code	Packaging
313172.1208	100 ml

313174 Bismuth standard solution Bi=1.000 g/l for AAS

[$Bi(NO_3)3.5H_2O$ in HNO_3 0,5N] for spectrophotometry

CS 38220000

Density ..... 1.016 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Composition:
Bismuth (III) Nitrate 5-hydrate ..... 2.320 g
Nitric Acid 0.5N (s.q.m.) ..... 1000 ml

Uncertainty ..... See certificate
Traceability ..... NIST
Concentration (as Bi) 0.998-1.002

Code	Packaging
313174.1208	100 ml

313175 Cadmium standard solution Cd=1.000 g/l for AAS

[$Cd(NO_3)2.4H_2O$ in HNO_3 0,5N] for spectrophotometry

CS 28342920

Density ..... 1.015 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 3
Storage RT

Warning



H319 H335 H315 H412

Composition:
...mium nitrate 4-hydrate ..... 2.745 g
...cid 0.5N (s.q.m.) ..... 1000 ml
Unce... ..... See certificate

Traceability ..... NIST
Concentration (as Cd) 0.998-1.002

Code	Packaging
313175.1208	100 ml
313175.1210	500 ml

313176 Calcium standard solution Ca=1.000 g/l for AAS

[$Ca(NO_3)2.4H_2O$ in HNO_3 0,5N] for spectrophotometry

CS 38220000

Density .....1.020 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Composition:
Calcium Nitrate 4-H_2O .....5.900 g
Nitric Acid 0.5N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability .....NIST
Concentration (as Ca) 0.998-1.002

Code	Packaging
313176.1208	100 ml
313176.1210	500 ml

313179 Chromium standard solution Cr=1.000 g/l for AAS

[$Cr(NO_3)3.9H_2O$ in HNO_3 0,5N] for spectrophotometry

CS 38220000

Density .....1.023 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Composition:
Chromium (III) nitrate 9-hydrate .....7.696 g
Nitric Acid 0.5N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability .....NIST
Concentration (as Cr) 0.998-1.002

Code	Packaging
313179.1208	100 ml
313179.1210	500 ml

313177 Cobalt standard solution Co=1.000 g/l for AAS

[$Co(NO_3)2.6H_2O$ in HNO_3 0,5N] for spectrophotometry

CS 38220000

Density .....1.019 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 3
Storage RT

Warning



H319 H335 H315

Composition:
Cobalt (II) nitrate 6-hydrate .....4.938 g
Nitric Acid 0.5N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability .....NIST
Concentration (as Co) 0.998-1.002

Code	Packaging
313177.1208	100 ml
313177.1210	500 ml

313178 Copper standard solution Cu=1.000 g/l for AAS

[$Cu(NO_3)2.3H_2O$ in HNO_3 0,5N] for spectrophotometry

CS 38220000

Density .....1.020 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 3
Storage RT

Warning



H319 H335 H315

Composition:
Copper (II) nitrate 3-hydrate .....3.802 g
Nitric Acid 0.5N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability .....NIST
Concentration (as Cu) 0.998-1.002

Code	Packaging
313178.1208	100 ml
313178.1210	500 ml

312682 Fluoride standard solution F=1.000 g/l for AAS

(NaF in H_2O)

NaF
M = 41.99 g/mol
CAS 7681-49-4
EINECS 231-667-8
CS 38220000

Density .....1.001 kg/l
Liquid

WGK nwg
Storage RT

Composition:
Sodium Fluoride .....2.200 g
Water (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability .....NIST
Concentration (as F) 0.995-1.005

Code	Packaging
312682.1208	100 ml
312682.1210	500 ml

313672 Gold standard solution Au=1.000 g/l for AAS

(HAuCl4.4H_2O in HCl 1,2 %) for spectrophotometry

CS 28061000

Density .....1.056 kg/l
Liquid

WGK 1
Storage RT

Composition:
Gold .....1.0 g
Hydrochloric Acid 1.2 % (s.q.m.) .....1000 ml

Uncertainty ..... See certificate
Traceability .....NIST
Concentration (as Au) 0.998-1.002

Code	Packaging
313672.1208	100 ml

313182 Iron standard solution Fe=1.000 g/l for AAS

[$Fe(NO_3)3.9H_2O$ in HNO_3 0,5N] for spectrophotometry

CS 38220000

Density .....1.001 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Composition:
Iron(III) Nitrate 9-hydrate .....7.235 g
Nitric Acid 0.5N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability .....NIST
Concentration (as Fe) 0.998-1.002

Code	Packaging
313182.1208	100 ml
313182.1210	500 ml

313189 Lead standard solution Pb=1.000 g/l for AAS

[$Pb(NO_3)2$ in HNO_3 0,5N] for spectrophotometry

CS 38220000

Density .....1.019 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Composition:
Lead (II) nitrate .....1.598 g
Nitric Acid 0.5N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability .....NIST
Concentration (as Pb) 0.998-1.002

Code	Packaging
313189.1208	100 ml
313189.1210	500 ml

313183 Lithium standard solution Li=1.000 g/l for AAS

(LiCl in HCl X1 %) for spectrophotometry

CS 28061000

Density .....1.006 kg/l
Liquid

WGK 1
Storage RT

Composition:
Lithium Chloride .....6.107 g
Hydrochloric Acid 1 % (s.q.m.) .....1000 ml

Uncertainty ..... See certificate
Traceability .....NIST
Concentration (as Li) 0.998-1.002

Code	Packaging
313183.1210	500 ml

313184 Magnesium standard solution Mg=1.000 g/l for AAS

[$Mg(NO_3)2.6H_2O$ in HNO_3 0,5N] for spectrophotometry

CS 38220000

Density .....1.022 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Composition:
Magnesium Nitrate 6-hydrate .....10.550 g
Nitric Acid 0.5N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability .....NIST
Concentration (as Mg) 0.998-1.002

Code	Packaging
313184.1208	100 ml
313184.1210	500 ml

313185 Manganese standard solution Mn=1.000 g/l for AAS

[$Mn(NO_3)2$ in HNO_3 1N] for spectrophotometry

CS 38220000

Density .....1.033 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Composition:
Manganese metal .....1.0 g
Nitric Acid 1N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability .....NIST
Concentration (as Mn) 0.998-1.002

Code	Packaging
313185.1208	100 ml
313185.1210	500 ml

313186 Mercury standard solution Hg=1.000 g/l for AAS

[$Hg(NO_3)2$ in HNO_3 0,5N] for spectrophotometry

CS 28521000

Density .....1.016 kg/l
Liquid

UN2024
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage RT

Danger



H332 H312 H302 H373 H319 H335 H315

Composition:
Mercury(II) Oxide yellow .....1.100 g
Nitric Acid 0.5N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability .....NIST
Concentration (as Hg) 0.998-1.002

Code	Packaging
313186.1208	100 ml
313186.1210	500 ml

314111 Molybdenum standard solution Mo=1.000 g/l for AAS

[$(NH_4)6Mo_7O_24.4H_2O$ in NH_4OH 0,5N] for spectrophotometry

CS 38220000

Density .....1.000 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Composition:
Ammonium Molybdate 4-hydrate .....1.840 g
Ammonia 0.5N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability .....NIST
Concentration (as Mo) 0.998-1.002

Code	Packaging
314111.1208	100 ml
314111.1210	500 ml

313187 Nickel standard solution Ni=1.000 g/l for AAS

[$Ni(NO_3)2.6H_2O$ in HNO_3 0,5N] for spectrophotometry

CS 38220000

Density .....1.025 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Warning



H319 H335 H315

Composition:
Nickel (II) nitrate 6-hydrate .....4.954 g
Nitric Acid 0.5N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability .....NIST
Concentration (as Ni) 0.998-1.002

Code	Packaging
313187.1208	100 ml
313187.1210	500 ml

НЕВАРЕАКТИВ

НеваРеактив

313190 Potassium standard solution K=1.000 g/l for AAS

(KCl in HCl X1 %) for spectrophotometry
CS 28061000

Density .....1.002 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Composition:
Potassium Chloride .....1.907 g
Hydrochloric Acid 1 % (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability ..... NIST
Concentration (as K) 0.998-1.002

Code	Packaging
313190.1208	100 ml
313190.1210	500 ml

313191 Selenium standard solution Se=1.000 g/l for AAS

(SeO_3H_2 in HNO_3 1N) for spectrophotometry
CS 38220000

Density .....1.027 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Composition:
Selenium metal powder .....1.000 g
Nitric Acid 1N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability ..... NIST
Concentration (as Se) 0.998-1.002

Code	Packaging
313191.1208	100 ml
313191.1210	500 ml

312683 Silicon standard solution Si=1.00 g/l for AAS

($Na2SIO_3$ in H_2O) for spectrophotometry

CS 38220000

Density ..... 1.002 kg/l
Liquid

Storage RT

Composition:
Sodium meta-silicate-5 hydrate .....7.800 g
Water (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability ..... NIST
Concentration (as Si) 0.95-1.05

Code	Packaging
312683.1208	100 ml
312683.1210	500 ml

313188 Silver standard solution Ag=1.000 g/l for AAS

($AgNO_3$ in HNO_3 0,5N) for spectrophotometry
CS 38220000

Density .....1.016 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Composition:
Silver Nitrate .....1.575 g
Nitric Acid 0.5N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability ..... NIST
Concentration (as Ag) 0.998-1.002

Code	Packaging
313188.1208	100 ml
313188.1210	500 ml

313192 Sodium standard solution Na=1.000 g/l for AAS

(NaCl in HCl X1 %) for spectrophotometry
CS 28061000

Density .....1.005 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Composition:
Sodium Chloride .....2.542 g
Hydrochloric Acid 1 % (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability ..... NIST
Concentration (as Na) 0.998-1.002

Code	Packaging
313192.1208	100 ml
313192.1210	500 ml

313180 Tin standard solution Sn=1.000 g/l for AAS

(SnCl4 in HCl 5N) for spectrophotometry
CS 28061000

Density .....1.083 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Composition:
Tin (VI) Chloride .....2.200 g
Hydrochloric Acid 5N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability ..... NIST
Concentration (as Sn) 0.998-1.002

Code	Packaging
313180.1208	100 ml
313180.1210	500 ml

313960 Titanium standard solution Ti=1.000 g/l for AAS

(TiCl4 in HCl 5N) for spectrophotometry
CS 28061000

Density .....1.089 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Composition:
Titanium (IV) Chloride .....4.320 g
Hydrochloric Acid 5N (s.q.m.) .....1000 ml

Uncertainty ..... See certificate
Traceability ..... NIST
Concentration (as Ti) 0.998-1.002

Code	Packaging
313960.1208	100 ml

НеваРеактив

313193 Zinc standard solution Zn=1.000 g/l for AAS

[$Zn(NO_3)2.6H_2O$ in HNO_3 0,5N] for spectrophotometry

CS 38220000

Density .....1.022 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Composition:
Zinc nitrate 6-hydrate .....4.550 g
Nitric Acid 0.5N (s.q.m.) .....1000 ml
Uncertainty .....See certificate

Traceability .....NIST
Concentration (as Zn) 0.998-1.002

Code	Packaging
313193.1208	100 ml
313193.1210	500 ml

ICP (INDUCTIVELY COUPLED PLASMA SPECTROSCOPY) STANDARDS (1000 mg/l)

766034 Aluminium standard solution Al=1.000 g/l for ICP

(Al in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point .....-3 °C
Boiling Point .....101 °C
Density .....1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Al / l in HNO_3 2-5 %)
Concentration (as Al) .....1.000 g/l
Uncertainty .....See certificate
Traceability .....NIST
Method of analysis .....ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.001 As..... 0.012

Au .....0.002 B .....0.005 Ge ..... 0.001 Hf 0.002
Ba .....0.002 Be .....0.003 Hg..... 0.002 Ho 0.002
Bi.....0.001 Ca .....0.007 In ..... 0.002 Ir..... 0.002
Cd .....0.002 Ce .....0.002 K..... 0.006 La 0.002
Co .....0.001 Cr.....0.001 Li ..... 0.003 Lu 0.002
Cs .....0.002 Cu .....0.002 Mg ..... 0.01 Mn 0.001
Dy .....0.002 Er.....0.002 Mo 0.002
Eu .....0.002 Fe 0.002
Ga .....0.001 Gd.....0.002

Code	Packaging
766034.1208	100 ml

766035 Antimony standard solution Sb=1.000 g/l for ICP

(Sb in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point .....-3 °C
Boiling Point .....101 °C
Density .....1.02 kg/l
Liquid

UN3264
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Sb / l in HNO_3 2-5 % + traces HF)
Concentration (as Sb) .....1.000 g/l
Uncertainty .....See certificate
Traceability .....NIST
Method of analysis .....ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag .....0.002 Al 0.022
As.....0.052 Au 0.002
B .....0.006 Ba 0.002
Be .....0.003 Bi 0.002
Ca .....0.026 Cd 0.006
Ce .....0.002 Co 0.006
Cr.....0.006 Cs 0.002
Cu .....0.021 Dy 0.002
Er..... 0.002 Eu..... 0.002
Fe ..... 0.031 Ga 0.002
Gd ..... 0.002 Ge 0.002
Hf..... 0.002 Hg 0.002
Ho..... 0.002 In 0.002
Ir ..... 0.002 K..... 0.015
La ..... 0.002 Li 0.003
Lu ..... 0.002 Mg 0.025
Mn 0.006

Code	Packaging
766035.1208	100 ml

766036 Arsenic standard solution As=1.000 g/l for ICP

(As_2O_3 in HNO_3 2-5 %) for ICP

CS 28112910

Melting Point .....-3 °C
Boiling Point .....101 °C
Density .....1.02 kg/l
Liquid

UN1556
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H350 H332 H302 H319 H335 H315

Specifications
Composition (1,32 g As_2O_3 / l in HNO_3 2-5 %)
Concentration (as As) .....1.000 g/l
Uncertainty .....See certificate
Traceability .....NIST
Method of analysis .....ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.044 Al..... 0.009

Au .....0.003 B .....0.011 Ge ..... 0.003 Hf 0.002
Ba .....0.003 Be .....0.003 Hg..... 0.002 Ho 0.002
Bi.....0.003 Ca .....0.013 In ..... 0.002 Ir..... 0.002
Cd .....0.002 Ce .....0.002 K..... 0.025 La 0.002
Co .....0.008 Cr.....0.008 Li ..... 0.003 Lu 0.002
Cs .....0.002 Cu .....0.002 Mg ..... 0.012 Mn 0.002
Dy .....0.002 Er.....0.002 Mo 0.003
Eu .....0.002 Fe 0.004
Ga .....0.003 Gd.....0.002

Code	Packaging
766036.1208	100 ml

766037 Barium standard solution Ba=1.000 g/l for ICP

($BaCO_3$ in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point .....-3 °C
Boiling Point .....101 °C
Density .....1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g $BaCO_3$ / l in HNO_3 2-5 %)
Concentration (as Ba) .....1.000 g/l
Uncertainty .....See certificate
Traceability .....NIST
Method of analysis .....ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.044 Al..... 0.074

As.....0.004 Au .....0.003 Ge ..... 0.003 Hf 0.002
B .....0.006 Be .....0.003 Hg..... 0.002 Ho 0.002
Bi.....0.003 Ca .....0.021 In ..... 0.002 Ir..... 0.002
Cd .....0.002 Ce .....0.002 K..... 0.077 La 0.002
Co .....0.015 Cr.....0.015 Li ..... 0.016 Lu 0.002
Cs .....0.002 Cu .....0.015 Mg ..... 0.034 Mn 0.015
Dy .....0.002 Er.....0.002 Mo 0.009
Eu .....0.002 Fe 0.016
Ga .....0.003 Gd.....0.002

Code	Packaging
766037.1208	100 ml

HEBAPEAKTMB

763173 Beryllium standard solution Be=1.000 g/l for ICP

(Be in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
WGK 1
Storage RT

Danger



H350i H332 H302 H319 H335 H315 H373

Specifications
Composition (1 g Be / l in HNO_3 2-5 %)
Concentration (as Be) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.003 Al..... 0.142

As .....0.007 Au..... 0.002 Ge ..... 0.002 Hf 0.002
B .....0.01 Ba..... 0.021 Hg ..... 0.006 Ho 0.002
Bi .....0.004 Ca..... 0.05 In ..... 0.002 Ir..... 0.002
Cd .....0.011 Ce..... 0.002 K..... 0.015 La..... 0.002
Co .....0.011 Cr..... 0.011 Li ..... 0.007 Lu..... 0.002
Cs .....0.002 Cu..... 0.021 Mg ..... 0.335 Mn..... 0.061
Dy .....0.002 Er..... 0.002 Mo 0.005
Eu .....0.002 Fe..... 0.371
Ga.....0.002 Gd..... 0.002

Code	Packaging
763173.1208	100 ml

766039 Bismuth standard solution Bi=1.000 g/l for ICP

(Bi in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Bi / l in HNO_3 2-5 %)
Concentration (as Bi) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.011 Al..... 0.023

As .....0.008 Au..... 0.003 Ge ..... 0.003 Hf 0.002
B .....0.005 Ba..... 0.003 Hg ..... 0.006 Ho 0.002
Be .....0.003 Ca..... 0.021 In ..... 0.002 Ir..... 0.002
Cd .....0.002 Ce..... 0.002 K..... 0.026 La..... 0.002
Co .....0.006 Cr..... 0.006 Li ..... 0.003 Lu..... 0.002
Cs .....0.002 Cu..... 0.006 Mg ..... 0.011 Mn..... 0.006
Dy .....0.002 Er..... 0.002 Mo 0.007
Eu .....0.002 Fe..... 0.008
Ga.....0.003 Gd..... 0.002

Code	Packaging
766039.1208	100 ml

766878 Boron standard dissolved in ammonia solution 1 % B=1000 ug/g for ICP

CS 38220000

Density ..... 1.00 kg/l
Liquid

WGK 2
Storage RT

Specifications
Concentration (as B) ..... 1000 µg/g
Concentration ..... See certificate

Traceability ..... NIST
Method of analysis ..... ICP-OES

Code	Packaging
766878.1208	100 ml

765900 Boron standard solution B=1.000 g/l for ICP

(H_3BO_3 in H_2O) for ICP

CAS 10043-35-3
EINECS 233-139-2
CS 28100090

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.00 kg/l
Liquid

WGK 1
Storage RT

Specifications
Composition (5,719 g H_3BO_3 / l H_2O)
Concentration (as B) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.001 Al..... 0.002

As .....0.002 Au..... 0.001 Ge ..... 0.007 Hf 0.007
Ba .....0.001 Be..... 0.002 Hg ..... 0.007 Ho 0.007
Bi .....0.007 Ca..... 0.005 In ..... 0.001 Ir..... 0.007
Cd .....0.001 Ce..... 0.007 K..... 0.006 La..... 0.007
Co .....0.001 Cr..... 0.001 Li ..... 0.002 Lu..... 0.007
Cs .....0.007 Cu..... 0.001 Mg ..... 0.006 Mn..... 0.001
Dy .....0.007 Er..... 0.007 Mo 0.002
Eu .....0.007 Fe..... 0.001
Ga.....0.001 Gd..... 0.007

Code	Packaging
765900.1208	100 ml

766038 Cadmium standard solution Cd=1.000 g/l for ICP

(Cd in HNO_3 2-5 %) for ICP

CS 81079000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 3
Storage RT

Warning



H319 H335 H315 H412

Specifications
Composition (1 g Cd / l in HNO_3 2-5 %)
Concentration (as Cd) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.002 Al..... 0.003

As .....0.003 Au..... 0.002 Ge ..... 0.002 Hf 0.002
B .....0.006 Ba..... 0.002 Hg ..... 0.002 Ho 0.002
Be .....0.003 Bi..... 0.002 In ..... 0.002 Ir..... 0.002
Ca .....0.007 Ce..... 0.002 K..... 0.006 La..... 0.002
Co .....0.002 Cr..... 0.002 Li ..... 0.003 Lu..... 0.002
Cs .....0.002 Cu..... 0.002 Mg ..... 0.006 Mn..... 0.002
Dy .....0.002 Er..... 0.002 Mo 0.003
Eu .....0.002 Fe..... 0.002
Ga.....0.002 Gd..... 0.002

Code	Packaging
766038.1208	100 ml

766040 Calcium standard solution Ca=1.000 g/l for ICP

($CaCO_3$ in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (2,5 g $CaCO_3$ / l HNO_3 2-5 %)
Concentration (as Ca) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.004 Al..... 0.015

As .....0.005 Au..... 0.004 Ge ..... 0.004 Hf 0.003
B .....0.01 Ba..... 0.501 Hg ..... 0.002 Ho 0.003
Be .....0.004 Bi..... 0.006 In ..... 0.004 Ir..... 0.003
Cd .....0.006 Ce..... 0.003 K..... 0.055 La..... 0.003
Co .....0.006 Cr..... 0.006 Li ..... 0.009 Lu..... 0.003
Cs .....0.251 Cu..... 0.006 Mg ..... 0.505 Mn..... 0.006
Dy .....0.003 Er..... 0.003 Mo 0.007
Eu .....0.003 Fe..... 0.026
Ga.....0.004 Gd..... 0.003

Code	Packaging
766040.1208	100 ml

HeBaPeaKTMB

765901 Cerium standard solution Ce=1.000 g/l for ICP

(CeO_2 in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1,23 g CeO_2 / l in HNO_3 2-5 %)
Concentration (as Ce) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.003 Al..... 0.004

As.....0.004 Au.....0.003 Ge.....0.003 Hf.....0.003
B.....0.007 Ba.....0.003 Hg.....0.003 Ho.....0.003
Be.....0.004 Bi.....0.003 In.....0.003 Ir.....0.003
Ca.....0.436 Cd.....0.003 K.....0.007 La.....0.538
Co.....0.003 Cr.....0.003 Li.....0.004 Lu.....0.003
Cs.....0.003 Cu.....0.003 Mg.....0.007 Mn.....0.003
Dy.....0.003 Er.....0.003 Mo.....0.004
Eu.....0.003 Fe.....0.216
Ga.....0.003 Gd.....0.003

Code	Packaging
765901.1208	100 ml

765903 Chloride standard solution Cl=1.000 g/l for ICP

(KCl in H_2O) for ICP

CS 38220000

Density ..... 1.00 kg/l
Liquid

WGK 1
Storage RT

Specifications
Composition (2,1 g KCl / l H_2O)
Concentration (as Cl) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Code	Packaging
765903.1208	100 ml

766043 Chromium standard solution Cr=1.000 g/l for ICP

(Cr in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Cr / l in HNO_3 2-5 %)
Concentration (as Cr) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.043 Al..... 0.012

As.....0.007 Au.....0.002 Ge.....0.002 Hf.....0.002
B.....0.005 Ba.....0.002 Hg.....0.006 Ho.....0.002
Be.....0.004 Bi.....0.002 In.....0.002 Ir.....0.002
Ca.....0.016 Cd.....0.002 K.....0.025 La.....0.002
Ce.....0.002 Co.....0.002 Li.....0.002 Lu.....0.002
Cs.....0.002 Cu.....0.021 Mg.....0.006 Mn.....0.003
Dy.....0.002 Er.....0.002 Mo.....0.012
Eu.....0.002 Fe.....0.101
Ga.....0.002 Gd.....0.002

Code	Packaging
766043.1208	100 ml

766041 Cobalt standard solution Co=1.000 g/l for ICP

(Co in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 3
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Co / l in HNO_3 2-5 %)
Concentration (as Co) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.043 Al..... 0.006

As.....0.003 Au.....0.002 Ge.....0.002 Hf.....0.002
B.....0.006 Ba.....0.002 Hg.....0.002 Ho.....0.002
Be.....0.003 Bi.....0.002 In.....0.002 Ir.....0.002
Ca.....0.007 Cd.....0.001 K.....0.006 La.....0.002
Ce.....0.002 Cr.....0.002 Li.....0.003 Lu.....0.002
Cs.....0.002 Cu.....0.004 Mg.....0.006 Mn.....0.001
Dy.....0.002 Er.....0.002 Mo.....0.003
Eu.....0.002 Fe.....0.006
Ga.....0.002 Gd.....0.002

Code	Packaging
766041.1208	100 ml

766042 Copper standard solution Cu=1.000 g/l for ICP

(Cu in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 3
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Cu / l in HNO_3 2-5 %)
Concentration (as Cu) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.002 Al..... 0.003

As.....0.002 Au.....0.002 Ge.....0.002 Hf.....0.002
B.....0.006 Ba.....0.002 Hg.....0.002 Ho.....0.002
Be.....0.003 Bi.....0.002 In.....0.002 Ir.....0.002
Ca.....0.008 Cd.....0.002 K.....0.008 La.....0.002
Ce.....0.002 Co.....0.002 Li.....0.003 Lu.....0.002
Cr.....0.002 Cs.....0.002 Mg.....0.007 Mn.....0.002
Dy.....0.002 Er.....0.002 Mo.....0.003
Eu.....0.002 Fe.....0.002
Ga.....0.002 Gd.....0.002

Code	Packaging
766042.1208	100 ml

765904 Dysprosium standard solution Dy=1.000 g/l for ICP

(DY_2O_3 in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1,15 g DY_2O_3 / l in HNO_3 2-5 %)
Concentration (as Dy(3+)) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.002 ..... 0.003

As.....0.003 Au.....0.002 Ge.....0.002 Hf.....0.002
B.....0.006 Ba.....0.002 Hg.....0.002 Ho.....0.024
Be.....0.003 Bi.....0.002 In.....0.002 Ir.....0.002
Ca.....0.064 Cd.....0.002 K.....0.007 La.....0.058
Ce.....0.024 Co.....0.007 Li.....0.003 Lu.....0.058
Cr.....0.007 Cs.....0.002 Mg.....0.007 Mn.....0.007
Cu.....0.007 Er.....0.012 Mo.....0.008
Eu.....0.024 Fe.....0.059
Ga.....0.002 Gd.....0.024

Code	Packaging
765904.1208	100 ml

НеваРеактив

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765908 Gadolinium standard solution Gd=1.000 g/l for ICP

(Gd2O3 in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1,16 g Gd2O3 / l in HNO_3 2-5 %)
Concentration (as Gd) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]

Ag	0.003	Al	0.014	As	0.005	Au	0.002
B	0.006	Ba	0.002	Be	0.004	Bi	0.002
Ca	0.018	Cd	0.002	Ce	0.013	Co	0.002
Cr	0.002	Cs	0.002	Cu	0.002	Dy	0.003
Er	0.003	Eu	0.003	Fe	0.006	Ga	0.004
Ge	0.002	Hf	0.002	Hg	0.002	Ho	0.004
In	0.003	Ir	0.002	K	0.011	La	0.006
Li	0.003	Lu	0.003	Mg	0.007	Mn	0.003
Mo	0.003						

Code	Packaging
765908.1208	100 ml

765909 Gallium standard solution Ga=1.000 g/l for ICP

(Ga2O3 in HNO_3 2-5 % + traces HCl) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Ga / l in HNO_3 2-5 % + traces HCl)
Concentration (as Ga) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]

Ag	0.003	Al	0.007	As	0.004	Au	0.002
B	0.007	Ba	0.006	Be	0.004	Bi	0.021
Ca	0.017	Cd	0.011	Ce	0.002	Co	0.006
Cr	0.006	Cs	0.002	Cu	0.006	Dy	0.002
Er	0.002	Eu	0.002	Fe	0.012	Gd	0.002
Ge	0.021	Hf	0.003	Hg	0.011	Ho	0.002
In	0.021	Ir	0.002	K	0.015	La	0.002
Li	0.004	Lu	0.002	Mg	0.015	Mn	0.006
Mo	0.007						

Code	Packaging
765909.1208	100 ml

765910 Germanium standard solution Ge=1.000 g/l for ICP

(Ge in HNO_3 2-5 % + traces HF) for ICP

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.01 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Ge / l in HNO_3 2-5 % + traces HF)
Concentration (as Ge) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]

Ag	0.002	Al	0.004	As	0.008	Au	0.002
B	0.007	Ba	0.003	Be	0.003	Bi	0.003
Ca	0.009	Cd	0.002	Ce	0.002	Co	0.002
Cr	0.002	Cs	0.002	Cu	0.002	Dy	0.002
Er	0.002	Eu	0.002	Fe	0.007	Ga	0.003
Gd	0.002	Hf	0.002	Hg	0.002	Ho	0.002
In	0.006	Ir	0.002	K	0.007	La	0.002
Li	0.003	Lu	0.002	Mg	0.007	Mn	0.002
Mo	0.003						

Code	Packaging
765910.1208	100 ml

766061 Gold standard solution Au=1.000 g/l for ICP

(Au in HCl 20 %) for ICP

CS 28061000

Melting Point ..... -25 °C
Boiling Point ..... 107 °C
Density ..... 1.09 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Au / l in HCl 10-20 %)
Concentration (as Au) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]

Ag	0.021	Al	0.008	As	0.007	B	0.006
Ba	0.002	Be	0.003	Bi	0.002	Ca	0.027
Cd	0.006	Ce	0.002	Co	0.006	Cr	0.006
Cs	0.002	Cu	0.021	Dy	0.002	Er	0.002
Eu	0.002	Fe	0.027	Ga	0.002	Gd	0.002
Ge	0.002	Hf	0.002	Hg	0.006	Ho	0.002
In	0.002	Ir	0.011	K	0.055	La	0.002
Li	0.004	Lu	0.002	Mg	0.025	Mn	0.006
Mo	0.007						

Code	Packaging
766061.1208	100 ml

765913 Indium standard solution In=1.000 g/l for ICP

(In2O3 in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g In / l in HNO_3 2-5 %)
Concentration (as In) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]

Ag	0.003	Al	0.007	As	0.004	Au	0.002
B	0.007	Ba	0.006	Be	0.004	Bi	0.021
Ca	0.016	Cd	0.011	Ce	0.002	Co	0.006
Cr	0.006	Cs	0.002	Cu	0.006	Dy	0.002
Er	0.002	Eu	0.002	Fe	0.011	Ga	0.021
Gd	0.002	Ge	0.021	Hf	0.003	Hg	0.011
Ho	0.002	Ir	0.002	K	0.015	La	0.002
Li	0.004	Lu	0.002	Mg	0.015	Mn	0.006
Mo	0.007						

Code	Packaging
765913.1208	100 ml

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766049 Iron standard solution Fe=1.000 g/l for ICP

(Fe in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Fe / l in HNO_3 2-5 %)
Concentration (as Fe) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.003 Al..... 0.007

As.....0.004 Au.....0.002 Ge.....0.002 Hf.....0.003
B.....0.008 Ba.....0.006 Hg.....0.004 Ho.....0.002
Be.....0.003 Bi.....0.002 In.....0.002 Ir.....0.002
Ca.....0.016 Cd.....0.006 K.....0.015 La.....0.002
Ce.....0.002 Co.....0.011 Li.....0.004 Lu.....0.002
Cr.....0.011 Cs.....0.002 Mg.....0.01 Mn.....0.021
Cu.....0.021 Dy.....0.002 Mo.....0.012
Er.....0.002 Eu.....0.002
Ga.....0.002 Gd.....0.002

Code	Packaging
766049.1208	100 ml

766063 Lead standard solution Pb=1.000 g/l for ICP

(Pb in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Pb / l in HNO_3 2-5 %)
Concentration (as Pb) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.051 Al..... 0.012

As.....0.102 Au.....0.002 Gd.....0.002 Ge.....0.002
B.....0.006 Ba.....0.006 Hf.....0.002 Hg.....0.006
Be.....0.007 Bi.....0.101 Ho.....0.002 In.....0.003
Ca.....0.016 Cd.....0.011 Ir.....0.002 K.....0.015
Ce.....0.002 Co.....0.006 La.....0.002 Li.....0.004
Cr.....0.006 Cs.....0.002 Lu.....0.002 Mg.....0.015
Cu.....0.021 Dy.....0.002 Mn.....0.006
Er.....0.002 Eu.....0.002
Fe.....0.011 Ga.....0.002

Code	Packaging
766063.1208	100 ml

766059 Lithium standard solution Li=1.000 g/l for ICP

(Li2CO_3 in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (5,33 g Li2CO_3 / l in HNO_3 2-5 %)
Concentration (as Li) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.007 Al..... 0.008

As.....0.008 Au.....0.007 Gd.....0.006 Ge.....0.007
B.....0.01 Ba.....0.007 Hf.....0.006 Hg.....0.007
Be.....0.007 Bi.....0.007 Ho.....0.006 In.....0.007
Ca.....0.013 Cd.....0.007 Ir.....0.006 K.....0.011
Ce.....0.006 Co.....0.007 La.....0.006 Lu.....0.006
Cr.....0.007 Cs.....0.006 Mg.....0.011 Mn.....0.007
Cu.....0.007 Dy.....0.006 Mo.....0.007
Er.....0.006 Eu.....0.006
Fe.....0.007 Ga.....0.007

Code	Packaging
766059.1208	100 ml

765917 Lutetium standard solution Lu=1.000 g/l for ICP

(Lu2O3 in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK nwg
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1,14 g Lu2O3 / l in HNO_3 2-5 %)
Concentration (as Lu) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [mg/l]
Ag..... 0.001 Al..... 0.003

As.....0.002 Au.....0.001 Gd.....0.001 Ge.....0.001
B.....0.005 Ba.....0.001 Hf.....0.001 Hg.....0.001
Be.....0.002 Bi.....0.001 Ho.....0.001 In.....0.001
Ca.....0.031 Cd.....0.001 Ir.....0.001 K.....0.005
Ce.....0.001 Co.....0.001 La.....0.001 Li.....0.002
Cr.....0.002 Cs.....0.001 Mg.....0.006 Mn.....0.002
Cu.....0.003 Dy.....0.001 Mo.....0.002
Er.....0.001 Eu.....0.001
Fe.....0.003 Ga.....0.001

Code	Packaging
765917.1208	100 ml

766051 Magnesium standard solution Mg=1.000 g/l for ICP

(Mg in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Mg / l in HNO_3 2-5 %)
Concentration (as Mg) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.002 Al..... 0.004

As.....0.003 Au.....0.002 Gd.....0.002 Ge.....0.002
B.....0.006 Ba.....0.006 Hf.....0.002 Hg.....0.002
Be.....0.004 Bi.....0.001 Ho.....0.002 In.....0.002
Ca.....0.011 Cd.....0.001 Ir.....0.002 K.....0.007
Ce.....0.002 Co.....0.001 La.....0.002 Li.....0.004
Cr.....0.001 Cs.....0.002 Lu.....0.002 Mn.....0.001
Cu.....0.001 Dy.....0.002 Mo.....0.003
Er.....0.002 Eu.....0.002
Fe.....0.001 Ga.....0.002

Code	Packaging
766051.1208	100 ml

766052 Manganese standard solution Mn=1.000 g/l for ICP

(Mn in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.01 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Mn / l in HNO_3 2-5 %)
Concentration (as Mn) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.002 Al..... 0.004

As .....0.012 Au..... 0.002 Gd ..... 0.002 Ge 0.002
B .....0.006 Ba..... 0.002 Hf ..... 0.002 Hg 0.002
Be .....0.003 Bi ..... 0.002 Ho ..... 0.002 In..... 0.002
Ca .....0.026 Cd..... 0.003 Ir..... 0.002 K 0.025
Ce .....0.002 Co..... 0.011 La ..... 0.002 Li..... 0.004
Cr.....0.011 Cs..... 0.002 Lu ..... 0.002 Mg..... 0.025
Cu .....0.011 Dy..... 0.002 Mo 0.007
Er.....0.002 Eu..... 0.002
Fe .....0.002 Ga..... 0.002

Code	Packaging
766052.1208	100 ml

766060 Mercury standard solution Hg=1.000 g/l for ICP

(Hg in HNO_3 2-5 %) for ICP

CS 28054090

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN2024
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage RT

Danger



H332 H312 H302 H373 H319 H335 H315

Specifications
Composition (1 g Hg / l in HNO_3 2-5 %)
Concentration (as Hg) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.044 Al..... 0.002

As .....0.003 Au..... 0.002 Gd ..... 0.002 Ge 0.002
B .....0.006 Ba..... 0.001 Hf ..... 0.002 Ho 0.002
Be .....0.002 Bi ..... 0.001 In ..... 0.001 Ir..... 0.002
Ca .....0.006 Cd..... 0.001 K..... 0.005 La..... 0.002
Ce .....0.002 Co..... 0.001 Li ..... 0.002 Lu..... 0.002
Cr.....0.001 Cs..... 0.002 Mg ..... 0.005 Mn..... 0.001
Cu .....0.001 Dy..... 0.002 Mo 0.002
Er.....0.002 Eu..... 0.002
Fe .....0.001 Ga..... 0.002

Code	Packaging
766060.1208	100 ml

766053 Molybdenum standard solution Mo=1.000 g/l for ICP

(Mo in HNO_3 2-5 % + traces HF) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Mo / l in HNO_3 2-5 % + traces HF)
Concentration (as Mo) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag .....0.015 Al .....0.03 Er ..... 0.01 Eu 0.01
As .....0.025 Au..... 0.011 Fe..... 0.016 Ga..... 0.011
B .....0.049 Ba..... 0.015 Gd ..... 0.01 Ge..... 0.011
Be .....0.02 Bi ..... 0.012 Hf ..... 0.01 Hg 0.013
Ca .....0.101 Cd..... 0.013 Ho ..... 0.01 In..... 0.011
Ce .....0.01 Co..... 0.013 Ir..... 0.01 K 0.059
Cr.....0.013 Cs..... 0.01 La ..... 0.01 Li..... 0.021
Cu .....0.02 Dy..... 0.01 Lu ..... 0.01 Mg..... 0.099
Mn 0.015

Code	Packaging
766053.1208	100 ml

766054 Nickel standard solution Ni=1.000 g/l for ICP

(Ni in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Ni / l in HNO_3 2-5 %)
Concentration (as Ni) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.043 Al..... 0.003

As .....0.004 Au..... 0.002 Gd ..... 0.002 Ge 0.002
B .....0.006 Ba..... 0.002 Hf ..... 0.002 Hg 0.003
Be .....0.003 Bi ..... 0.002 Ho ..... 0.002 In..... 0.002
Ca .....0.026 Cd..... 0.002 Ir..... 0.002 K 0.01
Ce .....0.002 Co..... 0.006 La ..... 0.002 Li..... 0.003
Cr.....0.002 Cs..... 0.002 Lu ..... 0.002 Mg..... 0.008
Cu .....0.011 Dy..... 0.002 Mn 0.003
Er.....0.002 Eu..... 0.002
Fe .....0.201 Ga..... 0.002

Code	Packaging
766054.1208	100 ml

765919 Niobium standard solution Nb=1.000 g/l for ICP

(Nb in HF 5 %) for ICP

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.02 kg/l
Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
Storage RT

Danger



H331 H311 H301 H314

Specifications
Composition (1 g Nb / l in HF 5 %)
Concentration (as Nb) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.002 Al..... 0.003

As .....0.006 Au..... 0.002 Gd ..... 0.002 Ge 0.002
B .....0.005 Ba..... 0.003 Hf ..... 0.301 Hg 0.005
Be .....0.003 Bi ..... 0.002 Ho ..... 0.002 In..... 0.002
Ca .....0.008 Cd..... 0.002 Ir..... 0.002 K 0.007
Ce .....0.002 Co..... 0.002 La ..... 0.002 Li..... 0.003
Cr.....0.011 Cs..... 0.002 Lu ..... 0.002 Mg..... 0.007
Cu .....0.002 Dy..... 0.002 Mn 0.003
Er.....0.002 Eu..... 0.002
Fe .....0.102 Ga..... 0.003

Code	Packaging
765919.1208	100 ml

765920 Nitrogen standard solution N=1.000 g/l for ICP

($(NH_4)2SO_4$ in H_2O] for ICP

CAS 7783-20-2

EC [illegible]-984-1

CS [illegible]

Density ..... 1.01 kg/l
Liquid

Storage RT

Specifications
Composition (4 [illegible] $(NH_4)2SO_4$ / l H_2O)
Concentration (as [illegible] ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Code	Packaging
765920.1208	100 ml

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НеваРеактив

765922 Palladium standard solution Pd=1.000 g/l for ICP

(Pd in HCl 20 %) for ICP

CS 28061000

Melting Point ..... -25 °C
Boiling Point ..... 107 °C
Density ..... 1.05 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Pd / l in HCl 10-20 %)
Concentration (as Pd) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.004 Al..... 0.007 As.....0.004 B .....0.003 Be .....0.002 Ca .....0.021 Ce .....0.001 Cr.....0.001 Cu .....0.011 Er .....0.001 Fe.....0.009 Au .....0.003 Ba .....0.003 Bi .....0.003 Cd .....0.001 Co .....0.001 Cs .....0.001 Dy .....0.001 Eu .....0.001 Ga.....0.003 Gd ..... 0.001 Hf..... 0.001 Ho..... 0.001 Ir ..... 0.001 La ..... 0.001 Lu ..... 0.001 Mn ..... 0.001 Ge ..... 0.001 Hg ..... 0.003 In ..... 0.002 K..... 0.008 Li ..... 0.002 Mg 0.005

Code	Packaging
765922.1208	100 ml

766384 Phosphorus standard solution P=1.000 g/l for ICP

(KH_2PO_4 in H_2O) for ICP

CS 38220000

Boiling Point ..... 100 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Danger



H314

Specifications
Composition (3,164 g $H3PO_4$ / l in HNO_3 2-5 %)
Concentration (as P) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag .....0.005 As.....0.002 B .....0.009 Be .....0.006 Ca .....0.007 Ce .....0.005 Cr.....0.001 Cu .....0.001 Al .....0.003 Au .....0.005 Ba .....0.002 Bi .....0.005 Cd .....0.001 Co .....0.001 Cs .....0.005 Dy .....0.005 Er..... 0.005 Fe..... 0.002 Gd ..... 0.005 Hf..... 0.005 Ho..... 0.005 Ir ..... 0.005 La ..... 0.005 Lu ..... 0.005 Mn ..... 0.001 Eu..... 0.005 Ga ..... 0.005 Ge ..... 0.005 Hg ..... 0.001 In ..... 0.005 K..... 0.006 Li ..... 0.002 Mg 0.006

Code	Packaging
766384.1208	100 ml

765923 Platinum standard solution Pt=1.000 g/l for ICP

(Pt in HCl 20 %) for ICP

CS 28061000

Melting Point ..... -25 °C
Boiling Point ..... 107 °C
Density ..... 1.05 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Pt / l in HCl 10-20 %)
Concentration (as Pt) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.011 Al..... 0.014 As.....0.008 B .....0.005 Be .....0.003 Ca .....0.018 Ce .....0.002 Cr.....0.006 Cu .....0.006 Er .....0.002 Fe.....0.009 Au .....0.004 Ba .....0.003 Bi .....0.003 Cd .....0.006 Co .....0.006 Cs .....0.002 Dy .....0.002 Eu .....0.002 Ga.....0.003 Gd ..... 0.002 Hf..... 0.002 Ho..... 0.002 Ir ..... 0.051 La ..... 0.002 Lu ..... 0.002 Mn ..... 0.006 Ge ..... 0.002 Hg ..... 0.004 In ..... 0.002 K..... 0.017 Li ..... 0.004 Mg 0.01

Code	Packaging
765923.1208	100 ml

766050 Potassium standard solution K=1.000 g/l for ICP

(KNO_3 in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (2,586 g KNO_3 / l in HNO_3 2-5 %)
Concentration (as K) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.004 Al..... 0.002 As.....0.005 B .....0.007 Be .....0.005 Ca .....0.006 Ce .....0.004 Cr.....0.004 Cu .....0.001 Er .....0.004 Fe.....0.002 Au .....0.004 Ba .....0.004 Bi .....0.004 Cd .....0.001 Co .....0.001 Cs .....0.014 Dy .....0.004 Eu .....0.004 Ga.....0.004 Gd ..... 0.004 Hf..... 0.004 Ho..... 0.004 Ir ..... 0.004 Li ..... 0.002 Mg ..... 0.006 Mo ..... 0.005 Ge ..... 0.004 Hg ..... 0.001 In ..... 0.004 La ..... 0.004 Lu ..... 0.004 Mn 0.001

Code	Packaging
766050.1208	100 ml

765926 Rhodium standard solution Rh=1.000 g/l for ICP

($RhCl3.3H_2O$ in HCl 20 %) for ICP

CS 28061000

Melting Point ..... -25 °C
Boiling Point ..... 107 °C
Density ..... 1.06 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (2,558 g RhCl3·3H2 O / l in HCl 10-20 %)
Concentration (as Rh) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag .....0.021 As.....0.004 B .....0.006 Be .....0.003 Ca .....0.043 Ce .....0.002 Cr.....0.021 Cu .....0.051 Al .....0.005 Au .....0.007 Ba .....0.003 Bi .....0.032 Cd .....0.002 Co .....0.006 Cs .....0.002 Dy .....0.002 Er..... 0.002 Fe..... 0.204 Gd ..... 0.002 Hf..... 0.002 Ho..... 0.002 Ir ..... 0.151 La ..... 0.002 Lu ..... 0.002 Mn ..... 0.002 Eu..... 0.002 Ga ..... 0.003 Ge ..... 0.002 Hg ..... 0.003 In ..... 0.002 K..... 0.017 Li ..... 0.003 Mg 0.01

Code	Packaging
765926.1208	100 ml

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765927 Rubidium standard solution Rb=1.000 g/l for ICP

($Rb2CO_3$ in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1,36 g $Rb2CO_3$ / l in HNO_3 2-5 %)
Concentration (as Rb) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]

Ag	0.002	Al	0.008	Er	0.002	Eu	0.002
As	0.004	Au	0.003	Fe	0.008	Ga	0.003
B	0.006	Ba	0.015	Gd	0.002	Ge	0.003
Be	0.003	Bi	0.003	Hf	0.002	Hg	0.002
Ca	0.01	Cd	0.002	Ho	0.002	In	0.002
Ce	0.002	Co	0.002	Ir	0.002	K	1.746
Cr	0.002	Cs	0.477	La	0.002	Li	0.029
Cu	0.002	Dy	0.002	Lu	0.002	Mg	0.009
				Mn	0.002		

Code	Packaging
765927.1208	100 ml

765928 Ruthenium standard solution Ru=1.000 g/l for ICP

($RuCl3.3H_2O$ in HCl 20 %) for ICP

CS 28061000

Melting Point ..... -25 °C
Boiling Point ..... 107 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (2,6 g $RuCl3{\cdot}3H_2O$ / l in HCl 10-20 %)
Concentration (as Ru) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability .... NIST SRM not available for this element
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]

Ag	0.004	Al	0.017	Er	0.003	Eu	0.003
As	0.006	Au	0.005	Fe	0.326	Ga	0.005
B	0.03	Ba	0.005	Gd	0.003	Ge	0.003
Be	0.004	Bi	0.005	Hf	0.003	Hg	0.005
Ca	0.117	Cd	0.03	Ho	0.003	In	0.004
Ce	0.003	Co	0.004	Ir	0.003	K	0.009
Cr	0.006	Cs	0.003	La	0.003	Li	0.004
Cu	0.027	Dy	0.003	Lu	0.003	Mg	0.008
				Mn	0.017		

Code	Packaging
765928.1208	100 ml

765930 Scandium standard solution Sc=1.000 g/l for ICP

($Sc2O3$ in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1,534 g Sc / l in HNO_3 2-5 %)
Concentration (as Sc) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.004 Al 0.005

As	0.003	Au	0.002	Gd	0.002	Ge	0.002
B	0.006	Ba	0.002	Hf	0.002	Hg	0.002
Be	0.003	Bi	0.002	Ho	0.002	In	0.002
Ca	0.036	Cd	0.002	Ir	0.002	K	0.006
Ce	0.002	Co	0.002	La	0.002	Li	0.003
Cr	0.002	Cs	0.002	Lu	0.002	Mg	0.006
Cu	0.011	Dy	0.002	Mn	0.002		
Er	0.002	Eu	0.002				
Fe	0.002	Ga	0.002				

Code	Packaging
765930.1208	100 ml

766055 Selenium standard solution Se=1.000 g/l for ICP

(Se in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Se / l in HNO_3 2-5 %)
Concentration (as Se) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.056 Al 0.003

As	0.003	Au	0.002	Gd	0.002	Ge	0.002
B	0.006	Ba	0.002	Hf	0.002	Hg	0.001
Be	0.003	Bi	0.002	Ho	0.002	In	0.002
Ca	0.007	Cd	0.001	Ir	0.002	K	0.006
Ce	0.002	Co	0.002	La	0.002	Li	0.003
Cr	0.002	Cs	0.002	Lu	0.002	Mg	0.006
Cu	0.001	Dy	0.002	Mn	0.002		
Er	0.002	Eu	0.002				
Fe	0.002	Ga	0.002				

Code	Packaging
766055.1208	100 ml

765997 Silicon standard solution Si=1.000 g/l for ICP

[(NH_4)2SiF6 in HF 5 %] for ICP

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.03 kg/l
Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
Storage RT

Danger



H331 H311 H301 H314

Specifications
Composition (6,336 g (NH_4)2SiF6 / l in HF 5 %)
Concentration (as Si) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]

Ag	0.007	Al	0.009	Er	0.007	Eu	0.007
As	0.009	Au	0.008	Fe	0.008	Ga	0.008
B	0.011	Ba	0.008	Gd	0.007	Ge	0.008
Be	0.008	Bi	0.008	Hf	0.007	Hg	0.008
Ca	0.013	Cd	0.007	Ho	0.007	In	0.007
Ce	0.007	Co	0.007	Ir	0.007	K	0.012
Cr	0.007	Cs	0.007	La	0.007	Li	0.008
Cu	0.007	Dy	0.007	Lu	0.007	Mg	0.012
				Mn	0.007		

Code	Packaging
765997.1208	100 ml

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766062 Silver standard solution Ag=1.000 g/l for ICP

(Ag in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Ag / l in HNO_3 2-5 %)
Concentration (as Ag) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Al ..... 0.012 As ..... 0.012 Au ..... 0.011 B ..... 0.015 Ba ..... 0.011 Be ..... 0.012 Bi ..... 0.011 Ca ..... 0.016 Cd ..... 0.011 Ce ..... 0.011 Co ..... 0.011 Cr ..... 0.011 Cs ..... 0.011 Cu ..... 0.051 Dy ..... 0.011 Er ..... 0.011 Eu ..... 0.011 Fe ..... 0.011 Ga ..... 0.011 Gd ..... 0.011 Ge ..... 0.011 Hf ..... 0.011 Hg ..... 0.011 Ho ..... 0.011 In ..... 0.011 Ir ..... 0.011 K ..... 0.015 La ..... 0.011 Li ..... 0.012 Lu ..... 0.011 Mg ..... 0.015 Mn ..... 0.011 Mo 0.012

Code	Packaging
766062.1208	100 ml

766056 Sodium standard solution Na=1.000 g/l for ICP

($NaNO_3$ in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (3,698 g $NaNO_3$ / l in HNO_3 2-5 %)
Concentration (as Na) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.005 Al ..... 0.002 As ..... 0.006 Au ..... 0.005 B ..... 0.009 Ba ..... 0.02 Be ..... 0.006 Bi ..... 0.005 Ca ..... 0.006 Cd ..... 0.001 Ce ..... 0.005 Co ..... 0.001 Cr ..... 0.001 Cs ..... 0.019 Cu ..... 0.001 Dy ..... 0.005 Er ..... 0.005 Eu ..... 0.005 Fe ..... 0.002 Ga ..... 0.005 Gd ..... 0.005 Ge ..... 0.005 Hf ..... 0.005 Hg ..... 0.005 Ho ..... 0.005 In ..... 0.005 Ir ..... 0.005 K ..... 0.024 La ..... 0.005 Li ..... 0.006 Lu ..... 0.005 Mg ..... 0.005 Mn 0.001

Code	Packaging
766056.1208	100 ml

766048 Strontium standard solution Sr=1.000 g/l for ICP

($SrCO_3$ in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1,685 g $SrCO_3$ / l in HNO_3 2-5 %)
Concentration (as Sr) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.045 Al ..... 0.004 As ..... 0.004 Au ..... 0.003 B ..... 0.007 Ba ..... 0.003 Be ..... 0.004 Bi ..... 0.003 Ca ..... 0.008 Cd ..... 0.003 Ce ..... 0.003 Co ..... 0.003 Cr ..... 0.003 Cs ..... 0.003 Cu ..... 0.003 Dy ..... 0.003 Er ..... 0.003 Eu ..... 0.003 Fe ..... 0.003 Ga ..... 0.003 Gd ..... 0.003 Ge ..... 0.003 Hf ..... 0.003 Hg ..... 0.003 Ho ..... 0.003 In ..... 0.003 Ir ..... 0.003 K ..... 0.007 La ..... 0.003 Li ..... 0.004 Lu ..... 0.003 Mg ..... 0.007 Mn 0.003

Code	Packaging
766048.1208	100 ml

765898 Sulfur standard solution S=1.000 g/l for ICP

(H_2SO_4 in H_2O) for ICP

CAS 7664-93-9
EINECS 231-639-5
CS 28070000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.00 kg/l
Liquid

Storage RT

Specifications
Composition (3,059 g H_2SO_4 / l H_2O)
Concentration (as S) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.001 Al ..... 0.002 As ..... 0.002 Au ..... 0.001 B ..... 0.008 Ba ..... 0.001 Be ..... 0.002 Bi ..... 0.001 Ca ..... 0.005 Cd ..... 0.001 Ce ..... 0.004 Co ..... 0.001 Cr ..... 0.001 Cs ..... 0.004 Cu ..... 0.001 Dy ..... 0.004 Er ..... 0.004 Eu ..... 0.004 Fe ..... 0.001 Ga ..... 0.001 Gd ..... 0.004 Ge ..... 0.001 Hf ..... 0.004 Hg ..... 0.001 Ho ..... 0.004 In ..... 0.001 Ir ..... 0.004 K ..... 0.005 La ..... 0.004 Li ..... 0.002 Lu ..... 0.004 Mg ..... 0.005 Mn 0.001

Code	Packaging
765898.1208	100 ml

765932 Tantalum standard solution Ta=1.000 g/l for ICP

(Ta in HF 5 %) for ICP

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.02 kg/l
Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
Storage RT

Danger



H331 H311 H301 H314

Specifications
Composition (1 g Ta / l in HF 5 %)
Concentration (as Ta) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.002 Al ..... 0.013 As ..... 0.005 Au ..... 0.002 B ..... 0.006 Ba ..... 0.003 Be ..... 0.003 Bi ..... 0.002 Ca ..... 0.008 Cd ..... 0.002 Ce ..... 0.002 Co ..... 0.002 Cr ..... 0.014 Cs ..... 0.002 Cu ..... 0.002 Dy ..... 0.002 Er ..... 0.002 Eu ..... 0.002 Fe ..... 0.012 Ga ..... 0.003 Gd ..... 0.002 Ge ..... 0.002 Hf ..... 0.002 Hg ..... 0.004 Ho ..... 0.002 In ..... 0.002 Ir ..... 0.002 K ..... 0.021 La ..... 0.002 Li ..... 0.003 Lu ..... 0.002 Mg ..... 0.007 Mn 0.011

Code	Packaging
765932.1208	100 ml

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765933 Tellurium standard solution Te=1.000 g/l for ICP

(Te in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Te / l in HNO_3 2-5 % + traces HF)
Concentration (as Te) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]

Ag 0.044	Al 0.007	Er 0.002	Eu 0.002
As 0.012	Au 0.002	Fe 0.021	Ga 0.006
B 0.006	Ba 0.006	Gd 0.002	Ge 0.002
Be 0.003	Bi 0.002	Hf 0.002	Hg 0.002
Ca 0.016	Cd 0.002	Ho 0.002	In 0.006
Ce 0.002	Co 0.006	Ir 0.002	K 0.025
Cr 0.006	Cs 0.002	La 0.002	Li 0.007
Cu 0.006	Dy 0.002	Lu 0.002	Mg 0.01
		Mn 0.006	

Code	Packaging
765933.1208	100 ml

765934 Terbium standard solution Tb=1.000 g/l for ICP

(Tb4O7 in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.022 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1,18 g Tb4O7 / l in HNO_3 2-5 %)
Concentration (as Tb) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

As 0.003	Au 0.002	Gd 0.002	Ge 0.002
B 0.006	Ba 0.002	Hf 0.002	Hg 0.002
Be 0.003	Bi 0.002	Ho 0.002	In 0.002
Ca 0.008	Cd 0.002	Ir 0.002	K 0.006
Ce 0.001	Co 0.002	La 0.001	Li 0.003
Cr 0.002	Cs 0.002	Lu 0.006	Mg 0.006
Cu 0.002	Dy 0.002	Mn 0.002	
Er 0.004	Eu 0.002		
Fe 0.002	Ga 0.005		

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.002 Al 0.011

Code	Packaging
765934.1208	100 ml

765931 Thallium standard solution Tl=1.000 g/l for ICP

(Tl in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H332 H302 H319 H315

Specifications
Composition (1 g Tl / l in HNO_3 2-5 %)
Concentration (as Tl) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

As 0.005	Au 0.002	Gd 0.002	Ge 0.002
B 0.007	Ba 0.004	Hf 0.002	Hg 0.006
Be 0.004	Bi 0.003	Ho 0.002	In 0.003
Ca 0.056	Cd 0.006	Ir 0.002	K 0.055
Ce 0.002	Co 0.006	La 0.002	Li 0.007
Cr 0.006	Cs 0.006	Lu 0.002	Mg 0.01
Cu 0.006	Dy 0.002	Mn 0.006	
Er 0.002	Eu 0.002		
Fe 0.006	Ga 0.002		

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.006 Al 0.004

Code	Packaging
765931.1208	100 ml

765935 Thorium standard solution Th=1.000 g/l for ICP

[$Th(NO_3)4.5H_2O$ in HNO_3 10 %] for ICP

CS 28443051

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.08 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Danger



H314

Specifications
Composition (2,46 g $Th(NO_3)4 \cdot 5H2 O$ / l in HNO_3 10 %)
Concentration (as Th) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Ag 0.026	Al 0.052	Er 0.05	Eu 0.05
As 0.052	Au 0.007	Fe 0.028	Ga 0.007
B 0.017	Ba 0.014	Gd 0.05	Ge 0.027
Be 0.007	Bi 0.007	Hf 0.006	Hg 0.014
Ca 0.072	Cd 0.026	Ho 0.05	In 0.006
Ce 0.05	Co 0.026	Ir 0.003	K 0.129
Cr 0.026	Cs 0.006	La 0.124	Li 0.014
Cu 0.075	Dy 0.05	Lu 0.05	Mg 0.056
		Mn 0.026	

Code	Packaging
765935.1208	100 ml

766047 Tin standard solution Sn=1.000 g/l for ICP

(Sn in HCl 20 %) for ICP

CS 28061000

Melting Point ..... -25 °C
Boiling Point ..... 107 °C
Density ..... 1.10 kg/l
Liquid

UN1789
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Sn / l in HCl 10-20 %)
Concentration (as Sn) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

As 0.008	Au 0.007	Gd 0.001	Ge 0.002
B 0.002	Ba 0.01	Hf 0.001	Hg 0.01
Be 0.004	Bi 0.046	Ho 0.001	In 0.007
Ca 0.043	Cd 0.006	Ir 0.001	K 0.061
Ce 0.001	Co 0.006	La 0.001	Li 0.006
Cr 0.006	Cs 0.001	Lu 0.001	Mg 0.016
Cu 0.011	Dy 0.001	Mn 0.006	
Er 0.001	Eu 0.001		
Fe 0.061	Ga 0.01		

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.003 Al 0.013

Code	Packaging
766047.1208	100 ml

НеваРеактив

766057 Titanium standard solution Ti=1.000 g/l for ICP

(Ti in HF 5 %) for ICP

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.02 kg/l
Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
Storage RT

Danger



H331 H311 H301 H314

Code	Packaging
766057.1208	100 ml

Specifications
Composition (1 g Ti / l in HF 5 %)
Concentration (as Ti) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.002 Al 0.007

As 0.014
B 0.009
Be 0.004
Ca 0.056
Ce 0.002
Cr 0.006
Cu 0.006
Er 0.002
Fe 0.052
Au 0.002
Ba 0.007
Bi 0.002
Cd 0.011
Co 0.006
Cs 0.002
Dy 0.002
Eu 0.002
Ga 0.003
Gd 0.002
Hf 0.002
Ho 0.002
Ir 0.002
La 0.002
Lu 0.002
Mn 0.006
Ge 0.002
Hg 0.013
In 0.002
K 0.026
Li 0.003
Mg 0.015

765937 Uranium standard solution U=1.000 g/l for ICP

(U in HNO_3 2-5 %) for ICP

CS 28443019

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Code	Packaging
765937.1208	100 ml

Specifications
Composition (1 g U / l in HNO_3 2-5 %)
Concentration (as U) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.012 Al 0.013

As 0.013
B 0.011
Be 0.023
Ca 0.112
Ce 0.022
Cr 0.012
Cu 0.022
Er 0.022
Fe 0.022
Au 0.003
Ba 0.064
Bi 0.005
Cd 0.012
Co 0.012
Cs 0.022
Dy 0.022
Eu 0.022
Ga 0.003
Gd 0.022
Hf 0.003
Ho 0.022
Ir 0.003
La 0.043
Lu 0.022
Mn 0.012
Ge 0.012
Hg 0.005
In 0.003
K 0.069
Li 0.023
Mg 0.111

765938 Vanadium standard solution V=1.000 g/l for ICP

(V in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Code	Packaging
765938.1208	100 ml

Specifications
Composition (1 g V / l in HNO_3 2-5 %)
Concentration (as V) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.002 Al 0.003

As 0.003
B 0.006
Be 0.003
Ca 0.011
Ce 0.002
Cr 0.011
Cu 0.002
Er 0.002
Fe 0.021
Au 0.002
Ba 0.003
Bi 0.002
Cd 0.002
Co 0.002
Cs 0.002
Dy 0.002
Eu 0.002
Ga 0.002
Gd 0.002
Hf 0.002
Ho 0.002
Ir 0.002
La 0.002
Lu 0.002
Mn 0.002
Ge 0.002
Hg 0.002
In 0.002
K 0.055
Li 0.004
Mg 0.01

765939 Wolfram standard solution W=1.000 g/l for ICP

(W in HF 5 %) for ICP

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.02 kg/l
Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
Storage RT

Danger



H331 H311 H301 H314

Code	Packaging
765939.1208	100 ml

Specifications
Composition (1 g W / l in HF 5 %)
Concentration (as W) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.002 Al 0.007

As 0.006
B 0.005
Be 0.003
Ca 0.007
Ce 0.002
Cr 0.011
Cu 0.003
Er 0.002
Fe 0.052
Au 0.002
Ba 0.003
Bi 0.002
Cd 0.002
Co 0.006
Cs 0.002
Dy 0.002
Eu 0.002
Ga 0.003
Gd 0.002
Hf 0.002
Ho 0.002
Ir 0.002
La 0.002
Lu 0.002
Mn 0.002
Ge 0.002
Hg 0.005
In 0.002
K 0.008
Li 0.003
Mg 0.006

765915 Yttrium standard solution Y=1.000 g/l for ICP

(Y_2O_3 in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Code	Packaging
765915.1208	100 ml

Specifications
Composition (1,27 g Y_2O_3 / l HNO_3 2 %)
Concentration (as Y) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.005 Al 0.006

As 0.003
B 0.006
Be 0.003
Ca 0.012
Ce 0.014
Cr 0.002
Cu 0.002
Er 0.007
Fe 0.008
Au 0.002
Ba 0.002
Bi 0.002
Cd 0.002
Co 0.002
Cs 0.002
Dy 0.004
Eu 0.004
Ga 0.008
Gd 0.007
Hf 0.002
Ho 0.002
Ir 0.002
La 0.033
Lu 0.007
Mn 0.002
Ge 0.002
Hg 0.002
In 0.002
K 0.018
Li 0.003
Mg 0.007

HeBaPeakTMB

766058 Zinc standard solution Zn=1.000 g/l for ICP

(Zn in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (1 g Zn / l in HNO_3 2-5 %)
Concentration (as Zn) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.002 Al..... 0.003 As ..... 0.002 B ..... 0.006 Be ..... 0.003 Ca ..... 0.008 Ce ..... 0.002 Cr..... 0.002 Cu ..... 0.011 Er..... 0.002 Fe ..... 0.052 Au ..... 0.002 Ba ..... 0.002 Bi ..... 0.002 Cd..... 0.021 Co..... 0.002 Cs ..... 0.002 Dy..... 0.002 Eu..... 0.002 Ga..... 0.002 Gd ..... 0.002 Hf ..... 0.002 Ho ..... 0.002 Ir..... 0.002 La ..... 0.002 Lu ..... 0.002 Mn ..... 0.002 Ge ..... 0.002 Hg ..... 0.002 In..... 0.002 K ..... 0.006 Li..... 0.003 Mg..... 0.006

Code	Packaging
766058.1208	100 ml

765940 Zirconium standard solution Zr=1.000 g/l for ICP

(Zr in HF 5 %) for ICP

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.02 kg/l
Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
Storage RT

Danger



H331 H311 H301 H314

Specifications
Composition (1 g Zr / l in HF 5 %)
Concentration (as Zr) ..... 1.000 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.005 Al..... 0.075 As ..... 0.006 B ..... 0.007 Be ..... 0.005 Ca ..... 0.189 Ce ..... 0.004 Cr..... 0.178 Cu ..... 0.036 Er..... 0.004 Fe ..... 0.092 Au ..... 0.006 Ba ..... 0.006 Bi ..... 0.006 Cd..... 0.005 Co..... 0.005 Cs ..... 0.004 Dy..... 0.004 Eu..... 0.004 Ga..... 0.006 Gd ..... 0.004 Hf ..... 0.884 Ho ..... 0.004 Ir..... 0.004 La ..... 0.004 Lu ..... 0.004 Mn ..... 0.005 Ge ..... 0.004 Hg ..... 0.006 In..... 0.005 K ..... 0.024 Li..... 0.005 Mg..... 0.040

Code	Packaging
765940.1208	100 ml

ICP (INDUCTIVELY COUPLED PLASMA SPECTROSCOPY) STANDARDS (10000 mg/l)

775943 Aluminium standard solution Al=10.00 g/l for ICP

(Al in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.06 kg/l
Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (10 g Al / l in HNO_3 2-5 %)
Concentration (as Al) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.003 As..... 0.102 Au ..... 0.011 B ..... 0.01 Ba ..... 0.011 Be ..... 0.012 Bi ..... 0.002 Ca ..... 0.012 Cd ..... 0.011 Ce ..... 0.011 Co ..... 0.002 Cr..... 0.002 Cs ..... 0.011 Cu ..... 0.011 Dy ..... 0.011 Er..... 0.011 Eu ..... 0.011 Fe ..... 0.012 Ga..... 0.001 Gd..... 0.011 Ge ..... 0.002 Hg ..... 0.011 In ..... 0.011 K..... 0.015 Li ..... 0.012 Mg ..... 0.055 Mo ..... 0.003 Hf ..... 0.011 Ho ..... 0.011 Ir..... 0.011 La..... 0.011 Lu..... 0.011 Mn..... 0.001

Code	Packaging
775943.1208	100 ml

775945 Arsenic standard solution As=10.00 g/l for ICP

(As_2O_3 in HNO_3 2-5 %) for ICP

CS 28112910

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1556
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H350 H331 H301 H319 H335 H315 H412

Specifications
Composition (13,2 g As_2O_3 in HNO_3 2-5 %)
Concentration (as As 5+) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.056 Al..... 0.068 As ..... 0.014 B ..... 0.071 Ba ..... 0.014 Be ..... 0.015 Bi ..... 0.014 Ca ..... 0.072 Cd ..... 0.014 Ce ..... 0.014 Co ..... 0.067 Cr..... 0.067 Cs ..... 0.014 Cu ..... 0.014 Dy ..... 0.014 Er..... 0.014 Eu ..... 0.014 Fe ..... 0.028 Ga..... 0.014 Gd..... 0.014 Ge ..... 0.014 Hg ..... 0.014 In ..... 0.014 K..... 0.203 Li ..... 0.015 Mg ..... 0.071 Mo ..... 0.015 Hf ..... 0.014 Ho ..... 0.014 Ir..... 0.014 La..... 0.014 Lu..... 0.014 Mn..... 0.014

Code	Packaging
775945.1208	100 ml

775899 Beryllium standard solution Be=10.00 g/l for ICP

(Be in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
WGK 1
Storage RT

Danger



H350i H331 H311 H319 H335 H315 H317 H373

Specifications
Composition (10 g Be / l in HNO_3 2-5 %)
Concentration (as Be) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.021 Al..... 1.402 As ..... 0.052 B ..... 0.055 Bi ..... 0.031 Cd ..... 0.101 Co ..... 0.101 Cs ..... 0.011 Dy ..... 0.011 Eu ..... 0.011 Ga..... 0.011 Au ..... 0.011 Ba ..... 0.201 Ca ..... 0.458 Ce ..... 0.011 Cr..... 0.101 Cu ..... 0.201 Er..... 0.011 Fe ..... 3.702 Gd..... 0.011 Ge ..... 0.011 Hg ..... 0.051 In ..... 0.011 K..... 0.106 Li ..... 0.052 Mg ..... 3.306 Mo ..... 0.032 Hf ..... 0.011 Ho ..... 0.011 Ir..... 0.011 La..... 0.011 Lu..... 0.011 Mn..... 0.601

Code	Packaging
775899.1208	100 ml

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

775950 Calcium standard solution Ca=10.00 g/l for ICP

($CaCO_3$ in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.04 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (25 g $CaCO_3$ / l in HNO_3 2-5 %)
Concentration (as Ca) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.026 Al..... 0.127 As.....0.027 B .....0.055 Be .....0.027 Cd .....0.051 Co .....0.051 Cs .....2.501 Dy .....0.026 Eu .....0.026 Ga .....0.026 Au .....0.026 Ba .....5.001 Bi .....0.051 Ce .....0.026 Cr.....0.051 Cu .....0.051 Er.....0.026 Fe .....0.251 Gd.....0.026 Ge ..... 0.026 Hg..... 0.014 In ..... 0.026 K..... 0.505 Li ..... 0.077 Mg ..... 5.005 Mo ..... 0.052 Hf ..... 0.026 Ho ..... 0.026 Ir..... 0.026 La ..... 0.026 Lu ..... 0.026 Mn..... 0.051

Code	Packaging
775950.1208	100 ml

775952 Cesium standard solution Cs=10.00 g/l for ICP

(CS_2CO_3 in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (12,3 g CS_2CO_3 / l in HNO_3 2-5 %)
Concentration (as Cs) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag .....0.055 As.....0.014 B .....0.017 Be .....0.014 Ca .....0.067 Ce .....0.013 Cr.....0.245 Dy .....0.013 Al .....0.185 Au .....0.013 Ba .....0.306 Bi .....0.013 Cd .....0.013 Co .....0.013 Cu .....0.245 Er.....0.013 Eu.....0.013 Ga .....0.013 Ge .....0.013 Hg..... 0.013 In ..... 0.013 K..... 0.31 Li ..... 0.063 Mg ..... 0.017 Mo ..... 0.014 Fe..... 0.014 Gd ..... 0.013 Hf ..... 0.013 Ho ..... 0.013 Ir..... 0.013 La ..... 0.013 Lu ..... 0.013 Mn..... 0.013

Code	Packaging
775952.1208	100 ml

775953 Chloride standard solution Cl=10.00 g/l for ICP

(KCl in H_2O) for ICP

CS 38220000

Density ..... 1.02 kg/l
Liquid

WGK 1
Storage RT

Specifications
Composition (21 g KCl / l H_2O)
Concentration (as Cl) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Code	Packaging
775953.1208	100 ml

775956 Chromium standard solution Cr=10.00 g/l for ICP

(Cr in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (10 g Cr / l in HNO_3 2-5 %)
Concentration (as Cr) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.043 Al..... 0.102 As.....0.052 B .....0.007 Be .....0.022 Ca .....0.106 Ce .....0.011 Cs .....0.011 Dy .....0.011 Eu .....0.011 Ga .....0.011 Au .....0.011 Ba .....0.011 Bi .....0.011 Cd .....0.011 Co .....0.011 Cu .....0.201 Er.....0.011 Fe .....1.001 Gd.....0.011 Ge ..... 0.011 Hg..... 0.051 In ..... 0.011 K..... 0.205 Li ..... 0.002 Mg ..... 0.015 Mo ..... 0.102 Hf ..... 0.011 Ho ..... 0.011 Ir..... 0.011 La ..... 0.011 Lu ..... 0.011 Mn..... 0.021

Code	Packaging
775956.1208	100 ml

775955 Copper standard solution Cu=10.00 g/l for ICP

(Cu in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.04 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 3
Storage RT

Warning



H319 H335 H315

Specifications
Composition (10 g Cu / l in HNO_3 2-5 %)
Concentration (as Cu) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.006 Al..... 0.012 As.....0.004 B .....0.015 Be .....0.012 Ca .....0.026 Ce .....0.011 Cr.....0.011 Dy .....0.011 Eu .....0.011 Ga .....0.011 Au .....0.011 Ba .....0.011 Bi .....0.011 Cd .....0.006 Co .....0.011 Cs .....0.011 Er.....0.011 Fe .....0.003 Gd.....0.011 Ge ..... 0.011 Hg..... 0.011 In ..... 0.011 K..... 0.035 Li ..... 0.012 Mg ..... 0.025 Mo ..... 0.012 Hf ..... 0.011 Ho ..... 0.011 Ir..... 0.011 La ..... 0.011 Lu ..... 0.011 Mn..... 0.011

Code	Packaging
775955.1208	100 ml

775965 Germanium standard solution Ge=10.00 g/l for ICP

(Ge in HNO_3 2-5 % + traces HF) for ICP

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.01 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (10 g Ge / l in HNO_3 2-5 % + traces HF)
Concentration (as Ge) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.011 Al..... 0.022 As.....0.053 B .....0.025 Be .....0.012 Ca .....0.027 Ce .....0.011 Cr.....0.011 Cu .....0.011 Er.....0.011 Fe.....0.052 Gd.....0.011 Au .....0.011 Ba .....0.012 Bi .....0.021 Cd .....0.011 Co .....0.011 Cs .....0.011 Dy .....0.011 Eu .....0.011 Ga.....0.021 Hf.....0.011 Hg..... 0.011 In ..... 0.051 K..... 0.016 Li ..... 0.012 Mg ..... 0.016 Mo ..... 0.012 Ho ..... 0.011 Ir..... 0.011 La ..... 0.011 Lu ..... 0.011 Mn..... 0.011

Code	Packaging
775965.1208	100 ml

775967 Iron standard solution Fe=10.00 g/l for ICP

(Fe in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.06 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Concentration (as Fe) ..... 10.00 g/l
Concentration ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.021 Al..... 0.052

As .....0.022 Au..... 0.011 Ga ..... 0.011 Gd 0.011
B .....0.035 Ba..... 0.051 Ge ..... 0.011 Hf 0.021
Be .....0.012 Bi ..... 0.011 Hg ..... 0.031 Ho 0.011
Ca .....0.106 Cd..... 0.051 In ..... 0.011 Ir..... 0.011
Ce .....0.011 Co..... 0.101 K..... 0.105 La..... 0.011
Cr.....0.101 Cs..... 0.011 Li ..... 0.022 Lu..... 0.011
Cu .....0.201 Dy..... 0.011 Mg ..... 0.055 Mn..... 0.201
Er .....0.011 Eu..... 0.011 Mo ..... 0.102 Na 0.11

Code	Packaging
775967.1208	100 ml

775988 Lead standard solution Pb=10.00 g/l for ICP

(Pb in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN2922
Class/PG 8(6.1)/III
ADR 8(6.1)/III · IMDG 8(6.1)/III · IATA 8(6.1)/III
WGK 1
Storage RT

Danger



H360D H319 H335 H315 H412

Specifications
Composition (10 g Pb / l in HNO_3 2-5 %)
Concentration (as Pb) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.501 Al..... 0.102

As .....1.002 Au..... 0.011 Gd ..... 0.011 Ge 0.011
B .....0.015 Ba..... 0.051 Hf ..... 0.011 Hg 0.051
Be .....0.052 Bi ..... 1.001 Ho ..... 0.011 In..... 0.021
Ca .....0.106 Cd..... 0.101 Ir..... 0.011 K 0.105
Ce .....0.011 Co..... 0.051 La ..... 0.011 Li 0.022
Cr.....0.051 Cs..... 0.011 Lu ..... 0.011 Mg..... 0.105
Cu .....0.201 Dy..... 0.011 Mn 0.051
Er .....0.011 Eu..... 0.011
Fe .....0.101 Ga..... 0.011

Code	Packaging
775988.1208	100 ml

775976 Magnesium standard solution Mg=10.00 g/l for ICP

(Mg in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.04 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (10 g Mg / l in HNO_3 2-5 %)
Concentration (as Mg) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.011 Al..... 0.022

As .....0.007 Au..... 0.011 Gd ..... 0.011 Ge 0.011
B .....0.015 Ba..... 0.051 Hf ..... 0.011 Hg 0.011
Be .....0.022 Bi ..... 0.001 Ho ..... 0.011 In..... 0.011
Ca .....0.056 Cd..... 0.001 Ir..... 0.011 K 0.025
Ce .....0.011 Co..... 0.001 La ..... 0.011 Li 0.022
Cr.....0.001 Cs..... 0.011 Lu ..... 0.011 Mn..... 0.002
Cu .....0.001 Dy..... 0.011 Mo 0.012
Er .....0.011 Eu..... 0.011
Fe .....0.002 Ga..... 0.011

Code	Packaging
775976.1208	100 ml

775977 Manganese standard solution Mn=10.00 g/l for ICP

(Mn in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.04 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

Specifications
Composition (10 g Mn / l in HNO_3 2-5 %)
Concentration (as Mn) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.011 Al..... 0.022

As .....0.102 Au..... 0.011 Gd ..... 0.011 Ge 0.011
B .....0.015 Ba..... 0.011 Hf ..... 0.011 Hg 0.011
Be .....0.012 Bi ..... 0.011 Ho ..... 0.011 In..... 0.011
Ca .....0.206 Cd..... 0.021 Ir..... 0.011 K 0.205
Ce .....0.011 Co..... 0.101 La ..... 0.011 Li 0.022
Cr.....0.101 Cs..... 0.011 Lu ..... 0.011 Mg..... 0.205
Cu .....0.101 Dy..... 0.011 Mo 0.052
Er .....0.011 Eu..... 0.011
Fe .....0.011 Ga..... 0.011

Code	Packaging
775977.1208	100 ml

775978 Mercury standard solution Hg=10.00 g/l for ICP

(Hg in HNO_3 2-5 %) for ICP

CS 28054090

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN2024
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage RT

Danger



H331 H311 H301 H373 H319 H335 H315 H412

Specifications
Composition (10 g Hg / l in HNO_3 2-5 %)
Concentration (as Hg) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.053 Al..... 0.003

As .....0.012 Au..... 0.011 Gd ..... 0.011 Ge 0.011
B .....0.015 Ba..... 0.001 Hf ..... 0.011 Ho 0.011
Be .....0.002 Bi ..... 0.001 In..... 0.011 Ir..... 0.011
Ca .....0.007 Cd..... 0.001 K..... 0.006 La..... 0.011
Ce .....0.011 Co..... 0.001 Li ..... 0.002 Lu..... 0.011
Cr.....0.001 Cs..... 0.011 Mg..... 0.005 Mn..... 0.001
Cu .....0.001 Dy..... 0.011 Mo 0.002
Er .....0.011 Eu..... 0.011
Fe .....0.002 Ga..... 0.011

Code	Packaging
775978.1208	100 ml

HeBaPeaKTMB

775982 Nickel standard solution Ni=10.00 g/l for ICP

(Ni in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.04 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Warning



H319 H335 H315

Specifications
Composition (10 g Ni / l in HNO_3 2-5 %)
Concentration (as Ni) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.048 Al ..... 0.012 As ..... 0.022 Au ..... 0.011 B ..... 0.015 Ba ..... 0.011 Be ..... 0.012 Bi ..... 0.011 Ca ..... 0.206 Cd ..... 0.006 Ce ..... 0.011 Co ..... 0.051 Cr ..... 0.011 Cs ..... 0.011 Cu ..... 0.101 Dy ..... 0.011 Er ..... 0.011 Eu ..... 0.011 Fe ..... 2.001 Ga ..... 0.011 Gd ..... 0.011 Ge ..... 0.011 Hf ..... 0.011 Hg ..... 0.021 Ho ..... 0.011 In ..... 0.011 Ir ..... 0.011 K ..... 0.055 La ..... 0.011 Li ..... 0.012 Lu ..... 0.011 Mg ..... 0.035 Mn 0.021

Code	Packaging
775982.1208	100 ml

775907 Phosphorus standard solution P=10.00 g/l for ICP

($H3PO_4$ in H_2O) for ICP

CAS 7664-38-2
EINECS 231-633-2
CS 28092000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.00 kg/l
Liquid

Storage RT

Specifications
Composition (31,64 g $H3PO_4$ / l H_2O)
Concentration (as P) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.038 Al ..... 0.006 As ..... 0.004 Au ..... 0.038 B ..... 0.042 Ba ..... 0.005 Be ..... 0.039 Bi ..... 0.038 Ca ..... 0.012 Cd ..... 0.003 Ce ..... 0.038 Co ..... 0.003 Cr ..... 0.003 Cs ..... 0.038 Cu ..... 0.003 Dy ..... 0.038 Er ..... 0.038 Eu ..... 0.038 Fe ..... 0.008 Ga ..... 0.038 Gd ..... 0.038 Ge ..... 0.038 Hf ..... 0.038 Hg ..... 0.001 Ho ..... 0.038 In ..... 0.038 Ir ..... 0.038 K ..... 0.009 La ..... 0.038 Li ..... 0.006 Lu ..... 0.038 Mg ..... 0.009 Mn 0.003

Code	Packaging
775907.1208	100 ml

775989 Potassium standard solution K=10.00 g/l for ICP

(KNO_3 in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.03 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (25,858 g KNO_3/ l in HNO_3 2-5 %)
Concentration (as K) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.027 Al ..... 0.003 As ..... 0.028 Au ..... 0.027 B ..... 0.03 Ba ..... 0.027 Be ..... 0.028 Bi ..... 0.027 Ca ..... 0.009 Cd ..... 0.001 Ce ..... 0.027 Co ..... 0.001 Cr ..... 0.027 Cs ..... 0.129 Cu ..... 0.001 Dy ..... 0.027 Er ..... 0.027 Eu ..... 0.027 Fe ..... 0.003 Ga ..... 0.027 Gd ..... 0.027 Ge ..... 0.027 Hf ..... 0.027 Hg ..... 0.001 Ho ..... 0.027 In ..... 0.027 Ir ..... 0.027 La ..... 0.027 Li ..... 0.007 Lu ..... 0.027 Mg ..... 0.008 Mn ..... 0.001 Mo 0.028

Code	Packaging
775989.1208	100 ml

775998 Silicon standard solution Si=10.00 g/l for ICP

[(NH_4)2SiF6 in HF 5 %] for ICP

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.07 kg/l
Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
Storage RT

Danger



H331 H311 H301 H314

Specifications
Composition (63,36 g (NH_4)2SiF6 / l in HF 5 %)
Concentration (as Si) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.065 Al ..... 0.066 As ..... 0.066 Au ..... 0.065 B ..... 0.068 Ba ..... 0.065 Be ..... 0.066 Bi ..... 0.065 Ca ..... 0.071 Cd ..... 0.065 Ce ..... 0.065 Co ..... 0.065 Cr ..... 0.065 Cs ..... 0.065 Cu ..... 0.065 Dy ..... 0.065 Er ..... 0.065 Eu ..... 0.065 Fe ..... 0.066 Ga ..... 0.065 Gd ..... 0.065 Ge ..... 0.065 Hf ..... 0.065 Hg ..... 0.065 Ho ..... 0.065 In ..... 0.065 Ir ..... 0.065 K ..... 0.069 La ..... 0.065 Li ..... 0.066 Lu ..... 0.065 Mg ..... 0.069 Mn 0.065

Code	Packaging
775998.1208	100 ml

775999 Sodium standard solution Na=10.00 g/l for ICP

($NaNO_3$ in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.04 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (36,977 g $NaNO_3$ / l in HNO_3 2-5 %)
Concentration (as Na) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag ..... 0.038 Al ..... 0.004 As ..... 0.039 Au ..... 0.038 B ..... 0.042 Ba ..... 0.186 Be ..... 0.039 Bi ..... 0.038 Ca ..... 0.01 Cd ..... 0.001 Ce ..... 0.038 Co ..... 0.001 Cr ..... 0.001 Cs ..... 0.186 Cu ..... 0.001 Dy ..... 0.038 Er ..... 0.038 Eu ..... 0.038 Fe ..... 0.003 Ga ..... 0.038 Gd ..... 0.038 Ge ..... 0.038 Hf ..... 0.038 Hg ..... 0.038 Ho ..... 0.038 In ..... 0.038 Ir ..... 0.038 K ..... 0.19 La ..... 0.038 Li ..... 0.039 Lu ..... 0.038 Mg ..... 0.007 Mn 0.001

Code	Packaging
775999.1208	100 ml

HeBaPeaKTMB

775946 Sulfur standard solution S=10.00 g/l for ICP

(H_2SO_4 in H_2O) for ICP

CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.00 kg/l
Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Warning



H319 H335 H315

Specifications
Composition (30,586 g H_2SO_4 / l H_2O)
Concentration (as S) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.001 Al..... 0.002

As 0.002	Au 0.001	Gd 0.033	Ge 0.001
B 0.037	Ba 0.001	Hf 0.033	Hg 0.001
Be 0.002	Bi 0.001	Ho 0.033	In 0.001
Ca 0.006	Cd 0.001	Ir 0.033	K 0.005
Ce 0.033	Co 0.001	La 0.033	Li 0.002
Cr 0.001	Cs 0.033	Lu 0.033	Mg 0.005
Cu 0.001	Dy 0.033	Mn 0.001	
Er 0.033	Eu 0.033		
Fe 0.001	Ga..... 0.001		

Code	Packaging
775946.1208	100 ml

775960 Tin standard solution Sn=10.00 g/l for ICP

(Sn in HCl 20 %) for ICP

CS 28061000

Melting Point ..... -25 °C
Boiling Point ..... 107 °C
Density ..... 1.10 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (10 g Sn / l in HCl 10-20 %)
Concentration (as Sn) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.021 Al..... 0.031

As 0.026	Au 0.016	Gd 0.01	Ge 0.02
B 0.02	Ba 0.056	Hf 0.01	Hg 0.056
Be 0.031	Bi 0.406	Ho 0.01	In 0.052
Ca 0.133	Cd 0.051	Ir 0.01	K 0.511
Ce 0.01	Co 0.051	La 0.01	Li 0.051
Cr 0.051	Cs 0.01	Lu 0.01	Mg 0.106
Cu 0.101	Dy 0.01	Mn 0.051	
Er 0.01	Eu 0.01		
Fe 0.511	Ga..... 0.056		

Code	Packaging
775960.1208	100 ml

776004 Titanium standard solution Ti=10.00 g/l for ICP

(Ti in HNO_3 2-5 % + traces HF) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.05 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (10 g Ti / l in HNO_3 2-5 % + traces HF)
Concentration (as Ti 4+) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [mg/l]

Ag 0.011	Al 0.052	Er 0.011	Eu 0.011
As 0.102	Au 0.011	Fe..... 0.501	Ga 0.011
B 0.055	Ba 0.051	Gd 0.011	Ge 0.011
Be 0.022	Bi 0.011	Hf 0.011	Hg 0.101
Ca 0.506	Cd 0.101	Ho 0.011	In 0.011
Ce 0.011	Co 0.051	Ir 0.011	K 0.205
Cr 0.051	Cs 0.011	La 0.011	Li 0.012
Cu 0.051	Dy 0.011	Lu 0.011	Mg 0.105
		Mn 0.051	

Code	Packaging
776004.1208	100 ml

775972 Yttrium standard solution Y=10.00 g/l for ICP

(Y_2O_3 in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (12,7 g Y_2O_3 / l in HNO_3 2-5 %)
Concentration (as Y) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.039 Al..... 0.04

As 0.015	Au 0.014	Gd 0.064	Ge 0.014
B 0.018	Ba 0.014	Hf 0.014	Hg 0.014
Be 0.015	Bi 0.014	Ho 0.014	In 0.014
Ca 0.07	Cd 0.014	Ir 0.014	K 0.132
Ce 0.128	Co 0.014	La 0.318	Li 0.015
Cr 0.014	Cs 0.014	Lu 0.064	Mg 0.018
Cu 0.014	Dy 0.026	Mn 0.014	
Er 0.064	Eu 0.026		
Fe 0.065	Ga..... 0.065		

Code	Packaging
775972.1208	100 ml

776010 Zinc standard solution Zn=10.00 g/l for ICP

(Zn in HNO_3 2-5 %) for ICP

CS 38220000

Melting Point ..... -3 °C
Boiling Point ..... 101 °C
Density ..... 1.02 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (10 g Zn / l in HNO_3 2-5 %)
Concentration (as Zn) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]
Ag..... 0.011 Al..... 0.012

As 0.003	Au 0.011	Gd 0.011	Ge 0.011
B 0.015	Ba 0.011	Hf 0.011	Hg 0.011
Be 0.012	Bi 0.011	Ho 0.011	In 0.011
Ca 0.016	Cd 0.201	Ir 0.011	K 0.015
Ce 0.011	Co 0.011	La 0.011	Li 0.012
Cr 0.011	Cs 0.011	Lu 0.011	Mg 0.015
Cu 0.101	Dy 0.011	Mn 0.011	
Er 0.011	Eu 0.011		
Fe 0.501	Ga..... 0.011		

Code	Packaging
776010.1208	100 ml

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HEBAPEAKTMB

776011 Zirconium standard solution Zr=10.00 g/l for ICP

(ZrCl4 in HCl 10 %) for ICP

CS 28061000

Melting Point ..... -25 °C
Boiling Point ..... 108.6 °C
Density ..... 1.05 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H319 H335 H315

Specifications
Composition (35,33 g ZrOCl2 · 8 H_2O / l in HCl 2-5 %)
Concentration (as Zr) ..... 10.00 g/l
Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Metals by ICP [in mg/Kg (ppm)]

Ag	0.036	Al	0.711	Er	0.036
As	0.038	Au	0.037	Eu	0.036
B	0.039	Ba	0.037	Fe	0.887
Be	0.037	Bi	0.037	Ga	0.037
Ca	1.779	Cd	0.036	Gd	0.036
Ce	0.036	Co	0.036	Ge	0.036
Cr	1.768	Cs	0.036	Hf	8.833
Cu	0.354	Dy	0.036	Hg	0.037
				Ho	0.036
				In	0.037
				Ir	0.036
				K	0.183
				La	0.036
				Li	0.037
				Lu	0.036
				Mg	0.358
				Mn	0.036

Code	Packaging
776011.1208	100 ml

ICP (INDUCTIVELY COUPLED PLASMA SPECTROSCOPY) STANDARDS (MULTIELEMENT)

766336 Multielement standard solution 100 mg/l : Hf, Ir, Sb, Sn, Ta, Ti, Zr for ICP

(Contains 7 elements in 15 % HCl) for ICP

CS 38220000

Melting Point ..... -25 °C
Boiling Point ..... 107 °C
Density ..... 1.08 kg/l
Liquid

UN3264
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Warning



H319 H335 H315

Specifications
Composition (Contains 7 elements in HCl 15 %)
Concentration (as Hf) ..... 100 ± 0.3 ppm
Concentration (as Ir) ..... 100 ± 0.3 ppm
Concentration (as Sb) ..... 100 ± 0.3 ppm
Concentration (as Sn) ..... 100 ± 0.3 ppm
Concentration (as Ta) ..... 100 ± 0.3 ppm
Concentration (as Ti) ..... 100 ± 0.3 ppm
Concentration (as Zr) ..... 100 ± 0.3 ppm

Code	Packaging
766336.1208	100 ml

766334 Multielement standard solution 100 mg/l : As, Be, Cd, Cr, Pb, Hg, Ni, Se, Tl for ICP

(Contains 9 elements in 10 % HNO_3) for ICP

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.05 kg/l
Liquid

UN3264
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H314

Specifications
Composition (Contains 9 elements in HNO_3 10 %)
Concentration (as As) ..... 100 ± 0.3 ppm
Concentration (as Be) ..... 100 ± 0.3 ppm
Concentration (as Cd) ..... 100 ± 0.3 ppm
Concentration (as Cr) ..... 100 ± 0.3 ppm
Concentration (as Hg) ..... 100 ± 0.3 ppm
Concentration (as Ni) ..... 100 ± 0.3 ppm
Concentration (as Pb) ..... 100 ± 0.3 ppm
Concentration (as Se) ..... 100 ± 0.3 ppm
Concentration (as Tl) ..... 100 ± 0.3 ppm

Code	Packaging
766334.1208	100 ml

766335 Multielement standard solution 100 mg/l: As, Be,Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn for ICP

(Contains 21 elements in 5 % HNO_3) for ICP

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.03 kg/l
Liquid

UN3264
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H314

Specifications
Composition (Contains 21 elements in HNO_3 2-5 % + traces HF)
Concentration (as As) ..... 100 ± 0.3 ppm
Concentration (as Be) ..... 100 ± 0.3 ppm
Concentration (as Ca) ..... 100 ± 0.3 ppm
Concentration (as Cd) ..... 100 ± 0.3 ppm
Concentration (as Co) ..... 100 ± 0.3 ppm
Concentration (as Cr) ..... 100 ± 0.3 ppm
Concentration (as Cu) ..... 100 ± 0.3 ppm
Concentration (as Fe) ..... 100 ± 0.3 ppm
Concentration (as Li) ..... 100 ± 0.3 ppm
Concentration (as Mg) ..... 100 ± 0.3 ppm
Concentration (as Mn) ..... 100 ± 0.3 ppm
Concentration (as Mo) ..... 100 ± 0.3 ppm
Concentration (as Ni) ..... 100 ± 0.3 ppm
Concentration (as Pb) ..... 100 ± 0.3 ppm
Concentration (as Sb) ..... 100 ± 0.3 ppm
Concentration (as Se) ..... 100 ± 0.3 ppm
Concentration (as Sr) ..... 100 ± 0.3 ppm
Concentration (as Ti) ..... 100 ± 0.3 ppm
Concentration (as Tl) ..... 100 ± 0.3 ppm
Concentration (as V) ..... 100 ± 0.3 ppm
Concentration (as Zn) ..... 100 ± 0.3 ppm

Code	Packaging
766335.1208	100 ml

766332 Multielement standard solution 1000 mg/l : Ag, Al, B, Ba, Bi, Ca ,Cd, Co, Cr, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Sr, Tl, Zn for ICP

(Contains 23 elements in 2 % HNO_3) for ICP

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.09 kg/l
Liquid

UN2031
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Warning



H314

Specifications
Composition (Contains 23 elements in HNO_3 2 %)
Concentration (as Ag) ..... 1000 ± 3 ppm
Concentration (as Al) ..... 1000 ± 3 ppm
Concentration (as B) ..... 1000 ± 3 ppm
Concentration (as Ba) ..... 1000 ± 3 ppm
Concentration (as Bi) ..... 1000 ± 3 ppm
Concentration (as Ca) ..... 1000 ± 3 ppm
Concentration (as Cd) ..... 1000 ± 3 ppm
Concentration (as Co) ..... 1000 ± 3 ppm
Concentration (as Cr) ..... 1000 ± 3 ppm
Concentration (as Cu) ..... 1000 ± 3 ppm
Concentration (as Fe) ..... 1000 ± 3 ppm
Concentration (as Ga) ..... 1000 ± 3 ppm
Concentration (as In) ..... 1000 ± 3 ppm
Concentration (as K) ..... 1000 ± 3 ppm
Concentration (as Li) ..... 1000 ± 3 ppm
Concentration (as Mg) ..... 1000 ± 3 ppm
Concentration (as Mn) ..... 1000 ± 3 ppm
Concentration (as Na) ..... 1000 ± 3 ppm
Concentration (as Ni) ..... 1000 ± 3 ppm
Concentration (as Pb) ..... 1000 ± 3 ppm
Concentration (as Sr) ..... 1000 ± 3 ppm
Concentration (as Tl) ..... 1000 ± 3 ppm
Concentration (as Zn) ..... 1000 ± 3 ppm

Code	Packaging
766332.1208	100 ml

HeBaPeakTMB

НевАРеактив

766333 Multielement standard solution 100 mg/l : Al, B,Ba, Be,Bi,Ca, Cd, Co, Cr, Cu, Fe, Ga, K, Li, Mg, [illegible]la, Ni, Pb, Se, Sr, Te, Tl, Zn for ICP

(Contains 24 elements in 2 % HNO_3) for ICP

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.02 kg/l
Liquid

UN3264
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Specifications

Composition (Contains 24 elements in HNO_3 2 %)		
Concentration (as Al) ..... 100 ± 0.3 ppm	Concentration (as Cd) ..... 100 ± 0.3 ppm	Concentration (as Mn) ..... 100 ± 0.3 ppm
Concentration (as B) ..... 100 ± 0.3 ppm	Concentration (as Co) ..... 100 ± 0.3 ppm	Concentration (as Na) ..... 100 ± 0.3 ppm
Concentration (as Ba) ..... 100 ± 0.3 ppm	Concentration (as Cr) ..... 100 ± 0.3 ppm	Concentration (as Ni) ..... 100 ± 0.3 ppm
Concentration (as Be) ..... 100 ± 0.3 ppm	Concentration (as Cu) ..... 100 ± 0.3 ppm	Concentration (as Pb) ..... 100 ± 0.3 ppm
Concentration (as Bi) ..... 100 ± 0.3 ppm	Concentration (as Fe) ..... 100 ± 0.3 ppm	Concentration (as Se) ..... 100 ± 0.3 ppm
Concentration (as Ca) ..... 100 ± 0.3 ppm	Concentration (as Ga) ..... 100 ± 0.3 ppm	Concentration (as Sr) ..... 100 ± 0.3 ppm
	Concentration (as K) ..... 100 ± 0.3 ppm	Concentration (as Te) ..... 100 ± 0.3 ppm
	Concentration (as Li) ..... 100 ± 0.3 ppm	Concentration (as Tl) ..... 100 ± 0.3 ppm
	Concentration (as Mg) ..... 100 ± 0.3 ppm	Concentration (as Zn) ..... 100 ± 0.3 ppm

Code	Packaging
766333.1208	100 ml

ION CHROMATOGRAPHY STANDARDS (1000 mg/l)

784241 Ammonium standard solution NH_4=1.000 g/l for IC

(NH_4Cl in H_2O) for ionic chromatography

CS 38220000

Density ..... 1.00 kg/l
Liquid

WGK 1
Storage RT

Specifications

Composition (2,97 g NH_4Cl / l H_2O)
Concentration (as NH_4) ..... 1.000 g/l

Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis IC

Code	Packaging
784241.1210	500 ml

784239 Bromide standard solution Br=1.000 g/l for IC

(KBr in H_2O) for ionic chromatography

CS 38220000

Density ..... 1.00 kg/l
Liquid

WGK 3
Storage RT

Specifications

Composition (1,489 g KBr / l H_2O)
Concentration (as Br) ..... 1.000 g/l

Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Code	Packaging
784239.1210	500 ml

786915 Cadmium standard solution Cd=1.000 g/l for IC

(Cd $(NO_3)2 \cdot 4H_2O$ en H_2O) for ionic chromatography

CS 28342920

Density ..... 1.00 kg/l
Solubility ..... Miscible with water
Liquid

WGK 3
Storage RT

Specifications

Composition (2,745 g $Cd(NO_3)2.4H_2O$/l H_2O)
Concentration (as Cd(2+)) ..... 1.000 g/l

Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Code	Packaging
786915.1210	500 ml

786345 Calcium standard solution Ca=1.000 g/l for IC

($CaCl2.2H_2O$ in H_2O) for ionic chromatography

CS 38220000

Density ..... 1.00 kg/l
Liquid

WGK 1
Storage RT

Specifications

Composition (3,668 g $CaCl2 \cdot 2H_2O$ / l H_2O)
Concentration (as Ca) ..... 1.000 g/l

Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Code	Packaging
786345.1210	500 ml

786916 Cesium standard solution Cs=1.000 g/l for IC

(CsCl in H_2O) for ionic chromatography

CS 38220000

Density ..... 1.00 kg/l
Liquid

WGK 1
Storage RT

Specifications

Composition (1,267 g CsCl / l H_2O)
Concentration (as Cs(1+)) ..... 1.000 g/l

Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Code	Packaging
786916.1210	500 ml

784238 Chloride standard solution Cl=1.000 g/l for IC

(KCl in H_2O) for ionic chromatography

CS 38220000

Density ..... 1.00 kg/l
Liquid

WGK 1
Storage RT

Specifications

Composition (2,1 g KCl / l H_2O)
Concentration (as Cl) ..... 1.000 g/l

Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis IC

Code	Packaging
784238.1210	500 ml

786326 Chromate standard solution CrO_4=1.000 g/l for IC

(K_2CrO_4 in H_2O) for ionic chromatography

CS 38220000

Density ..... 1.00 kg/l
Liquid

UN3287
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage RT

Danger



H350i H340

Specifications

Composition (1,674 g K_2CrO_4 / l H_2O)
Concentration (as CrO_4) ..... 1.000 g/l

Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... ICP-OES

Code	Packaging
786326.1210	500 ml

786917 Cyanide standard solution CN=1.000 g/l

(KI in H_2O) for ionic chromatography

CS 38220000

Density ..... 1.00 kg/l
Liquid

UN3413
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 2
Storage RT

Danger



H330 H310 H300 EUH032 H410

Specifications

Composition (2,503 g KCN / l H_2O)
Concentration (as CN) ..... 1.000 g/l

Uncertainty ..... See certificate
Traceability ..... NIST
Method of analysis ..... Argentometric Titration

Code	Packaging
786917.1210	500 ml

НевАРеактив

786328 Fluoride standard solution F=1.000 g/l for IC

(NaF in H_2O) for ionic chromatography

CS 38220000

Density .....1.00 kg/l
Liquid

WGK nwg
Storage RT

Specifications
Composition (2,21 g NaF / l H_2O)
Concentration (as F) .....1.000 g/l

Uncertainty ..... See certificate
Traceability .....NIST
Method of analysis IC

Code	Packaging
786328.1210	500 ml

786925 Iron standard solution Fe=1.000 g/l for IC

($Fe(NO_3)3.9H_2O$ in H_2O) for ionic chromatography

CS 38220000

Density .....1.00 kg/l
Liquid

WGK 1
Storage RT

Specifications
Composition (7,234 g $Fe(NO_3)3.9H_2O$ / l H_2O)
Concentration (as Fe(3+)) .....1.000 g/l

Uncertainty ..... See certificate
Traceability .....NIST
Method of analysis ..... ICP-OES

Code	Packaging
786925.1210	500 ml

786348 Lithium standard solution Li=1.000 g/l for IC

($LiCl$ in H_2O) for ionic chromatography

CS 38220000

Density .....1.00 kg/l
Liquid

WGK 1
Storage RT

Specifications
Composition (6,108 g LiCl / l H_2O)
Concentration (as Li) .....1.000 g/l

Uncertainty ..... See certificate
Traceability .....NIST
Method of analysis ..... ICP-OES

Code	Packaging
786348.1210	500 ml

786346 Magnesium standard solution Mg=1.000 g/l for IC

($MgCl2.6H_2O$ in H_2O) for ionic chromatography

CS 38220000

Density .....1.00 kg/l
Liquid

WGK 1
Storage RT

Specifications
Composition (8,363 g $MgCl2 \cdot 6H_2O$ / l H_2O)
Concentration (as Mg) .....1.000 g/l

Uncertainty ..... See certificate
Traceability .....NIST
Method of analysis ..... ICP-OES

Code	Packaging
786346.1210	500 ml

786350 Manganese standard solution Mn=1.000 g/l for IC

($Mn(NO_3)2.4H_2O$ in H_2O) for ionic chromatography

CS 38220000

Density .....1.00 kg/l
Liquid

WGK 1
Storage RT

Specifications
Composition (4,569 g $Mn(NO_3)2 \cdot 4H_2O$ / l H_2O)

Concentration (as Mn) ..... 1.000 g/l
Uncertainty ..... See certificate

Traceability .....NIST
Method of analysis .....ICP-OES

Code	Packaging
786350.1210	500 ml

784237 Nitrate standard solution NO_3=1.000 g/l for IC

(KNO_3 in H_2O) for ionic chromatography

CS 38220000

Density .....1.00 kg/l
Liquid

Storage RT

Specifications
Composition (1,63 g KNO_3 / l H_2O)
Concentration (as NO_3) .....1.000 g/l

Uncertainty ..... See certificate
Traceability .....NIST
Method of analysis IC

Code	Packaging
784237.1210	500 ml

786327 Nitrite standard solution NO_2=1.000 g/l for IC

($NaNO_2$ in H_2O) for ionic chromatography

CS 38220000

Density .....1.00 kg/l
Liquid

Storage RT

Specifications
Composition (1,50 g $NaNO_2$ / l H_2O)
Concentration (as NO_2) .....1.000 g/l

Uncertainty ..... See certificate
Traceability .....NIST
Method of analysis IC

Code	Packaging
786327.1210	500 ml

786325 Nitrogen standard solution N=1.000 g/l for IC

(NH_4Cl in H_2O) for ionic chromatography

CS 38220000

Density .....1.00 kg/l
Liquid

Storage RT

Specifications
Composition (3,81 g NH_4Cl / l H_2O)
Concentration (as N) .....1.000 g/l

Uncertainty ..... See certificate
Traceability .....NIST
Method of analysis IC

Code	Packaging
786325.1210	500 ml

784236 Phosphate standard solution PO_4=1.000 g/l for IC

($NaNH_4HPO_4.4H_2O$ in H_2O) for ionic chromatography

CS 38220000

Density .....1.00 kg/l
Liquid

WGK 1
Storage RT

Specifications
Composition (2,2014 g $NaNH_4HPO_4 \cdot 4H_2O$ / l H_2O)
Concentration (as PO_4) .....1.000 ± 0.002 g/l

Code	Packaging
784236.1210	500 ml

786922 Phosphorus standard solution P=1.000 g/l for IC

($(NH_4)2HPO_4$ in H_2O) for ionic chromatography

CS 38220000

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density .....1.00 kg/l
Liquid

Storage RT

Specifications
Composition (4,264 g $(NH_4)2HPO_4$ / l H_2O)
Concentration (as P) .....1.000 g/l

Uncertainty ..... See certificate
Traceability .....NIST
Method of analysis ..... ICP-OES

Code	Packaging
786922.1210	500 ml

784242 Potassium standard solution K=1.000 g/l for IC

(KCl in H_2O) for ionic chromatography

CS 38220000

Density .....1.00 kg/l
Liquid

Storage RT

Specifications
Composition (1,907 g KCl / l H_2O)
Concentration (as K) .....1.000 g/l

Uncertainty ..... See certificate
Traceability .....NIST
Method of analysis ..... ICP-OES

Code	Packaging
784242.1210	500 ml

НеваРеактив

784243 Sodium standard solution Na=1.000 g/l for IC

($NaCl$ in H_2O) for ionic chromatography

CS 38220000

Density .....1.00 kg/l
Liquid

Storage RT

Specifications
Composition (2,542 g NaCl / l H_2O)
Concentration (as Na) .....1.000 g/l

Uncertainty ..... See certificate
Traceability .....NIST
Method of analysis ..... ICP-OES

Code	Packaging
784243.1210	500 ml

786329 Sulfate standard solution SO_4=1.000 g/l for IC

($Na2SO_4$ in H_2O) for ionic chromatography

CS 38220000

Density .....1.00 kg/l
Liquid

Storage RT

Specifications
Composition (1,479 g $Na2SO_4$ / l H_2O)
Concentration (as SO_4) .....1.000 g/l

Uncertainty ..... See certificate
Traceability .....NIST
Method of analysis IC

Code	Packaging
786329.1210	500 ml

ION CHROMATOGRAPHY STANDARDS (MULTIELEMENT)

786937 Multielement standard solution, anionic III for IC

[Br-],[Cl-], [F-] ,[NO_3-], [$PO_4$3-], [$SO_4$2-] = 100 mg/l (NaF, KCl, KBr, KNO_3, NH_4H2PO_4, $Na2SO_4$ in H_2O) for ion chromatography

CS 38220000

Density .....1.00 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

Specifications
Composition (Contains 6 elements in H_2O)
Concentration (as Br) .....100 mg/l

Concentration (as Cl) ..... 100 mg/l
Concentration (as F) ..... 100 mg/l
Concentration (as NO_3) ..... 100 mg/l

Concentration (as PO_4) .....100 mg/l
Concentration (as SO_4) .....100 mg/l

Code	Packaging
786937.1210	500 ml

786938 Multielement standard solution, anionic IV for IC

CS 38220000

Density .....1.00 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

Specifications
Composition (Contains 7 elements in H_2O)
Concentration (as Br) .....25 ± 0.2 mg/l
Concentration (as Cl) .....10 ± 0.2 mg/l

Concentration (as F) ..... 5 ± 0.2 mg/l
Concentration (as NO_2)* ..... 15 ± 0.2 mg/l
Concentration (as NO_3) ..... 25 ± 0.2 mg/l
Concentration (as PO_4) ..... 40 ± 0.2 mg/l

Concentration (as SO_4) .....30 ± 0.2 mg/l
* Reference standard acc. IVL CRM No $ICNO_2$1-1

Code	Packaging
786938.1208	100 ml
786938.1210	500 ml

786939 Multielement standard solution, anionic V for IC

CS 38220000

Density .....0.99 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

Specifications
Composition (Contains 7 elements in H_2O)
Concentration (as Br) .....1000 ± 4.5 mg/l
Concentration (as Cl) .....1000 ± 4.5 mg/l

Concentration (as F) ..... 1000 ± 4.5 mg/l
Concentration (as NO_2)* ..... 1000 ± 4.5 mg/l
Concentration (as NO_3) ..... 1000 ± 4.5 mg/l
Concentration (as PO_4) ..... 1000 ± 4.5 mg/l

Concentration (as SO_4) .....1000 ± 4.5 mg/l
* Reference standard acc. IVL CRM No $ICNO_2$1-1

Code	Packaging
786939.1208	100 ml

786940 Multielement standard solution, cationic I for IC

CS 38220000

Density .....1.005 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

Specifications
Composition (Contains 4 elements in H_2O)
Concentration (as Ca) .....1000 ± 15 mg/l

Concentration (as K) ..... 1000 ± 15 mg/l
Concentration (as Mg) ..... 1000 ± 15 mg/l
Concentration (as Na) ..... 1000 ± 15 mg/l

Code	Packaging
786940.1210	500 ml

786941 Multielement standard solution, cationic II for IC

CS 38220000

Density .....0.998 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

Specifications
Composition (Contains 5 elements in H_2O)
Concentration (as Ca) .....100 ± 0.8 mg/l
Concentration (as K) .....100 ± 0.8 mg/l

Concentration (as Na) ..... 100 ± 0.8 mg/l
Concentration (as NH_4) * ..... 100 ± 0.8 mg/l

Concentration (as Mg) .....100 ± 0.8 mg/l
* Reference standard acc. IVL CRM No $ICNH_4$1-1

Code	Packaging
786941.1208	100 ml
786941.1210	500 ml

786942 Multielement standard solution, cationic III for IC

CS 38220000

Density .....0.997 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

Specifications
Composition (Contains 6 elements in H_2O)
Concentration (as Ca) .....5 ± 0.050
Concentration (as K) .....5 ± 0.050

Concentration (as Li) ..... 0.5 ± 0.005
Concentration (as Mg) ..... 2.5 ± 0.025
Concentration (as Na) ..... 2 ± 0.020

Concentration (as NH_4) * .....2.5 ± 0.025
* Reference standard acc. IVL CRM No C2-BR01074

Code	Packaging
786942.1208	100 ml
786942.1210	500 ml

786943 Multielement standard solution, cationic IV for IC

CS 38220000

Density .....0.998 kg/l
Solubility .....Miscible with water
Liquid

Storage RT

Specifications
Composition (Contains 6 elements in HNO_3 0.1 %)
Concentration (as Li) .....10 ± 0.05

Concentration (as Na) ..... 20 ± 0.10
Concentration (as NH_4) * ..... 40 ± 0.20
Concentration (as Ca) ..... 40 ± 0.20
Concentration (as Mg) ..... 20 ± 0.10

Concentration (as K) .....20 ± 0.10
* Reference standard acc. IVL CRM No C2-BR01074

Code	Packaging
786943.1208	100 ml
786943.1210	500 ml

НеваРеактив

UV/VIS STANDARDS

396070 UV-VIS Spectrophotometry Standard: solution for the wavelength control (Ph. Eur.)

CS 38220000

Density .....1.112 kg/l
Solubility ..... Soluble in water.

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Danger



H314

Composition:
Holmium Oxide .....40.0 g
Percloric Acid 10 % v/v (s.q.m) .....1000 ml
Presentation:
8 x 10 ml Ampoules
Uncertainty .....See certificate
Traceability ..... NIST
wavelength of ABS. Max. (nm):
λ (nm) guaranteed: ..... 640.2-641.4 nm

..... @536.4-537.6 nm	..... @286.9-288.1 nm	
..... @484.7-485.9 nm	..... @277.4-278.6 nm	
..... @467.3-468.5 nm	..... @249.4-250.6 nm	
..... @450.7-451.9 nm	..... @240.5-241.7 nm	
..... @416-417.2 nm	λ (nm) according	
..... @385.3-386.5 nm	to Ph. Eur. ..... 533.3-539.3 nm	
..... @360.6-361.8 nm	..... @360.5-362.5 nm	
..... @344.9-346.1 nm	..... @286.15-288.15 nm	
..... @332.8-334 nm	..... @240.15-242.15 nm	

Code	Packaging
396070.2590	8 x 10 ml

395462 UV-VISible Spectrophotometry Standard: solution for the absorbance control (Ph. Eur.)

CS 38220000

Solubility .....Miscible with water
Storage RT

Composition:
Potassium Dichromate .....60.06 mg
Sulfuric Acid 0.01N (s.q.m) .....1000 ml
Presentation:
4 x 10 ml Reference ampoules

4 x 10 ml Standard ampoules
Uncertainty ..... See certificate
Traceability .....NIST
ABS λ_{max} 350 ± 0,3 nm 0.630-0.650
ABS λ_{max} 313 ± 0,3 nm 0.282-0.302

ABS λ_{max} 257 ± 0,3 nm 0.855-0.875
ABS λ_{max} 235 ± 0,3 nm 0.738-0.758

Code	Packaging
395462.2590	8x10 ml

395461 UV-VISible Spectrophotometry Standard: solution for the control of the spectral resolution (Ph. Eur.)

CS 38220000

Density .....0.661 kg/l
Solubility Insoluble in water. Soluble in organic solvents.

UN1208
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225 H315 H373 H411 H361f H304 H336

Composition:
Toluene .....0.02 ml
n-Hexane (s.q.m.) .....100 ml

Presentation:
4 x 10 ml Reference ampoules

4 x 10 ml Standard ampoules
A $_{max}$ 268 nm /A $_{min}$ 266 nm $_{a\ 20\pm1\ °C}$ .....> 1.5

Code	Packaging
395461.2590	8 x 10 ml

395460 UV-VISible Spectrophotometry Standard: solution for the stray light control (Ph. Eur.)

CS 38220000

Density .....1.006 kg/l
Solubility .....Miscible with water
Storage RT

Composition:
Potassium Chloride .....12 g
Water (s.q.m.) ..... 1000 ml

Presentation:
8 x 10 ml Ampoules

Traceability .....NIST
ABS λ_{max} 198 ± 0,3 nm .....> 2

Code	Packaging
395460.2590	8x10 ml

CONDUCTIVITY STANDARDS

396882 Conductivity Standard 84 µS/cm (25 °C)

CS 38220000

Density .....1.002 kg/l
Liquid

WGK 1
Storage RT

Composition:
Potassium Chloride .....0.00056 mol/l
CONDUCTIVITY VALUES DEPENDING ON TEMPERATURE
T (°C) .....(mS/cm)
20,0 .....75.8

21,0 ..... 77.5	27,0 .....87.3	
22,0 ..... 79.1	28,0 .....88.9	
23,0 ..... 80.7	29,0 .....90.6	
24,0 ..... 82.4	30,0 .....92.2	
25,0 ..... 84.0	Uncertainty .....See certificate	
26,0 ..... 85.6	Conductivity at 25 °C ..... 82-86 µS/cm	

Code	Packaging
396882.1209	250 ml

396881 Conductivity Standard 147 µS/cm (25 °C)

CS 38220000

Density .....1.002 kg/l
Liquid

WGK 1
Storage RT

Composition:
Potassium Chloride .....0.001 mol/l
CONDUCTIVITY VALUES DEPENDING ON TEMPERATURE
T (°C) .....(µS/cm)
20,0 133

21,0 136	27,0 153	
22,0 139	28,0 156	
23,0 142	29,0 159	
24,0 145	30,0 162	
25,0 147	Uncertainty .....See certificate	
26,0 150	Conductivity at 25 °C ..... 142-152 µS/cm	

Code	Packaging
396881.1209	250 ml

394659 Conductivity Standard 1413 µS/cm (25 °C)

HAJNA

CS 38220000

Density .....1.002 kg/l
Liquid

WGK 1
Storage RT

Composition:
Potassium Chloride .....0.010 mol/l
CONDUCTIVITY VALUES DEPENDING ON TEMPERATURE
T (°C) .....(µS/cm)
20,0 1278

21,0 1305	27,0 1467	
22,0 1332	28,0 1494	
23,0 1359	29,0 1522	
24,0 1386	30,0 1549	
25,0 1413	Uncertainty .....See certificate	
26,0 1440	Conductivity at 25 °C ..... 1408-1418 µS/cm	

Code	Packaging
394659.1209	250 ml

394657 Conductivity Standard 5446 µS/cm (25 °C)

CS 38220000

Density .....1.000 kg/l
Liquid

WGK 1
Storage RT

Composition:
Potassium Chloride .....0.040 mol/l
CONDUCTIVITY VALUES DEPENDING ON TEMPERATURE
T (°C) .....(µS/cm)
20,0 4915

21,0 5022	27,0 5658	
22,0 5128	28,0 5764	
23,0 5234	29,0 5870	
24,0 5340	30,0 5976	
25,0 5446	Uncertainty .....See certificate	
26,0 5552	Conductivity at 25 °C ..... 5421-5451 µS/cm	

Code	Packaging
394657.1209	250 ml

HEBAPEAKTMB

394658 Conductivity Standard 12.88 mS/cm (25 °C)

CS 38220000

Density .....1.002 kg/l
Liquid

WGK 1
Storage RT

Composition:
Potassium Chloride .....0.100 mol/l
CONDUCTIVITY VALUES DEPENDING ON TEMPERATURE

T (°C)	(mS/cm)
20,0	11.67
21,0	11.91
22,0	12.15
23,0	12.39
24,0	12.64
25,0	12.88
26,0	13.13
27,0	13.37
28,0	13.62
29,0	13.87
30,0	14.12

Uncertainty .....See certificate
Conductivity at 25 °C .....12.82-12.94 mS/cm

Code	Packaging
394658.1209	250 ml

COLOUR STANDARDS

125417 Blue Primary Solution (BP, Ph. Eur.) for analysis

for determination of the coloration grade in liquids. 1ml of Sodium Thiosulphate 0,1M corresponds to 24,97 mg of $CuSO_4.5H_2O$

CS 28061000

Density .....1.044 kg/l
Liquid

Storage RT

Specifications
Assay (as $CuSO_4.5H_2O$) .....62.35-62.45 g/l

λ_{max} ABS in H_2O .....805-810 nm
ABS max. in H_2O 0.590-0.610

Code	Packaging
125417.1208	100 ml

125416 Red Primary Solution (BP, Ph. Eur.) for analysis

for determination of the coloration grade in liquids. 1ml of Sodium Thiosulphate 0,1M corresponds to 23,79 mg of $CoCl2.6H_2O$

CS 28061000

Density .....1.035 kg/l
Liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
Storage RT

Danger



H350i H302 H334 H317 H411

Specifications
Assay (as $CoCl2.6H_2O$) .....59.4-59.6 g/l
Density 20/4 ..... 1.030-1.035

Code	Packaging
125416.1208	100 ml

125415 Yellow Primary Solution (BP, Ph. Eur.) for analysis

for determination of the coloration grade in liquids. 1 ml of Sodium Thiosulphate 0,1M corresponds to 27,03 mg of $FeCl3.6H_2O$

CS 28061000

Density .....1.030 kg/l
Liquid

Storage RT

Specifications
Assay (as $FeCl3.6H_2O$) .....44.95-45.05 g/l
ABS in H_2O λ_{max} 400 nm 0.720-0.740

Code	Packaging
125415.1208	100 ml

395508 Colour Standard Pt-Co, 500 APHA

for colour determination

Hazen Colour

CS 28061000

Density .....1.020 kg/l
Liquid

Storage RT

Composition:
Potassium Chloroplatinate .....1.245 g
Cobalt (II) chloride 6-H_2O .....1.000 g

Water (s.q.m) ..... 1000 ml
Concentration ..... See certificate
ABS λ_{max} 510 nm 0.055-0.065

ABS λ_{max} 430 nm 0.110-0.120
ABS λ_{max} 480 nm 0.105-0.120
ABS λ_{max} 455 nm 0.130-0.145

Code	Packaging
395508.1610	500 ml

COD STANDARDS

394642 COD Standard (50 ppm)

CS 38220000

Density .....1.002 kg/l
Liquid

Storage between 2-8 °C

Specifications
Concentration: .....50 ppm
Uncertainty .....± 10 ppm

Composition:
Potassium Hydrogen Phthalate ..... 0.0425 g
Distilled water (s.q.m.) ..... 1000.0 ml
Uncertainty ..... See certificate

Traceability .....NIST
The used reference product, is traceable with the NIST standard Potassium Hydrogen Phthalate ref. 84j

Code	Packaging
394642.1606	25 ml

394547 COD Standard (150 ppm)

CS 38220000

Density .....1.003 kg/l
Liquid

Storage between 2-8 °C

Composition:
Potassium Hydrogen Phthalate .....0.1275 g
Distilled water (s.q.m.) .....1000.0 ml
Uncertainty .....See certificate

Traceability ..... NIST

Uncertainty .....± 25 ppm
The used reference product, is traceable with the NIST standard Potassium Hydrogen Phthalate ref. 84j

Code	Packaging
394547.1606	25 ml

394640 COD Standard (500 ppm)

CS 38220000

Density .....1.005 kg/l
Liquid

Storage between 2-8 °C

Composition:
Potassium Hydrogen Phthalate .....0.4251 g
Distilled water (s.q.m.) .....1000.0 ml
Uncertainty .....See certificate

Traceability ..... NIST

Uncertainty .....± 50 ppm
The used reference product, is traceable with the NIST standard Potassium Hydrogen Phthalate ref. 84j

Code	Packaging
394640.1606	25 ml

394546 COD Standard (1000 ppm)

CS 38220000

Density .....1.008 kg/l
Liquid

Storage between 2-8 °C

Composition:
Potassium Hydrogen Phthalate .....0.8502 g
Distilled water (s.q.m.) .....1000.0 ml
Uncertainty .....See certificate

Traceability ..... NIST

Uncertainty .....± 100 ppm
The used reference product, is traceable with the NIST standard Potassium Hydrogen Phthalate ref. 84j

Code	Packaging
394546.1606	25 ml

HeBaPeaKTMB

394641 COD Standard (3000 ppm)

CS 38220000

Density .....1.007 kg/l
Liquid

Storage between 2-8 °C

Composition:
Potassium Hydrogen Phthalate .....2.5505 g
Distilled water (s.q.m.) .....1000.0 ml
Uncertainty .....See certificate

Traceability .....NIST

Uncertainty .....± 100 ppm
The used reference product, is traceable with the NIST standard Potassium Hydrogen Phthalate ref. 84j

Code	Packaging
394641.1606	25 ml

394545 COD Standard (7000 ppm)

CS 38220000

Density .....1.010 kg/l
Liquid

Storage between 2-8 °C

Composition:
Potassium Hydrogen Phthalate .....5.9514 g
Distilled water (s.q.m.) .....1000.0 ml
Uncertainty .....See certificate

Traceability .....NIST

Uncertainty .....± 300 ppm
The used reference product, is traceable with the NIST standard Potassium Hydrogen Phthalate ref. 84j

Code	Packaging
394545.1606	25 ml

REDOX STANDARDS

395443 Redox Standard 220 mV (25 °C)

CS 38220000

Density .....1.004 kg/l
Liquid

Storage RT

Composition:
Potassium
Hexacyanoferrate(II) 3-hydrate .....4.3 g
Potassium Hexacyanoferrate(III) .....3.3 g
Buffer Solution pH 7.00 .....200 ml
Water (s.q.m) .....1000 ml
REDOX POTENTIAL VALUES DEPENDING ON TEMPERATURE

T (°C)	mV
10	245
15	236
20	228
25	220
30	212
35	204
40	195
50	178
60	160
70	142

Uncertainty .....See certificate
Potential at 25 °C .....215 -225 mV

Code	Packaging
395443.1209	250 ml

395442 Redox Standard 468 mV (25 °C)

CS 28070000

Density .....1.033 kg/l
Liquid

Storage RT

Composition:
Iron(II) Sulfate 7-hydrate .....9.2 g
Iron(III) Sulfate x-hydrate .....9.3 g
Sulfuric Acid 96 % .....18 ml
Water (s.q.m) .....1000 ml
REDOX POTENTIAL VALUES DEPENDING ON TEMPERATURE

T (°C)	mV
10	452
15	457
20	463
25	468
30	474
35	479
40	485
50	497
60	509
70	522

Uncertainty .....See certificate
Potential at 25 °C .....463-473 mV

Code	Packaging
395442.1209	250 ml

TURBIDITY STANDARDS

395464 Solution A for turbidity primary standard

for preparing formazin primary standard

CS 38220000

Density .....1.006 kg/l
Solubility .....Miscible with water

UN3287
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage RT

Danger



H350 H311 H301

Composition:
Hidrazinium Sulfate .....1.0 g

Water (s.q.m) ..... 100.0 ml
Assay (as NH_2-NH_2, H_2SO_4) (w/v) .....0.95-1.05 %

Code	Packaging
395464.1209	250 ml

395465 Solution B for turbidity primary standard

for preparing formazin primary standard

CS 38220000

Density .....1.021 kg/l
Solubility .....Miscible with water

Storage RT

Composition:
Hexamethylenetetramine .....10.0 g

Water (s.q.m) ..... 100.0 ml
Assay (as $(CH_2)6N4$) (w/v) .....9.9-10.1 %

Code	Packaging
395465.1209	250 ml

VOLUMETRY STANDARDS

241487 Potassium Bromate standard for volumetry, ACS, ISO

Primary Chemical Matter

$KBrO_3$
M = 167.01 g/mol
CAS 7758-01-2
EINECS 231-829-8
CS 28299040
Index Nr. 035-003-00-6

Melting Point ..... 434 °C
Solubility ..... water 70 g/l at 20 °C
Solid

UN1484
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 3
Storage RT

Danger



H350 H271 H301

Specifications
Uncertainty .....See certificate
Traceability ..... NIST
Assay (Iodom.) (after drying at 130 °C) .....99.95-100.05 %
pH of 5 % solution 5.0-9.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %

Nitrogen compounds (as N) .....0.001 %
Bromide (Br) .....0.02 %
Sulfate (SO_4) .....0.005 %
Heavy metals (as Pb) .....0.0005 %
Ca .....0.005 %
Cd .....0.0005 %
Co .....0.0005 %
Cu .....0.0005 %
Fe .....0.0005 %

Mg ..... 0.001 %
Mn ..... 0.0005 %
Na ..... 0.01 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
241487.1521	10 x 1,5 g
241487.1608	100 g

241494 Potassium Chloride standard for volumetry, ACS, ISO

Primary Chemical Matter

KCl
M = 74.56 g/mol
CAS 7447-40-7
EINECS 231-211-8
CS 31042090

Melting Point ..... 778 °C
Boiling Point ..... 1,420 °C
Solubility ..... water 340 g/l at 20 °C
Solid

WGK 1
Storage RT

Specifications

Uncertainty	See certificate
Traceability	NIST
Assay (Arg.)	
(after drying at 110 °C)	99.95-100.05 %
pH of 5 % solution	5.4-8.0

Maximum limit of impurities

Insoluble matter in H_2O	0.005 %
Nitrogen compounds (as N)	0.001 %
Bromide (Br)	0.01 %

Phosphate (PO_4)	0.0005 %
Sulfate (SO_4)	0.001 %
Iodide (I)	0.002 %
Chlorate and nitrate (as NO_3)	0.003 %
Heavy metals (as Pb)	0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Ag	5	Al	10
Au	5	B	5
Ba	10	Be	5
Bi	5	Ca	20
Cd	5	Co	5
Cr	5	Cu	5
Fe	2	Ga	5
Ge	5	Hg	5
In	5	Li	5
Mg	10	Mn	5
Mo	5	Na	50
Ni	5	Pb	5
Pt	5	Sb	5

Code	Packaging
241494.1608	100 g

241481 Potassium Hydrogen Phthalate standard for volumetry, ACS, ISO

Primary Chemical Matter

Phthalic Acid mono-Potassium Salt, Potassium Biphthalate

$C_6H_4COOHCOOK$
M = 204.23 g/mol
CAS 877-24-7
EINECS 212-889-4
CS 29173995

Melting Point ..... 295-300 °C
Solubility ..... water 80 g/l at 20 °C
Solid

WGK 1
Storage RT

Specifications

Uncertainty	See certificate
Traceability	NIST
Assay (Acidim.)	
(after drying at 105 °C)	99.95-100.05 %
Identity	IR passes test
pH sol. 0.05 mol/l at 25 ± 0.2 °C	4.00-4.02

Maximum limit of impurities

Insoluble matter in H_2O	0.003 %

Chloride (Cl)	0.002 %
Nitrogen compounds (as N)	0.001 %
Sulfur compounds (as S)	0.002 %
Clhorine compounds (as Cl)	0.003 %
Heavy metals (as Pb)	0.0005 %
Ca	0.001 %
Cd	0.0005 %
Co	0.0005 %
Cr	0.001 %
Cu	0.0005 %

Fe	0.0005 %
Mg	0.001 %
Mn	0.0005 %
Na	0.005 %
Ni	0.0005 %
Pb	0.0005 %
Zn	0.0005 %

Code	Packaging
241481.1521	10x1,5 g
241481.1608	100 g

241540 Potassium Iodate standard for volumetry, ACS, ISO

Primary Chemical Matter

KIO_3
M = 214.00 g/mol
CAS 7758-05-6
EINECS 231-831-9
CS 28299080

Melting Point ..... 560 °C
Solubility ..... water 47 g/l at 20 °C
Solid

UN1479
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 1
Storage RT

Danger



H272

Specifications

Uncertainty	See certificate
Traceability	NIST
Assay (Iodom.)	
(after drying at 130 °C)	99.95-100.05 %
pH of 5 % solution	5.0-8.0

Maximum limit of impurities

Insoluble matter in H_2O	0.005 %

Nitrogen compounds (as N)	0.002 %
Sulfate (SO_4)	0.005 %
Iodide (I)	0.001 %
Bromide and Chloride (as Cl)	0.01 %
Heavy metals (as Pb)	0.0005 %
As	0.0001 %
Ca	0.001 %
Cd	0.0005 %
Co	0.0005 %

Cu	0.0005 %
Fe	0.001 %
Mg	0.001 %
Mn	0.0005 %
Na	0.005 %
Ni	0.0005 %
Pb	0.0005 %
Zn	0.0005 %

Code	Packaging
241540.1521	10 x 1,5 g
241540.1608	100 g

241459 Silver Nitrate standard for volumetry, ACS, ISO

Primary Chemical Matter

$AgNO_3$
M = 169.87 g/mol
CAS 7761-88-8
EINECS 231-853-9
CS 28432100
Index Nr. 047-001-00-2

Melting Point ..... 212 °C
Boiling Point ..... 444 °C
Solubility ..... water 2,150 g/l at 20 °C
Solid

UN1493
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 3
Storage away from direct light.

Danger



H272 H314 H410

Specifications

Uncertainty	See certificate
Traceability	NIST
Assay (Arg.)	
(after drying with H_2SO_4)	99.95-100.05 %

Maximum limit of impurities

Acidity	passes test

Insoluble matter in H_2O	0.003 %
Insoluble matter in C_2H_5OH	0.003 %
Chloride (Cl)	0.0005 %
Sulfate (SO_4)	0.002 %
Non-precipit. subst. by HCl	0.01 %
Bi	0.0005 %
Ca	0.001 %
Cu	0.0002 %

Fe	0.0002 %
K	0.01 %
Mg	0.001 %
Na	0.002 %
Pb	0.001 %

Code	Packaging
241459.1521	10 x 1,5 g
241459.1608	100 g

241648 Sodium Carbonate anhydrous standard for volumetry, ACS, ISO

Primary Chemical Matter

Na_2CO_3
M = 105.99 g/mol
CAS 497-19-8
EINECS 207-838-8
CS 28362000
Index Nr. 011-005-00-2

Melting Point ..... 851 °C
Solubility ..... water 210 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H319

Specifications

Uncertainty	See certificate
Traceability	NIST
Assay (Acidim.)	
(after dried at 120 °C. 2 h)	99.95-100.05 %

Maximum limit of impurities

Insoluble matter in H_2O	0.005 %

Reducing substances of I2	0.005 %
Chloride (Cl)	0.001 %
Nitrogen compounds (as N)	0.001 %
Sulfur compounds (as SO_4)	0.003 %
Phosphate (PO_4)	0.001 %
Silicate (as SiO_2)	0.005 %
Heavy metals (as Pb)	0.0005 %
Al	0.001 %

As	0.0001 %
Ca	0.005 %
Cu	0.0005 %
Fe	0.0005 %
K	0.005 %
Mg	0.002 %
Ni	0.0005 %
Pb	0.0005 %

Code	Packaging
241648.1521	10x1,5 g
241648.1608	100 g

HeBaPeaKTMB

241659 Sodium Chloride standard for volumetry, ACS, ISO

Primary Chemical Matter

NaCl
M = 58.44 g/mol
CAS 7647-14-5
EINECS 231-598-3
CS 25010010

Melting Point ..... 804 °C
Boiling Point ..... 1,413 °C
Solubility ..... water 360 g/l at 20 °C
Solid

WGK nwg
Storage RT

Specifications
Uncertainty ..... See certificate
Traceability ..... NIST
Assay (Arg.)
(after drying at 110 °C) ..... 99.95-100.05 %
pH of 5 % solution 5.0-8.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Nitrogen compounds (as N) ..... 0.001 %
Bromide (Br) ..... 0.01 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.001 %
Iodide (I) ..... 0.002 %
Chlorate and nitrate (as NO_3) ..... 0.003 %
Hexacyanoferrate(II) and (III) [Fe(CN)6] ..... 0.0001 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00004 %
Ba ..... 0.0005 %
Ca ..... 0.002 %
Cu ..... 0.0002 %
Fe ..... 0.0002 %
K ..... 0.005 %
Mg ..... 0.001 %
Ni ..... 0.0005 %
Pb ..... 0.0002 %

Code	Packaging
241659.1521	10 x 1,5 g
241659.1608	100 g

241706 di-Sodium Oxalate standard for volumetry, ACS

Primary Chemical Matter

Oxalic Acid Sodium Salt

$(NaCOO)_2$
M = 134.00 g/mol
CAS 62-76-0
EINECS 200-550-3
CS 29171100
Index Nr. 607-007-00-3

Solubility ..... water 37 g/l at 20 °C
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 1
Storage RT

Warning



H312 H302

Specifications
Uncertainty ..... See certificate
Traceability ..... NIST
Assay (Perm.)
(after drying at 130 °C) ..... 99.95-100.05 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Darkened substances by H_2SO_4 ... passes test
Chloride (Cl) ..... 0.002 %
Ammonium (NH_4) ..... 0.002 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.002 %
Neutrality ..... passes test
Heavy metals (As Pb) ..... 0.002 %
Cu ..... 0.001 %
Fe ..... 0.0005 %
K ..... 0.005 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
241706.1608	100 g

241719 Sodium Tartrate 2-hydrate standard for volumetry, ACS

Primary Chemical Matter

di-Sodium Tartrate, Tartaric Acid Disodium Salt

$Na_2(COO)_2(CHOH)_2 \cdot 2H_2O$
M = 230.08 g/mol
CAS 6106-24-7
EINECS 212-773-3
CS 29181300

Melting Point ..... 150 °C
Solubility ..... water 290 g/l at 20 °C
Solid

WGK 1
Storage RT

Specifications
Uncertainty ..... See certificate
Traceability ..... NIST
Assay (Perchl. Ac.) ..... 99.0-101.0 %
pH of 5 % solution 7.0-9.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 150 °C ..... 15.66 ± 0.05 %
Chloride (Cl) ..... 0.0005 %
Ammonium (NH_4) ..... 0.003 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.002 %
Heavy metals (As Pb) ..... 0.0005 %
As ..... 0.00005 %
Ca ..... 0.005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.002 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
241719.1521	10 x 1,5 g
241719.1608	100 g

241940 Tris standard for volumetry, ACS

Primary Chemical Matter

2-Amino-2-Hydroxymethyl-1,3-Propanediol, THAM, Tris, Trizma, Trometamol, Tromethamine, Tromethylol Aminomethane

$C_4H_{11}NO_3$
M = 121.14 g/mol
CAS 77-86-1
EINECS 201-064-4
CS 29221985

Melting Point ..... 171-172 °C
Boiling Point ..... 219-220 °C
Solubility ..... water 550 g/l at 25 °C
Solid

WGK 2
Storage RT

Warning



H319 H315

Specifications
Uncertainty ..... See certificate
Traceability ..... NIST
Assay (Perchl. Ac.)
(after drying at 105 °C) ..... 99.95-100.05 %
Identity ..... IR passes test
pH sol. 0.05 mol/l 10.2-10.6
Melting range ..... 169-171 °C

Maximum limit of impurities
ABS λ_{max} 290 nm 40 % sol. in water 0.2
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4) ..... 0.01 %
Chloride (Cl) ..... 0.0005 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00005 %
Ca ..... 0.001 %
Cd ..... 0.0001 %
Co ..... 0.0001 %
Cr ..... 0.0001 %
Cu ..... 0.0002 %
Fe ..... 0.0005 %
K ..... 0.001 %
Mg ..... 0.001 %
Na ..... 0.001 %
Ni 0.0005
Pb ..... 0.0002 %
Zn ..... 0.0002 %

Code	Packaging
241940.1521	10 x 1,5 g
241940.1608	100 g

241500 Potassium Dichromate (Reag. Ph. Eur.) standard for volumetry, ISO

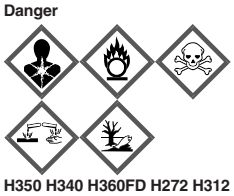
Primary Chemical Matter

$K_2Cr_2O_7$
M = 294.19 g/mol
CAS 7778-50-9
EINECS 231-906-6
CS 28415000
Index Nr. 024-002-00-6

Melting Point ..... 398 °C
Boiling Point ..... 610 °C
Solubility ..... water 120 g/l at 20 °C
Solid

UN3086
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 3
Storage RT

Danger



H350 H340 H360FD H272 H312

Specifications
Uncertainty ..... See certificate
Traceability ..... NIST
Assay (Perm.)
(after drying at 130 °C) ..... 99.95-100.05 %
pH of 5 % solution 3.7-3.9
Suitability: for Cl determination according to UNE 7[illegible]89 ..... passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Chloride (Cl) ..... 0.001 %
Sulfate (SO_4) ..... 0.01 %
Ca ..... 0.002 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.02 %
Ni ..... 0.0005 %
Pb ..... 0.001 %
Zn ..... 0.0005 %

Code	Packaging
241500.1608	100 g

241014 Benzoic Acid standard for volumetry

Primary Chemical Matter

Benzenecarboxylic acid, Phenylformic acid

C_6H_5COOH
M = 122.12 g/mol
CAS 65-85-0
EINECS 200-618-2
CS 29163100

Melting Point ..... 122.4 °C (Handbook)
Boiling Point ..... 249.2 °C (Handbook)
Solubility ..... in water at 20 °C
Solid

WGK 1
Storage RT

Danger



H318 H335

Specifications
Uncertainty ..... See certificate
Traceability ..... NIST
Assay (Acidim.) after dried on SiO_2 ..... 99.95-100.05 %
Identity ..... IR passes test
Melting range ..... 122-123 °C

Maximum limit of impurities
Insoluble matter in CH_3OH ..... 0.005 %
Reducing substance to $KMnO_4$ ..... passes test
Darkened substances by H_2SO_4 ... passes test
Residue on ignition (as SO_4) ..... 0.005 %
Sulfur compounds (as S) ..... 0.01 %
Clhorine compounds (as Cl) ..... 0.01 %

Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.0003 %
Cu ..... 0.0005 %
Fe ..... 0.0002 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
241014.1521	10 x 1,5 g
241014.1608	100 g

WATER STANDARDS

395458 Karl Fischer Water Standard 10 mg/g

for volumetric titrations. 1 g contains 10 mg H_2O

CS 38220000

Density ..... 1.000 kg/l
Solubility ..... Soluble in water.

UN1993
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
Storage RT

Danger



H225 H332 H312 H319 H315

Specifications
Uncertainty ..... See certificate

Traceability ..... NIST
Concentration (as H_2O) 10

Code	Packaging
395458.2527	10 x 10 ml

396883 Karl Fischer Water Standard 5.0 mg/g

for volumetric titrations. 1 g contains 5,0 mg H_2O

CS 38220000

Density ..... 0.844 kg/l
Solubility ..... Soluble in water.

UN1993
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
Storage RT

Danger



H225 H312 H332 H315 H319

Specifications
Uncertainty ..... See certificate

Traceability ..... NIST
Concentration (as H_2O) 5

Code	Packaging
396883.2527	10x10 ml

395459 Karl Fischer Water Standard 1.0 mg/g

for coulometric titrations. 1 g contains 1,0 mg H_2O

CS 38220000

Density ..... 1.000 kg/l
Solubility ..... Very slightly soluble in water.

Storage RT

Warning



H226 H319 H335 H315

Specifications
Uncertainty ..... See certificate

Traceability ..... NIST
Concentration (as H_2O) 1

Code	Packaging
395459.2527	10 x 10 ml

TIC STANDARDS

396903 TIC Standard (1000 mg/l)

CS 38220000

Density ..... 1.001 kg/l
Liquid

Storage between 2-8 °C

Specifications
Composition
(4,4122gNa2CO_3+3,4972gNaHCO_3/l H_2O)
Concentration (as C4+) ..... 1000 ± 5 mg/l

Code	Packaging
396903.1211	1000 ml

396902 TIC Standard (500 mg/l)

CS 38220000

Density ..... 1.001 kg/l
Liquid

Storage between 2-8 °C

Specifications
Composition
(2,2061gNa2CO_3+1,7486gNaHCO_3/ l H_2O)
Concentration (as C4+) ..... 500 ± 3 mg/l

Code	Packaging
396902.1211	1000 ml

TOC STANDARDS

396906 TOC Standard (100 mg/l)

CS 38220000

Density ..... 1.001 kg/l
Liquid

Storage between 2-8 °C

Specifications
Composition (212,6 mg $C_8H_5O_4K$ / l H_2O)
Concentration (as C4+) ..... 100 ± 0.5 mg/l

Code	Packaging
396906.1211	1000 ml

396908 TOC Standard (1000 mg/l)

CS 38220000

Density ..... 1.001 kg/l
Liquid

Storage RT

Specifications
Composition (2,1255 g $C_8H_5O_4K$ / l H_2O)
Concentration (as C4+) ..... 1000 ± 5 mg/l

Code	Packaging
396908.1211	1000 ml

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НеваРеактив

396909 TOC Standard (10000 mg/l)

CS 38220000

Density .....1.002 kg/l Storage RT
Liquid

Specifications
Composition (21,255 g $C_8H_5O_4K$ / l H_2O)
Concentration (as C4+) .....10000 ± 50 mg/l

Code	Packaging
396909.1211	1000 ml

396905 TOC Standard (50 mg/l)

CS 38220000

Density .....1.001 kg/l Storage RT
Liquid

Specifications
Composition (106,3 mg $C_8H_5O_4K$ / l H_2O)
Concentration (as C4+) .....50 ± 0.3 mg/l

Code	Packaging
396905.1211	1000 ml

396907 TOC Standard (500 mg/l)

CS 38220000

Density .....1.001 kg/l Storage RT
Liquid

Specifications
Composition (1,063 g $C_8H_5O_4K$ / l H_2O)
Concentration (as C4+) .....500 ± 3 mg/l

Code	Packaging
396907.1211	1000 ml

Starch

Amylum solubile, Toronto-Starch

$(C_6H_{10}O_5)_n$
M = (162.14)n g/mol
CAS 9005-84-9
EINECS 232-686-4
CS 11081300
CS 35051090

Solid Storage RT

121096 Starch from Potato soluble (Reag. USP, Ph. Eur.) for analysis

indicator for iodometry

Specifications
Identity .....IR passes test
pH sol. 2 % 5.0-7.0

Maximum limit of impurities
Insoluble matter in H_2O .....passes test
Reducing substances (as $C_6H_{12}O_6$) .....0.7 %
Loss on drying at 100 °C .....13-20 %

Residue on ignition (as SO_4) .....1.5 %
Sensitivity as iodine reagent ..... passes test

Code	Packaging
121096.1210	500 g
121096.1211	1000 g
121096.0416	25 kg

A2223 Starch (from potatoes)

Specifications
Loss on drying .....max. 20 %
pH (2 %; H_2O; 20 °C) 6.0-7.5

Sulfated ash ..... max. 0.6 %
Fe ..... max. 0.001 %

Code	Packaging
A2223,1000	1 kg

A2224 Starch (Smithies)

hydrolysed starch for electrophoresis

Specifications
Loss on drying ..... max. 20 %

Solubility (2 %; H_2O; 90 °C) ..... clear
Sulfated ash .....max. 1 %

Code	Packaging
A2224,2000	2 kg

A4881 Starch, cold-soluble

Specifications
Loss on drying .....max. 15 %
pH (1 %; H_2O) 5.5-7.5

Code	Packaging
A4881,1000	1 kg

Starch solution 2 %

$(C_6H_{10}O_5)n$
M = 162.14 (n) g/mol
CAS 9005-84-9
EINECS 232-686-4
CS 35051090

Density .....1.021 kg/l WGK nwg
Solubility .....Miscible with water Storage RT
Liquid

624567 Starch solution 2 % VINIKIT for wine analysis

for determination of reducing sugar in wine, according to Rebelein method

Specifications
Sensitivity as iodine reagent .....passes test

Code	Packaging
624567.1210	500 ml

Starch solutions 1 %

$(C_6H_{10}O_5)n$
M = 162.14 (n) g/mol
CAS 9005-84-9
EINECS 232-686-4
CS 35051090

Density .....1.003 kg/l WGK nwg
Solubility .....Miscible with water Storage RT
Liquid

623146 Starch solution 1 % VINIKIT for wine analysis

for determination of sulfurous gas (SO_2) in wine

Specifications
Sensitivity as iodine reagent ..... passes test

Code	Packaging
623146.1208	100 ml
623146.1210	500 ml

283146 Starch solution 1 % for volumetric analysis

indicator for iodometry

Specifications
Sensitivity as iodine reagent ..... passes test

Code	Packaging
283146.1209	250 ml
283146.1211	1000 ml

НеваРеактив

Staurosporine

Antibiotic AM-2282

Origin from *Streptomyces staurosporeus*

$C_{28}H_{26}N_4O_3$
M = 466.53 g/mol
CAS 62996-74-1
CS 29419000

Solid

Storage protected from light
Storage 2-8 °C

Danger



H350

A7626 Staurosporine BioChemica

Specifications
Assay (HPLC) .....min. 97 %

λ_{max} (MeOH) 208, 241, 292, 334, 355, 373 nm
Solubility (5 mg/ml EtOAc) ..... clear, colorless

Code	Packaging
A7626,00005	0.5 mg

Stearic Acid

Octadecanoic Acid

$C_{18}H_{36}O_2$
M = 284.49 g/mol
CAS 57-11-4
EINECS 200-313-4
CS 29157050

Melting Point ..... 69 °C
Boiling Point ..... 383 °C
Solubility Insoluble in water. Soluble in acetone and trichloromethane.
Solid

WGK nwg
Storage RT

162590 Stearic Acid, 98 % for synthesis

Specifications
Minimum assay (G.C.)
(as methyl ester) .....98 %

Identity ..... IR passes test
Melting range ..... 67-70 °C

Code	Packaging
162590.1210	500 g

Stearic Acid Magnesium Salt see Magnesium Stearate

Sterility Test Broth see Thioglycollate Liquid Medium (Ph. Eur. USP, ISO 7937) (Dehydrated Culture Media) for microbiology

Streptavidin

Origin from *Streptomyces avidinii*

M = ~ 60000 g/mol
CAS 9013-20-1
CS 35040090

Storage 2-8 °C

A1495 Streptavidin ultrapure

purified by Affinity chromatography salt-free

Specifications
Activity .....1 mg binds 15 µg Biotin

Code	Packaging
A1495,0001	1 mg
A1495,0005	5 mg

Streptomycin Sulfate

$(C_{21}H_{39}N_7O_{12})_2 \cdot 3H_2SO_4$
M = 1457.38 g/mol
CAS 3810-74-0
EINECS 223-286-0
CS 29412080

Solid

Storage RT

Danger



H302 H361

A1852 Streptomycin Sulfate BioChemica

Specifications
Activity ..... min. 720 I.U./mg
Loss on drying .....max. 7 %
pH (25 %; H_2O; 25 °C) 4.5-7.0
Sulfate ..... 18-21 %

Code	Packaging
A1852,0025	25 g
A1852,0050	50 g
A1852,0100	100 g
A1852,0250	250 g
A1852,1000	1 kg
A1852,5000	5 kg

Streptozotocin

N-(Methylnitrosocarbamoyl)-α-D-Glucosamine

$C_8H_{15}N_3O_7$
M = 265.22 g/mol
CAS 18883-66-4
EINECS 242-646-8
CS 29419000

Solid

Storage protected from light
Storage 2-8 °C

Warning



H350

A4272 Streptozotocin

Specifications
Assay (HPLC, anhydrous subst.) ....min. 96 %
α-Anomer (HPLC) .....min. 75 %
Heavy metals (as Pb) ..... max. 0.0005 %

Identity .....passes test
Sulfated ash ..... max. 0.3 %
Water (K.F.) ..... max. 3 %

Code	Packaging
A4272,0250	250 mg
A4272,0001	1 g

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

НеваРеактив

Stripping Buffer I

Stripping buffer for Western blots

CS 38220000

Storage -20 °C
Storage shipment at ambient temperature

A7140 Stripping Buffer I

Specifications
for reprobing on the same membrane

ready-to-use; without β-mercaptoethanol and DTT; pH 2.8

stabilized with 0.1 % ProClin® 300
Stripping buffer I removes antibodies from Western blot membranes

Code	Packaging
A7140,0125	125 ml

Strips pH 3,8-5,5 (gradation 0.2/0.3)

CS 38220000

paper
Paper sticks

WGK nwg
Storage RT

524156 Strips pH 3.8-5.5 (gradation 0.2/0.3)

Code	Packaging
524156.1826	Strips

Strips pH 5,2-6,8 (gradation 0.2/0.3)

CS 38220000

paper
Paper sticks

WGK nwg
Storage RT

524160 Strips pH 5.2-6.8 (gradation 0.2/0.3)

Code	Packaging
524160.1826	Strips

Strips pH 6,0-8,1 (gradation 0.3)

CS 38220000

paper
Paper sticks

WGK nwg
Storage RT

524157 Strips pH 6.0-8.1 (gradation 0.3)

Code	Packaging
524157.1826	Strips

Strips pH 1-12 (gradation 1.0)

CS 38220000

paper
Paper sticks

WGK nwg
Storage RT

524159 Strips pH 1-12 (gradation 1.0)

Code	Packaging
524159.1826	Strips

Strontium Chloride 6-hydrate

$SrCl_2 \cdot 6H_2O$
M = 266.62 g/mol
CAS 10025-70-4
EINECS 233-971-6
CS 28273985

Melting Point ..... 61 °C
Boiling Point ..... 100 °C
Solubility ..... water 1,062 g/l at 20 °C
Solid

WGK 1
Storage RT

141307 Strontium Chloride 6-hydrate pure

Specifications
Assay (Compl.) ..... 98-103 %
pH of 5 % solution 5-7
Insoluble matter in H_2O ..... 0.01 %
Sulfate (SO_4) ..... 0.005 %
Ca ..... 0.01 %
Cu ..... 0.002 %
Fe ..... 0.002 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141307.1210	500 g
141307.1211	1000 g
141307.0416	25 kg

Succinic Acid

Butanedioic Acid

$HOOCCH_2CH_2COOH$
M = 118.09 g/mol
CAS 110-15-6
EINECS 203-740-4
CS 29171990

Boiling Point ..... ~ 235 °C (dec.)
Density ..... approx. 1.55 kg/l (20 °C)
Solid

WGK 1
Storage RT

Warning



H319

131883 Succinic Acid (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Acidim.) ..... 99.0 %
Identity ..... IR passes test
Melting range ..... 185.0-187 °C

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition ..... 0.02 %
Chloride (Cl) ..... 0.001 %
Nitrogen compounds (as N) ..... 0.001 %
Phosphate (PO_4) ..... 0.001 %
Sulfate (SO_4) ..... 0.003 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.0001 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Mg ..... 0.005 %
Mn ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131883.1209	250 g
131883.1211	1000 g

141883 Succinic Acid crystalline pure

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.002 %
Chloride ..... max. 0.002 %
Sulfate ..... max. 0.01 %

Code	Packaging
141883.1214	5 kg

161883 Succinic Acid, 99 % for synthesis

Specifications
Minimum assay (Acidim.) .....99 %
Identity ..... IR passes test
Melting range .....185-188 °C

Code	Packaging
161883.1211	1000 g

Succinimidyl 6-(Biotinamido)-Hexanoate see Biotinamidohexanoic Acid N-Hydroxysuccinimide Ester

D(+)-Sucrose

Saccharose, β-D-Fructofuranosyl-α-D-Glucopyranoside

$C_{12}H_{22}O_{11}$
M = 342.30 g/mol
CAS 57-50-1
EINECS 200-334-9
CS 17019910

Melting Point .....185-187 °C
Solubility .....readily soluble (H_2O)
Solid

WGK nwg
Storage RT

131621 D(+)-Sucrose for analysis, ACS

Specifications
Minimum assay (G.C.) .....99.0 %
Identity .....IR passes test
Specific rotation
α 25/D c=26 (in H_2O) .....66.3-66.8°

Maximum limit of impurities
Acidity .....0.0008 meq/g
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 105 °C .....0.03 %
Residue on ignition (as SO_4) .....0.01 %

Chloride (Cl) .....0.002 %
Nitrogen compounds (as N) .....0.001 %
Inverted sugar .....0.05 %
Sulfate and sulfite (as SO_4) .....0.005 %
Heavy metals (as Pb) .....0.0005 %

Metals by ICP [in mg/Kg (ppm)]

Al	5	As	0,0001 %	Cd	5
Au	5	B	5	Co	5
Ba	5	Be	5	Cr	5
Bi	5	Ca	10	Cu	5
				Fe	5
				Ga	5
				Ge	5
				In	5
				K	50
				Mg	20
				Mn	5
				Mo	5
				Na	50
				Ni	5
				Pb	0,5
				Pt	5
				Sb	5
				Si	10

Code	Packaging
131621.1210	500 g
131621.1211	1000 g
131621.0914	5 kg
131621.0416	25 kg

141621 D(+)-Sucrose (USP-NF, BP, Ph. Eur., JP) pure, pharma grade

Specifications
Identity according to
Pharmacopoeias: ..... passes test
Specific rotation
α 25/D c=26 (in H_2O) .....> +65.9°
Specific rotation
α n20/D c=26 (in H_2O) .....+66.3 - + 67.0°

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Loss on drying at 105 °C .....0.1 %

Residue on ignition (as SO_4) .....0.02 %
Sugars Reducing .....passes test
Chloride (Cl) .....0.0035 %
Sulfate (SO_4) .....0.006 %
Sulfite (SO_2) .....0.0010 %
Specific conductance at
20 °C 35x10-6 ohm-1 cm-1
Inverted sugar .....passes test
Colour value 45
Residual solvents (Ph. Eur./USP) . passes test
Dextrin .....passes test
Heavy metals (as Pb) .....0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Zn) .....1.300 ppm
Ba .....passes test
Ca .....passes test
Fe .....0,0005 %
Pb ..... 0,00005 %

Code	Packaging
141621.1211	1000 g
141621.1214	5 kg
141621.0416	25 kg

A2211 D(+)-Sucrose for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (HPLC) .....min. 99.5 %
α20 °C/D; 26 %, H_2O ..... +66.3° - + 67.0°
Heavy metals (as Pb) ..... max. 0.0005 %

Glucose (TLC) ..... max. 0.5 %
Water (K.F.) ..... max. 0.1 %
Sulfate ..... max. 0.005 %

Code	Packaging
A2211,0500	500 g
A2211,1000	1 kg
A2211,5000	5 kg

A2188 D(+)-Sucrose for cell culture

Specifications
Pyrogen test ..... passes test
Assay (HPLC) .....min. 99 %
α20 °C/D; 26 %, H_2O ..... +66.3° - + 67.0°

Glucose (TLC) ..... max. 0.5 %
Water (K.F.) ..... max. 0.5 %
Sulfate ..... max. 0.005 %
As ..... max. 0.0001 %

Ca .....max. 0.001 %
Pb .....max. 0.0005 %

Code	Packaging
A2188,1000	1 kg
A2188,9025	25 kg

A3935 D(+)-Sucrose BioChemica

Specifications
Assay (HPLC) .....min. 99 %
α20 °C/D; 26 %, H_2O ..... +66.3° - + 67.0°
Heavy metals (as Pb) .....max. 0.001 %

Insoluble matter ..... passes test
Glucose (TLC) ..... max. 0.5 %
Water (K.F.) ..... max. 0.5 %
Sulfate ..... max. 0.005 %

A (1 cm/1 M in H_2O)
260 nm .....max. 0.15
280 nm .....max. 0.1

Code	Packaging
A3935,1000	1 kg
A3935,5000	5 kg

Sucrose Monolaurate

$C_{24}H_{44}O_{12}$
M = 524.60 g/mol
CAS 25339-99-5
EINECS 246-873-3
CS 29329900

Solid

Storage 2-8 °C

A2225 Sucrose Monolaurate BioChemica

Specifications
Assay (HPLC) .....min. 98 %

Heavy metals ..... max. 0.0005 %
Water ..... max. 3 %

Code	Packaging
A2225,0001	1 g

Sudan Black B (C.I. 26150)

$C_{29}H_{24}N_6$
M = 456.55 g/mol
CAS 4197-25-5
EINECS 224-087-1
CS 32151100

Solid

Storage RT

A1407 Sudan Black B (C.I. 26150)

Specifications
λ (95 % EtOH) ..... 596-605 nm

E 1 %/1 cm, λ_{max} 390-670
Loss on drying ..... max. 5.0 %

Code	Packaging
A1407,9010	10 kg

Sudan I see Sudan III (C.I. 26100)

Sudan III (C.I. 26100)

1-(4-(Phenylazo) Phenylazo)-2-Naphtol, Red Oil 3B, Red Oil AS, Red Oil B, Solvent Red 23, Sudan G, Tony Red

$C_{22}H_{16}N_4O$
M = 352.40 g/mol
CAS 85-86-9
EINECS 201-638-4
CS 32041600

Melting Point ..... 199 °C
Solubility ..... water 0.1 g/l
Solubility ..... alcohol 2 g/l
Solid

WGK 3
Storage RT

251731 Sudan III (C.I. 26100) for clinical diagnosis

for microscopy, fatty acids and neutral fats staining in faeces

Specifications
Identity ..... IR passes test
Ratio λ_{max} P +/- 15 nm 0.94-1.01
A 1 %, 1 cm, λ_{max} ..... > 750
λ_{max} ABS in C_6H_6 ..... 508-512 nm
T.L.C. ..... passes test

Maximum limit of impurities
Loss on drying at 135 °C ..... 2 %

Code	Packaging
251731.1606	25 g
251731.1608	100 g

Sudan Red G (C.I. 12150)

CAS 1229-55-6
EINECS 214-968-9
CS 32041900

Melting Point ..... 135 °C
Solid

Storage RT

257122 Sudan Red G (C.I. 12150) for clinical diagnosis

Specifications
λ_{max} (MeOH) ..... 495-505 nm
UV spectrum ..... complies to reference

Code	Packaging
257122.1605	10 g

Sugar of lead see Lead(II) Acetate 3-hydrate

Sulfanilamide

4-Aminobenzenesulphonamide, p-Anilinesulphonamide, p-Sulphamidaniline

$C_6H_8N_2O_2S$
M = 172.21 g/mol
CAS 63-74-1
EINECS 200-563-4
CS 29350090

Melting Point ..... 164.5-166.5 °C
Solubility ..... water 6 g/l at 20 °C
Solubility ..... alcohol 28 g/l
Solid

WGK 1
Storage RT

122823 Sulfanilamide (Reag. Ph. Eur.) for analysis

Specifications
Minimum assay (HPLC.) ..... 99.0 %
Identity ..... IR passes test
Melting range ..... 164-167 °C

Maximum limit of impurities
Insoluble matter in HCl ..... passes test
Insoluble matter in NaOH ..... passes test
Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Water (H_2O) ..... 0.5 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
Mn ..... 0.0005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
122823.1208	100 g
122823.1209	250 g
122823.1210	500 g
122823.1211	1000 g

142823 Sulfanilamide (Ph. Fr., DAB) pure, pharma grade

Specifications
Assay (HPLC.) calc. a.d.s. ..... 99-101 %
Identity ..... IR passes test
Melting range ..... 164-167 °C

Maximum limit of impurities
Acidity ..... passes test
Insoluble matter in HCl ..... passes test
Insoluble matter in NaOH ..... passes test
Loss on drying at 105 °C ..... 0.5 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.02 %
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
142823.1210	500 g
142823.1211	1000 g

Sulfanilic Acid

4-Aminobenzenesulphonic Acid, Anilin-4-SulphonicAcid

$C_6H_7NO_3S$
M = 173.19 g/mol
CAS 121-57-3
EINECS 204-482-5
CS 29214200
Index Nr. 612-014-00-X

Solubility ..... water 10 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H319 H315 H317

131057 Sulfanilic Acid (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Acidim.) ..... 99.5-102.0 %
Identity ..... IR passes test

Maximum limit of impurities
Insoluble matter in $Na2CO_3$ ..... 0.01 %
Residue on ignition ..... 0.01 %
Chloride (Cl) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %
Sensitivity to NO_2 ..... passes test
Nitrite (NO_2) ..... 0.00005 %
Heavy metals (as Pb) ..... 0.001 %
Ca ..... 0.001 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.005 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131057.1209	250 g
131057.1211	1000 g

141057 Sulfanilic Acid pure

Specifications
Assay (Acidim.) ..... 99 %
Identity ..... IR passes test
Insoluble matter in $Na2CO_3$ ..... 0.05 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.05 %

Code	Packaging
141057.1209	250 g

Sulfite Polymyxin Sulfadiazine Agar see SPS Agar (Selective Agar according to Angelotti) (Dehydrated Culture Media) for microbiology

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Sulfo-EGS

Ethylene Glycol bis(sulfosuccinimidylsuccinate) Disodium Salt

$C_{18}H_{18}N_2Na_2O_{18}S_2$
M = 660.45 g/mol
CS 29280090

Solubility .....Water, DMF
Solid

Storage -20 °C

Warning



H315 H319 H335

A7865 Sulfo-EGS

Specifications
Assay .....min. 90 %
Identity (NMR) ..... passes test

Code	Packaging
A7865,0100	100 mg

Sulfo-SMCC

Sulfosuccinimidyl 4-(N-maleimidomethyl) Cyclohexane-1-Carboxylate Sodium Salt

$C_{16}H_{17}N_2NaO_6S$
M = 436.37 g/mol
CAS 92921-24-9
CS 29280090

Solubility .....Water, DMF, DMSO
Solid

Storage -20 °C

Danger



H312 H315 H319 H332 H335 H360D

A7920 Sulfo-SMCC

Specifications
Assay .....min. 97 %
Identity (NMR) ..... passes test

Code	Packaging
A7920,0050	50 mg
A7920,0100	100 mg

Sulfobromophthalein Disodium Salt hydrate

Phenoltetrabromophthalein Disulfonic Acid Disodium Salt, Bromsulfalein

$C_{20}H_8Br_4Na_2O_{10}S_2 \cdot xH_2O$
M = 838.03 g/mol · xH_2O
CAS 123359-42-2
EINECS 200-761-0
CS 29322985

Solid

Storage RT

Danger



H317 H334

A4450 Sulfobromophthalein Disodium Salt hydrat

Specifications
λ_{max} (0.1 M NaOH) .....577 nm ± 2 nm
IR-Spectrum ..... passes test
Water (K.F.) .....max. 10 %

Code	Packaging
A4450,0250	250 g
A4450,1000	1 kg

Sulfogalleine see Pyrogallol Red

5-Sulfosalicylic Acid 2-hydrate

2-Hydroxy-5-Sulphobenzoic acid, 2-Hydroxybenzoic-5-Sulphonic acid

$C_7H_6O_6S \cdot 2H_2O$
M = 254.22 g/mol
CAS 5965-83-3
EINECS 202-555-6
CS 29182900

Melting Point ..... 110 °C
Solubility ..... in water at 20 °C
Solid

UN2585
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Warning



H319 H315

132838 5-Sulfosalicylic Acid 2-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Acidim.) ..... 99.0-101.0 %
Identity .....IR passes test

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.001 %
Sulfate (SO_4) ..... 0.02 %
Salicilic acid ($C_7H_6O_3$) ..... 0.04 %
Water (H_2O) ..... 15 %
Heavy metals (as Pb) ..... 0.002 %
Cu .....0.001 %
Fe .....0.001 %
Ni .....0.001 %
Pb .....0.001 %

Code	Packaging
132838.1209	250 g
132838.1211	1000 g

Sulfosuccinimidyl 4-(N-maleimidomethyl) Cyclohexane-1-Carboxylate Sodium Salt see Sulfo-SMCC

Sulfur precipitated

S
M = 32.06 g/mol
CAS 7704-34-9
EINECS 231-722-6
CS 28020000

Melting Point .....118-120 °C
Boiling Point ..... 444 °C
Solubility .....Insoluble in water
Solid

UN1350
Class/PG 4.1/III
ADR 4.1/III · IMDG 4.1/III · IATA 4.1/III
WGK 1
Storage away from direct light.

Warning



H315

141163 Sulfur precipitated (BP, Ph. Eur.) pure, pharma grade

for external use

Specifications
Assay ..... 99.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
Melting range ..... 118-120 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Sulfide ..... passes test
Odour ..... passes test
Residual solvents (Ph. Eur.) ..... passes test
Arsenic and selenium (as As) ..... 0.0002 %
Water (H_2O) ..... 0.5 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm

Code	Packaging
141163.0416	25 kg

HebaPeakTMB

Sulfur sublimated

Flowers of sulphur

S
M = 32.06 g/mol
CAS 7704-34-9
EINECS 231-722-6
CS 28020000

Melting Point ..... 118 °C
Boiling Point ..... 444 °C
Solubility ..... Insoluble in water
Solid

UN1350
Class/PG 4.1/III
ADR 4.1/III · IMDG 4.1/III · IATA 4.1/III
Storage RT

Warning



H315

141164 Sulfur sublimated (USP) pure, pharma grade

Specifications
Assay (a.d.s.) ..... 99.5-100.5 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Acidity (as H_2SO_4) ..... 0.2 %
Residue on ignition (as SO_4) ..... 0.5 %

Sulfide ..... passes test
Solubility in Carbon Disulfide ..... passes test
Residual solvents (Ph. Eur./USP) . passes test

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm

Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0004 %

Code	Packaging
141164.0416	25 kg

Sulfuric Acid 98 %

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8

Melting Point ..... -15 °C
Boiling Point ..... 330 °C
Density ..... 1.84 kg/l
Liquid

UN1830
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

123163 Sulfuric Acid 98 % (UNE-EN 899) for analysis

Specifications
Assay (Acidim.) w/w ..... 98 ± 1 %

Maximum limit of impurities
Sulfur Dioxide (SO_2) ..... 100 mg/Kg

As ..... 0.4 mg/Kg
Cd ..... 0.1 mg/Kg
Cr ..... 4 mg/Kg
Fe ..... 100 mg/Kg
Hg ..... 0.1 mg/Kg

Ni ..... 4 mg/Kg
Pb ..... 4 mg/Kg
Sb ..... 1 mg/Kg
Se ..... 1 mg/Kg

Code	Packaging
123163.0716	25 l

173163 Sulfuric Acid 98 %

for determination of N

Specifications
Minimum assay (Acidim.) ..... 98 ± 1 %

Maximum limit of impurities
Residue on ignition ..... 0.0005 %
Nitrogen compounds (as N) ..... 0.0005 %

Code	Packaging
173163.1211	1000 ml
173163.1611	1000 ml
173163.1212	2,5 l
173163.1612	2.5 l
173163.0716	25 l

Sulfuric Acid 93-98 %

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8

Liquid

UN1830
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

471058 Sulfuric Acid 95-98 % (max. 0.0000005 % Hg) for analysis, ACS, ISO

Specifications
Assay (Acidim.) ..... 95.0-98.0 %
Suitability: for COD determination
according to UNE 77-004-89 ..... passes test

Maximum limit of impurities
APHA colour 10
Reducing substance to $KMnO_4$
(as SO_2) ..... 0.0002 %
Residue on ignition ..... 0.0005 %
Chloride (Cl) ..... 0.00001 %

Ammonium (NH_4) ..... 0.0002 %
Phosphate (PO_4) ..... 0.00005 %
Nitrate (NO_3) ..... 0.00002 %
Hg ..... 0.0000005 %
Heavy metals (as Pb) ..... 0.0001 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.02	Al	0.05
As	0.01	Au	0.1
B	0.05	Ba	0.05
Be	0.02	Bi	0.05
Ca	0.2	Cd	0.02
Co	0.02	Cr	0.02
Cu	0.01	Fe	0.1
Ga	0.05	Ge	0.02
In	0.05	K	0.1
Li	0.02	Mg	0.05
Mn	0.01	Mo	0.02
Na	0.5	Ni	0.02
Pb	0.02	Pt	0.1
Sb	0.01		

Code	Packaging
471058.1611	1000 ml
471058.1612	2.5 l

141058 Sulfuric Acid 95-98 % (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) ..... 95.0-98.0 %
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Reducing substance to $KMnO_4$ .... passes test
Residue on ignition ..... 0.002 %
Chloride (Cl) ..... 0.001 %

Ammonium (NH_4) ..... 0.001 %
Residual solvents (Ph. Eur./USP) . passes test
Nitrate ..... passes test
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm

Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0001 %
Fe ..... 0.0025 %

Code	Packaging
141058.1211	1000 ml
141058.1611	1000 ml
141058.1212	2.5 l
141058.1612	2.5 l
141058.1214	5 l
141058.0715	10 l
141058.0716	25 l

201058 Sulfuric Acid 95-98 % (F.C.C.) food grade

Specifications
Assay (Acidim.) ..... 95.0-98.0 %
Reducing substances (as SO_2) ..... 0.004 %
Residue on ignition, not more than ..... 0.02 %
Chloride (Cl), not more than ..... 0.005 %

Nitrate, not more than ..... 10 ppm
Arsenic (as As), not more than ..... 3 ppm
Iron, not more than ..... 0.002 %
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 2 ppm

Selenium, not more than ..... 0.002 %
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201058.1214	5 l

711058 Sulfuric Acid 93-98 % for trace metal analysis (ppt)

Specifications
Assay (Acidim.) ..... 93-98 %

Metals by ICP (in ppt)

Ag	50	Al	50	Ce	10	Co	10
As	500	Ba	10	Cr	10	Cs	10
Be	10	Bi	10	Cu	10	Dy	10
Ca	50	Cd	10	Er	10	Eu	10
				Fe	50	Ga	10
				Gd	10	Ge	100
				Hf	10	Hg	100
				Ho	10	In	10

K	50	La	10		
Li	10	Lu	10		
Mg	50	Mn	10		
Mo	10	Na	50		
Nb	10	Nd	10		
Ni	50	Pb	10		
Pr	10				

Code	Packaging
711058.0010	500 ml

721058 Sulfuric Acid 93-98 % for trace metal analysis (ppb)

Specifications
Assay (Acidim.) ..... 93-98 %

Maximum limit of impurities
APHA colour 10
Reducing substance to $KMnO_4$ ..... 0.002 %
Chloride (Cl) ..... 0.00007 %
Total Phosphorus ..... 0.000005 %
Nitrate (NO_3) ..... 0.00002 %

Metals by ICP (ppb)

Ag	1	Al	1	Eu	0.1	Fe	1
As	0.5	Au	0.5	Ga	0.1	Gd	0.1
Ba	0.1	Be	0.1	Ge	1	Hf	0.1
Bi	0.1	Ca	1	Hg	0.1	Ho	0.1
Cd	0.5	Ce	0.1	In	0.1	K	1
Co	0.5	Cr	0.5	La	0.1	Li	0.5
Cs	0.1	Cu	0.5	Lu	0.1	Mg	1
Dy	0.1	Er	0.1	Mn	0.5	Mo	0.5

Code	Packaging
721058.0010	500 ml
721058.0011	1000 ml
721058.0012	2.5 l

131058 Sulfuric Acid 96 % for analysis, ISO

Specifications
Minimum assay (Acidim.) ..... 95.0 %
Suitability: for COD determination
according to UNE 77-004-89 ..... passes test

Maximum limit of impurities
APHA colour 10
Reducing substance to $KMnO_4$
(as SO_2) ..... 0.0002 %
Residue on ignition ..... 0.0005 %
Chloride (Cl) ..... 0.00001 %
Ammonium (NH_4) ..... 0.0002 %
Phosphate (PO_4) ..... 0.00005 %
Nitrate (NO_3) ..... 0.00002 %
Heavy metals (as Pb) ..... 0.0001 %
Ag ..... 0.000002 %
Al ..... 0.000005 %
As ..... 0.000001 %
Be ..... 0.000002 %
Ca ..... 0.00002 %
Cd ..... 0.000002 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.000001 %
Fe ..... 0.00001 %
K ..... 0.00001 %
Li ..... 0.000002 %
Mg ..... 0.000005 %
Mn ..... 0.000001 %
Na ..... 0.00005 %
Ni ..... 0.000002 %
Pb ..... 0.000002 %
Sr ..... 0.000002 %
Zn ..... 0.000005 %

Code	Packaging
131058.1211	1000 ml
131058.1611	1000 ml
131058.1212	2.5 l
131058.1612	2.5 l
131058.1214	5 l
131058.0715	10 l
131058.0716	25 l
131058.0719	200 l

211058 Sulfuric Acid 96 % technical grade

Specifications
Assay (Acidim.) ..... 96 %
Fe ..... 0.01 %
Pb ..... 0.01 %

Code	Packaging
211058.1211	1000 ml
211058.1611	1000 ml
211058.1212	2,5 l
211058.1214	5 l
211058.0716	25 l

171058 Sulfuric Acid 96 % ± 0.15 % Viscosimetry grade

Specifications
Assay (titr.) ..... 95.85-96.15 %

Code	Packaging
171058.1211	1 L

Sulfuric Acid 90-91 %

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8

Liquid

UN1830
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

121010 Sulfuric Acid 90-91 % according to Gerber for analysis

for determination of fat in milk

Specifications
Assay (Acidim.) ..... 90-91 %
Density 20/4 ..... 1.815-1.821
Suitability: for fatty determination,
according to Gerber ..... passes test

Maximum limit of impurities
Nitrate (NO_3) ..... 0.00005 %

Code	Packaging
121010.1211	1000 ml
121010.1611	1000 ml
121010.1212	2.5 l
121010.1612	2.5 l
121010.1214	5 l
121010.0716	25 l

141010 Sulfuric Acid 90-91 % pure

Specifications
Assay (titr.) ..... min. 90 %
Chloride ..... max. 0.001 %
Nitrate ..... max. 0.001 %
Phosphate ..... max. 0.005 %
Al ..... max. 0.0005 %
As ..... max. 0.0001 %
Ca ..... max. 0.001 %
Fe ..... max. 0.005 %
Na ..... max. 0.005 %
Ni ..... max. 0.0005 %
Pb ..... max. 0.0001 %
Zn ..... max. 0.0005 %

Code	Packaging
141010.1212	2.5 L

Sulfuric Acid 75 %

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8

Liquid

UN1830
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

123374 Sulfuric Acid 75 % for analysis

Specifications
Assay ..... min. 75 %
Chloride ..... max. 0.00001 %
Nitrate ..... max. 0.00002 %
Phosphate ..... max. 0.00005 %
Al ..... max. 0.000005 %
As ..... max. 0.000001 %
Ca ..... max. 0.00005 %
Fe ..... max. 0.00002 %
Na ..... max. 0.00005 %
Ni ..... max. 0.000002 %
Pb ..... max. 0.000002 %
Zn ..... max. 0.000005 %

Code	Packaging
123374.1212	2.5 L

Sulfuric Acid 72 %

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8

Liquid

UN1830
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

123863 Sulfuric Acid 72 % for analysis

Specifications
Assay (titr.) ..... min. 72 %
Chloride ..... max. 0.00001 %
Nitrate ..... max. 0.00002 %
Phosphate ..... max. 0.00005 %

Al ..... max. 0.000005 %
As ..... max. 0.000001 %
Ca ..... max. 0.00005 %
Fe ..... max. 0.00002 %
Na ..... max. 0.00005 %

Ni ..... max. 0.000002 %
Pb ..... max. 0.000002 %
Zn ..... max. 0.000005 %

Code	Packaging
123863.1211	1 L
123863.1212	2.5 L
123863.1214	5 L

Sulfuric Acid 62-62.5 %

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8

Density ..... 1.529 kg/l

UN1830
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H314

123067 Sulfuric Acid 62-62.5 % for analysis

Specifications
Assay (Acidim.) ..... 62.0-62.5 %
Density 15/4 ..... 1.524-1.534

Maximum limit of impurities
APHA colour 10
Reducing substance to $KMnO_4$ ($as\ SO_2$) ..... 0.0002 %
Residue on ignition ..... 0.0005 %

Chloride (Cl) ..... 0.00002 %
Ammonium (NH_4) ..... 0.0002 %
Phosphate (PO_4) ..... 0.00005 %
Nitrate (NO_3) ..... 0.00002 %
Heavy metals (as Pb) ..... 0.0001 %

Code	Packaging
123067.1212	2.5 l
123067.1214	5 l

Sulfuric Acid 50 % w/w

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070010
Index Nr. 016-020-00-8

Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

147149 Sulfuric Acid 50 % w/w pure

Specifications
Assay (titr.) ..... min. 50 %
Chloride ..... max. 0.001 %
Nitrate ..... max. 0.001 %
Phosphate ..... max. 0.005 %

Al ..... max. 0.0005 %
As ..... max. 0.0001 %
Ca ..... max. 0.001 %
Fe ..... max. 0.005 %
Na ..... max. 0.005 %

Ni ..... max. 0.0005 %
Pb ..... max. 0.0001 %
Zn ..... max. 0.0005 %

Code	Packaging
147149.1211	1 L
147149.1214	5 L

Sulfuric Acid 50 % v/v

H_2SO
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8

Density ..... 1.474 kg/l
Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H314

126107 Sulfuric Acid solution 50 % v/v for analysis

Specifications
Assay (Acidim.) (v/v) ..... 50 %

Maximum limit of impurities
APHA colour 10
Reducing substance to $KMnO_4$ ($as\ SO_2$) ..... 0.0002 %
Residue on ignition ..... 0.0005 %
Chloride (Cl) ..... 0.00002 %
Ammonium (NH_4) ..... 0.0002 %
Phosphate (PO_4) ..... 0.00005 %

Nitrate (NO_3) ..... 0.00002 %
Heavy metals (as Pb) ..... 0.0001 %
Ag ..... 0.000002 %
Al ..... 0.000005 %
As ..... 0.000001 %
Be ..... 0.000002 %
Ca ..... 0.00002 %
Cd ..... 0.000002 %
Co ..... 0.000002 %
Cr ..... 0.000005 %
Cu ..... 0.000001 %

Fe ..... 0.00001 %
K ..... 0.00001 %
Li ..... 0.000002 %
Mg ..... 0.000005 %
Mn ..... 0.000001 %
Na ..... 0.00005 %
Ni ..... 0.000002 %
Pb ..... 0.000002 %
Sr ..... 0.000002 %
Zn ..... 0.000005 %

Code	Packaging
126107.1211	1000 ml
126107.1212	2,5 l

Sulfuric Acid 40 %

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070010
Index Nr. 016-020-00-8

Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

127102 Sulfuric Acid 40 % for analysis

Specifications
Assay (titr.) ..... min. 40 %
Chloride ..... max. 0.00001 %
Nitrate ..... max. 0.00002 %
Phosphate ..... max. 0.00005 %

Al ..... max. 0.000005 %
As ..... max. 0.000001 %
Ca ..... max. 0.00005 %
Fe ..... max. 0.00002 %
Na ..... max. 0.00005 %

Ni ..... max. 0.000002 %
Pb ..... max. 0.000002 %
Zn ..... max. 0.000005 %

Code	Packaging
127102.1212	2.5 L

102 Sulfuric Acid 40 % pure

Specifications
Assay (titr.) ..... min. 40 %
Chloride ..... max. 0.001 %
Nitrate ..... max. 0.001 %
Phosphate ..... max. 0.005 %

Al ..... max. 0.0005 %
As ..... max. 0.0001 %
Ca ..... max. 0.001 %
Fe ..... max. 0.005 %
Na ..... max. 0.005 %

Ni ..... max. 0.0005 %
Pb ..... max. 0.0001 %
Zn ..... max. 0.0005 %

Code	Packaging
147102.1212	2.5 L

Sulfuric Acid 37 % w/w

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000

Density .....1.277 kg/l
Clear liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H314

214849 Sulfuric Acid 37 % w/w technical grade

Specifications
Assay (Acidim.) .....37 %

Code	Packaging
214849.1211	1000 ml
214849.1212	2,5 l
214849.0715	10 l
214849.0716	25 l

Sulfuric Acid 25 %

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070010
Index Nr. 016-020-00-8

Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

122448 Sulfuric Acid 25 % for analysis

Specifications
Minimum assay (Acidim.) .....25 %

Maximum limit of impurities
APHA colour 10
Reducing substance to $KMnO_4$ (as SO_2) ..... 0.0002 %
Residue on ignition ..... 0.0005 %
Chloride (Cl) ..... 0.00002 %
Ammonium (NH_4) ..... 0.0002 %
Phosphate (PO_4) ..... 0.00005 %

Nitrate (NO_3) ..... 0.00002 %
Heavy metals (as Pb) ..... 0.0001 %
Ag ..... 0.000002 %
Al ..... 0.000005 %
As ..... 0.000001 %
Be ..... 0.000002 %
Ca ..... 0.00002 %
Cd ..... 0.000002 %
Co ..... 0.000002 %
Cr ..... 0.000005 %
Cu ..... 0.000001 %

Fe ..... 0.00001 %
K ..... 0.00001 %
Li ..... 0.000002 %
Mg ..... 0.000005 %
Mn ..... 0.000001 %
Na ..... 0.00005 %
Ni ..... 0.000002 %
Pb ..... 0.000002 %
Sr ..... 0.000002 %
Zn ..... 0.000005 %

Code	Packaging
122448.1211	1000 ml
122448.1212	2,5 l
122448.1214	5 l

142448 Sulfuric Acid 25 % pure

Specifications
Assay (titr.) .....min. 25 %
Chloride .....max. 0.001 %
Nitrate .....max. 0.001 %
Phosphate .....max. 0.005 %

Al ..... max. 0.0005 %
As ..... max. 0.0001 %
Ca ..... max. 0.001 %
Fe ..... max. 0.005 %
Na ..... max. 0.005 %

Ni .....max. 0.0005 %
Pb .....max. 0.0001 %
Zn .....max. 0.0005 %

Code	Packaging
142448.1211	1 L

Sulfuric Acid 20 %

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070010
Index Nr. 016-020-00-8

Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

143323 Sulfuric Acid 20 % pure

Specifications
Assay (titr.) .....min. 20 %
Chloride .....max. 0.001 %

Phosphate ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
143323.1212	2.5 L
143323.0715	10 L

Sulfuric Acid solution 16 % v/v

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8

Density .....1.175 kg/l
Solubility ..... Soluble in water.
Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

624570 Sulfuric Acid solution 16 % v/v VINIKIT for wine analysis

acid solution for determination of reducing sugars in wine, according to Rebelein method

Composition:
Sulfuric Acid 96 % .....18 ml
Water (s.q.m) ..... 100 ml

Code	Packaging
624570.1210	500 ml

Sulfuric Acid 10 %

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070010
Index Nr. 016-020-00-8

Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Warning



H290 H315 H319

125882 Sulfuric Acid 10 % for analysis

Specifications
Assay (titr.) .....min. 10 %
[illegible] ..... max. 0.00001 %
Nitrate ..... max. 0.00002 %
Phosphate ..... max. 0.00005 %

Al ..... max. 0.000005 %
As ..... max. 0.000001 %
Ca ..... max. 0.00005 %
Fe ..... max. 0.00002 %
Na ..... max. 0.00005 %

Ni .....max. 0.000002 %
Pb .....max. 0.000002 %
Zn .....max. 0.000005 %

Code	Packaging
125882.1214	5 L

Printed on FSC® certified paper from well managed forests

НеваРеактив

145882 Sulfuric Acid 10 % pure

Specifications
Assay (titr.) ..... 9.5-11.0 %
Chloride ..... max. 0.001 %
Nitrate ..... max. 0.001 %
Phosphate ..... max. 0.005 %
Al ..... max. 0.0005 %
As ..... max. 0.0001 %
Ca ..... max. 0.001 %
Fe ..... max. 0.005 %
Na ..... max. 0.005 %
Ni ..... max. 0.0005 %
Pb ..... max. 0.0001 %
Zn ..... max. 0.0005 %

Code	Packaging
145882.1212	2.5 L

Sulfuric Acid solution 2.5 % w/v

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Density ..... 1.015 kg/l
Liquid
UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK nwg
Storage RT

286451 Sulfuric Acid solution 2.5 % w/v for volumetric analysis

for Swan silicometers

Composition:
Sulfuric Acid 96 % ..... 14.2 ml
Water (s.q.m) ..... 1000 ml

Code	Packaging
286451.1215	10 l

Sulfuric Acid solution 1/3 w/v

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8
Density ..... 1.203 kg/l
Liquid
UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK nwg
Storage RT

Danger



H314

621062 Sulfuric Acid solution 1/3 w/v VINIKIT for wine analysis

acid liquor for determination of sulfurous gas (SO_2) in wines

Composition:
Sulfuric Acid 96 % ..... 20 ml
Water (s.q.m) ..... 100 ml

Code	Packaging
621062.1209	250 ml
621062.1210	500 ml
621062.1211	1000 ml

Sulfuric Acid 4 mol/l (8N)

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8
Density ..... 1.234 kg/l
Liquid
UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

185314 Sulfuric Acid 4 mol/l (8N) volumetric solution

for determination of COD according to NFT 90-101/ISO 6060:1989/UNE 77-004-02

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
185314.1211	1000 ml
185314.1214	5 l

Sulfuric Acid 2.5 mol/l (5N)

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8
Boiling Point ..... ~ 103 °C
Density ..... 1.15 kg/l
Liquid
UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

182106 Sulfuric Acid 2.5 mol/l (5N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
182106.1211	1000 ml

Sulfuric Acid 2 mol/l (4N)

EINECS 231-639-5
CS 28070010
Index Nr. 016-020-00-8
Liquid
UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

183426 Sulfuric Acid 2 mol/l (4N) volumetric solution

Specifications
Factor limits 0.998-1.002

Code	Packaging
183426.1211	1 L

Sulfuric Acid 1 mol/l (2N)

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8

Density .....1.06 kg/l
Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Warning



H319 H315

182105 Sulfuric Acid 1 mol/l (2N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182105.1208	100 ml
182105.1211	1000 ml
182105.1214	5 l
182105.0716	25 l

Sulfuric Acid 0.5 mol/l (1N)

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000

Density .....1.030 kg/l
Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

181059 Sulfuric Acid 0.5 mol/l (1N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181059.1211	1000 ml
181059.1212	2.5 l
181059.1214	5 l
181059.0715	10 l
181059.1315	10 l
181059.0716	25 l

Sulfuric Acid 0.25 mol/l (0.5N)

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000

Density .....1.016 kg/l
Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK nwg
Storage RT

181060 Sulfuric Acid 0.25 mol/l (0.5N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181060.1211	1000 ml
181060.1212	2.5 l
181060.1315	10 l

Sulfuric Acid 0.13 mol/l (0.26N)

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000

Density .....1.011 kg/l
Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK nwg
Storage RT

176191 Sulfuric Acid 0.13 mol/l (0.26N)

for determination of raw fibre according to ISO 6865:2000

Specifications
Concentration .....0.13 ± 0.005 mol/l

Code	Packaging
176191.1211	1000 ml
176191.1214	5 l

Sulfuric Acid 0.1275 mol/l (0.255N)

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000

Density .....1.011 kg/l
Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK nwg
Storage RT

183335 Sulfuric Acid 0.1275 mol/l (0.255N) volumetric solution

for determination of raw fibre according to Weende. Indicator: Methyl Red

Uncertainty ..... See certificate
Traceability ..... NIST

Specifications
Titer at 20 °C 0.999-1.001

Code	Packaging
183335.1214	5 l
183335.1315	10 l

Sulfuric Acid 0.1 mol/l (0.2N)

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000

Density .....1.005 kg/l
Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK nwg
Storage RT

182011 Sulfuric Acid 0.1 mol/l (0.2N) volumetric solution

Indicator: Methyl Red

Uncertainty ..... See certificate
Traceability ..... NIST

Specifications
Titer at 20 °C 0.999-1.001

Code	Packaging
182011.1211	1000 ml

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Sulfuric Acid 0.05 mol (4.904 g H_2SO_4) to prepare 1 l of 0.1N solution

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8

Liquid
Plastic or glass ampoules containing clear colourless liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK nwg
Storage RT

Warning



H319 H315

303114 Sulfuric Acid 0.05 mol (4.904g H_2SO_4) to prepare1l of 0.1N solution

Specifications
Titer at 20 °C 0.998-1.002
Uncertainty ..... See certificate
Traceability ..... NIST

Code	Packaging
303114.1920	1 ampoule

Sulfuric Acid 0.05 mol/l (0.1N)

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000

Density .....1.002 kg/l
Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK nwg
Storage RT

181061 Sulfuric Acid 0.05 mol/l (0.1N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability ..... NIST

Code	Packaging
181061.1211	1000 ml
181061.1214	5 l
181061.0715	10 l
181061.1315	10 l

Sulfuric Acid 0.025 mol/l (0.05N)

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000

Density .....1.000 kg/l
Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK nwg
Storage RT

182103 Sulfuric Acid 0.025 mol/l (0.05N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182103.1211	1000 ml

Sulfuric Acid 0.01 mol/l (0.02N)

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000

Density .....1.001 kg/l
Liquid

UN2796
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK nwg
Storage RT

182102 Sulfuric Acid 0.01 mol/l (0.02N) volumetric solution

Indicator: Methyl Red

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182102.1211	1000 ml

Sulfuric Acid 0.005 mol/l (0.01N)

EINECS 231-639-5
CS 38220000
Index Nr. 016-020-00-8

Liquid

UN3264
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Warning



H290

187094 Sulfuric Acid 0.005 mol/l (0.01N) volumetric solution

Specifications
Factor limits 0.998-1.002

Code	Packaging
187094.1211	1 L

Sulfuric Acid d(20)=1.522 ± 0.005 according to Van Gulik

H_2SO_4
M = 98.08 g/mol
CAS 7664-93-9
EINECS 231-639-5
CS 28070000
Index Nr. 016-020-00-8

Density .....1.522 kg/l
Solubility ..... Soluble in water.
Liquid

UN1830
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H314

173253 Sulfuric Acid d(20)=1.522 ± 0.005 according to Van Gulik for analysis

for determination of fat in cheese

Specifications
Density 20/4 ..... 1.517-1.527

Code	Packaging
173253.1611	1000 ml
173253.1212	2,5 l
173253.1214	5 l

HeBaPeakTMB

Sulfuric Acid solution 5.5 g/l + Tween® 20 solution 1.1 g/l

CS 38220000

Density .....1.003 kg/l
Liquid

Storage RT

286453 Sulfuric Acid solution 5.5 g/l + Tween® 20 solution 1.1 g/l for volumetric analysis

for Swan silicometers

Composition:
Sulfuric Acid 96 % .....3.1 ml
Tween® 20 .....1.12 g
Water (s.q.m) .....1000 ml

Code	Packaging
286453.1215	10 l

Sulfuric Ether see Diethyl Ether stabilized with BHT

Supplements for Microbiological Media

CS 38220000

Storage protected from light
Storage 2-8 °C

A6783 Supplement for Baird-Parker Agar Base

• **Attention**: Please note that this supplement is part of the Baird-Parker Agar Base (A5648)

Composition:
Egg yolk .....50 %
Potassium tellurite .....50 mg/25 ml

Code	Packaging
A6783,0050	50 ml

Sutherlandioside

Origin from *Sutherlandia frutescens*

$C_{36}H_{60}O_{10}$
M = 652.87 g/mol
CAS 1055329-47-9
CS 29322090

Storage 2-8 °C

A9558 Sutherlandioside for HPLC

Specifications
Assay .....min. 98 %

Code	Packaging
A9558,0010	10 mg
A9558,0020	20 mg

Sweet Almonds Oil

CS 33019090

Density .....0.917 kg/l
Solubility .....Insoluble in water
Liquid

Storage RT

212805 Sweet Almonds Oil technical grade

Specifications
Identity .....IR passes test
Density 20/4 ..... 0.914-0.920

Code	Packaging
212805.1211	1000 ml
212805.1611	1000 ml

SYBR Green® staining reagent, DNA free

CS 38220000

Storage -20 °C
Storage protected from light

A8511 SYBR Green® staining reagent, DNA free

®trademark of Molecular Probes Inc.

Specifications
Bacterial
DNA ..... not detectable (min. 40 PCR cycles)
Concentration ..... 10X concentrated solution

Code	Packaging
A8511,50625	5 x 0,625 ml
A8511,100625	10 x 0,625 ml

TAE buffer (50X)

Tris-Acetate-EDTA buffer

CS 38220000

Liquid

WGK 1
Storage RT

Warning



H315 H319

A4686 TAE buffer (50X) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
pH (20 °C; H_2O) .....8.5 ± 0.2

Composition:
Acetic acid glacial .....60.05 g/L (1 M)
EDTA · Na_2 · $2H_2O$ .....18.6 g/L (0,05 M)
Tris .....242.30 g/L (2 M)

Code	Packaging
A4686,0500	500 ml
A4686,1000	1 L

A1691 TAE buffer (50X)

Specifications
pH (20 °C; H_2O) .....8.5 ± 0.2

Composition:
Acetic Acid glacial .....60.05 g/L (1 M)
EDTA · Na_2 · $2H_2O$ .....18.61 g/L (0.05 M)
Tris .....242.28 g/L (2 M)

Code	Packaging
A1691,0500	500 ml
A1691,1000	1 L
A1691,5000CT	5 L

HeBaPeaKTMB

TAE buffer (10X)

Tris-Acetate-EDTA buffer

CS 38220000 | Liquid | Storage RT

Warning



H315 H319

A4227 TAE buffer (10X) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
pH (20 °C; H_2O) ..... 8.5 ± 0.2

Composition:
Acetic Acid glacial ..... 12.01 g/L (0.20 M)
EDTA · NA_2 · $2H_2O$ ..... 3.72 g/L (0.01 M)
Tris ..... 48.46 g/L (0.40 M)

Code	Packaging
A4227,1000	1 L
A4227,5000	5 L

A1416 TAE buffer (10X)

Specifications
pH (20 °C; H_2O) ..... 8.5 ± 0.2

Composition:
Acetic acid glacial ..... 12.01 g/L (0.20 M)
EDTA · NA_2 · $2H_2O$ ..... 3.72 g/L (0.01 M)
Tris ..... 48.46 g/L (0.40 M)

Code	Packaging
A1416,1000	1 L
A1416,5000CT	5 L
A1416,9010CT	10 L

Talc washed

$3MgO \cdot 4SiO_2 \cdot H_2O$
M = 379.29 g/mol
CAS 14807-96-6
EINECS 238-877-9
CS 25262000

Melting Point ..... 800 °C
Solubility ..... Insoluble in water
Solid

WGK 1
Storage RT

141733 Talc washed (BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to
Pharmacopoeias: ..... passes test
pH 7.0-9.0

Maximum limit of impurities
Appearance ..... passes test
Acidity or alkalinity ..... passes test
Soluble matter in H_2O ..... 0.2 %
Loss on ignition ..... 6.5 %
Loss on drying ..... 1.0 %
Chloride (Cl) ..... 0.014 %
Carbonate ..... passes test
Organic substances ..... passes test
Residual solvents (Ph. Eur.) ..... passes test
Total combined yeast and moulds
(TYMC) ..... 100 cfu /g
Total aerobic microbial count
(TAMC) ..... 1000 cfu/g
Heavy metals (as Pb) ..... 0.004 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Zn) ..... 1,300 ppm
Al ..... 2.0 %
As ..... 0.0003 %
Ca ..... 0.90 %
Fe ..... 0.13 %
Mg ..... 17.0-19.5 %
Pb ..... 0.001 %

Code	Packaging
141733.1211	1000 g
141733.0416	25 kg

Tannic Acid

Galotannic acid, Galotannine, Tannine

CAS 1401-55-4
EINECS 215-753-2
CS 32019090

Solubility ..... Soluble in water.
Solid

WGK 1
Storage away from direct light.

141065 Tannic Acid (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... passes test
Loss on drying at 105 °C ..... 12.0 %
Residue on ignition (as SO_4) ..... 0.1 %
Resinous substances ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Gum, dextrin, salts and sugars ..... passes test
Heavy metals (as Pb) ..... 0.004 %
As ..... 0.0003 %
Cu ..... 0.003 %
Ni ..... 0.003 %
Pb ..... 0.003 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141065.1209	250 g
141065.1210	500 g
141065.1211	1000 g
141065.0416	25 kg

Tannine see Tannic Acid

TAPS

[(2-Hydroxy-1,1-bis(Hydroxymethyl)ethyl)amino]-1-Propanesulfonic Acid

$C_7H_{17}NO_6S$
M = 243.28 g/mol
CAS 29915-38-6
EINECS 249-954-1
CS 29221985

Melting Point ..... 230-235 °C (dec.)
Solid

Storage RT

A1082 TAPS for buffer solutions

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Water ..... max. 1 %
A (1 cm/10 % in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.03

Code	Packaging
A1082,1000	1 kg

L(+)-Tartaric Acid

(2R, 3R)-(+)Tartaric Acid, 2,3-Dihydroxybutanedioic Acid

$(CHOH)_2(COOH)_2$
M = 150.09 g/mol
CAS 87-69-4
EINECS 201-766-0
CS 29181200

Melting Point ..... 170 °C
Solubility ..... water 1,390 g/l at 20 °C
Solid

WGK 1
Storage RT

Warning



H319

131066 L(+)-Tartaric Acid for analysis, ACS

Specifications
Minimum assay (Acidim.) .....99.0 %
Identity .....IR passes test
Specific rotation α n20/D c=10
(in H_2O) .....12.0-13.0°

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 105 °C ..... 0.5 %
Residue on ignition (as SO_4) ..... 0.01 %
Chloride (Cl) ..... 0.0005 %
Sulfur compounds (as SO_4) ..... 0.002 %
Phosphate (PO_4) ..... 0.001 %
Oxalate (C_2O_4) ..... 0.03 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0,00002 %
Ca .....0,002 %
Cu .....0,0005 %
Fe .....0,0005 %
Mg .....0,002 %
Ni .....0,0005 %
Pb .....0,0005 %

Code	Packaging
131066.1210	500 g
131066.1211	1000 g
131066.0416	25 kg

191066 L(+)-Tartaric Acid (USP-NF, BP, Ph. Eur.) pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 99.7-100.5 %
Identity according to
Pharmacopoeias: ..... passes test
Specific rotation α αn20/D c=20
(in H_2O) ..... 12.0-12.8°

Maximum limit of impurities
Appearance of solution ..... passes test
Loss on drying at 105 °C ..... 0.2 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.015 %
Sulfate (SO_4) (USP) ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Oxalate (USP) ..... passes test
Oxalate (C_2O_4) ..... 0.03 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1.300 ppm
Ca .....0,02 %

Code	Packaging
191066.1211	1000 g
191066.1214	5 kg

141066 L(+)-Tartaric Acid pure

Specifications
Assay (Acidim.) calc. a.d.s. .....99.5 %
Specific rotation α n20/D c=20
(in H_2O) ..... 12.0-13.0°
Insoluble matter in H_2O ..... 0.005 %
Loss on drying at 105 °C .....0.2 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.003 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.015 %
As ..... 0,0001 %
Ca ..... 0,02 %
Cu .....0,001 %
Fe .....0,001 %
Mg .....0,02 %
Ni .....0,001 %
Pb .....0,001 %

Code	Packaging
141066.1210	500 g
141066.1211	1000 g

211066 L(+)-Tartaric Acid technical grade

Specifications
Assay (Acidim.) .....99 %

Code	Packaging
211066.1214	5 kg

Taurine

2-Aminoethanesulfonic Acid, AES

$C_2H_7NO_3S$
M = 125.15 g/mol
CAS 107-35-7
EINECS 203-483-8
CS 29211999

Melting Point .....316-320 °C (dec.)
Solid

WGK 2
Storage RT

A1141 Taurine BioChemica

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) .....max. 0.001 %
Loss on drying .....max. 0.2 %
Residue on ignition ..... max. 0.1 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.01 %
Sulfate ..... max. 0.01 %
As .....max. 0.0002 %
A (1 cm/0.1 M in H_2O)
260 nm .....max. 0.05
280 nm .....max. 0.03

Code	Packaging
A1141,1000	1 kg

Taxol

Paclitaxel

Origin from *Taxus brevifolia*

$C_{47}H_{51}NO_{14}$
M = 853.91 g/mol
CAS 33069-62-4
CS 29329900

Melting Point .....200-220 °C (dec.)
Solubility ..... clear, colorless
Solid

Storage 2-8 °C
Storage protected from light

Danger



H302+H312+H332 H315 H317 H318 H334 H335 H341 H361f H373

A4667 Taxol BioChemica

Specifications
Assay (HPLC) .....min. 95 %
λ_{max} .....227, 273 nm

Code	Packaging
A4667,0005	5 mg

Taylor's Blue see 1,9-Dimethylmethylene Blue Zinc Chloride

TB-Medium - Powder (Terrific Broth)

CS 38210000

Storage RT

A0974 TB-Medium - Powder (Terrific Broth)

Powder for the preparation of liquid TB - Medium.

Composition:
Tryptone (A1553) ..... 12 g/L
Yeast extract (A1552) ..... 24 g/L

Code	Packaging
A0974,2500KG	2.5 kg
A0974,1000KG	1 kg

TBA... Tetrabutylammonium Hydroxide solution 20 % w/w aqueous solution

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

TBE buffer (10X)

Tris-Borate-EDTA buffer

CS 38220000 | Liquid | WGK 2, Storage RT

Danger



H360D H315 H319

A3945 TBE buffer (10X) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
pH (20 °C; H_2O) ..... 8.3 ± 0.2

Composition:
Boric Acid ..... 55.03 g/L (0.89 M)
EDTA-Na_2 · $2H_2O$ ..... 7.44 g/L (0.02 M)
Tris ..... 107.81 g/L (0.89 M)

Code	Packaging
A3945,1000	1 L

A0972 TBE buffer (10X)

Specifications
pH (20 °C; H_2O) ..... 8.3 ± 0.2

Composition:
Boric Acid ..... 55.03 g/L (0.89 M)
EDTA-Na_2 · $2H_2O$ ..... 7.44 g/L (0.02 M)
Tris ..... 107.81 g/L (0.89 M)

Code	Packaging
A0972,0500	500 ml
A0972,1000	1 L
A0972,5000CT	5 L
A0972,5000PE	5 L
A0972,9010CT	10 L
A0972,9010PE	10 L

TBE buffer (10X) powder

Tris-Borate-EDTA buffer

CS 38210000 | WGK 2, Storage RT

Danger



H360FD H315 H319

A4348 TBE buffer (10X) powder

Powder for 10X concentrated aqueous solution (170.28 g/L)

* Dissolve powder completely! Don't dissolve portions of the powder mixture

Specifications
pH (20 °C; H_2O) ..... 8.3 ± 0.2

Composition:
Boric Acid ..... 55.03 g/L (0.89 M)
EDTA-Na_2 · $2H_2O$ (A1104) .. 7.44 g/L (0.02 M)
Tris ..... 107.81 g/L (0.89 M)

Code	Packaging
A4348,1000	1 L
A4348,5000	5 L
A4348,9010	10 L

TBE buffer (5X)

Tris-Borate-EDTA buffer

CS 38220000 | Liquid | Storage RT

A4228 TBE buffer (5X) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
pH (20 °C; H_2O) ..... 8.3 ± 0.2

Composition:
Boric Acid ..... 27.52 g/L (0.445 M)
EDTA-Na_2 · $2H_2O$ ..... 3.72 g/L (0.01 M)
Tris ..... 53.91 g/L (0.445 M)

Code	Packaging
A4228,5000CT	5 L
A4228,5000PE	5 L

A1417 TBE buffer (5X)

Specifications
pH (20 °C; H_2O) ..... 8.3 ± 0.2

Composition:
Boric Acid ..... 27.52 g/L (0.445 M)
EDTA-Na_2 · $2H_2O$ ..... 3.72 g/L (0.01 M)
Tris ..... 53.91 g/L (0.445 M)

Code	Packaging
A1417,5000PE	5 L

TBE buffer (5X) powder

Tris-Borate-EDTA buffer

CS 38210000 | WGK 2, Storage RT

Danger



H360FD H315 H319

A4394 TBE buffer (5X) powder

Powder for 5X concentrated aqueous solution (85.14 g/L)

* Dissolve powder completely! Don't dissolve portions of the powder mixture

Specifications
pH (20 °C; H_2O) ..... 8.3 ± 0.2

Composition:
Boric Acid ..... 27.52 g/L (0.445 M)
EDTA-Na_2 · $2H_2O$ ..... 3.72 g/L (0.01 M)
Tris ..... 53.91 g/L (0.445 M)

Code	Packaging
A4394,5000	5 L
A4394,9010	10 L

TBS (Tris-buffered saline) (20X) - Powder

Tris Buffered Saline (Powder)

CS 38210000 | Storage RT

A5001 TBS (Tris-buffered saline) (20X) - Powder

...olve powder completely! Don't dissolve
...of the powder mixture

Composition:
KCl (A2939) ..... 4.0 g/L
NaCl (A4256) ..... 160 g/L
Tris (A1086) ..... 60 g/L

Code	Packaging
A5001,1000	1 L
A5001,5000	5 L

HeBaPeaKTMB

TC 100 - Insect medium, powder

Cell culture media

CS 38210000 Storage 2-8 °C

A2017 TC 100 - Insect medium

Specifications
with L-Glutamine
without Sodium hydrogen carbonate

Code	Packaging
A2017,1000	1 L
A2017,9010	10 L

TCA see Trichloroacetic Acid

TCEP · HCl see Tris-(2-Carboxyethyl)-Phosphine Hydrochloride

TE buffer (100X) pH 7.5

Tris-EDTA buffer

CS 38220000 Liquid Storage RT

A6554 TE buffer (100X) pH 7.5

Specifications
pH (20 °C; adjusted with HCl) .....7.5 ± 0.1

Composition:
EDTA-Na_2 · $2H_2O$ .....37.22 g/L (0.1 M)
Tris .....121.14 g/L (1 M)

Code	Packaging
A6554,0500	500 ml

TE buffer (100X) pH 8.0

Tris-EDTA buffer

CS 38220000 Liquid Storage RT

A0973 TE buffer (100X) pH 8.0

Specifications
pH (20 °C; adjusted with HCl) .....8.0 ± 0.1

Composition:
EDTA-Na_2 · $2H_2O$ .....37.22 g/L (0.1 M)
Tris .....121.14 g/L (1 M)

Code	Packaging
A0973,0500	500 ml

TE buffer (1X) pH 7.4

CS 38220000 Liquid Storage RT

A9031 TE buffer (1X) pH 7.4 for molecular biology

Aqueous solution

Specifications
DNases/RNases/Proteases .....not detectable
pH (20 °C; adjusted with HCl) ..... 7.4 ± 0.1

Composition:
EDTA · Na_2 · $2H_2O$ ..... 0.372 g/L (1 mM)
Tris ..... 1.211 g/L (10 mM)

Code	Packaging
A9031,5000	5 L

TE buffer (1X) pH 7.5

CS 38220000 Liquid Storage RT

A3837 TE buffer (1X) pH 7.5

Aqueous solution

Specifications
pH (20 °C; adjusted with HCl) ..... 7.5 ± 0.1

Composition:
EDTA-Na_2 · $2H_2O$ ..... 0.372 g/L (1 mM)
Tris ..... 1.211 g/L (10 mM)

Code	Packaging
A3837,1000	1 L

TE buffer (1X) pH 8.0

Tris-EDTA buffer

CS 38220000 Liquid Storage RT

A2575 TE buffer (1X) pH 8.0

Aqueous solution

Specifications
pH (20 °C; adjusted with HCl) ..... 8.0 ± 0.1

Composition:
EDTA-Na_2 · $2H_2O$ ..... 0.372 g/L (1 mM)
Tris ..... 1.211 g/L (10 mM)

Code	Packaging
A2575,1000	1 L

A0386 TE buffer (1X) pH 8.0 for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable
pH (20 °C; adjusted with HCl) .....8.0 ± 0.1

Composition:
EDTA · Na_2 ..... 1 mM
Tris ..... 10 mM

Code	Packaging
A0386,0500	500 ml
A0386,1000	1 L

A8569 TE buffer (1X) pH 8.0 low EDTA for molecular biology

TE buffer with reduced EDTA concentration

Specifications
DNases/RNases/Proteases .....not detectable
pH (20 °C; adjusted with HCl) .....8.0 ± 0.1

Composition:
EDTA · Na_2 ..... 0.1 mM
Tris ..... 10 mM

Code	Packaging
A8569,0500	500 ml
A8569,1000	1 L

TEA see Triethanolamine

НевАреактив

TEMED

N,N,N',N'-Tetramethylethylenediamine, TMEDA

$C_6H_{16}N_2$
M = 116.21 g/mol
CAS 110-18-9
EINECS 203-744-6
CS 29212900
Index Nr. 612-103-00-3

Boiling Point ..... 121 °C
Refractive Index n20/D 1.417
Liquid

UN2372
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage 2-8 °C

Danger



H225 H302+H332 H314

A1148 TEMED

Specifications
Assay (G.C.) .....min. 99 %
Identity (IR) ..... passes test
Water (K.F.) .....max. 1 %

Code	Packaging
A1148,0025	25 ml
A1148,0100	100 ml
A1148,0250	250 ml
A1148,0500	500 ml

Tergitol 7, Agar see Tergitol 7 Agar (Chapman TTC modified) (ISO 9308-1:2000) (Prepared Plate (∅ 55 mm)) for microbiology

α-Terpineol

a,a,4-Trimethyl-3-Cyclohexene-1-Methanol, p-Menth-1-en-8-ol

$C_{10}H_{18}O$
M = 154.25 g/mol
CAS 98-55-5
EINECS 202-680-6
CS 29061900

Melting Point ..... 31 °C
Boiling Point ..... 215 °C
Boiling Point .....215 °C 217 °C
Density .....0.933 kg/l
Solubility .....Insoluble in water
Refractive Index n20/D 1.482
Liquid

WGK 1
Storage RT

15A585 α-Terpineol, 70 % for synthesis

Specifications
Assay (en a-Terpineol) (G.C.) ..... 70 %
Assay (as $C_{10}H_{18}O$) (G.C.) ..... 97 %
Density 20/4 .....0.931-0.935
Refractive Index n 1.4800-1.4855

Code	Packaging
15A585.1611	1000 ml

TES

N-[Tris-(Hydroxymethyl)-methyl]-2-Aminoethanesulfonic Acid

$C_6H_{15}NO_6S$
M = 229.25 g/mol
CAS 7365-44-8
EINECS 230-906-3
CS 29221985

Solid

Storage RT

A1084 TES

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) ..... max. 0.0001 %
Melting point ..... approx. 225 °C
pH (1 %; H_2O) 4.0-5.0
Residue on ignition ..... max. 0.1 %
Solubility (0.1 M; H_2O) ..... clear, colorless
Water ..... max. 1 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.05

Code	Packaging
A1084,0100	100 g
A1084,0500	500 g
A1084,1000	1 kg

Testosterone

17β-4-Hydroxyandrostene-3-on

$C_{19}H_{28}O_2$
M = 288.43 g/mol
CAS 58-22-0
EINECS 200-370-5
CS 29372300

Melting Point .....153-156 °C
Solid

WGK 1
Storage 2-8 °C

Danger



H350 H361d

A0671 Testosterone

Specifications
Assay (HPLC) .....min. 99 %
α20 °C/D; 1 %, EtOH .....+110° ± 2°
Loss on drying .....max. 1 %

Code	Packaging
A0671,0005	5 g
A0671,0010	10 g

3,3',5,5'-Tetrabromo m-Cresolsulphonphthalein see Bromocresol Green

Tetrabutylammonium di-Hydrogen Phosphate

$C_{16}H_{38}NO_4P$
M = 339.46 g/mol
CAS 5574-97-0
EINECS 226-947-1
CS 29239000

Solid

Storage RT

367038 Tetrabutylammonium di-Hydrogen Phosphate for HPLC

Specifications
Assay (titr., calc
on dried subst.) .....min. 99 %
pH (1 %; H_2O; 20 °C) 3.0-5.0
Loss on drying (2 h; 110 °C) ..... max. 6 %
A (1 cm/0.005 M inH_2O)
210 nm..... max. 0.15
230 nm ..... max. 0.05
260 nm ..... max. 0.02

Code	Packaging
367038.1606	25 g

A1947 Tetrabutylammonium di-Hydrogen Phosphate

Specifica
Assay (titr., ca
on dried subst.) .....min. 99 %
pH (1 %; H_2O; 20 °C) 3.0-5.0
Solubility (2 %; H_2O) ..... clear, colorless
Loss on drying (110 °C; 2 h) ..... max. 6 %
Halogenide ..... max. 0.1 %

Code	Packaging
A1947,0005	5 g
A1947,0025	25 g

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Tetrabutylammonium Hydrogen Sulfate

Tetrabutylammonium bisulphate, tetra-n-Butylammonium Hydrogen Sulfate

$C_{16}H_{37}NO_4S$
M = 339.54 g/mol
CAS 32503-27-8
EINECS 251-068-5
CS 29239000

Melting Point ..... 169-171 °C
Solubility ..... Soluble in water.
Solid

WGK 1
Storage RT

363622 Tetrabutylammonium Hydrogen Sulfate for HPLC

for ion pair chromatography

Specifications
Minimum assay (Acidim.) ..... 99 %
Identity ..... IR passes test

UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 200 nm ..... ≥ 70.8 %
Transmittance at 220 nm ..... ≥ 89.13 %

Code	Packaging
363622.1606	25 g
363622.1607	50 g
363622.1610	500 g

153622 Tetrabutylammonium Hydrogen Sulfate, 98 % for synthesis

Specifications
Minimum assay ..... 98 %
Identity ..... IR passes test
Melting range ..... 169-172 °C

Code	Packaging
153622.1208	100 g
153622.1209	250 g

Tetrabutylammonium Hydroxide solution 40 % aqueous solution

EINECS 218-147-6
CS 29239000

Liquid

UN3267
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 3
Storage RT

Danger



H314

157066 Tetrabutylammonium Hydroxide solution 40 % aqueous solution for synthesis

• **Comment**: This Product may contain a precipitate which can be removed by heating

Specifications
Assay (titr.) ..... approx. 40 %

Bromide ..... max. 0.5 %
Sulfate ..... max. 0.3 %

Code	Packaging
157066.1208	100 ml
157066.1210	500 ml

Tetrabutylammonium Hydroxide solution 20 % w/w aqueous solution

TBAH

$C_{16}H_{37}NO$
M = 259.48 g/mol
CAS 2052-49-5
EINECS 218-147-6
CS 29239000

Density ..... 0.99 kg/l
Liquid

UN2922
Class/PG 8(6.1)/II
ADR 8(6.1)/II · IMDG 8(6.1)/II · IATA 8(6.1)/II
WGK 3
Storage RT

Danger



H226 H314 H301

15A876 Tetrabutylammonium Hydroxide aqueous solution 20 % w/w for synthesis

Specifications
Minimum assay (Acidim.) (w/w) ..... 20 %
Density 20/4 ..... 0.989-0.994

Code	Packaging
15A876.1209	250 ml

Tetrabutylammonium Hydroxide solution 40 % in methanol

TBAH

$C_{16}H_{37}NO$
M = 259.48 g/mol
CAS 2052-49-5
EINECS 218-147-6
CS 38220000

Liquid

UN3286
Class/PG 3(6.1,8)/II
ADR 3(6.1,8)/II · IMDG 3(6.1,8)/II · IATA 3(6.1,8)/II
WGK 3
Storage RT

Danger



H225 H301+H311+H331 H314 H370

157141 Tetrabutylammonium Hydroxide solution 40 % in methanol for synthesis

Specifications
Assay (titr.) ..... min. 40 %

Density ..... 0.87-0.88 g/cm³
Bromide ..... max. 2 %

Code	Packaging
157141.1209	250 ml

Tetrabutylammonium Hydroxide 1 mol/l (1N) in methanol

TBAH

$C_{16}H_{37}NO$
M = 259.48 g/mol
CAS 2052-49-5
EINECS 218-147-6
CS 38220000

Liquid

UN3286
Class/PG 3(6.1,8)/II
ADR 3(6.1,8)/II · IMDG 3(6.1,8)/II · IATA 3(6.1,8)/II
Storage RT

Danger



H225 H301+H311+H331 H314 H370

187139 Tetrabutylammonium Hydroxide 1 mol/l (1N) in methanol volumetric solution

Specifications
Factor limits 0.998-1.002

Code	Packaging
187139.1209	250 ml

HebaPeaktnb

Printed on FSC® certified paper from well managed forests

Tetrabutylammonium Hydroxide 0.1 mol/l (0.1N) in methanol

TBAH

$C_{16}H_{37}NO$
M = 259.48 g/mol
CAS 2052-49-5
EINECS 218-147-6
CS 38220000

Liquid

UN3286
Class/PG 3(6.1,8)/II
ADR 3(6.1,8)/II · IMDG 3(6.1,8)/II · IATA 3(6.1,8)/II
Storage RT

Danger



H225 H315 H331 H370

187037 Tetrabutylammonium Hydroxide 0.1 mol/l (0.1N) in methanol volumetric solution

Specifications
Factor limits 0.998-1.002

Code	Packaging
187037.1211	1 L

Tetrabutylammonium Hydroxide 0,1 mol/l (0,1N) in 2-propanol/methanol (11:1)

TBAH

$C_{16}H_{37}NO$
M = 259.48 g/mol
CAS 2052-49-5
CS 38220000

Density .....0.793 kg/l
Solubility .....Miscible with water
Liquid

UN1992
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 3
Storage RT

Danger



H225 H331 H301 H319 H336

183669 Tetrabutylammonium Hydroxide 0.1 mol/l (0.1N) in2-propanol/methanol (11:1) volumetric solution

Specifications
Titer at 20 °C 0.999-1.001
Uncertainty .....See certificate

Traceability .....NIST
Bottled with nitrogen.

Code	Packaging
183669.1610	500 ml

Tetrabutylammonium Hydroxide 0,1 mol/l (0,1N) in toluene/methanol (9:1)

TBAH

$C_{16}H_{37}NO$
M = 259.48 g/mol
CAS 2052-49-5
EINECS 218-147-6
CS 38220000

Liquid

UN1992
Class/PG 3(6.1)/III
ADR 3(6.1)/III · IMDG 3(6.1)/III · IATA 3(6.1)/III
WGK 3
Storage RT

Danger



H225 H332 H312 H302 H370

185225 Tetrabutylammonium Hydroxide 0.1 mol/l (0.1N) intoluene/methanol (9:1) volumetric solution

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty ..... See certificate
Traceability .....NIST

Code	Packaging
185225.1610	500 ml

Tetrachlorauric(III) Acid 3-hydrate see Gold(III) Chloride-Sodium Chloride ~ 49 % Au

1,1,2,2-Tetrachloroethane

Acetylene Tetrachloride

$CHCl_2HCCl_2$
M = 167.85 g/mol
CAS 79-34-5
EINECS 201-197-8
CS 29031980
Index Nr. 602-015-00-3

Melting Point .....-43 °C
Boiling Point ..... 147 °C
Density .....1.594 kg/l
Solubility ..... water 2.9 g/l at 20 °C
Refractive Index n20/D 1.494
Liquid

UN1702
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT

Danger



H330 H310 H411

164446 1,1,2,2-Tetrachloroethane, 98 % for synthesis

Specifications
Minimum assay (G.C.) ..... 98 %
Identity .....IR passes test

Density 20/4 .....1.594-1.596
Water (H_2O) .....0.05 %

Code	Packaging
164446.1611	1000 ml

1,1,2,2-Tetrachloroethane-Phenol see Phenol-1,1,2,2-Tetrachloroethane 60:40 w/w

Tetrachloroethene see Tetrachloroethylene

Tetrachloroethylene

Ethylene Tetrachloride, Perchloroethylene

Cl_2CCl_2C
M = 165.83 g/mol
CAS 127-18-4
EINECS 204-825-9
CS 29032300
Index Nr. 602-028-00-4

Melting Point .....-22.35 °C
Boiling Point .....121.2 °C
Density .....1.622 kg/l
Solubility ..... water 0.15 g/l at 20 °C
Refractive Index n20/D 1.5056
Liquid

UN1897
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Warning



H351 H411

361455 Tetrachloroethylene for UV, IR, HPLC, GPC

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 1.620-1.624

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.0004 meq/g

Non-volatile matter .....0.0005 %
Water (H_2O) .....0.01 %
Suitability for IR spectrometry: .....passes test
Fluorescence at 365 nm (as quinine) ..... 2 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 290 nm (Cut off) .....≥ 10 %
Transmittance at 295 nm .....≥ 50 %
Transmittance at 300 nm .....≥ 80 %

Transmittance at 305 nm .....≥ 85 %
Transmittance at 350 nm .....≥ 89 %
Transmittance at 400-500 nm .....≥ 94 %
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361455.1611	1000 ml
361455.1612	2.5 l

331455 Tetrachloroethylene for IR

For hydrocarbons determination

Specifications
Minimum assay (G.C.) ..... 99.8 %
Density 20/4 ..... 1.620-1.624

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0005 meq/g
Non-volatile matter ..... 0.001 %
Chlorine ..... passes test
Chloride (Cl) ..... 0.0001 %

Hydrocarbons (Absorbance of the maximum peak at 2930 cm-1; range 3200-2700 cm-1; refer to Hexadecane: Isooctane: Benzene) ..... 5 ppm
Water (H_2O) ..... 0.005 %
Product microfiltered (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
331455.1612	2.5 l

141455 Tetrachloroethylene pure

Specifications
Assay (G.C.) ..... 99 %
Identity ..... IR passes test
Density 20/4 ..... 1.620-1.624
Acidity ..... 0.002 meq/g
Alkalinity ..... 0.002 meq/g
Non-volatile matter ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Trichloroethylene (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.1 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141455.1611	1000 ml
141455.1612	2.5 l
141455.1714	5 l

161455 Tetrachloroethylene, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 1.620-1.624
Acidity (as HCl) ..... 0.005 %
Non-volatile matter ..... 0.005 %
Water (H_2O) ..... 0.02 %

Code	Packaging
161455.1612	2.5 l

Tetracycline Hydrochloride

Achromycine Hydrochloride

$C_{22}H_{24}N_2O_8 \cdot HCl$
M = 480.90 g/mol
CAS 64-75-5
EINECS 200-593-8
CS 29413000

Melting Point ..... 215-220 °C
Solid

Storage RT
Storage protected from light

Warning



H315 H319 H335

A2228 Tetracycline hydrochloride

Specifications
Assay (HPLC) ..... min. 95 %
α20 °C/D; 0.5 %, 0.1 M HCl, calc
on dried subst. ..... -240 to -255°
Loss on drying (3 h; 60 °C; vacuum) max. 2 %
pH (1 %; H_2O) 2.0-3.0

Code	Packaging
A2228,0025	25 g
A2228,0100	100 g

12-O-Tetradecanoylphorbol-13-Acetate see Phorbol-12-Myristate-13-Acetate (PMA)

Tetraethylammonium Chloride

TEACl

$C_8H_{20}ClN$
M = 183.73 g/mol
CAS 56-34-8
EINECS 200-267-5
CS 29239000

Solubility ..... 1410 g/L (H_2O)
Solid

Storage RT

A3838 Tetraethylammonium Chloride

Specifications
Assay (titr.) ..... min. 98 %
IR-Spectrum ..... passes test
Loss on drying ..... max. 10 %
pH (5 %; H_2O; 20 °C) 5.0-9.0

Code	Packaging
A3838,0100	100 g

Tetraethylrhodamin see Rhodamine B (C.I. 45170)

Tetraethylrhodamine see Rhodamine B (C.I. 45170)

Tetrafluoroboric Acid solution 50 %

CS 28111980

Liquid

UN1775
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H290 H314

147070 Tetrafluoroboric Acid solution 50 % pure

Specifications
Assay (titr.) ..... approx. 50 %
Chloride ..... max. 0.002 %
Hexafluorosilicate ..... max. 0.2 %
Sulfate ..... max. 0.02 %
Fe ..... max. 0.01 %
Ni ..... max. 0.0005 %
Zn ..... max. 0.0005 %

Code	Packaging
147070.1211	1 L

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Tetrahydrofuran

Diethylene Oxide, Tetramethylene Oxide, THF

C_4H_8O
M = 72.11 g/mol
CAS 109-99-9
EINECS 203-726-8
CS 29321100
Index Nr. 603-025-00-0

Melting Point ..... -108.5 °C
Boiling Point ..... 66 °C
Density ..... 0.890 kg/l
Refractive Index n20/D 1.407
Liquid

UN2056
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



H225 EUH019 H319 H335 H351

361736 Tetrahydrofuran for UV, IR, HPLC, GPC

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 0.888-0.892

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0002 %
Peroxides (as H_2O_2) ..... 0.01 %*

Water (H_2O) ..... 0.02 %
Suitability for IR spectrometry: ..... passes test
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 215 nm (Cut off) ..... ≥ 10 %
Transmittance at 240 nm ..... ≥ 30 %
Transmittance at 245 nm ..... ≥ 50 %
Transmittance at 260 nm ..... ≥ 70 %
Transmittance at 265 nm ..... ≥ 80 %
Transmittance at 275 nm ..... ≥ 90 %
Transmittance at 310-450 nm ..... ≥ 99 %

Data of interest in HPLC:
Rohrschneider Polarity 4.0
Eluotropic value e° (Al_2O_3) 0.57
Sol. H_2O in solv. at 20 °C ..... miscible
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.
* At the moment of the batch analysis.

Code	Packaging
361736.1611	1000 ml
361736.1612	2.5 l

Tetrahydrofuran stabilized with BHT

THF, Tetramethylene Oxide, Diethylene Oxide

C_4H_8O
M = 72.11 g/mol
CAS 109-99-9
EINECS 203-726-8
CS 29321100
Index Nr. 603-025-00-0

Melting Point ..... -89 °C
Boiling Point ..... 66 °C
Density ..... 0.889 kg/l (25 °C)
Refractive Index n20/D 1.4072
Liquid

UN2056
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 1
Storage RT

Danger



EUH019 H225 H319 H335 H351

483537 Tetrahydrofuran dry (max. 0.0075 % water) stabilized with ~ 300 ppm of BHT, ACS

Specifications
Minimum assay (G.C.) ..... 99.7 %
Identity ..... IR passes test
Density 20/4 ..... 0.888-0.892

Maximum limit of impurities
APHA colour 20
Acidity ..... 0.0005 meq/g
Non-volatile matter ..... 0.03 %
Peroxides (as H_2O_2) ..... 0.015 %*
Acetone (G.C.) ..... 0.05 %

1-Butanol (G.C.) ..... 0.05 %
1-Propanol (G.C.) ..... 0.05 %
2-Propanol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.0075 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As 0.05
B 0.02
Be 0.02
Ca 0.5
Al 0.5
Au 0.05
Ba 0.1
Bi 0.05
Cd 0.05
Co 0.02
Cu 0.02
Ga 0.02
Hg 0.05
K 0.1
Mg 0.1
Mo 0.02
Ni 0.02
Cr 0.02
Fe 0.1
Ge 0.05
In 0.05
Li 0.05
Mn 0.02
Na 0.5
P 0.2
* At the moment of the batch analysis.

Code	Packaging
483537.1611	1000 ml
483537.1612	2.5 l

133537 Tetrahydrofuran stabilized with ~ 300 ppm of BHT for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test

Maximum limit of impurities
APHA colour 20
Acidity ..... 0.0005 meq/g
Non-volatile matter ..... 0.03 %
Peroxides (as H_2O_2) ..... 0.015 %*
Acetone (G.C.) ..... 0.05 %
1-Butanol (G.C.) ..... 0.05 %

1-Propanol (G.C.) ..... 0.05 %
2-Propanol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.05 %

Metals by ICP [in mg/Kg (ppm)]
Ag 0.05
As 0.05
B 0.02
Be 0.02
Ca 0.5
Co 0.02
Al 0.5
Au 0.05
Ba 0.1
Bi 0.05
Cd 0.05
Cr 0.02
Cu 0.02
Ga 0.02
Hg 0.05
K 0.1
Mg 0.1
Mo 0.02
Ni 0.02
Pb 0.1
Fe 0.1
Ge 0.05
In 0.05
Li 0.05
Mn 0.02
Na 0.5
P 0.2
* At the moment of the batch analysis.

Code	Packaging
133537.1611	1000 ml
133537.1612	2.5 l
133537.0314	5 l
133537.0537	30 l
133537.0619	200 l

143537 Tetrahydrofuran stabilized with ~ 300 ppm of BHT pure

Specifications
Assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Non-volatile matter ..... 0.05 %
Peroxides (H_2O_2) ..... 0.015 % *
Water (H_2O) ..... 0.1 %
Cu ..... 0.00002 %

Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %
* At the moment of the batch analysis.

Code	Packaging
143537.1611	1000 ml
143537.1612	2.5 l
143537.3514	5 l
143537.0616	25 l

163537 Tetrahydrofuran, 99.5 % stabilized with ~ 300 ppm of BHT for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Non-volatile matter ..... 0.03 %
Peroxides (as H_2O_2) ..... 0.05 %*
Water (H_2O) ..... 0.03 %
* At the moment of the batch analysis.

Code	Packaging
163537.1611	1000 ml
163537.1612	2.5 l
163537.1714	5 l
163537.0616	25 l

213537 Tetrahydrofuran technical grade

stabilized with 200-300 ppm BHT

Specifications
Assay (G.C.) ..... min. 98 %

Peroxides ..... max. 0.01 %
Water (K.F.) ..... max. 0.5 %

Code	Packaging
213537.1612	2.5 L
213537.3514	5 L

Tetrahydrosylvan see 2-Methyltetrahydrofuran

HeBaPeaKTMB

N,N,N',N'-Tetramethyl-p-Phenylenediamine Dihydrochloride

$C_{10}H_{16}N_2 \cdot 2HCl$
M = 237.17 g/mol
CAS 637-01-4
EINECS 211-274-8
CS 29215190

Melting Point .....227-230 °C (dec.)
Solid

Storage RT

A8073 N,N,N',N'-Tetramethyl-p-Phenylenediamine Dihydrochloride BioChemica

Specifications
Assay (titr.) .....min. 99 %
Appearance of solution ....clear to very slightly hazy

Code	Packaging
A8073,0025	25 g
A8073,0250	250 g

Tetramethylammonium Chloride solution (6 M)

CS 29239000

Liquid

UN2810
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3*
Storage RT

Danger



H300 H311

A5456 Tetramethylammonium Chloride solution (6 M) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable

Composition:
TMACl ..... 657 g/L

Code	Packaging
A5456,0500	500 ml

Tetramethylammonium Hydroxide solution 25 %

CS 29239000

Boiling Point ..... approx. 100 °C
Liquid

UN1835
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H301+H311 H314 H413

167069 Tetramethylammonium Hydroxide solution 25 % for synthesis

Specifications
Assay .....min. 25 %
Heavy metals (as Pb) .....max. 0.001 %
pH (20 °C) .....approx. 13

Chloride ..... max. 0.1 %
Sulfate ..... max. 0.05 %

Code	Packaging
167069.1209	250 ml
167069.1211	1 L

3,3',5,5'-Tetramethylbenzidine

TMB

$C_{16}H_{20}N_2$
M = 240.35 g/mol
CAS 54827-17-7
EINECS 259-364-6
CS 29215990

Melting Point .....166-170 °C
Solubility ..... insoluble (H_2O)
Solid

WGK 3*
Storage RT

A3840 3,3',5,5'-Tetramethylbenzidine BioChemica

Specifications
Assay (titr.) .....min. 98 %
Loss on drying .....max. 0.5 %
Residue on ignition .....max. 0.2 %

Code	Packaging
A3840,0001	1 g
A3840,0005	5 g
A3840,0025	25 g

Tetramethyleneglycol see 1,4-Butanediol

Tetramisole Hydrochloride see Levamisole Hydrochloride

Tetraphenylboron Sodium see Sodium tetra-Phenylborate

Tetrapropylammonium Hydroxide solution 40 %

CAS 4499-86-9
EINECS 224-800-6
CS 29239000

Density ..... 0.99 kg/l (20 °C)
Liquid

UN3267
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 3
Storage RT

Danger



H314

127131 Tetrapropylammonium Hydroxide solution 40 % for analysis

Aqueous solution (40 %)

Specifications
Assay ..... approx. 40 %

Bromide ..... max. 0.05 %
Sulfate ..... max. 0.05 %
Fe ..... max. 0.001 %

K .....max. 0.001 %
Na .....max. 0.05 %
Pb .....max. 0.0005 %

Code	Packaging
127131.1210	500 ml

HeBaPeaKTMB

Tetrazolium Red

2,3,5-Triphenyltetrazolium Cloride, TPTZ

$C_{19}H_{15}ClN_4$
M = 334.80 g/mol
CAS 298-96-4
EINECS 206-071-6
CS 29339980

Solid

Storage RT

Warning



H315 H319 H335

A6246 Tetrazolium Red

Specifications
Assay (titr.) ..... min. 98.5 %
λ_{max} ..... 243-251 nm
Appearance ..... faint yellow powder
E (1 %; 1 cm; λ_{max}; EtOH) ..... min. 670
Loss on drying (120 °C) ..... max. 0.5 %
Solubility (5 %; H_2O) ..... clear
Sulfated ash ..... max. 0.2 %

Code	Packaging
A6246,0010	10 g
A6246,0025	25 g

TFA see Trifluoroacetic Acid

TFAA see Trifluoroacetic Anhydride

Thapsigargin

$C_{34}H_{50}O_{12}$
M = 650.76 g/mol
CAS 67526-95-8
CS 29419000

Storage -20 °C
Storage protected from light

Danger



H315 H319 H334 H335

A2229 Thapsigargin

Specifications
Assay ..... min. 90 %

Code	Packaging
A2229,0001	1 mg
A2229,0005	5 mg

Thesit

CS 34021300

WGK 1
Storage RT

A9433 Thesit (Ph. Eur.) pure, pharma grade

Specifications
Acid value ..... max. 1.0
Alkalinity ..... passes test
Appearance of solution ..... passes test
Hydroxyl-No. 90-100
Identity ..... passes test
Iodine value ..... max. 2.0
Saponification No. ..... max. 3.0
Sulfated ash ..... max. 0.2 %
Dioxane ..... max. 0.001 %
Ethylene oxide ..... max. 0.0001 %
Water ..... max. 3.0 %

Code	Packaging
A9433,0100	100 g

THF see Tetrahydrofuran stabilized with BHT

Thiactin see Thiostrepton

Thiamin Hydrochloride

Aneurine Hydrochloride, Thiamine Chloride, Vitamin B_1 Hydrochloride

$C_{12}H_{17}ClN_4OS \cdot HCl$
M = 337.23 g/mol
CAS 67-03-8
EINECS 200-641-8
CS 29362200

Solubility ..... 1 g/ml (H_2O)
Solid

WGK 1
Storage 2-8 °C

A0955 Thiamin Hydrochloride BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.002 %
Water ..... max. 5 %

Code	Packaging
A0955,0050	50 g
A0955,0100	100 g
A0955,0250	250 g
A0955,1000	1 kg

Thiamine Pyrophosphate

Aneurine Pyrophosphate, Vitamin B_1 Pyrophosphate

$C_{12}H_{19}ClN_4O_7P_2S$
M = 460.77 g/mol
CAS 154-87-0
EINECS 205-230-7
CS 29362200

Solid

Storage 2-8 °C

A4653 Thiamine Pyrophosphate

Specifications
Assay (HPLC) ..... min. 93 %
Loss on drying ..... max. 2 %

Code	Packaging
A4653,0005	5 g
A4653,0025	25 g

HeBaPeakTMB

Thiazolyl Blue Tetrazolium Bromide

MTT, 3-(4,5-Dimethyl-2-thiazolyl)-2,5-diphenyl-2H-tetrazolium Bromide

$C_{18}H_{16}BrN_5S$
M = 414.33 g/mol
CAS 298-93-1
EINECS 206-069-5
CS 29341000

Solid

Storage 2-8 °C
Storage protected from light

A2231 Thiazolyl Blue Tetrazolium Bromide BioChemica

Specifications
Assay (titr.) .....min. 98 %
λ_{max} ..... 239-247 nm
Solubility (5 %; MeOH) .....clear

Code	Packaging
A2231,0001	1 g
A2231,0005	5 g
A2231,0010	10 g

Thimerosal

Sodium Ethylmercurithiosalicylate, 2-[(Ethylmercury)Thio] Benzoic Acid Sodium Salt, Mercurothiolate, Merthiolate

$C_9H_9HgNaO_2S$
M = 404.82 g/mol
CAS 54-64-8
EINECS 200-210-4
CS 28520000

Solid

UN2025
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage RT
Storage protected from light

Danger



H300+H310+H330 H373 H410

143886 Thimerosal (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (calc. a.d.s.) ..... 97.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
pH sol. 0.8 % 6.0-8.0
pH sol. 1 % 6.0-8.0

Maximum limit of impurities
Appearance of solution ..... passes test
Darkened substances by H_2SO_4 ... passes test
Soluble matter in ether .....0.6 %
Loss on drying .....0.5 %
Inorganic mercury compounds (as Hg) 0.70 %

Code	Packaging
143886.1608	100 g

A1278 Thimerosal BioChemica

Specifications
Assay .....min. 98 %
Ether-soluble matter .....max. 0.8 %
Identity ..... passes test
Loss on drying .....max. 0.5 %

Code	Packaging
A1278,0010	10 g
A1278,0025	25 g
A1278,0100	100 g
A1278,1000	1 kg

Thioacetamide

Ethanethioamide

C_2H_5NS
M = 75.13 g/mol
CAS 62-55-5
EINECS 200-541-4
CS 29309085
Index Nr. 616-026-00-6

Melting Point .....113-114 °C
Solubility ..... water 163 g/l at 25 °C
Solubility .....ethanol 264 g/l
Solid

WGK 3
Storage RT

Danger



H350 H302 H319 H315 H412

134887 Thioacetamide (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Arg.) .....99.0 %
Identity .....IR passes test
Melting range ..... 111-114 °C
Maximum limit of impurities
Insoluble matter in H_2O ..... passes test
Residue on ignition (as SO_4) .....0.05 %
Heavy metals (as Pb) .....0.001 %
Ca .....0.002 %
Cd .....0.0005 %
Co .....0.0005 %
Cr .....0.0005 %
Cu .....0.0005 %
Fe .....0.0005 %
K .....0.005 %
Mg .....0.0005 %
Na .....0.01 %
Ni .....0.0005 %
Pb .....0.0005 %
Zn .....0.0005 %

Code	Packaging
134887.1607	50 g

164887 Thioacetamide, 98 % for synthesis

Specifications
Minimum assay (Arg.) .....98 %
Identity ..... IR passes test
Melting range .....111-114 °C

Code	Packaging
164887.1608	100 g

Thiobarbituric Acid

4,6-Dihydroxy-2-Mercaptopyrimidine

$C_4H_4N_2O_2S$
M = 144.15 g/mol
CAS 504-17-6
EINECS 207-985-8
CS 29335400

Melting Point .....245 °C (dec.)
Solid

WGK 2
Storage RT

A4670 Thiobarbituric Acid BioChemica

Specifications
Assay (titr.) .....min. 98 %
Loss on drying .....max. 2 %
Sulfated ash .....max. 0.5 %

Code	Packaging
A4670,0025	25 g
A4670,0100	100 g
A4670,0250	250 g

Thiocarbamide see Thiourea

Thioglycollate Medium see Thioglycollate Liquid Medium (Ph. Eur. USP, ISO 7937) (Dehydrated Culture Media) for microbiology

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

Thioglycolic Acid

Mercaptoacetic acid

$HSCH_2COOH$
M = 92.12 g/mol
CAS 68-11-1
EINECS 200-677-4
CS 29309099
Index Nr. 607-090-00-6

Melting Point ..... -17 °C
Density ..... 1.33 kg/l (20 °C)
Liquid

UN1940
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage < 15 °C

Danger



H301+H311+H331 H314

124142 Thioglycolic Acid for analysis

Specifications
Assay (titr.) ..... min. 99 %
Organic chlorine ..... max. 0.01 %

Sulfated ash ..... max. 0.05 %
Fe ..... max. 0.0005 %

Code	Packaging
124142.1608	100 ml
124142.1611	1 L

Thioglycolic Acid 80 %

Mercaptoacetic acid

$HSCH_2COOH$
M = 92.12 g/mol
CAS 68-11-1
EINECS 200-677-4
CS 29309099
Index Nr. 607-090-00-6

Melting Point ..... - 15 °C
Melting Point ..... - 15 °C - 10 °C
Density ..... 1.265 kg/l
Liquid

UN1940
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage RT

Danger



H331 H311 H301 H314

142041 Thioglycolic Acid 80 % pure

Specifications
Assay (Iodom.) ..... 79-82 %
Density 20/4 ..... 1.26-1.28
Residue on ignition (as SO_4) ..... 0.01 %

Sensitivity to Fe ..... passes test
Cu ..... 0.0005 %
Fe ..... 0.0005 %

Ni ..... 0.0005 %
Pb ..... 0.0005 %

Code	Packaging
142041.1610	500 ml
142041.1611	1000 ml

Thionicotinamide

3-Thioamidopyridine, Nicotinthioamide

$C_6H_6N_2S$
M = 138.19 g/mol
CAS 4621-66-3
EINECS 225-036-6
CS 29333999

Solid

WGK 1
Storage RT

A4867 Thionicotinamide

Specifications
Assay ..... min. 98 %

Identity ..... passes test
Melting range ..... 185-190 °C

Code	Packaging
A4867,5000	5 kg

Thiostrepton

Bryamicin, Thiactin

Origin from *Streptomyces sp.*

$C_{72}H_{85}N_{19}O_{18}S_5$
M = 1664.89 g/mol
CAS 1393-48-2
CS 29419000

Melting Point ..... 246-256 °C (Decomposition)
Solid

Storage -20 °C

A8671 Thiostrepton BioChemica

Specifications
Assay (HPLC) ..... approx. 97 %

λ_{max} ..... No clear UV maxima
Appearance ..... white to off white powder

Code	Packaging
A8671,0001	1 g

Thiosulfate Citrate Bile Salt Saccharose Agar see TCBS Cholera Medium (Dehydrated Culture Media) for microbiology

Thiourea

Thiocarbamide, Sulfourea

$SC(NH_2)_2$
M = 76.11 g/mol
CAS 62-56-6
EINECS 200-543-5
CS 29309099
Index Nr. 612-082-00-0

Solubility ..... 137 g/L (H_2O)
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H351 H361d H411 H302

131743 Thiourea (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (a.d.s.) ..... 99.0 %
Identity ..... IR passes test
Melting range ..... 174-177 °C

Maximum limit of impurities
Insoluble matter in H_2O ..... passes test
Loss on drying at 105 °C ..... 0.5 %

Residue on ignition (as SO_4) ..... 0.1 %
Sulfate (SO_4) ..... 0.01 %
Sensitivity to Bi ..... passes test
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %

K ..... 0.005 %
Mg ..... 0.0005 %
Mn ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.0005 %
Zn ..... 0.0005 %

Code	Packaging
131743.0416	25 kg

1743 Thiourea pure

Specifications
Assay (titr.) (a.d.s.) ..... 98 %
Identity ..... IR passes test
Melting range ..... 174-179 °C

Residue on ignition (as SO_4) ..... 0.3 %
Sulfate (SO_4) ..... 0.05 %
Cu ..... 0.002 %
Fe ..... 0.002 %

Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141743.1210	500 g

151743 Thiourea for synthesis

Specifications
Assay .....min. 98 %
Fe .....max. 0.001 %

Code	Packaging
151743.0716	25 kg

L-Threonine

L-2-Amino-3-Hydroxybutyric Acid

$C_4H_9NO_3$
M = 119.12 g/mol
CAS 72-19-5
EINECS 200-774-1
CS 29225000

Solubility ..... 90 g/L (H_2O)
Solid

Storage RT

A3946 L-Threonine for cell culture

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) .....min. 99 %
α20 °C/D; 6 %, H_2O .....-27.6 to -29.0°

Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %

As .....max. 0.0001 %
Fe .....max. 0.001 %
Pb .....max. 0.001 %

Code	Packaging
A3946,1000	1 kg

A3969 L-Threonine BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) .....min. 99 %
α20 °C/D; 6 %, H_2O .....-27.6 to -29.0°

Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Other amino acids ..... max. 0.5 %

Ammonium .....max. 0.02 %
Chloride .....max. 0.02 %
Sulfate .....max. 0.02 %

Code	Packaging
A3969,0100	100 g

A1419 L-Threonine (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc
on dried subst.) ..... 99.0-101.0 %
α20 °C/D; 6 %, H_2O, calc
on dried subst. .....-27.6 to -29.0°
α25 °C/D; 6 %, H_2O .....-26.7 to -29.1°

Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.2 %
pH (2.5 %; H_2O) 5.0-6.5
pH (5 %; H_2O) 5.0-6.5

Sulfated ash .....max. 0.1 %
Ninhydrin-positive substances .....max. 0.5 %
Ammonium .....max. 0.02 %
Chloride .....max. 0.02 %
Sulfate .....max. 0.03 %
Fe .....max. 0.001 %

Code	Packaging
A1419,1000	1 kg

Thymol

5-Methyl-2-(1-Methylethyl)-Phenol

$C_{10}H_{14}O$
M = 150.24 g/mol
CAS 89-83-8
EINECS 201-944-8
CS 29071990
Index Nr. 604-032-00-1

Melting Point ..... 49-51 °C
Density .....0.97 g/cm³ (20 °C)
Solid

UN2430
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 2
Storage RT

Danger



H302 H314 H411

191738 Thymol (Ph. Eur.) pharma grade

Specifications
Acidic react. subst. ..... passes test
Appearance of solution ..... passes test
Identity ..... passes test

Non-volatile matter ..... max. 0.05 %
Related subst. (G.C.) ..... passes test

Code	Packaging
191738.1208	100 g
191738.1211	1 kg

Thymolphthalein

$C_{28}H_{30}O_4$
M = 430.55 g/mol
CAS 125-20-2
EINECS 204-729-7
CS 29322090

Melting Point .....251-253 °C
Solubility ..... water 1 g/l at 20 °C
Solubility ..... alcohol 70 g/l
Solid

WGK 2
Storage RT

131739 Thymolphthalein for analysis, ACS

pH indicator 9,3 colourless; 10,5 blue

Specifications
Identity .....IR passes test

Range of Transition interval
according to ACS ..... passes test

Maximum limit of impurities
pH transition interval: colourless 9.3
pH transition interval: blue 10.5
Insoluble matter in C_2H_5OH .....passes test

Code	Packaging
131739.1604	5 g

Thymolphthalein solution 0.1 %

$C_{28}H_{30}O_4$
M = 430.55 g/mol
CAS 125-20-2
CS 38220000

Density .....0.900 kg/l
Liquid

UN1993
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 1
Storage RT

Danger



H225

281740 Thymolphthalein solution 0.1 % for volumetric analysis

pH indicator 9,3 colourless; 10,5 blue

Composition:
Thymolphthalein ..... 0.1 g

Ethanol absolute .....60 ml
Water (s.q.m) .....100 ml

Code	Packaging
281740.1211	1000 ml

Tiamulin see Myco-1

Tin(II) Chloride 2-hydrate

Stannous Chloride

$SnCl_2 \cdot 2H_2O$
M = 225.63 g/mol
CAS 10025-69-1
EINECS 231-868-0
CS 28273910

Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H332 H315 H317 H319 H335 H341 H361 H373 H410

471303 Tin(II) Chloride 2-hydrate (max. 0.000005 % Hg) for analysis, ACS

Specifications
Assay (Iodom.) ..... 98.0-103.0 %

Maximum limit of impurities
Insoluble matter in HCl ..... 0.005 %
Ammonium (NH_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.002 %
As ..... 0.0001 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Fe ..... 0.003 %
Hg ..... 0.000005 %
K ..... 0.005 %
Mg ..... 0.005 %
Na ..... 0.01 %
Ni ..... 0.0005 %
Pb ..... 0.01 %

Code	Packaging
471303.1609	250 g

131303 Tin(II) Chloride 2-hydrate (Reag. Ph. Eur.) for analysis, ACS

Specifications
Assay (Iodom.) ..... 98.0-103.0 %

Maximum limit of impurities
Insoluble matter in HCl ..... 0.005 %
Ammonium (NH_4) ..... 0.002 %
Sulfate (SO_4) ..... 0.002 %
As ..... 0.0001 %
Ca ..... 0.005 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Fe ..... 0.003 %
K ..... 0.005 %
Mg ..... 0.005 %
Na ..... 0.01 %
Ni ..... 0.0005 %
Pb ..... 0.01 %

Code	Packaging
131303.1608	100 g
131303.1609	250 g
131303.1611	1000 g
131303.1214	5 kg
131303.0416	25 kg

191303 Tin(II) Chloride 2-hydrate (Ph. Eur.) pharma grade

Specifications
Assay (titr.) ..... 98.0-102.0 %
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.005 %
Identity ..... passes test
Subst. not precip. by thioacetamide ..... max. 0.2 %
Sulfate ..... max. 0.05 %
Fe ..... max. 0.01 %

Code	Packaging
191303.1210	500 g
191303.1211	1 kg

141303 Tin(II) Chloride 2-hydrate pure

Specifications
Assay (Iodom.) ..... 97 %
Insoluble matter in HCl ..... 0.025 %
Sulfate (SO_4) ..... 0.05 %
As ..... 0.0005 %
Cu ..... 0.05 %
Fe ..... 0.01 %
Ni ..... 0.05 %
Pb ..... 0.1 %

Code	Packaging
141303.1608	100 g
141303.1609	250 g
141303.1611	1000 g
141303.1214	5 kg

211303 Tin(II) Chloride 2-hydrate technical grade

Specifications
Assay (titr.) ..... min. 96 %

Code	Packaging
211303.1210	500 g
211303.1211	1 kg

Tin(IV) Oxide

Tin Dioxide

SnO_2
M = 150.69 g/mol
CAS 18282-10-5
EINECS 242-159-0
CS 28259085

Solubility ..... Insoluble in water
Solid

WGK 3
Storage RT

141305 Tin(IV) Oxide pure

Specifications
Chloride (Cl) ..... 0.05 %
Sulfate (SO_4) ..... 0.05 %
Fe ..... 0.01 %

Code	Packaging
141305.0416	25 kg

TISAB III solution for detection of fluoride

CS 38220000

Density ..... 1.053 kg/l
Liquid

Storage RT

273526 TISAB III - Solution for detection of fluoride

for the fluoride determination by selective electrodes. pH 5,25 ± 0,25

Composition:
1,2-Diaminociclohexane
N,N,N,N-tetraacetic Acid 1-hydrate ..... 18 g
Ammonium Chloride ..... 96.65 g
Ammonium Acetate ..... 163.4 g
Cresol Red ..... 0.1 g
Water (s.q.m) ..... 1 l
Note: pH 5.25 ± 0.25

Code	Packaging
273526.1210	500 ml

TISAB IV (ASTM D 1179) for samples containing < 100 ppm in Fe and/or Al

CS 38220000

Density ..... 1.103 kg/l
Liquid

Storage RT

273531 TISAB IV (ASTM D 1179) for samples containing < 100 ppm in Fe and/or Al

for the fluoride determination by selective electrodes. pH 8,5 ± 0,1

Composition:
Hydrochloric Acid 37 % ..... 84 ml
Tris (Hydroximethyl) Aminomethane ..... 242 g
Sodium Tartrate 2-hydrate ..... 230 g
Water (s.q.m) ..... 1 l
Note: pH 8.5 ± 0.1

Code	Packaging
273531.1210	500 ml

НеВаРеактив

TISAB solution for detection of fluoride

CS 38220000

Density .....1.080 kg/l
Liquid

Storage RT

274765 TISAB II (STANDARD METHODS/AOAC) for samples containing < 3 ppm in Fe and/or Al

for the fluoride determination by selective electrodes. pH 5,15 ± 0,15

Composition:
1,2-Diaminociclohexane N,N,N,N-tetraacetic Acid 1-hydrate ..... 3.6 g
Sodium Hydroxide 50 % sol. w/w .....35 ml
Acetic Acid glacial .....57 ml
Sodium Chloride .....58 g
Water (s.q.m) ..... 1 l
Note: pH 5.15 ± 0.15

Code	Packaging
274765.1211	1000 ml
274765.1214	5 l
274765.1315	10 l

Titanium Dioxide see Titanium(IV) Oxide

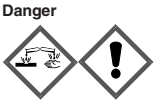
Titanium(III) Chloride solution 2 % w/w

CS 38220000

Density .....1.067 kg/l
Liquid

UN1760
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
Storage RT

Danger



H314 H335

173424 Titanium(III) Chloride solution 2 % w/w

Specifications
Assay (w/w) .....2 %
Bottled under argon atmosphere.

Code	Packaging
173424.1612	2.5 l

Titanium(IV) Oxide

Titanium Dioxide

TiO_2
M = 79.90 g/mol
CAS 13463-67-7
EINECS 236-675-5
CS 28230000

Melting Point ..... 1,855 °C
Boiling Point ..... 2,900 °C
Solubility ..... Insoluble in water
Solid

WGK nwg
Storage RT

142101 Titanium(IV) Oxide (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity or alkalinity ..... passes test
Insoluble matter in H_2SO_4 ..... passes test
Soluble matter in H_2O ..... 0.25 %
Soluble matter in HCl dil ..... 0.5 %
Loss on ignition 800 °C ..... 0.5 %
Loss on drying at 105 °C ..... 0.5 %
Residual solvents (Ph. Eur./USP) . passes test
Heavy metals (as Pb) ..... 0.002 %
As ..... 0.0001 %
Ba .....passes test
Fe .....0.02 %
Sb .....0.0002 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
142101.1210	500 g
142101.1211	1000 g
142101.0914	5 kg

212101 Titanium(IV) Oxide technical grade

Specifications
Insoluble matter in H_2SO_4 ..... passes test
Loss on ignition 800 °C .....1 %

Code	Packaging
212101.0914	5 kg

TLCK see Nα-Tosyl-L-Lysine Chloromethyl Ketone Hydrochloride (TLCK)

TMB see 3,3',5,5'-Tetramethylbenzidine

DL-α-Tocopherol

Vitamin E alcohol

$C_{29}H_{50}O_2$
M = 430.72 g/mol
CAS 10191-41-0
EINECS 233-466-0
CS 29362800

Liquid

WGK nwg
Storage 2-8 °C

A2232 DL-α-Tocopherol BioChemica

Specifications
Assay (G.C.) .....min. 97 %
E 1 %/1 cm, $\lambda_{292\ nm}$, EtOH 73-76
Heavy metals ..... max. 0.002 %

Code	Packaging
A2232,0050	50 g

o-Tolidine

3,3'-Dimethyl-(1,1'Biphenyl)-4,4'-Diamine, 3,3'-Dimethylbenzidine

$C_{14}H_{16}N_2$
M = 212.29 g/mol
CAS 119-93-7
EINECS 204-358-0
CS 29215990
Index Nr. 612-041-00-7

Melting Point ..... 131 °C
Boiling Point ..... 415 °C
Solubility ..... Very slightly soluble in water.
Solid

WGK 3
Storage RT

Danger



H350 H302 H411

121744 o-Tolidine (Reag. USP, Ph. Eur.) for analysis

Chlorine reagent

Specifications
Minimum assay .....98.0 %
Identity .....IR passes test

Melting range .....129-131 °C

Maximum limit of impurities
Insoluble matter in HCl .....passes test

Residue on ignition (as SO_4) .....0.1 %
Sensitivity to chlorine .....passes test

Code	Packaging
121744.1607	50 g
121744.1611	1000 g

НеВаРеактив

Printed on FSC® certified paper from well managed forests

o-Tolidine solution 0.1 %

3,3'-Dimethyl-(1,1'-Biphenyl)- 4,4'-Diamine, 3,3'-Dimethylbenzidine

$C_{14}H_{16}N_2$
M = 212.29 g/mol
CAS 119-93-7
CS 38220000

Density .....1.021 kg/l
Liquid

WGK 3
Storage RT

Danger



H350

172417 o-Tolidine solution 0.1 %

Chlorine reagent

Composition:
o-Tolidine ..... 0.1 g
Hydrochloric Acid 35 % ..... 10.5 ml
Water (s.q.m) ..... 100 ml

Code	Packaging
172417.1609	250 ml
172417.1611	1000 ml

Toluene

Methylbenzene, Phenylmetane, Toluol

$C_6H_5CH_3$
M = 92.14 g/mol
CAS 108-88-3
EINECS 203-625-9
CS 29023000
Index Nr. 601-021-00-3

Melting Point .....-94.99 °C
Boiling Point .....110.62 °C
Density .....0.865 kg/l
Solubility ..... water 0.05 g/l at 20 °C
Refractive Index n20/D 1.4963
Liquid

UN1294
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK 2
Storage RT

Danger



H225 H315 H361fdi H336 H373 H304

361745 Toluene for UV, IR, HPLC, GPC, ACS

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 0.863-0.866

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0003 %
Darkened substances by H_2SO_4 ..... passes test

Sulfur compounds (as CS_2) .....0.0003 %
Thiophene (C_4H_4S) .....0.0002 %
Water (H_2O) .....0.01 %
Suitability for IR spectrometry: ..... passes test
Fluorescence at 365 nm (as quinine) ..... 2 ppb
Fluorescence at 365 nm (as quinine) ..... 2 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 285 nm (Cut off) ..... ≥ 10 %
Transmittance at 288 nm ..... ≥ 32 %
Transmittance at 290 nm ..... ≥ 50 %
Transmittance at 293 nm ..... ≥ 63 %

Transmittance at 300 nm .....≥ 80 %
Transmittance at 310 nm .....≥ 90 %
Transmittance at 350-450 nm .....≥ 98 %
Data of interest in HPLC:
P' + 0.25 E 2.9
Rohrschneider Polarity 2.4
Eluotropic value e° (Al_2O_3) 0.29
Sol. H_2O in solv. at 20 °C 0.046
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361745.1611	1000 ml
361745.1612	2.5 l

321745 Toluene for pesticide analysis

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity .....IR passes test
Density 20/4 ..... 0.863-0.866

Maximum limit of impurities
APHA colour 10
Acidity .....0.0001 meq/g
Alkalinity .....0.0002 meq/g
Non-volatile matter .....0.0005 %
Thiophene (C_4H_4S) .....0.0002 %

Water (H_2O) ..... 0.02 %
Signal ECD of pesticide (Lindane a DDT) (as Lindane) ..... 5 ng/l
Signal FID of 2-Octanol to Tetradecanol (as 2-Octanol) ..... passes test

Code	Packaging
321745.1611	1000 ml
321745.1612	2.5 l

481745 Toluene dry (max. 0.005 % water), ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity .....IR passes test
Density 20/4 ..... 0.863-0.866

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 .. passes test

Sulfur compounds (as CS_2) .....0.0003 %
Benzene (G.C.) .....0.05 %
Ethylbenzene (G.C.) .....0.05 %
m-Xylene (G.C.) .....0.05 %
o-Xylene (G.C.) .....0.01 %
p-Xylene (G.C.) .....0.01 %
Thiophene (C_4H_4S) .....0.0002 %
Water (H_2O) .....0.005 %

Metals by ICP [in mg/Kg (ppm)]
Ag .....0.05 Al 0.5
As.....0.05 Au 0.05
B.....0.02 Ba.....0.1
Be.....0.02 Bi.....0.05
Ca.....0.1 Cd 0.05
Co.....0.02 Cr 0.02
Cu.....0.02 Fe.....0.1
Ga .....0.02 Ge 0.05
Hg.....0.05 In 0.05
K.....0.1 Li 0.05
Mg .....0.1 Mn.....0.02

Code	Packaging
481745.1611	1000 ml
481745.1612	2.5 l

131745 Toluene (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity .....IR passes test
Density 20/20 ..... 0.865-0.870

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 ..... passes test

Sulfur compounds (as CS_2) .....0.0003 %
Benzene (G.C.) .....0.05 %
Ethylbenzene (G.C.) .....0.05 %
m-Xylene (G.C.) .....0.05 %
o-Xylene (G.C.) .....0.01 %
p-Xylene (G.C.) .....0.01 %
Thiophene (C_4H_4S) .....0.0002 %
Water (H_2O) .....0.03 %

Metals by ICP [in mg/Kg (ppm)]
Ag .....0.05 Al 0.5
As.....0.05 Au 0.05
B.....0.02 Ba.....0.1
Be.....0.02 Bi.....0.05
Ca.....0.1 Cd 0.05
Co.....0.02 Cr 0.02
Cu.....0.02 Fe.....0.1
Ga .....0.02 Ge 0.05
Hg.....0.05 In 0.05
K.....0.1 Li 0.05
Mg .....0.1 Mn.....0.02

Code	Packaging
131745.1611	1000 ml
131745.1612	2.5 l
131745.0314	5 l
131745.0616	25 l
131745.3516	25 l
131745.0619	200 l

141745 Toluene pure

Specifications
Assay (G.C.) ..... 99.5 %
Identity .....IR passes test
Density 20/4 ..... 0.863-0.866
Acidity ..... 0.0003 meq/g
Alkalinity ..... 0.00025 meq/g
Non-volatile matter ..... 0.01 %
Sulfur compounds (as CS_2) ..... 0.001 %
Benzene (G.C.) ..... 0.1 %
Ethylbenzene (G.C.) ..... 0.1 %

m-Xylene (G.C.) .....0.1 %
o-Xylene (G.C.) .....0.05 %
p-Xylene (G.C.) .....0.05 %
Water (H_2O) .....0.05 %
Cu .....0.00002 %
Fe .....0.00005 %
Ni .....0.00002 %
Pb .....0.00002 %

Code	Packaging
141745.1611	1000 ml
141745.1612	2.5 l
141745.0314	5 l
141745.3514	5 l
141745.0616	25 l
141745.3516	25 l
141745.0619	200 l

161745 Toluene, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity .....IR passes test
Density 20/4 ..... 0.863-0.866
Non-volatile matter ..... 0.005 %
Water (H_2O) ..... 0.03 %

Code	Packaging
161745.1612	2.5 l
161745.1714	5 l
161745.0515	10 l

211745 Toluene technical grade

Specifications
Assay (G.C.) .....99.5 %
Density 20/4 ..... 0.863-0.867
Acidity .....0.003 meq/g
Water (H_2O) .....0.1 %

Code	Packaging
211745.1611	1000 ml
211745.1612	2.5 l
211745.1714	5 l
211745.2714	5 l
211745.3514	5 l
211745.0616	25 l
211745.3516	25 l

Toluene-4-Sulfonechloramide Sodium see Chloramine T 3-hydrate

Toluene-4-Sulfonic Acid 1-hydrate

4-Methylbenzenesulfonic Acid, p-Toluenesulfonic Acid

$CH_3C_6H_4HSO_3 \cdot H_2O$
M = 190.22 g/mol
CAS 6192-52-5
EINECS 203-180-0
CS 29041000
Index Nr. 016-030-00-2

Melting Point ..... 105 °C
Boiling Point .....140 °C 27 hPa
Solubility .....in water 670 g/l at 20 °C
Solid

UN2585
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 1
Storage RT

Warning



H319 H335 H315

15A671 Toluene-4-Sulfonic Acid 1-hydrate, 98 % for synthesis

Specifications
Minimum assay (G.C.) .....98 %
Identity .....IR passes test
Water (H_2O) ..... 9-13 %

Code	Packaging
15A671.1214	5 kg
15A671.0416	25 kg

p-Toluenesulfonic Acid see Toluene-4-Sulfonic Acid 1-hydrate

Toluidine Blue O (C.I. 52040)

Toluidine Blue-O Zinc Chloride Double Salt, Dimethyltoluthionone Chlorid, Basic Blue 17, Tolonium Chloride

$(C_{15}H_{16}ClN_3S)_2 \cdot ZnCl_2$
M = 747.96 g/mol
CAS 92-31-9
EINECS 202-146-2
CS 32041300

Solubility ..... 20 g/L (H_2O)
Solid

WGK 3*
Storage RT

251176 Toluidine Blue O (C.I. 52040) for clinical diagnosis

For microscopy, nucleus and mucosae staining

Specifications
Identity .....IR passes test
Ratio λ_{max} P +/- 15 nm 1.00-1.23

A 1 %, 1 cm, λ_{max} ..... > 750
λ_{max} ABS in H_2O .....630-635 nm
T.L.C. .....passes test

Maximum limit of impurities
Loss on drying at 135 °C .....10 %

Code	Packaging
251176.1604	5 g
251176.1606	25 g

A3842 Toluidine Blue O (C.I. 52040)

Specifications
Assay .....min. 85 %
λ_{max} (H_2O) ..... 623-633 nm

Identity (UV/VIS) .....passes test
Loss on drying ..... max. 8 %

Code	Packaging
A3842,0010	10 g

Toluidine Blue-O Zinc Chloride Double Salt see Toluidine Blue O (C.I. 52040)

Toronto-Starch see Starch

N-α-Tosyl-L-Lysine Chloromethyl Ketone Hydrochloride (TLCK)

(3S)-7-Amino-1-Chloro-3-Tosylamino-2-Heptanone Hydrochloride, TLCK, Nα-Tosyl-L-Lysyl-Chloromethane Hydrochloride

$C_{14}H_{21}ClN_2O_3S \cdot HCl$
M = 369.31 g/mol
CAS 4272-74-6
EINECS 224-266-4
CS 29420000

Melting Point .....163-165 °C
Solid

Storage -20 °C

A1799 N-α-Tosyl-L-Lysine Chloromethyl Ketone Hydrochloride (TLCK) BioChemica

Specifications
Assay (HPLC) .....min. 98 %
α24 °C/D; 5 %, H_2O .....-9 to -10°

Code	Packaging
A1799,0100	100 mg
A1799,0001	1 g

"Total Ionic Strength Adjustment Buffer" Solution see TISAB III solution for detection of fluoride

Toxin F2 see Zearalenone

TPA see Phorbol-12-Myristate-13-Acetate (PMA)

TPE buffer

Tris-Phosphate-EDTA buffer

CS 38220000

Liquid

Storage RT

A3843 TPE buffer (10X)

...phoresis buffer for DNA

Composition:
EDTA 0.5 M (pH 8.0) ..... 40 ml/L

Phosphoric Acid 85 % ..... 15.5 ml/L
Tris .....108 g/L

Code	Packaging
A3843,1000	1 L

Specifications
pH (20 °C) 7.5-7.8

TPTZ see ...azolium Red

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

НевАреактив

Transfection reagent AppliFect see AppliFect

Transfection reagent for very sensitive cells see AppliFect LowTox

apo-Transferrin, human

M = ~ 77000 g/mol
CAS 11096-37-0
EINECS 309-222-5
CS 30021095

Solid

Storage 2-8 °C

A3008 apo-Transferrin, human

Specifications
Assay .....min. 95 %
Loss on drying .....max. 5 %
pH (3 %; H_2O; 20 °C) 6.5-8.0
Fe .....max. 0.005 %

Code	Packaging
A3008,0100	100 mg
A3008,0001	1 g

holo-Transferrin, human

M = ~ 80000 g/mol
CAS 11096-37-0
EINECS 309-222-5
CS 30021095

Solid

Storage 2-8 °C

A3124 holo-Transferrin, human

Specifications
Assay .....min. 95 %
Loss on drying .....max. 5 %
pH (1 %; H_2O) ..... 6.5-7.5 (20 °C)
Fe/g protein ..... min. 1000 µg

Code	Packaging
A3124,0250	250 mg
A3124,9020	20 g

D(+)-Trehalose 2-hydrate

Mycose, α-D-Glucopyranosyl-α-D-Glucopyranoside

$C_{12}H_{22}O_{11} \cdot 2H_2O$
M = 378.34 g/mol
CAS 6138-23-4
EINECS 202-739-6
CS 29400000

Solid

Storage RT

A1742 D(+)-Trehalose 2-hydrate BioChemica

Specifications
Assay .....min. 98 %
α20 °C/D; 7 %, H_2O .....176-180°
Residue on ignition .....max. 0.1 %
Solubility (5 %; H_2O) .....clear, colorless

Code	Packaging
A1742,0025	25 g
A1742,0050	50 g
A1742,0100	100 g
A1742,0250	250 g
A1742,1000	1 kg

A9686 D(+)-Trehalose 2-hydrate endotoxin free

Specifications
Assay (HPLC) .....min. 98 %
Endotoxins ..... max. 2.4 Eu/g
Loss on drying ..... max. 2 %
Microbial limits .....max. 150 CFU/g
pH (30 %; H_2O) 5-7
Residue on ignition .....max. 0.1 %
As ..... max. 0.00005 %
Pb .....max. 0.001 %

Code	Packaging
A9686,1000	1 kg

Tretinoin see Retinoic

Triacetin see Glycerol tri-Acetate

Tribromomethane see Bromoform

Tributyrin

Glyceryl Tributyrate, 1,2,3-Tributyrylglycerol

$C_{15}H_{26}O_6$
M = 302.37 g/mol
CAS 60-01-5
EINECS 200-451-5
CS 29156019

Boiling Point .....287-288 °C
Liquid

WGK 1
Storage RT

A8574 Tributyrin BioChemica

Specifications
Assay (G.C.) .....min. 98 %
Density (d 25 °C) ..... 1.027-1.037 g/cm³
Heavy metals (as Pb) ..... max. 0.001 %
Identity (IR) .....passes test

Code	Packaging
A8574,0100	100 ml

1,1,1-Trichloro-2-Methyl-2-Propanol 1/2-hydrate

2,2,2-Trichloro terc-Butanol, Acetone Chloroform, Chlorbutol, Chlorobutanol

$C_4H_7Cl_3O \cdot 0{,}5H_2O$
M = 186.47 g/mol
CAS 6001-64-5
EINECS 200-317-6
CS 29055998

Melting Point ..... 78 °C
Boiling Point ..... 167 °C
Solubility Slightly soluble in water. Soluble in alcohol.
Solid

WGK 3
Storage RT

145300 1,1,1-Trichloro-2-Methyl-2-Propanol 1/2-hydrate (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (GC, calc. a.a.s) ..... 98.0-101.0 %
Identity ac... .....
Pharmacopoeias ..... passes test

Maximum limit of impurities
Appearance of solution .....passes test
Acidity .....passes test
Insoluble matter in C_2H_5OH 96 % .....passes test
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.01 %
Residual solvents (Ph. Eur.) ..... passes test
Water (H_2O) ..... 4.5-5.5 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
145300.1211	1000 g
145300.0914	5 kg

Trichloroacetic Acid

TCA

CCl_3COOH
M = 163.39 g/mol
CAS 76-03-9
EINECS 200-927-2
CS 29154000
Index Nr. 607-004-00-7

Melting Point ..... 52-58 °C
Density ..... 1.63 kg/l (20 °C)
Solubility ..... 1600 g/L (H_2O)
Solid

UN1839
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 2
Storage RT

Danger



H314 H335 H410

131067 Trichloroacetic Acid (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (Acidim.) ..... 99.5 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.003 %
Reducing substance to $KMnO_4$ .... passes test
Darkened substances by H_2SO_4 ..... passes test
Residue on ignition (as SO_4) ..... 0.03 %
Chloride (Cl) ..... 0.001 %
Phosphate (PO_4) ..... 0.0005 %
Sulfate (SO_4) ..... 0.02 %
Nitrate (NO_3) ..... 0.002 %
Heavy metals (as Pb) ..... 0.002 %
Cu ..... 0.002 %
Fe ..... 0.001 %
Ni ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
131067.1608	100 g
131067.1609	250 g
131067.1611	1000 g
131067.1214	5 kg

141067 Trichloroacetic Acid (BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.01 %
Loss on drying ..... 1.0 %
Residue on ignition (as SO_4) ..... 0.05 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.05 %
Nitrate (NO_3) ..... 0.02 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141067.1608	100 g
141067.1609	250 g
141067.1611	1000 g
141067.1214	5 kg
141067.0416	25 kg

151067 Trichloroacetic Acid, 98 % for synthesis

Specifications
Minimum assay ..... 98 %

Code	Packaging
151067.1609	250 g
151067.1611	1000 g

A1431 Trichloroacetic Acid BioChemica

Specifications
Assay (titr.) ..... min. 99 %
Sulfated ash ..... max. 0.1 %
Fe ..... max. 0.005 %

Code	Packaging
A1431,0250	250 g
A1431,0500	500 g
A1431,1000	1 kg

Trichloroacetic Acid solutions 20 %

TCA solution

CCl_3COOH
M = 163.39 g/mol
CS 29154000
Index Nr. 607-004-00-7

Liquid

UN2564
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 2
Storage RT

Danger



H314 H335 H411

252373 Trichloroacetic Acid solution 20 % w/v for clinical diagnosis

Deproteinizer

Composition:
Trichloroacetic Acid ..... 20.1 g
Water (s.q.m) ..... 100 ml

Code	Packaging
252373.1611	1000 ml

A0590 Trichloroacetic Acid solution 20 % BioChemica

Aqueous solution

Specifications
Assay (titr.) ..... 19.95-20.05 %
pH (20 °C) ..... < 1.0

Code	Packaging
A0590,0500	500 ml
A0590,1000	1 L

Trichloroacetic Acid solution 10 %

TCA solution

CCl_3COOH
M = 163.39 g/mol
CS 29154000

Liquid

UN2564
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 2
Storage RT

Danger



H314 H335 H411

A3844 Trichloroacetic Acid solution 10 % BioChemica

Aqueous solution

Specifications
Assay (titr.) ..... 9.95-10.05 %
pH (20 °C) ..... < 1.0

Code	Packaging
A3844,1000	1 L

1,2,4-Trichlorobenzene

$C_6H_3Cl_3$
M = 181.45 g/mol
CAS 120-82-1
EINECS 204-428-0
CS 29036990
Index Nr. 602-087-00-6

Melting Point ..... 17 °C
Boiling Point ..... 213 °C
Density ..... 1.45 kg/l (20 °C)
Refractive Index n20/D 1.5707

UN2321
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Warning



H315 H410 H302

363541 1,2,4-Trichlorobenzene for UV, IR, HPLC, GPC

To be used in gel permeation chromatography, filtered through 0.2 µm filter.

Specifications
Assay (G.C.) ..... min. 99 %
Color ..... max. 10 APHA
Non-volatile matter ..... max. 10 ppm
Water (K.F.) ..... max. 0.02 %

Code	Packaging
363541.1611	1 L
363541.1612	2.5 L

Trichloroethene see Trichloroethylene

Trichloroethylene

1,1,2-Trichloroethylene, Ethylene Trichloride, Ethynyl Trichloride, Trichloroethene

Cl_2CCICH
M = 131.39 g/mol
CAS 79-01-6
EINECS 201-167-4
CS 29032200
Index Nr. 602-027-00-9

Melting Point ..... -84.8 °C
Boiling Point ..... 86.7 °C
Density ..... 1.46 kg/l
Solubility ..... in water 0.4 g/l at 20 °C
Refractive Index n20/D 1.4774
Liquid

UN1710
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3
Storage RT

Danger



H350 H319 H315 H412 H336 H341

131749 Trichloroethylene, stabilized with ethanol (Reag. Ph. Eur.) for analysis, ACS

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0003 meq/g
Non-volatile matter ..... 0.001 %
Chloride (Cl) ..... 0.0004 %

Ethanol (G.C.) ..... 0.5 %
Free halogens ..... passes test
Tetrachloroethylene (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.02 %
Heavy metals (as Pb) ..... 0.0001 %

Metals by ICP [in mg/Kg (ppm)]

Ag	0.05	Al	0.5	Be	0.02
As	0.05	Au	0.05	Bi	0.05
B	0.2	Ba	0.1	Ca	0.5
Cd	0.05	Co	0.02	Cr	0.02
Cu	0.02	Fe	0.1	Ga	0.02
Ge	0.05	Hg	0.05	In	0.05
K	0.1	Li	0.05	Mg	0.1
Mn	0.02	Mo	0.02	Na	0.5
Ni	0.02	P	0.2		

Code	Packaging
131749.1611	1000 ml
131749.1612	2.5 l

141749 Trichloroethylene, stabilized with ethanol pure

Specifications
Assay (G.C.) (stabilizer not included) ..... 99 %
Identity ..... IR passes test
Acidity ..... 0.0005 meq/g
Alkalinity ..... 0.001 meq/g

Non-volatile matter ..... 0.005 %
Chloride (Cl) ..... 0.001 %
Ethanol (G.C.) ..... 0.5 %
Tetrachloroethylene (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.1 %

Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141749.1611	1000 ml
141749.1612	2.5 l

161749 Trichloroethylene, 99 % stabilized with ethanol for synthesis

Specifications
Minimum assay (G.C.) ..... 99 %
Minimum assay (G.C.)
(stabilizer not included) ..... 99.5 %
Identity ..... IR passes test

Acidity (as HCl) ..... 0.001 %
Ethanol (G.C.) ..... 0.5 %
Water (H_2O) ..... 0.02 %

Code	Packaging
161749.1611	1000 ml
161749.1714	5 l
161749.3516	25 l

Trichloromethane see Chloroform stabilized with ethanol

1,1,2-Trichlorotrifluoroethane

1,1,2-Trifluorotrichloroethane

$C_2Cl_3F_3$
M = 187.38 g/mol
CAS 76-13-1
EINECS 200-936-1
CS 29037730

Melting Point ..... -35 °C
Boiling Point ..... 48 °C
Density ..... 1.580 kg/l
Refractive Index n20/D 1.3557
Liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H420

363266 1,1,2-Trichlorotrifluoroethane (E.U.) for UV, IR, HPLC

For Essential Uses

Specifications
Minimum assay (G.C.) ..... 99.9 %
Density 20/4 ..... 1.578-1.582

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0002 meq/g

Alkalinity ..... 0.0002 meq/g
Non-volatile matter ..... 0.0005 %
Hydrocarbons (related to squalane/
squalene (3050-2900 cm^{-1}) ..... 0.0002 %
Water (H_2O) ..... 0.005 %
Suitability for IR spectrometry: ..... passes test
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 233 nm (Cut off) ..... ≥ 10 %

Transmittance at 235 nm ..... ≥ 20 %
Transmittance at 240 nm ..... ≥ 50 %
Transmittance at 245 nm ..... ≥ 80 %
Transmittance at 250 nm ..... ≥ 92 %
Transmittance at 260-400 nm ..... ≥ 98 %
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
363266.1612	2.5 l

133266 1,1,2-Trichlorotrifluoroethane (ACS IX, Reag. USP, Ph. Eur.) (E.U.) for analysis, ACS

For Essential Uses

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 1.578-1.582
Range of Boiling (> 98 % dist.) ..... 47-48 °C

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0003 meq/g
Non-volatile matter ..... 0.0005 %

Darkened substances by H_2SO_4 ... passes test
Reducing substances of I_2 (en l) ..... 0.0016 %
Chlorine Free (Cl) ..... 0.00003 %
Chloride (Cl) ..... 0.00003 %
Carbonyl compounds
(as CH_3COCH_3) ..... 0.001 %
Carbon Tetrachloride (G.C.) ..... 0.01 %
Tetrachloroethylene (G.C.) ..... 0.01 %
Trichloroethylene (G.C.) ..... 0.01 %
Trichloroethylene (G.C.) ..... 0.01 %
Water (H_2O) ..... 0.005 %

Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.000002 %
Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
133266.1612	2.5 l

163266 1,1,2-Trichlorotrifluoroethane, 99.8 % (E.U.) for synthesis

For Essential Uses

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test
Density 20/4 ..... 1.578-1.582
Acidity (as HCl) ..... 0.002 %
Non-volatile matter ..... 0.001 %
Water (H_2O) ..... 0.01 %

Code	Packaging
163266.1611	1000 ml

Trichostatin A

Antibiotic A3

Origin from *Streptomyces platensis*

$C_{17}H_{22}N_2O_3$
M = 302,37 g/mol
CAS 58880-19-6
CS 29280090

Melting Point ..... 141-143 °C
Solid

WGK 1
Storage -20 °C

Warning



H302+H312+H332 H315 H317 H319 H335

A7812 Trichostatin A BioChemica

Specifications
Assay (HPLC) ..... approx. 97 %
λ_{max} ..... 265, 340 nm
Solubility ..... DMSO, EtOH

Code	Packaging
A7812,0005	5 mg

Tricine

N-[Tris-(Hydroxymethyl)-Methyl]-Glycine

$C_6H_{13}NO_5$
M = 179.17 g/mol
CAS 5704-04-1
EINECS 227-193-6
CS 29225000

Melting Point ..... 186-188 °C (dec.)
Solid

Storage RT

A3954 Tricine for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.5 %
Water ..... max. 0.3 %
Chloride ..... max. 0.1 %
Sulfate ..... max. 0.005 %
As ..... max. 0.0001 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
A3954,0100	100 g
A3954,0250	250 g
A3954,0500	500 g
A3954,1000	1 kg

A1085 Tricine BioChemica

Specifications
Assay (titr.) ..... min. 99 %
IR spectrum ..... passes test
pH (1 %; H_2O; 25 °C) 4.6-5.6
Water ..... max. 0.3 %
Chloride ..... max. 0.1 %
Sulfate ..... max. 0.005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %
A (1 cm/0.1 M in H_2O)
260 nm ..... max. 0.04
280 nm ..... max. 0.02

Code	Packaging
A1085,0100	100 g
A1085,0250	250 g
A1085,0500	500 g
A1085,1000	1 kg
A1085,5000	5 kg
A1085,9020	20 kg

Tricolor Paper Reel pH 1-11 (gradation 1.0)

CS 38220000

Paper reel

Storage RT

524169 Tricolor Paper Reel pH 1-11 (gradation 1.0)

Code	Packaging
524169.1825	Rolls

Triethanolamine

Trolamine, 2,2',2''-Nitrilotriethanol, 2,2',2''-Trihydroxytriethylamine, TEA, Tris (2-Hydroxyethyl) Amine

$C_6H_{15}NO_3$
M = 149.19 g/mol
CAS 102-71-6
EINECS 203-049-8
CS 29221310

Melting Point ..... 20-22 °C
Refractive Index n20/D 1.481-1.486
Liquid

WGK 1
Storage RT

121750 Triethanolamine for analysis

Specifications
Minimum assay (Acidim.) ..... 99.0 %
Identity ..... IR passes test

Maximum limit of impurities
APHA colour 50
Residue on ignition (as SO_4) ..... 0.01 %
Chloride (Cl) ..... 0.001 %
Diethanolamine (G.C.) ..... 0.5 %
Ethanolamine (G.C.) ..... 0.1 %
Water (H_2O) ..... 0.1 %
Heavy metals (as Pb) ..... 0.0001 %
Fe ..... 0.0001 %

Code	Packaging
121750.1609	250 ml
121750.1611	1000 ml

191750 Triethanolamine (BP, Ph. Eur., USP-NF) pharma grade

Specifications
Assay (Acidim.) ..... 99.0-103.0 %
Identity according to
Pharmacopoeias: ..... passes test
Density 20/20 ..... 1.120-1.130
Density 25/25 ..... 1.120-1.128
Refractive Index n20/D 1.482-1.485

Maximum limit of impurities
Appearance of solution ..... passes test
Residue on ignition (as SO_4) ..... 0.05 %
Related substances
Residual solvents (Ph. Eur.) ..... passes test
Ethanolamine ..... 0.1 %
Diethanolamine ..... 0.5 %
Total impurities ..... 1.0 %
N-Nitrosodiethanolamine ..... 24 ppb
Water (H_2O) ..... 0.5 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
191750.1214	5 l
191750.0716	25 l
191750.0718	60 l

НеВаРеаКТИВ

141750 Triethanolamine (USP-NF) pure, pharma grade

Specifications
Assay (Acidim.) ..... 99.0-107.4 %
Identity according to Pharmacopoeias: ..... passes test
Density 25/25 ..... 1.120-1.128
Refractive Index n20/D 1.482-1.485

Maximum limit of impurities
Residue on ignition (as SO_4) ..... 0.05 %
Total bases ..... passes test
Related substances ..... passes test
Residual solvents (Ph. Eur./USP) ..... passes test
Water (H_2O) ..... 0.15 %
Heavy metals (as Pb) ..... 0.0005 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
141750.1611	1000 ml
141750.1214	5 l
141750.3514	5 l
141750.3515	10 l
141750.0716	25 l

161750 Triethanolamine, 98 % for synthesis

Specifications
Minimum assay (G.C.) ..... 98 %
Identity ..... IR passes test
Water (H_2O) ..... 0.3 %

Code	Packaging
161750.1211	1000 ml
161750.0716	25 l

A1423 Triethanolamine BioChemica

Specifications
Assay (G.C.) ..... min. 99 %
Diethanolamine ..... max. 0.5 %
Ethanolamine ..... max. 0.1 %

Chloride ..... max. 0.0001 %
Sulfate ..... max. 0.005 %
Fe ..... max. 0.0001 %
Pb ..... max. 0.0001 %

Code	Packaging
A1423,1000	1 L
A1423,9025	25 L

Triethanolamine Hydrochloride

Trolamine Hydrochloride, 2,2',2''-Nitrilotriethanol Hydrochloride, 2,2',2''-Trihydroxytriethylamine Hydrochloride, Tris (2-Hydroxyethyl) Amine Hydrochloride, TEA Hydrochloride

$C_6H_{15}NO_3 \cdot HCl$
M = 185.65 g/mol
CAS 637-39-8
EINECS 211-284-2
CS 29221390

Melting Point ..... 176-180 °C
Solid

Storage RT

A1424 Triethanolamine Hydrochloride BioChemica

Specifications
Assay (titr.) ..... min. 99 %

Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
A1424,0100	100 g

Triethyl Citrate

Citric Acid Triethyl Ester

$C_{12}H_{20}O_7$
M = 276.29 g/mol
CAS 77-93-0
EINECS 201-070-7
CS 29181500

Boiling Point ..... 294 °C (1013 hPa)
Liquid

WGK 1
Storage RT

147039 Triethyl Citrate (Ph. Eur., NF) pure, pharma grade

Specifications
Assay (GC; calc. dried subst.) ..... 99.0-100.5 %
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %

Acidic react. subst. ..... passes test
Density (d 25 °C/25 °C) 1.135-1.139
Heavy metals (as Pb) ..... max. 0.0005 %
Identity ..... passes test
n 20 °C/D 1.440-1.446

n 25 °C/D 1.439-1.441
Related subst. (G.C.) ..... passes test
Sulfated ash ..... max. 0.1 %
Water (K.F.) ..... max. 0.25 %

Code	Packaging
147039.1211	1 L

Triethylamine

N,N-Diethylethanamine

$C_6H_{15}N$
M = 101.19 g/mol
CAS 121-44-8
EINECS 204-469-4
CS 29211999
Index Nr. 612-004-00-5

Melting Point ..... -115 °C
Boiling Point ..... 88-90 °C
Density ..... 0.73 g/cm³ (20 °C)
Liquid

UN1296
Class/PG 3(8)/II
ADR 3(8)/II · IMDG 3(8)/II · IATA 3(8)/II
WGK 1
Storage RT

Danger



H225 H302+H312+H332 H314 H335

123542 Triethylamine (Reag. USP) for analysis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.725-0.729
Range of Boiling ..... 89-90 °C

Maximum limit of impurities
ABS at λ_{max} 285 nm 1 % sol. in $CH_3OH/CHCl4$ 0.01

Non-volatile matter ..... 0.005 %
Diethylamine (G.C.) ..... 0.05 %
Ethanol (G.C.) ..... 0.05 %
Water (H_2O) ..... 0.1 %
Ca ..... 0.00005 %
Cd ..... 0.000005 %
Co ..... 0.000002 %
Cr ..... 0.000002 %
Cu ..... 0.000002 %

Fe ..... 0.00001 %
Mg ..... 0.00001 %
Mn ..... 0.000002 %
Ni ..... 0.000002 %
Pb ..... 0.00001 %
Zn ..... 0.00001 %

Code	Packaging
123542.1611	1000 ml

143542 Triethylamine pure

Specifications
Assay (G.C.) ..... min. 99 %
Boiling point ..... 88-89 °C

Refractive index (20 °C) 1.395-1.405
Water (K.F.) ..... max. 0.5 %

Code	Packaging
143542.1611	1 L
143542.3514	5 L

163542 Triethylamine, 99.5 % for synthesis

Specifications
Minimum assay (G.C.) ..... 99.5 %
Identity ..... IR passes test
Density 0.725-0.729

Non-volatile matter ..... 0.01 %
Water (H_2O) ..... 0.2 %

Code	Packaging
163542.1611	1000 ml
163542.0816	25 l

A3845 Triethylamine BioChemica

Specifications
Assay (G.C.) ..... min. 99 %
IR-Spectrum ..... passes test

Non-volatile matter ..... max. 0.005 %
Water (K.F.) ..... max. 0.2 %

Code	Packaging
A3845,9025	25 L

Triethylammonium Acetate buffer pH 7.0 (1 M)

$C_6H_{15}N \cdot CH_3COOH
M = 161.25 g/mol
CAS 5204-74-0
EINECS 225-995-0
CS 29211999

Density ..... 1.001 kg(l (20 °C)
Liquid

WGK 1
Storage RT

A3846 Triethylammonium acetate buffer pH 7.0 (1 M)

Purification of oligonucleotides

Specifications
Non-volatile matter ..... max. 0.01 %
pH 6.9-7.1

Code	Packaging
A3846,0500	500 ml
A3846,1000	1 L

Trifluoroacetic Acid

TFA

$C_2HF_3O_2
M = 114.02 g/mol
CAS 76-05-1
EINECS 200-929-3
CS 29159070
Index Nr. 607-091-00-1

Melting Point ..... -15 °C
Boiling Point ..... 72 °C
Density ..... 1.487-1.489 g/cm³
Liquid

UN2699
Class/PG 8/I
ADR 8/I · IMDG 8/I · IATA 8/I
WGK 2
Storage RT

Danger



H314 H332 H412

363317 Trifluoroacetic Acid for UV

Specifications
Minimum assay (Acidim.) ..... 99.8 %
Identity ..... IR passes test

Maximum limit of impurities
APHA colour 10
Non-volatile matter ..... 0.001 %
Water (H_2O) ..... 0.1 %

UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 260 nm (Cut off) ..... ≥ 10 %
Transmittance at 305 nm ..... ≥ 50 %
Transmittance at 320 nm ..... ≥ 80 %
Transmittance at 325-450 nm ..... ≥ 90 %
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
363317.1604	5 ml
363317.1605	10 ml
363317.1606	25 ml
363317.1608	100 ml
363317.1609	250 ml

163317 Trifluoroacetic Acid, 99 % for synthesis

Specifications
Minimum assay (Acidim.) ..... 99 %
Identity ..... IR passes test
Water (H_2O) ..... 0.1 %

Code	Packaging
163317.1608	100 ml
163317.1609	250 ml
163317.1610	500 ml
163317.1611	1000 ml

A0697 Trifluoroacetic acid BioChemica

Specifications
Assay (titr.) ..... min. 99.5 %
Water ..... max. 0.1 %
Chloride ..... max. 0.001 %

Fluoride ..... max. 0.005 %
Sulfate ..... max. 0.001 %

Code	Packaging
A0697,0100	100 ml
A0697,0250	250 ml

Trifluoroacetic Anhydride

TFAA

$C_4F_6O_3
M = 210.03 g/mol
CAS 407-25-0
EINECS 206-982-9
CS 29159070

Melting Point ..... -65 °C
Boiling Point ..... 40 °C
Density ..... 1.510 kg/l
Refractive Index n20/D 1.269
Liquid

UN1760
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 2
Storage RT

Danger



EUH014 H332 H314 H412

153316 Trifluoroacetic Anhydride, 99 % for synthesis

Specifications
Assay ..... 99 %
Identity ..... IR passes test

Code	Packaging
153316.1610	500 ml

2,2,2-Trifluoroethanol

b,b,b-Trifluoroethyl Alcohol

$C_2H_3F_3O
M = 100.04 g/mol
CAS 75-89-8
EINECS 200-913-6
CS 29055998

Melting Point ..... -43.5 °C
Boiling Point ..... 73 °C
Density ..... 1.390 kg/l
Refractive Index n20/D 1.2907
Liquid

UN1986
Class/PG 3(6.1)/III
ADR 3(6.1)/III · IMDG 3(6.1)/III · IATA 3(6.1)/III
WGK 1
Storage RT

Warning



H226 H302 H319 H335 H315

164527 2,2,2-Trifluoroethanol for synthesis

Specifications
Minimum assay (G.C.) ..... 99.8 %
Identity ..... IR passes test

Density 20/4 ..... 1.389-1.392
Water (H_2O) ..... 0.2 %

Code	Packaging
164527.1611	1000 ml
164527.1616	25 l

1,1,2-Trifluorotrichloroethane see 1,1,2-Trichlorotrifluoroethane

Trifoliin see Isoquercitrin

Trifolitin see Kaempferol

1,3,5-Trihydroxibenzene see Pyrogallol

Triiodomethane see Iodoform

HeBaPeaKTMB

2,2,4-Trimethylpentane see Isooctane

2,4,6-Trinitrophenol see Picric Acid saturated solution

2,4,6-Trinitrophenol - Solution, saturated see Picric Acid solution 1.2 %

2,3,5-Triphenyltetrazolium Cloride see Tetrazolium Red

Tris

2-Amino-2-Hydroxymethyl-1,3-Propanediol, THAM, Tromethamine, Tris base, Trometamol, Tris-(Hydroxymethyl)-Aminomethane

$C_4H_{11}NO_3$
M = 121.14 g/mol
CAS 77-86-1
EINECS 201-064-4
CS 29221985

Melting Point ..... 168-173 °C
Solubility ..... 800 g/L (H_2O)
Solid

WGK 2
Storage RT

Warning



H315 H319

131940 Tris for analysis, ACS

Specifications
Assay (Acidim.) (a.d.s.) ..... 99.8-100.1 %
Identity ..... IR passes test
pH sol. 0.05 mol/l 10.2-10.6
Melting range ..... 169-171 °C

Maximum limit of impurities
ABS at λ_{max} 290 nm 40 % sol. in water 0.2
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4) ..... 0.01 %
Chloride (Cl) ..... 0.0005 %
Water (H_2O) ..... 0.5 %
Heavy metals (as Pb) ..... 0.0005 %
As ..... 0.00005 %
Ca ..... 0.001 %
Cd ..... 0.0001 %
Co ..... 0.0001 %
Cr ..... 0.0001 %
Cu ..... 0.0002 %
Fe ..... 0.0005 %
K ..... 0.001 %
Mg ..... 0.001 %
Na ..... 0.001 %
Ni ..... 0.0005 %
Pb ..... 0.0002 %
Zn ..... 0.0002 %

Code	Packaging
131940.1209	250 g
131940.1211	1000 g

141940 Tris (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test
pH of 5 % solution 10.0-11.5
Melting range ..... 168-172 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.025 %
Loss on drying at 105 °C ..... 0.5 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.003 %
Related substances (T.L.C.) ..... passes test
Residual solvents (Ph. Eur./USP) ..... passes test
Methanol ..... 0.5 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0001 %
Fe ..... 0.001 %

Code	Packaging
141940.1209	250 g
141940.1211	1000 g
141940.0914	5 kg
141940.0415	10 Kg
141940.0416	25 kg

A2264 Tris for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 99.9 %
pH (1 M; H_2O; 20 °C) 10.5-11.5
Water ..... max. 0.2 %
Cu ..... max. 0.0001 %
Fe ..... max. 0.0001 %
Pb ..... max. 0.0001 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.03
280 nm ..... max. 0.02
430 nm ..... max. 0.004

Code	Packaging
A2264,0250	250 g
A2264,0500	500 g
A2264,1000	1 kg
A2264,5000	5 kg
A2264,9025BW	25 kg

A1086 Tris ultrapure

Specifications
Assay (titr.) ..... min. 99.9 %
pH (1 M; H_2O; 20 °C) 10.5-11.5
Water ..... max. 0.2 %
Cu ..... max. 0.0001 %
Fe ..... max. 0.0001 %
Pb ..... max. 0.0001 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.03
280 nm ..... max. 0.02
430 nm ..... max. 0.004

Code	Packaging
A1086,0500	500 g
A1086,1000	1 kg
A1086,5000	5 kg
A1086,9010	10 kg
A1086,9025	25 kg

A1379 Tris for buffer solutions

Specifications
Assay (titr.) ..... min. 99.3 %
Heavy metals (as Pb) ..... max. 0.001 %
pH (1 M; H_2O; 20 °C) 10.5-12.0
Water ..... max. 0.5 %

Code	Packaging
A1379,0500	500 g
A1379,1000	1 kg
A1379,5000	5 kg
A1379,9010	10 kg

Tris (2-Hydroxyethyl) Amine see Triethanolamine Hydrochloride

Tris Acetate

$C_4H_{11}NO_3 \cdot C_2H_4O_2$
M = 181.19 g/mol
CAS 6850-28-8
EINECS 229-939-6
CS 29221985

Melting Point ..... 120-121 °C
Solid

Storage RT

A2234 Tris Acetate for buffer solutions

Specifications
Assay (titr.) ..... min. 99 %
Loss on drying ..... max. 3 %
pH (0.5 M; H_2O; 20 °C) 6.0-7.0
Solubility (0.5 M; H_2O) ..... clear, colorless
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %
Cu ..... max. 0.0005 %
Fe ..... max. 0.0005 %
Pb ..... max. 0.0005 %

Code	Packaging
A2234,0250	250 g

HeBaPeakTMB

Tris buffer pH 6.8 (1 M)

CS 38220000 | Liquid | Storage RT

A4987 Tris buffer pH 6.8 (1 M)

Aqueous Solution

Specifications
pH (20 °C; adjusted with HCl) ..... 6.8 ± 0.2

Composition:
Tris ..... 121.14 g/L (1 M)

Code	Packaging
A4987,1000	1 L

Tris buffer pH 7.4 (1 M)

CS 38220000 | Liquid | Storage RT

A3981 Tris buffer pH 7.4 (1 M) for molecular biology

Aqueous Solution

Specifications
DNases/RNases/Proteases .....not detectable
pH (20 °C; adjusted with HCl) ..... 7.4 ± 0.1

Composition:
Tris ..... 121.14 g/L (1 M)

Code	Packaging
A3981,1000	1 L

Tris buffer pH 7.5 (1 M)

CS 38220000 | Liquid | Storage RT

A4263 Tris buffer pH 7.5 (1 M) for molecular biology

Aqueous Solution

Specifications
DNases/RNases/Proteases .....not detectable
pH (20 °C; adjusted with HCl) ..... 7.5 ± 0.2

Composition:
Tris ..... 121.14 g/L (1 M)

Code	Packaging
A4263,0500	500 ml

Tris buffer pH 8.0 (1 M)

CS 38220000 | Liquid | Storage RT

A4577 Tris buffer pH 8.0 (1 M) for molecular biology

Aqueous Solution

Specifications
DNases/RNases/Proteases ..... not detectable
pH (20 °C; adjusted with HCl) .....8.0 ± 0.1

Composition:
Tris .....121.14 g/L (1 M)

Code	Packaging
A4577,0500	500 ml
A4577,1000	1 L

Tris Buffered Saline (Powder) see TBS (Tris-buffered saline) (20X) - Powder

Tris Hydrochloride

2-Amino-2-Hydroxymethyl-1,3-Propanodiol Hydrochloride, Tromethamine Hydrochloride, Tris-(Hydroxymethyl)-Aminomethane Hydrochloride

$C_4H_{11}NO_3 \cdot HCl$
M = 157.60 g/mol
CAS 1185-53-1
EINECS 214-684-5
CS 29221985

Melting Point .....148-150 °C (dec.)
Solid

Storage RT

123654 Tris Hydrochloride for analysis

Specifications
Minimum assay (Perchl. Ac.) .....99 %
Identity .....IR passes test
pH of 5 % solution 3.5-5.0
Melting range ..... 150-152 °C

Maximum limit of impurities
ABS at λ_{max} 300 nm 10 % sol. in H_2O 0.02
ABS at λ_{max} 280 nm 10 % sol. in H_2O 0.05
ABS at λ_{max} 260 nm 10 % sol. in H_2O 0.05
ABS at λ_{max} 240 nm 10 % sol. in H_2O 0.1
Insoluble matter in H_2O ..... 0.01 %
Residue on ignition (as SO_4) ..... 0.02 %
Sulfate (SO_4) ..... 0.005 %
Water (H_2O) ..... 0.5 %
Heavy metals (as Pb) ..... 0.0002 %
Cd .....0.0005 %
Co .....0.0005 %
Cr .....0.0005 %
Cu .....0.0005 %
Fe .....0.0005 %
Ni .....0.0005 %
Pb .....0.0005 %
Zn .....0.0005 %

Code	Packaging
123654.1209	250 g

A3452 Tris Hydrochloride for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) .....min. 99 %
pH (0.5 M; H_2O) .....3.5-5.0 (25 °C)
Water .....max. 0.5 %
As ..... max. 0.0001 %
Ba ..... max. 0.0001 %
Cd ..... max. 0.0001 %
Cu ..... max. 0.0001 %
Fe ..... max. 0.0001 %
Mn ..... max. 0.0001 %
Pb ..... max. 0.0001 %
Zn ..... max. 0.0002 %
A (1 cm/1 M in H_2O)
260 nm ..... max. 0.06
280 nm ..... max. 0.05

Code	Packaging
A3452,0250	250 g
A3452,0500	500 g
A3452,1000	1 kg
A3452,5000	5 kg
A3452,9025	25 kg

A1087 Tris Hydrochloride for buffer solutions

Specifications
Assay (titr.) .....min. 99 %
Heavy metals (as Pb) .....max. 0.001 %
pH (0.5 M; H_2O; 25 °C) 3.5-5.0
Water .....max. 0.5 %

Code	Packaging
A1087,0250	250 g
A1087,0500	500 g
A1087,1000	1 kg
A1087,5000	5 kg
A1087,9025	25 kg

HeBaPeaKTMB

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Tris-(2-Carboxyethyl)-Phosphine Hydrochloride

TCEP · HCl

$C_9H_{16}ClO_6P$
M = 286.70 g/mol
CAS 51805-45-9
CS 29420000

Melting Point .....174-178 °C
Solid

UN3261
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage 2-8 °C

Danger



H314

A2233 Tris-(2-carboxyethyl)-phosphine hydrochloride BioChemica

Specifications
^{31}P-NMR .... complies to standard (min. 98 %)
Loss on drying .....max. 1 %

Code	Packaging
A2233,0001	1 g
A2233,0005	5 g
A2233,0050	50 g

Tris-Acetate-EDTA buffer see TAE buffer (50X)

Tris-Borate-EDTA buffer see TBE buffer (5X) powder

Tris-EDTA buffer see TE buffer (100X) pH 7.5

Tris-Glycine buffers

TG buffer

CS 38220000

Liquid

Storage RT

A1418 Tris-Glycine buffer (10X) BioChemica

Specifications
pH (20 °C) .....8.3 ± 0.2

Composition:
Glycine ..... 144.13 g/L (1.92 M)
Tris ..... 30.285 g/L (0.25 M)

Code	Packaging
A1418,1000	1 L

Tris-Phosphate-EDTA buffer see TPE buffer

Triton® X-100

mono[p-(1,1,3,3-Tetramethylbutyl)Phenyl] Polyethylene Glycol Ether, Polyethyleneglycol-mono-[p-(1,1,3,3-tetra methylbutyl)-phenyl]-ether, Octylphenol Decaethylene Glycol Ether, Octoxynol

$C_{34}H_{62}O_{11}$
M = 646.85 g/mol
CAS 9002-93-1
CS 34021300

Liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 1
Storage RT

Danger



H302 H318

142314 Triton® X 100 pure

® Registered trademark of Dow Chemical surfactant for automatical analysis

Specifications
Identity ..... IR passes test
Density 20/4 .....1.060-1.070

Code	Packaging
142314.1611	1000 ml
142314.1214	5 l

A4975 Triton® X-100 Molecular Biology grade

®trademark of Union Carbide Company

Specifications
DNases/RNases/Proteases .....not detectable
Heavy metals (as Pb) ..... max. 0.0005 %
Water .....max. 1 %

Chloride .....max. 0.005 %
Sulfate .....max. 0.005 %

Code	Packaging
A4975,0100	100 ml
A4975,0500	500 ml
A4975,1000	1 L
A4975,9025	25 L

A1388 Triton® X-100 BioChemica

®trademark of Union Carbide Company

Specifications
Heavy metals ..... max. 0.0005 %
Water .....max. 1 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %

Code	Packaging
A1388,0500	500 ml
A1388,1000	1 L
A1388,2500	2.5 L
A1388,9010	10 L

Triton® X-100 solution 10 % peroxide-free

CS 34021300

Liquid

WGK 1
Storage 2-8 °C
Storage protected from light
Storage under argon

Danger



H318

A1287 Triton® X-100 solution 10 % peroxide-free

®trademark of Union Carbide Company

Specifications
Peroxide (as H_2O_2) .....max. 0.0001 %

Code	Packaging
A1287,0100	100 ml

Triton® X-114

Alcylphenylpolyethylene Glycol, Octylphenol-polyethylene Glycolether

$C_{30}H_{54}O_9$
M = 558.75 g/mol
CAS 9036-19-5
EINECS 232-658-1
CS 34021300

Boiling Point ..... 177 °C
Liquid

UN3082
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Danger



H315 H318 H319 H335 H302

A3848 Triton® X-114 BioChemica

®trademark of Union Carbide Company

Specifications
Heavy metals ..... max. 0.0005 %
Water ..... max. 1 %
Chloride .....max. 0.005 %
Sulfate .....max. 0.005 %

Code	Packaging
A3848,1000	1 L

tRNA see Ribonucleic Acid from yeast

Tropaeolin D see Methyl Orange (C.I. 13025)

Trypan Blue (C.I. 23850)

4,4'-Bis-(8-Amino-3,6-Disulfo-1-Hydroxy- 2-Naphthylazo)-3,3'-Dimethylbiphenyl) Tetrasodium Salt, Direct Blue 14, Benzamine Blue

$C_{34}H_{24}N_6Na_4O_{14}S_4$
M = 960.82 g/mol
CAS 72-57-1
EINECS 200-786-7
CS 32041400

Solid

WGK 3
Storage RT

Danger



H350

A0668 Trypan Blue (C.I. 23850)

Specifications
λ_{max} (H_2O) ..... 590-600 nm
E 1 %/1 cm λ_{max}, 0.001 %, H_2O 650-820
Loss on drying .....max. 10 %

Code	Packaging
A0668,0010	10 g
A0668,0025	25 g

Trypsin 1 : 250 from porcine pancreas

Origin from porcine pancreas

CAS 9002-07-7
CS 35079090
Index Nr. 647-010-00-7

Solid

WGK 1
Storage -20 °C

Danger



H315 H319 H334 H335

A4148 Trypsin 1 : 250 from porcine pancreas

Specifications
Chymotrypsin Assay
(ATEE) .....min. 40 USP U/mg
Trypsin Assay (BAEE) .....min. 260 USP U/mg
Colony count (yeasts
& moulds) ..... max. 100 CFU/g
Loss on drying (4 h, 60 °C;
vacuum) ..... max. 2 %
pH (1 %; H_2O) ..... 3.0-6.0 (in suspension)
Total aerobic
microbial counts .....max. 10000 CFU/g

Code	Packaging
A4148,0025	25 g
A4148,0100	100 g
A4148,0500	500 g

Trypsin from bovine pancreas

Peptidyl peptide hydrolase

Origin from beef pancreas

M = 23800 daltons
CAS 9002-07-7
EINECS 232-650-8
CS 35079090
Index Nr. 647-010-00-7

Solid

WGK 1
Storage -20 °C

Danger



H315 H319 H334 H335

A3964 Trypsin from bovine pancreas

Supplied as salt-free, freeze-dried powder

Specifications
Activity (Chymotrypsin) per
2500 Trypsin Units ..... max. 50 U
Activity (Trypsin) ..... min. 2500 U/mg
Bacterial plate count ..... < 10000 organisms/g
P. aeruginosa, Salmonella,
Staphylococcus aureus ..... absent

Code	Packaging
A3964,0500	500 mg
A3964,0001	1 g
A3964,0005	5 g

AC-Trypsin solution

CS 35079090

Storage -20 °C

A8336 AC-Trypsin solution for cell culture

Specifications
.. Contains additives for enhanced cell viability
after trypsination
Suitable for sensitive cells
Crystalline Trypsin Solution (0.02 %)
Mycoplasma test ..... passes test
Osmolality ..... 280.0-310.0 mOsm/kg
pH 7.7-8.0
Sterility .....passes test
Trypsin .....0.2 mg/ml

Code	Packaging
A8336,0500	500 ml

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Trypsinogen

Origin from beef pancreas

M = 24000 daltons
CAS 9002-08-8
CS 35040090

Solid

Storage -20 °C

A4532 Trypsinogen

Supplied as freeze dried powder

Specifications
Native
Activity ..... < 10 % of the potential activity
Potential Activity ..... min. 2500 Units/mg

Code	Packaging
A4532,0001	1 g
A4532,0005	5 g

Tryptone see TBX Agar (ISO 16649-2,3:2000) (Dehydrated Culture Media) for microbiology

Tryptone

Peptone from casein (controlled enzymatic hydrolysis)

EINECS 293-428-4
CS 35040090

Solid

Storage RT

A1553 Tryptone BioChemica

Specifications
Ash ..... approx. 6 %
Loss on drying (6h; 105 °C) ..... max. 8 %
pH (5 %; H_2O; 25 °C) 6.5-7.5
Residue on ignition ..... max. 17 %
Total N ..... approx. 13 %

Code	Packaging
A1553,0250	250 g
A1553,0500	500 g
A1553,1000	1 kg

Tryptone Agar with bile salts see TBA Agar (ISO 9308-1:2000) (Prepared Plate (∅ 55mm)) for microbiology

Tryptone Broth see Peptone Water (Dehydrated Culture Media) for microbiology

Tryptone Soy Agar + Tween® + Lecithin see TSA-Tween®-Lecithin-Agar (Ph. Eur.) (Contact Plate) for microbiology

Tryptone Soya Agar

CASO Agar

CS 38220000

Solid

Storage RT

A5889 Tryptone Soya Agar

Specifications
pH before autoclaving ..... approx. 7.3 (25 °C)

Composition:
Agar ..... 15.0 g/L
Buffers ..... 2.5 g/L
Glucose ..... 2.5 g/L
Sodium Chloride ..... 5.0 g/L
Soya peptone ..... 3.0 g/L
Tryptone ..... 17.0 g/L

Code	Packaging
A5889,0500	500 g

Tryptone Soya Broth

CASO Broth

CS 38220000

Solid

Storage RT

A5895 Tryptone Soya Broth

Specifications
pH before autoclaving ..... approx. 7.3 (20 °C)

Composition:
Buffers ..... 2.5 g/L
Glucose ..... 2.5 g/L
Sodium Chloride ..... 5.0 g/L
Soya peptone ..... 3.0 g/L
Tryptone ..... 17.0 g/L

Code	Packaging
A5895,0500	500 g

Tryptone Water Broth see Peptone Water (Prepared Tubes) for microbiology

Tryptone, Bile, X-Glucuronide Agar see TBX Agar (ISO 16649-2,3:2000) (Prepared Plate (∅ 90 mm)) for microbiology

L-Tryptophan

L-2-Amino-3-(Indol-3)-Propionic Acid

$C_{11}H_{12}N_2O_2$
M = 204.23 g/mol
CAS 73-22-3
EINECS 200-795-6
CS 29339980

Melting Point ..... 290 °C
Solubility ..... 10 g/L (H_2O)
Solid

Storage RT

A3410 L-Tryptophan Cell culture grade

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... min. 99 %
α20 °C/D; 1 %, H_2O ..... -32.8 to -30°
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
As ..... max. 0.0001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A3410,0100	100 g
A3410,1000	1 kg

A3445 L-Tryptophan BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) ..... min. 99 %
α20 °C/D; 1 %, H_2O ..... -32.8 to -30°
Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %

Code	Packaging
A3445,0025	25 g
A3445,0100	100 g
A3445,5000	5 kg

A1645 L-Tryptophan (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 1 %, H_2O, calc on dried subst. ..... -33.0 to -30.0°
α25 °C/D; 1 %, H_2O ..... -32.8 to -29.4°
Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Impurity A and other related subst. ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.3 %
pH (1 %; H_2O; 20 °C) 5.5-7.0
Sulfated ash ..... max. 0.1 %
Ninhydrin positive substances ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.002 %

Code	Packaging
A1645,0025	25 g
A1645,0100	100 g
A1645,0500	500 g
A1645,1000	1 kg
A1645,9025	25 kg

Tryptose

CAS 73049-73-7
CS 35040090
Solid
Storage RT

A2235 Tryptose

Enzymatic digest of protein

Specifications
N (NH_2) ..... min. 3 %
Nitrogen ..... min. 11 %
pH (2 %; H_2O) ..... approx. 7.0
Residue on ignition ..... max. 22 %
Chloride ..... max. 6 %

Code	Packaging
A2235,1000	1 kg

Tryptose-Phosphat-Broth

CS 38210000
Storage 2-8 °C

A9609 Tryptose-Phosphat-Broth

Code	Packaging
A9609,9500	500 L

Tryptose-Sulfite-Cycloserine Agar see TSC Agar (ISO 7937) (Prepared Plate (∅ 55 mm)) for microbiology

TSA see Tryptone Soy Agar (TSA) (Ph. Eur.) (Dehydrated Culture Media) for microbiology

TSA-Polysorbate-Lecithin-Agar see TSA-Tween®-Lecithin-Agar (Ph. Eur.) (Prepared Plate (∅ 90 mm)) for microbiology

TSB see Tryptone Soy Broth (TSB) (Ph. Eur.) (Dehydrated Culture Media) for microbiology

TSI Agar see Triple Sugar Iron Agar (Dehydrated Culture Media) for microbiology

Tunicamycin

Origin from *Streptomyces lysosuperficus*

CAS 11089-65-9
CS 29419000
Melting Point ..... 234 °C
Solid
UN3462
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
WGK 3
Storage 2-8 °C
Storage protected from light

Danger



H300+H310+H330 H360FD

A2242 Tunicamycin

Specifications
Assay (HPLC) ..... min. 95 %

Code	Packaging
A2242,0005	5 mg
A2242,0010	10 mg

Türck's Liquor

CS 38220000
Density ..... 1.005 kg/l
Liquid
Storage RT

251390 Türck's Liquor for clinical diagnosis

For hematology, leucocytes

Composition:
Acetic Acid glacial ..... 1.5 ml
Methylene Blue ..... 1.3 mg
Water (s.q.m) ..... 100 ml

Code	Packaging
251390.1609	250 ml

Turpentine see Turpentine Oil

Turpentine Oil

Turpentine

CAS 8006-64-2
EINECS 232-350-7
CS 38051010
Index Nr. 650-002-00-6
Boiling Point ..... 150-167 °C
Density ..... 0.861 kg/l
Refractive Index n20/D 1.47
Liquid
UN1299
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
Storage RT

Danger



H226 H332 H312 H302 H319 H315 H317 H411 H304

211302 Turpentine Oil stabilized with 100 ppm of DL-alpha-Tocopherol technical grade

Specifications
Density 20/4 ..... 0.855-0.868

Code	Packaging
211302.0716	25 l

HeBaPeakTMB

Tween® 20

Polysorbate 20, Polyoxyethylene 20 Sorbitane mono-Laurate, Polysorbate 20

$C_{58}H_{114}O_{26}$
M = 1227.72 g/mol
CAS 9005-64-5
EINECS 500-018-3
CS 34021300

Boiling Point ..... > 100 °C
Solubility ..... 100 g/L (H_2O)
Liquid

WGK 1
Storage RT

142312 Tween® 20 (USP-NF, BP, Ph. Eur.) pure, pharma grade

® trademark of ICI

Specifications
Identity according to
Pharmacopoeias: ..... passes test

Maximum limit of impurities
Residue on ignition (as SO_4) ..... 0.2 %
Acidity value 2.0
Hydroxyl value 96-108
Iodine value 5

Peroxide value 10.0
Saponification value 40-50
Composition of fatty acids ..... passes test
Total ashes ..... 0.25 %
Residual solvents (Ph. Eur./USP) . passes test
Dioxan ..... 0.001 %
Ethylene Oxide ..... 0.0001 %
Reducing impurities ..... passes test
Water (H_2O) ..... 3.0 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm
As ..... 0.0001 %
VEGETABLE ORIGIN.

Code	Packaging
142312.1611	1000 ml
142312.1214	5 l
142312.0716	25 l

162312 Tween® 20 for synthesis

® trademark of ICI

Specifications
Hydroxyl value 96-108
Saponification value 40-50

Code	Packaging
162312.1611	1000 ml
162312.1214	5 l

A4974 Tween® 20 for molecular biology

®trademark of ICI

Specifications
DNases/RNases/Proteases ..... not detectable
Density (d 20 °C/4 °C) 1.095-1.105
Hydroxyl-No. ..... approx. 100
Saponification No. 40-50

Code	Packaging
A4974,0100	100 ml
A4974,0250	250 ml
A4974,0500	500 ml
A4974,1000	1 L

A1389 Tween® 20 BioChemica

®trademark of ICI

Specifications
Density (d 20 °C/4 °C) 1.095-1.105
Hydroxyl-No. ..... approx. 100
Saponification No. 40-50

Code	Packaging
A1389,0500	500 ml
A1389,1000	1 L
A1389,5000	5 L
A1389,9010	10 L

Tween® 20 solution 10 % peroxide-free

EINECS 500-018-3
CS 34021300

Liquid

WGK 1
Storage protected from light
Storage 2-8 °C
Storage under argon

A1284 Tween® 20 solution 10 % peroxide-free

®trademark of ICI

Specifications
Peroxide (as H_2O_2) ..... max. 0.0001 %

Code	Packaging
A1284,0050	50 ml
A1284,0100	100 ml

Tween® 80

Polysorbate 80, Polyoxyethylene Sorbitane mono-Oleate

M = 1310 g/mol
CAS 9005-65-6
EINECS 500-019-9
CS 34021300

Liquid

WGK 1
Storage RT

142050 Tween® 80 (USP-NF, BP, Ph. Eur.) pure, pharma grade

® trademark of ICI

Specifications
Identity according to
Pharmacopoeias: ..... passes test
Density 25/25 ..... 1.06-1.09
Viscosity 25 °C ..... 300-500 cSt

Maximum limit of impurities
Residue on ignition (as SO_4) ..... 0.2 %
Acidity value 2.0
Hydroxyl value 65-80
Iodine value 18-24

Peroxide value 10.0
Saponification value 45-55
Composition of fatty acids:
Total ashes ..... 0.25 %
Residual solvents (Ph. Eur./USP) . passes test
Myristic acid ..... 5.0 %
Palmitic Acid ..... 16.0 %
Palmitoleic acid ..... 8.0 %
Stearic acid ..... 6.0 %
Oleic acid ..... 58.0-85.0 %
Linoleic acid ..... 18.0 %
Linolenic acid ..... 4.0 %
Dioxan ..... 0.001 %

Ethylene Oxide ..... 0.0001 %
Reducing impurities ..... passes test
Water (H_2O) ..... 3.0 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1.300 ppm

Code	Packaging
142050.1610	500 ml
142050.1611	1000 ml
142050.1214	5 l

162050 Tween® 80 for synthesis

® trademark of ICI

Specifications
Hydroxyl value 65-80
Saponification value 45-55

Code	Packaging
162050.1611	1000 ml

A1390 Tween® 80 BioChemica

® trademark of ICI

Specifications
Appearance
(liquid) ..... yellowish, clear, oily
Density (d 20 °C/4 °C) 1.073-1.083

Hydroxyl-No. ..... approx. 75
Saponification No. 45-55

Code	Packaging
A1390,0500	500 ml
A1390,1000	1 L
A1390,9010	10 L

HeBaPeakTMB

L-Tyrosine

L-2-Amino-3-(4-Hydroxyphenyl)-Propionic Acid

$C_9H_{11}NO_3$
M = 181.19 g/mol
CAS 60-18-4
EINECS 200-460-4
CS 29225000

Solubility ..... 0.4 g/L (H_2O)
Solid

Storage RT

A3401 L-Tyrosine for cell culture

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) .....min. 99 %
α20 °C/D; 5 %, 1 N HCl, calc
on dried subst. .....-12.3 to -11.0°

Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %
As ..... max. 0.0001 %

Fe .....max. 0.001 %
Pb .....max. 0.001 %

Code	Packaging
A3401,1000	1 kg

A3437 L-Tyrosine BioChemica

• All amino acids are of non-animal origin

Specifications
Assay (titr.) .....min. 99 %
α20 °C/D; 5 %, 1 N HCl, calc
on dried subst. .....-12.3 to -11.0°

Heavy metals (as Pb) ..... max. 0.001 %
Insoluble matter ..... passes test
Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.1 %

Chloride .....max. 0.02 %
Sulfate .....max. 0.02 %

Code	Packaging
A3437,0100	100 g

A1677 L-Tyrosine (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc
on dried subst.) ..... 99.0-101.0 %
α20 °C/D; 5 %, 1 N HCl, calc
on dried subst. .....-12.3 to -11.0°
α25 °C/D; 5 %, 1 N HCl .....-11.2 to -9.8°

Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.3 %
Sulfated ash ..... max. 0.1 %
Ninhydrin positive substances ..... max. 0.5 %

Ammonium .....max. 0.02 %
Chloride .....max. 0.02 %
Sulfate .....max. 0.03 %
Fe .....max. 0.001 %

Code	Packaging
A1677,1000	1 kg

Umckalin

7-Hydroxy-5,6-Dimethoxycumarin

Origin from *Pelargonium sidoides*

$C_{11}H_{10}O_5$
M = 222.19 g/mol
CAS 43053-62-9
CS 29322985

Solid

Storage 2-8 °C

Warning



H302 H319

A7924 Umckalin for HPLC

Specifications
Assay .....min. 99 %

Code	Packaging
A7924,0010	10 mg
A7924,0020	20 mg

Universal Indicator of pH

CS 38220000

Density .....0.800 kg/l
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
WGK nwg
Storage RT

Danger



H225

281370 Universal Indicator of pH, solution for volumetric analysis

COLOUR RANGE ZONE: pH 1,0 red sherry; pH 2,0 pink; pH 3,0 red orange; pH 4,0 orange red; pH 5,0 orange; pH 6,0 yellow; pH 7,0 yellow green; pH 8,0 green; pH 9,0 green bluish; pH 10,0 blue

Composition:
p-Dimethylaminoazobenzene ..... 60 mg
Methyl Red ..... 40 mg
Bromothymol Blue ..... 80 mg
Thymol Blue ..... 100 mg

Phenolphtalein .....20 mg
Sodium Hydroxide 1 mol/l ..... 0.45 ml
Water ..... 4 ml
Ethanol absolute ..... 100 ml

Code	Packaging
281370.1208	100 ml

Universal Paper Reel pH 1-11 (gradation 1.0)

CS 38220000

Paper reel

WGK nwg
Storage RT

524150 Universal Paper Reel pH 1-11 (gradation 1.0)

Code	Packaging
524150.1825	Rolls

Universal Paper Reel pH 1-14 (gradation 1.0/2.0)

CS 38220000

paper

WGK nwg
Storage RT

524151 Universal Paper Reel pH 1-14 (gradation 1.0/2.0)

Code	Packaging
524151.1825	Rolls

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

Uracil

2,4-Dihydroxypyrimidine

$C_4H_4N_2O_2$
M = 112.09 g/mol
CAS 66-22-8
EINECS 200-621-9
CS 29335995

Melting Point ..... 335 °C
Solid

WGK 1
Storage RT

A0667 Uracil BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
E 1 %/1 cm, 260 nm; pH 7 717-732
Heavy metals ..... max. 0.002 %

Code	Packaging
A0667,0025	25 g
A0667,0100	100 g

Uracil-DNA Glycosylase (UDG)

Origin from *E. coli*
CS 39207990

Storage -20 °C

A5234 Uracil-DNA Glycosylase (UDG)

Specifications
Concentration ..... min. 10 KU/ml

Code	Packaging
A5234,0200	200 U

Uranine see Fluorescein Sodium (C.I. 45350)

Urea crystalline

Carbamide, Carbonyldiamide

NH_2CONH_2
M = 60.06 g/mol
CAS 57-13-6
EINECS 200-315-5
CS 31021010

Melting Point ..... 133 °C
Solubility ..... 1000 g/L (H_2O)
Solid

WGK 1
Storage RT

131754 Urea crystalline for analysis, ACS

Specifications
Assay (Perchl. Ac.) ..... 99.0-100.5 %
Identity ..... IR passes test
Melting range ..... 132-135 °C

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Residue on ignition (as SO_4) ..... 0.01 %
Chloride (Cl) ..... 0.0005 %
Sulfate (SO_4) ..... 0.001 %
Biuret ..... 0.1 %
Heavy metals (as Pb) ..... 0.001 %

Metals by ICP [in mg/Kg (ppm)]

Ag 2	Al 2	Cu 5	Fe 5
B 2	Ba 2	In 2	K 2
Be 2	Cd 5	Mg 2	Mn 5
Co 5	Cr 2	Mo 2	Ni 5
		Pb 5	Pt 2
		Si 2	Sn 2
		Sr 2	Ti 2
		Tl 2	V 2
		Zn 5	

Code	Packaging
131754.1210	500 g
131754.1211	1000 g
131754.0415	10 Kg
131754.0416	25 kg

191754 Urea crystalline (USP, BP, Ph. Eur.) pharma grade

Specifications
Assay (Deter. N) calc. a.d.s. ..... 99.5-100.5 %
Identity according to Pharmacopoeias: ..... passes test
Melting range ..... 132-134 °C

Maximum limit of impurities
Appearance of solution ..... passes test
Alkalinity ..... passes test
Insoluble matter in C_2H_5OH ..... 0.04 %
Loss on drying at 105 °C ..... 1.0 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.007 %
Ammonium (NH_4) ..... 0.05 %
Sulfate (SO_4) ..... 0.010 %
Residual solvents (Ph. Eur./USP) . passes test
Biuret ..... 0.1 %
Heavy metals (as Pb) ..... 0.001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
Class 3 (Fe, Zn) ..... 1,300 ppm

Code	Packaging
191754.1211	1000 g
191754.0416	25 kg

A8113 Urea crystalline Molecular biology grade

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (from N) ..... min. 99.5 %
Heavy metals (as Pb) ..... max. 0.001 %
pH (8 M; H_2O; 20 °C) 7.5-10.5
Chloride ..... max. 0.0005 %
Sulfate ..... max. 0.001 %
Fe ..... max. 0.0005 %

Code	Packaging
A8113,1000	1 kg
A8113,5000	5 kg

Urea (Pellets)

Carbamide, Carbonyldiamide

NH_2CONH_2
M = 60.06 g/mol
CAS 57-13-6
EINECS 200-315-5
CS 31021010

Melting Point ..... 132-135 °C
Solubility ..... 1000 g/L (H_2O)
Solid

WGK 1
Storage RT

146392 Urea pearls pure

Specifications
Assay (Perchl. Ac.) ..... 98.5 %
Identity ..... IR passes test
Insoluble matter in H_2O ..... 0.02 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Cu ..... 0.001 %
Fe ..... 0.001 %
Ni ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
146392.1211	1000 g
146392.0914	5 kg
146392.0416	25 kg

216392 Urea technical grade

Specifications
Assay (from N) ..... min. 98 %

Code	Packaging
216392.0914	5 kg

HeBaPeaKTMB

A1049 Urea for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (from N) ..... min. 99.0 %
Heavy metals (as Pb) ..... max. 0.001 %
pH (8 M; H_2O; 20 °C) 7.5-10.5
Chloride ..... max. 0.0005 %
Sulfate ..... max. 0.001 %
Fe ..... max. 0.0005 %

Code	Packaging
A1049,0500	500 g
A1049,1000	1 kg
A1049,5000	5 kg
A1049,9025	25 kg

A1360 Urea BioChemica

Specifications
Assay (from N) ..... min. 99 %
Heavy metals (as Pb) ..... max. 0.001 %
Loss on drying ..... max. 0.5 %
Chloride ..... max. 0.005 %
Sulfate ..... max. 0.005 %
Fe ..... max. 0.001 %
A (1 cm/8 M in H_2O)
260 nm ..... max. 0.05
280 nm ..... max. 0.02

Code	Packaging
A1360,1000	1 kg
A1360,5000	5 kg
A1360,9010	10 kg

Uric Acid

2,6,8-Trihydroxypurine

$C_5H_4N_4O_3$
M = 168.11 g/mol
CAS 69-93-2
EINECS 200-720-7
CS 29335995
Melting Point ..... > 300 °C
Solid
WGK 1
Storage RT

A2562 Uric Acid BioChemica

Specifications
Assay (HPLC) ..... min. 98 %
λ_{max} (in 1 M NaOH) ..... 293-297 nm
Loss on drying ..... max. 0.5 %

Code	Packaging
A2562,0100	100 g

Uridine

Uracil-1-β-D-Ribofuranoside

$C_9H_{12}N_2O_6$
M = 244.20 g/mol
CAS 58-96-8
EINECS 200-407-5
CS 29349990
Solid
Storage RT

A0666 Uridine BioChemica

Specifications
Assay (HPLC) ..... min. 99 %
Heavy metals ..... max. 0.001 %

Code	Packaging
A0666,0025	25 g
A0666,0100	100 g
A0666,1000	1 kg
A0666,5000	5 kg

Uridine 5'-Triphosphoric Acid Trisodium Salt hydrate

UTP-Na_3

$C_9H_{12}N_2Na_3O_{15}P_3 \cdot xH_2O$
M = 550.09 g/mol
CAS 19817-92-6
EINECS 243-347-5
CS 29349990
Solid
WGK 1
Storage -20 °C

A2237 Uridine 5'-Triphosphoric Acid Trisodium Salt hydrate BioChemica

Specifications
Assay (HPLC) ..... min. 97 %
Heavy metals ..... max. 0.001 %
Water ..... max. 15 %

Code	Packaging
A2237,0001	1 g

Urobilinogen

$C_{33}H_{42\text{-}50}N_4O_6$
M = 590.7-598.8 g/mol
CAS 14684-37-8
CS 29339980
Liquid
WGK 1
Storage -20 °C
Storage under argon

A1536 Urobilinogen

Aqueous solution

Specifications
Assay ..... 25 g/L
4 ml contain ..... 100 mg
pH (20 °C) ..... 13.2 ± 0.2
Bilirubin ..... max. 1 %

Code	Packaging
A1536,0100	4 ml
A1536,0025	25 g
A1536,0001	40 ml

Urobilinogen (powder)

$C_{33}H_{42\text{-}50}N_4O_6$
M = 590.7-598.8 g/mol
CAS 14684-37-8
CS 29339980
Solid
Storage -20 °C

A9540 Urobilinogen (powder)

Code	Packaging
A9540,9005	5 g

Urotropine see **Hexamethylenetetramine**

UTP-Na$_3$ see **Uridine 5'-Triphosphoric Acid Trisodium Salt hydrate**

НевАреактив

DL-Valine

2-Amino-3-Methylbutyric Acid, D,L-Val

$C_5H_{11}NO_2$
M = 117.14 g/mol
CAS 516-06-3
EINECS 208-220-0
CS 29224200

Melting Point ..... 283-285 °C
Solubility ..... in water at 20 °C

Storage RT

14A315 DL-Valine pure

Specifications
Assay (Perchl. Ac.) ..... 99 %
Identity ..... IR passes test
Loss on drying ..... 0.5 %

Chloride (Cl) ..... 0.02 %
Ammonium (NH_4) ..... 0.02 %
Sulfate (SO_4) ..... 0.05 %
Ninhydrin positive substances ..... 0.5 %

Fe ..... 0.001 %
Heavy metals (as Pb) ..... 0.001 %

Code	Packaging
14A315.0912	2,5 kg

L-Valine

L-2-Amino-iso-Valeric Acid, L-2-Amino-3-Methylbutanoic Acid

$C_5H_{11}NO_2$
M = 117.15 g/mol
CAS 72-18-4
EINECS 200-773-6
CS 29224985

Solubility ..... 85 g/L (H_2O)
Solid

WGK nwg
Storage RT

A3406 L-Valine Cell culture grade

• All amino acids are of non-animal origin

Specifications
Pyrogen test ..... passes test
Assay (titr.) ..... min. 99 %
α20 °C/D; 8 %, 6 M HCl ..... 26.6-28.8°

Other amino acids ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.02 %

As ..... max. 0.0001 %
Fe ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A3406,1000	1 kg

A1637 L-Valine (Ph. Eur., USP) pure, pharma grade

• All amino acids are of non-animal origin

Specifications
Assay (titr., calc on dried subst.) ..... 98.5-101.0 %
α20 °C/D; 8 %, 250 g/L HCl, calc on dried subst. ..... 26.5-29.0°
α25 °C/D; 8 %, 6 M HCl ..... 26.6-28.8°

Appearance of solution ..... passes test
Heavy metals (as Pb) ..... max. 0.001 %
Identity ..... passes test
Loss on drying (3 h; 105 °C) ..... max. 0.3 %
pH (5 %; H_2O) 5.5-7.0
Sulfated ash ..... max. 0.1 %

Ninhydrin positive substances ..... max. 0.5 %
Ammonium ..... max. 0.02 %
Chloride ..... max. 0.02 %
Sulfate ..... max. 0.03 %
Fe ..... max. 0.001 %

Code	Packaging
A1637,1000	1 kg
A1637,9025	25 kg

Valinomycin

$C_{54}H_{90}N_6O_{18}$
M = 1111.34 g/mol
CAS 2001-95-8
EINECS 217-896-6
CS 29419000

Melting Point ..... 186-189 °C
Solid

UN2811
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 3
Storage 2-8 °C

Danger



H300+H310

A2238 Valinomycin BioChemica

Specifications
Assay (HPLC) ..... min. 90 %
α20 °C/D; 1.6 %, Benzene ..... 30-32°

Identity (IR) ..... passes test
Melting point ..... 187-191 °C

Code	Packaging
A2238,0100	100 mg

Vanadate-Molybdate Reagent

CS 28070000

Density ..... 1.149 kg/l
Liquid

UN1760
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
Storage RT

Danger



H314

173333 Vanadate-Molybdate Reagent

for determination of phosphates

Composition:
Ammonium Molybdate 4-hydrate ..... 2.97 g
Ammonium meta-Vanadate ..... 0.15 g

Sulfuric Acid 96 % ..... 14.2 ml
Water (s.q.m) ..... 100 ml

Code	Packaging
173333.1211	1000 ml

Vancomycin Hydrochloride

$C_{66}H_{75}Cl_2N_9O_{24} \cdot HCl$
M = 1485.73 g/mol
CAS 1404-93-9
CS 29419000

Solid

Storage RT

Warning



H317

A1839 Vancomycin Hydrochloride BioChemica

Specifications
Vancomycin B (HPLC) ..... min. 93 %
Activity ..... min. 1050 I.U./mg
Heavy metals ..... max. 0.003 %

pH (5 %; H_2O) 2.5-4.5
Water ..... max. 5 %

Code	Packaging
A1839,0250	250 mg
A1839,0001	1 g
A1839,0005	5 g

A6338 Vancomycin Hydrochloride (Ph. Eur.) pure, pharma grade

Specifications
Vancomycin (HPLC) ..... min. 93.0 %
Activity (dried ...) ..... min. 1050 I.U./mg
Appearance of solu... ..... passes test
Heavy metals (as Pb) ..... max. 0.003 %
Identity ..... passes test

pH (5 %; H_2O) 2.5-4.5
Related subst. (HPLC) ..... passes test
Sulfated ash ..... max. 1.0 %
Water (K.F.) ..... max. 5.0 %

Code	Packaging
A6338,0001	1 g

Vanillin

3-Methoxy-4-Hydroxybenzaldehyde, 4-Hydroxy-3-Methoxybenzaldehyde

$C_8H_8O_3$
M = 152.15 g/mol
CAS 121-33-5
EINECS 204-465-2
CS 29124100

Melting Point ..... 81 °C
Boiling Point .....154 °C 13 hPa
Solubility ..... water 10 g/l at 20 °C
Solid

WGK 1
Storage away from direct light.

Warning



H319

142048 Vanillin (USP-NF, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Acidim.) calc. a.d.s. ..... 99.0-101.0 %
Identity according to
Pharmacopoeias: ..... passes test
Melting range ..... 81-83 °C
T.L.C. ..... passes test

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in C_2H_5OH ..... passes test
Darkened substances by H_2SO_4 ... passes test
Loss on drying ..... 1.0 %
Residue on ignition (as SO_4) ..... 0.05 %
Residual solvents (Ph. Eur./USP) . passes test

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
As .....0.0001 %

Code	Packaging
142048.1208	100 g
142048.1210	500 g

Vaseline Oil see Light liquid Paraffin d(20/4)= 0,845

Vaseline Oil d(20/4)= 0.87

Liquid Paraffin, Mineral Oil, Paraffin Oil

CAS 8012-95-1
EINECS 232-384-2
CS 27101985

Melting Point ..... -24 °C
Boiling Point .....300 °C 1,000 hPa
Density .....0.880 kg/l
Refractive Index n20/D 1.479
Liquid

WGK 2
Storage away from direct light.

331003 Vaseline Oil for IR

Specifications
Suitability: for IR spectrometry ..... passes test

Code	Packaging
331003.1609	250 ml

141003 Vaseline Oil (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to
Pharmacopoeias: ..... passes test
Density 20/20 ..... 0.827-0.890
Density 25/25 ..... 0.845-0.905
Viscosity dynamic at
19.9-20.1 °C ..... 110-230 mPas

Viscosity kinematic
39.9-40.1 °C 34,5-150,0 mm2/s

Maximum limit of impurities
Acidity or alkalinity ..... passes test
Darkened substances by H_2SO_4 ... passes test
Sulfur compounds ..... passes test
Solid Paraffin ..... passes test

Residual solvents (Ph. Eur./USP) .passes test
Polynuclear Hydrocarbons .....passes test
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
141003.1209	250 ml
141003.1211	1000 ml
141003.1212	2.5 l
141003.1214	5 l
141003.0716	25 l

201003 Vaseline Oil (F.C.C.) food grade

Specifications
Viscosity kinematic, not less
than at 100 °C .....3 cSt

Specific gravity at 25/25 .....0.845-0.890
Easily carbonizable substances .... passes test
Polynuclear Hydrocarbons ..... passes test

Lead, not more than .....1 ppm
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201003.1214	5 l

Vaseline Soft

White Petrolatum

CAS 8009-03-8
EINECS 295-456-2
CS 27121090

Melting Point .....38-60 °C
Solubility ..... Insoluble in water
Refractive Index n60/D 1.460-1.474
Solid

WGK 3
Storage RT

211757 Vaseline Soft technical grade

for lubricating glass joints

Specifications
Identity .....IR passes test
Suspension matter ..... passes test

Fatty acids, waxes and resins ..... passes test
Free acids ..... passes test

Code	Packaging
211757.1209	250 g
211757.1211	1000 g
211757.0914	5 kg

Vebascoside see Acteoside

Vermiculite Granulate

CS 38220000

Solid

Storage RT

217059 Vermiculite Granulate technical grade

Specifications
Properties
pure natural product

harmless for humans and animals
outstanding absorbtion of liquids
almost dustless

Code	Packaging
217059.0715	10 kg

Printed on FSC® certified paper from well managed forests

НеваРеактив

ε-Viniferin

(-)-ε-Viniferin, trans-epsilon-Viniferin

Origin from *Vitis vinifera*

$C_{28}H_{22}O_6$
M = 454.48 g/mol
CAS 62218-08-0
CS 29322090

Storage 2-8 °C

Warning



H319

A9584 ε-Viniferin for HPLC

Specifications
Assay .....min. 98 %

Code	Packaging
A9584,0020	20 mg
A9584,0050	50 mg

Violet Red Bile Glucose Agar

CS 38220000

Solid

Storage RT

A8194 Violet Red Bile Glucose Agar (Ph. Eur.), pharma grade

Specifications
pH before autoclaving ..... approx. 7.4 (20 °C)

Composition:
Agar ..... 15.0 g/L
Bile salts ..... 1.5 g/L
Crystal Violet ..... 0.002 g/L
Glucose 1-hydrate ..... 10.0 g/L
Neutral Red .....0.03 g/L
Pancreatic digest of gelatin .....7.0 g/L
Sodium Chloride .....5.0 g/L
Yeast extract .....3.0 g/L

Code	Packaging
A8194,0500	500 g

Vitamin A Acetate

Retinyl acetate

$C_{22}H_{32}O_2$
M = 328.50 g/mol
CAS 127-47-9
EINECS 204-844-1
CS 29362100

Liquid

WGK 1
Storage 2-8 °C
Storage protected from light
Storage under argon

Warning



H315 H361

A2094 Vitamin A acetate

oily concentrate

Specifications
Activity .....min. 1350 U/mg

Code	Packaging
A2094,0010	10 g

Vitamin A Acid see Retinoic

Vitamin B see Nicotinic Acid

Vitamin B see Thiamin Hydrochloride

Vitamin B see Riboflavin

Vitamin B see Pyridoxine Hydrochloride

Vitamin B see Folic Acid

Vitamin B see Folic Acid

Vitamin B12

Cyanocobalamin

$C_{63}H_{88}CoN_{14}O_{14}P$
M = 1355.39 g/mol
CAS 68-19-9
EINECS 200-680-0
CS 29362600

Solid

WGK 1
Storage 2-8 °C
Storage protected from light

A8454 Vitamin B_{12} (Ph. Eur.) pure, pharma grade

Specifications
Assay (UV, calc on dried subst.) ..... 96.0-102.0 %
Absorption maxima (278, 361, 547-559 nm) ..... passes test
Identity ..... passes test
Loss on drying (2 h; 105 °C; vacuum) ..... max. 12 %
Related subst. (HPLC) ..... passes test
A (1 cm/0,0025 %, H_2O)
361 nm/547-559 nm 3.15-3.45
361/278 nm 1.70-1.90

Code	Packaging
A8454,0001	1 g
A8454,0025	25 g
A8454,9100	100 g
A8454,9500	500 g

A2090 Vitamin B_{12}

Specifications
Assay (UV) .....min. 97 %
Loss on drying .....max. 3 %

Code	Packaging
A2090,0001	1 g
A2090,0005	5 g
A2090,0050	50 g

Vitamin C see L(+)-Ascorbic Acid

Vitamin D2

Calciferol, Ergocalciferol

$C_{28}H_{44}O$
M = 396.66 g/mol
CAS 50-14-6
EINECS 200-014-9
CS 29362900
Index Nr. 603-179-00-9

Melting Point ..... 114-116 °C
Solid

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
WGK 3*
Storage 2-8 °C
Storage protected from light

Danger



H301+H311 H330 H372

A2089 Vitamin D_2

• May darken in storage

Specifications
Assay (HPLC) ..... min. 98 %
α20 °C/D; 4 %, EtOH ..... 102-106°

Code	Packaging
A2089,0005	5 g

Vitamin E alcohol see DL-α-Tocopherol

Vitamin G see Riboflavin

Vitamin H see D(+)-Biotin

Vitamin H see 4-Aminobenzoic Acid

Vitamin K see Menadione

Vitamin M see Folic Acid

Vitamin PP see Nicotinamide

Vitexicarpin see Casticin

Vitexin

8-Glucopyranosylapigenin, Orientosid

Origin from *Crataegus monogyna*

$C_{21}H_{20}O_{10}$
M = 432.38 g/mol
CAS 3681-93-4
CS 29420000

Solid

Storage 2-8 °C

A3394 Vitexin for HPLC

Specifications
Assay ..... min. 99 %

Code	Packaging
A3394,0010	10 mg

Vomitoxin see Deoxynivalenol

VRBG Agar see Violet Red Bile Glucose Agar (VRBG) (Ph. Eur.) ($ISO_2$1528) (Dehydrated Culture Media) for microbiology

Water

Hydrogen Oxide

H_2O
M = 18.01 g/mol
CAS 7732-18-5
EINECS 231-791-2
CS 28530010

Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density ..... 1.00 kg/l (20 °C)
Liquid

Storage RT

701074 Water for LC-MS

Specifications
Suitability: for LC-MS ..... passes test

Maximum limit of impurities
Non-volatile matter ..... 0.0001 %
Chloride (Cl) ..... 0.000001 %
Sulfate (SO_4) ..... 0.00001 %
Specific conductance at 25 °C (Measured during production) ..... 1.0 x 10-6 ohm-1 cm-1
Fluoride (F) ..... 0.000001 %
Nitrate (NO_3) ..... 0.00001 %
Gradient at 210 nm ..... 5 mUA
Gradient at 254 nm ..... 0.5 mUA
Fluorescence at 254 nm (as quinine) .... 1 ppb
Fluorescence at 365 nm (as quinine) ..... 0.5 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 200 nm ..... ≥ 98 %
Transmittance at 210 nm ..... ≥ 98 %
Transmittance at 254 nm ..... ≥ 99 %
Transmittance at 300-450 nm ..... ≥ 99 %

Metals by ICP [in mg/Kg (ppm)]

Ba	0.1	Ca	0.1
Cd	0.05	Co	0.02
Cr	0.02	Cu	0.02
Fe	0.1	K	0.1
Mg	0.1	Mn	0.02
Na	0.1	Ni	0.02
Pb	0.1	Sn	0.1
Zn	0.1		

Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
701074.1611	1000 ml
701074.1612	2.5 l

221074 Water for UHPLC Supergradient

Maximum limit of impurities
Non-volatile matter ..... 0.0001 %
Specific conductance at 25 °C (Measured during production) ..... 1.0 x 10-6 ohm-1 cm-1
Colony count ..... 25 ufc/ml
Suitability for gradient according to ACS ..... passes test
Gradient at 210 nm ..... 5 mUA
Gradient at 254 nm ..... 0.5 mUA
Fluorescence at 254 nm (as quinine) .... 1 ppb
Fluorescence at 365 nm (as quinine) ..... 0.5 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 200 nm ..... ≥ 98 %
Transmittance at 210 nm ..... ≥ 98 %
Transmittance at 254 nm ..... ≥ 98 %
Transmittance at 300-450 nm ..... ≥ 99 %
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
221074.1611	1000 ml
221074.1612	2,5 l

361074 Water for UV, HPLC, ACS

Specifications
Suitability: for gradient acc. to ACS ..... passes

Maximum limit of impurities
Non-volatile matter ..... 0.0003 %
Reducing substance to $KMnO_4$ .... passes test
Specific conductance at 25 °C (Measured during production) 1.0x10-6 ohm-1 cm-1
Fluorescence at 254 nm (as quinine) .... 1 ppb
Fluorescence at 365 nm (as quinine) ..... 0.5 ppb
UV Spectrum (1 cm cell; Ref.: water):
Transmittance at 200 nm ..... ≥ 98 %
Transmittance at 210 nm ..... ≥ 98 %
Transmittance at 254 nm ..... ≥ 99 %
Transmittance at 300-450 nm ..... ≥ 99 %
Data of interest in HPLC:
Rohrschneider Polarity 10.2
For critical jobs, purge with nitrogen.
Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.

Code	Packaging
361074.1611	1000 ml
361074.1612	2.5 l

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

HeBaPeaKTMB

711074 Water for trace metal analysis (ppt)

Maximum limit of impurities
APHA colour 10
Chloride (Cl) .....1 ppb
Phosphate (PO_4) .....1 ppb
Sulfate (SO_4) .....1 ppb

Metals by ICP (in ppt)
Ag..... 10 Al..... 20 As.....10 B .....20 Be .....10 Ca .....10 Ce .....10 Cr.....10 Cu .....10 Er .....1 Au .....10 Ba .....10 Bi .....10 Cd .....10 Co .....10 Cs .....10 Dy .....1 Eu .....1 Fe..... 10 Gd ..... 1 Hf..... 1 Ho..... 1 K..... 10 Li ..... 10 Mg ..... 10 Mo ..... 10 Ga ..... 10 Ge ..... 10 Hg ..... 20 In..... 1 La..... 1 Lu..... 1 Mn..... 10 Na 10

Code	Packaging
711074.0011	1000 ml

131074 Water for analysis, ACS

Specifications
pH 5-8

Maximum limit of impurities
ABS in water, 1 cm λ_{max} 254 nm 0.01
Non-volatile matter ..... 0.0001 %
Reducing substance to $KMnO_4$ .... passes test
Residue on ignition ..... 0.0002 %
Chloride (Cl) ..... 0.00001 %
Ammonium (NH_4) ..... 0.000001 %
Phosphate (PO_4) ..... 0.000005 %
Sulfate (SO_4) .....0.0001 %
Silicate SiO_2 .....0.000001 %
Specific conductance at 25 °C (Measured during production) 1.0x10-6 ohm-1 cm-1
Nitrate (NO_3) .....0.00002 %
Heavy metals (as Pb) .....0.000001 %

Metals by ICP [in mg/Kg (ppm)]
Ag .....0.01 As.....0.05 B .....0.01 Al .....0.02 Au .....0.01 Ba .....0.01 Be..... 0.02 Ca..... 0.1 Co..... 0.01 Cu..... 0.01 Ga ..... 0.01 Hg..... 0.05 K..... 0.05 Mg ..... 0.05 Mo ..... 0.01 Ni..... 0.01 Bi..... 0.01 Cd ..... 0.01 Cr ..... 0.01 Fe..... 0.01 Ge ..... 0.01 In..... 0.01 Li ..... 0.02 Mn..... 0.01 Na 0.1

Code	Packaging
131074.1211	1000 ml
131074.1212	2.5 l
131074.1214	5 l
131074.1315	10 l
131074.0716	25 l
131074.0718	60 l
131074.0719	200 l

141074 Purified Water (BP, Ph. Eur.) pure, pharma grade

Maximum limit of impurities
Appearance ..... passes test
Acidity or alkalinity ..... passes test
Non-volatile matter ..... 0.001 %
Chloride (Cl) ..... passes test
Ammonium (NH_4) ..... 0.00002 %
Sulfate (SO_4) ..... passes test
Conductivity at 20 °C (measured during production) 4.3 uS.cm-1
Oxidisable substances ..... passes test
Residual solvents (Ph. Eur.) ..... passes test
Calcium and Magnesium ..... passes test
Nitrate (NO_3) .....0.00002 %
Total aerobic microbial count (TAMC) ..... 100 cfu /g
Microbial contamination: ..... 100 cfu /g
Heavy metals (as Pb) .....0.00001 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1,300 ppm
Al ..... 0.000001 %

Code	Packaging
141074.1315	10 l

211074 Water bidistilled technical grade

Sterility not tested!

• Manufactured by reverse osmosis. Comparable to 2 times destilled water

Specifications
Conductivity ..... max. 5.0 µS/cm

Code	Packaging
211074.1211	1 L
211074.1214	5 L
211074.0715	10 L
211074.0716	25 L

A7398 Water for molecular biology

Specifications
DNases/RNases/Proteases .....not detectable

Code	Packaging
A7398,0500	500 ml
A7398,1000	1 L

A8510 Water PCR tested, DNA free, for molecular biology,

Specifications
Bacterial
DNA .....not detectable (min. 40 PCR cycles)
DNases/RNases .....not detectable

Code	Packaging
A8510,1017	10 x 1,7 ml

A4149 Water for cell culture

Specifications
Pyrogen test ..... passes test
Acidic/alkaline react. subst. ..... passes test
Heavy metals (as Pb) ..... max. 0.00001 %
Non-volatile matter ..... max. 0.001 %
Oxidizable substances ..... passes test
pH 5-7
Sterility ..... passes test
Chloride ..... passes test
NH_4 ..... max. 0.00002 %
Nitrate ..... max. 0.00002 %
Sulfate ..... passes test
Al ..... max. 0.000001 %
Ca, Mg ..... passes test

Code	Packaging
A4149,1000	1 L

A4042 Water bidistilled, sterile

Specifications
Sterility ..... passes test

Code	Packaging
A4042,0500	500 ml
A4042,1000	1 L

Water bath disinfection see AppliClear-Water

Water Blue see Aniline Blue WS (C.I. 42755)

Water Deionized

Hydrogen Oxide

H_2O
M = 18.016 g/mol
CAS 7732-18-5
EINECS 231-791-2
CS 28530010
Melting Point ..... 0 °C
Boiling Point ..... 100 °C
Density .....1.000 kg/l
Solubility .....soluble in ethanol
Liquid
WGK nwg
Storage RT

212236 Water Deionized technical grade

Specifications
Chloride (Cl) ..... 0.005 %
Phosphate (PO_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.005 %

Code	Packaging
212236.1214	5 l
212236.0715	10 l
212236.0716	25 l

Weigert's Hematoxylin solution A

CS 32030010

Density .....0.812 kg/l
Liquid

UN1993
Class/PG 3/II
ADR 3/II · IMDG 3/II · IATA 3/II
Storage RT

Danger



H225

253453 Weigert's Hematoxylin solution A for clinical diagnosis

for microscopy

Composition:
Hematoxylin ..... 1 g
Ethanol absolute .....100 ml
Identity .....passes test

Code	Packaging
253453.1210	500 ml

Weigert's Hematoxylin solution B

CS 32030010

Density .....1.013 kg/l
Liquid

Storage RT

253454 Weigert's Hematoxylin solution B for clinical diagnosis

for microscopy

Composition:
Iron(III) Chloride 30 % aqueous solution. .....4 ml
Hydrochloric Acid 35 % ..... 1 ml
Water (s.q.m) .....100 ml
Identity .....passes test

Code	Packaging
253454.1210	500 ml

White Petrolatum see Vaseline Soft

White Spirit

CAS 8052-41-3
EINECS 232-455-8
CS 27101221

Boiling Point .....150-196 °C
Density .....0.780 kg/l
Refractive Index n20/D 1.435
Liquid

UN1300
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
Storage RT

Warning



H226 H332 H312 H302

163410 White Spirit for synthesis

Specifications
Density 20/4 ..... 0.770-0.800

Acidity ..... 0.0002 meq/g
Water (H_2O) ..... 0.05 %

Code	Packaging
163410.1714	5 l

Wide Spectrum Microtablets I

CS 38220000

Solubility ..... Soluble in water.

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage RT

Danger



H312 H302 H335 H315 H318 H410

174748 Wide Spectrum Microtablets I

for preserving milk samples. Tablets of 18 mg

Composition:
2-Bromo-2-Nitro-1,3-Propanediol ..... 10 mg
Natamycin ..... 0.45 mg
pH chromatic indicator .....0.5 mg
Excipient .....7.05 mg

Code	Packaging
174748.1260	90 g

Wide Spectrum Microtablets II

CS 38220000

UN2811
Class/PG 6.1/III
ADR 6.1/III · IMDG 6.1/III · IATA 6.1/III
Storage RT

Danger



H312 H302 H335 H315 H318 H410

175387 Wide Spectrum Microtablets II

for preserving milk samples. Tablets of 18 mg

Composition:
2-Bromo-2-Nitro-1,3-Propanediol ..... 9.85 mg
Natamycin ..... 0.9 mg
Sodium Chloride ..... 6.21 mg
Magnesium Stearate .....0.36 mg
Lactose 1-hydrate .....0.18 mg
Sunset Yellow .....0.5 mg

Code	Packaging
175387.1260	90 g

Wieninger's Reagent see Kjeldahl Catalyst (Cu-Se) powder

Wijs Chloride see Iodine mono-Chloride

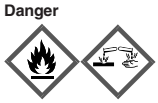
Wijs' Reagent 0.1 mol/l (0.2N).

CS 38220000

Density .....1.063 kg/l
Liquid

UN2920
Class/PG 8(3)/II
ADR 8(3)/II · IMDG 8(3)/II · IATA 8(3)/II
Storage RT

Danger



H226 H314

281590 Wijs' Reagent 0.1 mol/l (0.2N) for volumetric analysis

for determination of iodine index

Composition:
Iodine mono-Chloride ..... 1.8 g
Acetic Acid glacial s.q.m ..... 100 ml

Code	Packaging
281590.1610	500 ml
281590.1611	1000 ml

НеваРеактив

William's Media E, powder

Cell culture media

CS 38210000

Storage 2-8 °C

A9605 William's Medium E

Specifications
without L-Glutamine
addtions ..... with 97.67 mg/L $MgSO_4$

without Phenol red
without Sodium hydrogen carbonate

Code	Packaging
A9605,9010	10 L

A9610 William's Medium E w/o L-Glutamine

Specifications
without L-Glutamine
with 25 mM HEPES

without Phenol red
without Sodium hydrogen carbonate

Code	Packaging
A9610,9020	20 L

Wright's Eosin-Methylene Blue dye

CS 32041900

Solubility ..... Very slightly soluble in water.
Solid

WGK 1
Storage RT

251767 Wright's Eosin-Methylene Blue dye for clinical diagnosis

For hematology, blood smear staining

Specifications
Identity .....IR passes test

A 1 %, 1 cm, λ_{max} 2 ..... > 1000
A 1 %, 1 cm, λ_{max} 1 ..... > 500
λ_{max} ABS in CH_3OH ..... 523-525 nm
T.L.C. .....passes test

Maximum limit of impurities
Loss on drying at 110 °C .....15 %
Staining suitability

Code	Packaging
251767.1606	25 g

Wright's Eosin-Methylene Blue solution

CS 38220000

Liquid

UN1230
Class/PG 3(6.1)/II
ADR 3(6.1)/II · IMDG 3(6.1)/II · IATA 3(6.1)/II
WGK 1
Storage RT

Danger



H225 H301+H311+H331 H370

A4278 Wright's Eosin-Methylene Blue solution

Solution in methanol

Specifications
$\lambda_{max\ 1}$ ..... 635-650 nm

$\lambda_{max\ 2}$ .....515-525 nm

E 1/1 cm, $\lambda_{max\ 1}$ 1:250 dil.
(100 % MeOH) 0.350-0.600
E 1/1 cm, $\lambda_{max\ 1}$ 2:250 dil.
(100 % MeOH) 1.000-1.200

Code	Packaging
A4278,0500	500 ml

Wright's Staining see Wright's Eosin-Methylene Blue dye

WST-1

4-[3-(4-Iodophenyl)-2-(4-Nitrophenyl)-2H-5-Tetrazolio]-1,3-Benzene Disulfonate

$C_{19}H_{12}IN_5NaO_6S_2$
M = 651.35 g/mol
CAS 150849-52-8
CS 29339980

Solid

Storage 2-8 °C

Warning



H302+H312+H332 H335

A2549 WST-1 BioChemica

Specifications
Assay (TLC) ..... complies to standard
λ_{max} (formazan) .....438 nm

Solubility (H_2O) ..... 100 mg/10 ml
Water (K.F.) ..... max. 5 %

Code	Packaging
A2549,0025	25 mg

X-Gal

5-Bromo-4-Chloro-3-Indolyl-β-D-Galactopyranoside

$C_{14}H_{15}BrClNO_6$
M = 408.63 g/mol
CAS 7240-90-6
EINECS 230-640-8
CS 29349990

Melting Point .....223 °C (dec.)
Solid

Storage protected from light
Storage -20 °C

A4978 X-Gal for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (HPLC) .....min. 99 %
α20 °C/D; 1 %, DMF (50 %) .....-62° ± 2°
Water (K.F.) .....max. 1 %

Code	Packaging
A4978,0100	100 mg
A4978,0500	500 mg
A4978,0001	1 g
A4978,0005	5 g

A1007 X-Gal BioChemica

Specifications
Assay (HPLC) .....min. 99 %
α20 °C/D; 1 %, DMF (50 %) .....-62° ± 2°
Water (K.F.) .....max. 1 %

Code	Packaging
A1007,0250	250 mg
A1007,0500	500 mg
A1007,0001	1 g
A1007,0005	5 g
A1007,0010	10 g

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X-Glucuro CHA Salt

X-GlcA, X-Gluc, 5-Bromo-4-Chloro-3-Indolyl-β-D-Glucuronide Cyclohexylammonium Salt

$C_{20}H_{26}BrClN_2O_7$
M = 521.79 g/mol
CAS 114162-64-0
CS 29389090

Melting Point ..... 225 °C (dec.)
Solid

Storage -20 °C
Storage protected from light

A1113 X-Glucuro CHA Salt BioChemica

Specifications
Assay (TLC) ..... min. 99 %
Water (K.F.) ..... max. 5.0 %

Code	Packaging
A1113,0250	250 mg
A1113,0001	1 g

X-Glucuronide Agar see TBX Agar (ISO 16649-2,3:2000) (Dehydrated Culture Media) for microbiology

Xanthine

2,6-Dihydroxypurine

$C_5H_4N_4O_2$
M = 152.11 g/mol
CAS 69-89-6
EINECS 200-718-6
CS 29335995

Melting Point ..... > 300 °C
Solid

Storage RT

A0665 Xanthine BioChemica

Specifications
Assay (HPLC) ..... min. 98 %
E 1 %/1 cm, 278nm; pH 10 599-612
Heavy metals ..... max. 0.001 %
Loss on drying ..... max. 1 %

Code	Packaging
A0665,0025	25 g

Xanthohumol

Origin from *Humulus lupulus*

$C_{21}H_{22}O_5$
M = 354.40 g/mol
CAS 6754-58-1
CS 29329900

Solid

Storage 2-8 °C

A7875 Xanthohumol for HPLC

Specifications
Assay ..... min. 99 %

Code	Packaging
A7875,0050	50 mg

Xanthophyll see Lutein

XLD Agar

CS 38210000

Solid

Storage RT

A5920 XLD Agar

Specifications
pH before autoclaving ..... approx. 7.4 (20 °C)

Composition:
Agar ..... 15.3 g/L
Ammonium Ferric Citrate ..... 0.8 g/L
L-Lysine ..... 5.0 g/L
Lactose 1-hydrate ..... 7.5 g/L
Phenol Red ..... 0.08 g/L
Sodium Chloride ..... 5.0 g/L
Sodium Deoxycholate ..... 2.5 g/L
Sodium Thiosulfate ..... 6.8 g/L
Sucrose ..... 7.5 g/L
Xylose ..... 3.5 g/L
Yeast extract ..... 3.0 g/L

Code	Packaging
A5920,0500	500 g

XTT Sodium Salt

2,3-Bis-(2-Methoxy-4-Nitro-5-Sulfophenyl)-2H-Tetrazolium-5-cCrboxanilide Sodium Salt

$C_{22}H_{16}N_7O_{13}S_2Na$
M = 673.50 g/mol
CAS 111072-31-2
CS 29339980

Solid

Storage 2-8 °C

A2240 XTT Sodium Salt BioChemica

Specifications
λ_{max} ..... 283-287 nm
E 1 %/1 cm, 285 nm 14,800-16,800
Water ..... max. 15 %

Code	Packaging
A2240,0050	50 mg
A2240,0100	100 mg
A2240,0500	500 mg

o-Xylene

1,2-Dimethylbenzene

$C_6H_4(CH_3)_2$
M = 106.17 g/mol
CAS 95-47-6
EINECS 202-422-2
CS 29024100
Index Nr. 601-022-00-9

Melting Point ..... -25 °C
Boiling Point ..... 144 °C
Density ..... 0.882 kg/l
Solubility ..... water 0.2 g/l at 20 °C
Refractive Index n20/D 1.5058
Liquid

UN1307
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 2
Storage RT

Warning



H226 H332 H312 H315

142767 o-Xylene pure

Specifications
Assay (G.C.) ..... 98 %
Identity ..... IR passes test
Density 20/4 ..... 0.880-0.884
Acidity ..... 0.0003 meq/g
Alkalinity ..... 0.00025 meq/g
Non-volatile matter ..... 0.01 %
m-Xylene + p-Xylene (G.C.) ..... 1 %
Thiophene (C_4H_4S) ..... 0.0005 %
Water (H_2O) ..... 0.05 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
142767.1612	2.5 l

For technical support contact your local distributor or visit:
www.applichem.com/en/service/technical-support or www.panreac.es/en/services

Xylene - Mixture of isomeres

Xylol, Dimethylbenzene

C_8H_{10}
M = 106.17 g/mol
CAS 1330-20-7
EINECS 215-535-7
CS 29024400
Index Nr. 601-022-00-9

Boiling Point ..... approx. 138 °C
Density ..... 0.860-0.866 kg/l (20 °C)
Liquid

UN1307
Class/PG 3/III
ADR 3/III · IMDG 3/III · IATA 3/III
WGK 2
Storage RT

Warning



H226 H312+H332 H315

131769 Xylene - Mixture of isomeres (Reag. Ph. Eur.) for analysis, ACS, ISO

Specifications
Minimum assay (G.C.)
(isomers mixture C_8H_{10}) ..... 99.0 %
Identity ..... IR passes test
Density 20/4 ..... 0.862-0.864

Maximum limit of impurities
APHA colour 10
Acidity ..... 0.0001 meq/g
Alkalinity ..... 0.0001 meq/g
Non-volatile matter ..... 0.001 %
Darkened substances by H_2SO_4 ... passes test
Sulfur compounds (as CS_2) ..... 0.0003 %
toluene (G.C.) ..... 0.1 %
Benzene (G.C.) ..... 0.05 %
Ethylbenzene (G.C.) ..... 25 %
Thiophene (C_4H_4S) ..... 0.0001 %
Water (H_2O) ..... 0.03 %

Metals by ICP [in mg/Kg (ppm)]
Ag .....0.05 Al 0.5
As.....0.05 Au 0.05
B..... 0.02 Ba..... 0.1
Be..... 0.02 Bi..... 0.05
Ca..... 0.5 Cd 0.05
Co..... 0.02 Cr 0.02
Cu..... 0.02 Fe..... 0.1
Ga ..... 0.02 Ge 0.05
Hg..... 0.05 In 0.05
K..... 0.1 Li 0.05
Mg ..... 0.1 Mn 0.02
Mo ..... 0.02 Na 0.5

Code	Packaging
131769.1611	1000 ml
131769.2711	1000 ml
131769.1612	2.5 l
131769.0314	5 l
131769.2714	5 l
131769.0616	25 l
131769.0619	200 l

141769 Xylene - Mixture of isomeres pure

Specifications
Assay (G.C.)
(isomers mixture C_8H_{10}) ..... 98 %
Identity ..... IR passes test
Density 20/4 ..... 0.862-0.864
Acidity ..... 0.0003 meq/g
Alkalinity ..... 0.00025 meq/g
Non-volatile matter ..... 0.01 %
Thiophene (C_4H_4S) ..... 0.0005 %
Water (H_2O) ..... 0.05 %
Cu ..... 0.00002 %
Fe ..... 0.00005 %
Ni ..... 0.00002 %
Pb ..... 0.00002 %

Code	Packaging
141769.2711	1000 ml
141769.1612	2.5 l
141769.0314	5 l
141769.3514	5 l
141769.0616	25 l
141769.3516	25 l

251769 Xylene - Mixture of isomeres for clinical diagnosis

Specifications
Minimum assay (G.C.)
(isomers mixture C_8H_{10}) ..... 97 %
Identity ..... IR passes test

Code	Packaging
251769.2711	1000 ml
251769.2712	2.5 l
251769.2714	5 l

161769 Xylene, 98.5 % mixture of isomers for synthesis

Specifications
Minimum assay (G.C.)
(isomers mixture C_8H_{10}) ..... 98.5 %
Identity ..... IR passes test
Density 20/4 ..... 0.862-0.864
Non-volatile matter ..... 0.005 %
Water (H_2O) ..... 0.05 %

Code	Packaging
161769.2711	1000 ml
161769.1714	5 l
161769.3516	25 l

211769 Xylene - Mixture of isomers technical grade

Specifications
Assay (G.C.) (isomers mixture C_8H_{10}) .... 97 %
Density 20/4 ..... 0.862-0.867
Acidity ..... 0.003 meq/g
Water (H_2O) ..... 0.1 %

Code	Packaging
211769.2711	1000 ml
211769.1714	5 l
211769.2714	5 l
211769.0616	25 l
211769.3516	25 l

A2476 Xylene - Mixture of isomeres for histology

Specifications
Assay (G.C.) ..... min. 99 %
Benzene ..... max. 0.3 %
Thiophene ..... max. 0.001 %
Toluene ..... max. 0.1 %
As ..... max. 0.0003 %
Ca ..... max. 0.002 %
Cu ..... max. 0.0002 %
Fe ..... max. 0.0002 %
Pb ..... max. 0.0001 %
Zn ..... max. 0.0002 %

Code	Packaging
A2476,1000	1 L
A2476,2500	2.5 L
A2476,5000	5 L
A2476,9200	200 L

A4827 Xylene - Mixture of isomeres (Ph. Helv.) pure, pharma grade

Specifications
Acidic/alkaline react. subst. ..... passes test
Boiling range (137-143 °C) ..... ≥ 97.5 vol %
Density (d 20 °C/4 °C) 0.860-0.866
H_2SO_4-discolored matter ..... passes test
Identity (IR) ..... passes test
Residue after evaporation ..... max. 0.005 %
Water ..... max. 0.05 %

Code	Packaging
A4827,9025PE	25 L

Xylene cyanol FF (C.I. 42135)

Cyanol FF

$C_{25}H_{27}N_2NaO_6S_2$
M = 538.61 g/mol
CAS 4463-44-9
EINECS 224-728-5
CS 32041900

Solid

WGK 1
Storage RT

Warning



H319

A4976 Xylene Cyanol FF (C.I. 42135) for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
λ_{max} (H_2O) ..... 613-616 nm
Loss on drying (110 °C) ..... max. 6 %

Code	Packaging
A4976,0005	5 g

A1408 Xylene Cyanol FF (C.I. 42135) BioChemica

Specifications
λ_{max} (H_2O) ..... 613-616 nm
Loss on drying (110 °C) .....max. 6 %

Code	Packaging
A1408,0010	10 g

Xylene substitute see AppliClear (Xylene substitute)

Xylene, Substitute of see Isoparaffin H (Substitute of Xylene)

Xylenol Orange Tetrasodium Salt

o-Cresolsulphonephtalein-3',3''-Bis (Methyliminodiacetic) Acid Tetrasodium salt

$C_{31}H_{28}O_{13}N_2SNa_4$
M = 760.60 g/mol
CAS 3618-43-7
EINECS 222-805-8
CS 32041200

Solubility ..... Soluble in water.
Solid

WGK 3
Storage RT

132617 Xylenol Orange Tetrasodium Salt for analysis, ACS

for complexometry

Specifications
Identity .....IR passes test

Suitability: as complexometric indicator. .....passes test
T.L.C. .....passes test

Maximum limit of impurities
Insoluble matter in H_2O .....passes test
Loss on drying at 110 °C .....7 %

Code	Packaging
132617.1604	5 g

Xylitol

Xylite

$C_5H_{12}O_5$
M = 152.1 g/mol
CAS 87-99-0
EINECS 201-788-0
CS 29054900

Solid

Storage RT

A4378 Xylitol (Ph. Eur.) pure, pharma grade

Specifications
Assay (anhydrous subst.) ..... 98.0-102.0 %
Appearance of solution ..... passes test

Conductivity (20 %; H_2O; 20 °C) .....max. 20 µS/cm
Identity .....passes test
Red. sugars .....max. 0.2 % (calc. as Glucose)

Related subst. (G.C.) .....passes test
Water (K.F.) .....max. 1.0 %
Ni .....max. 0.0001 %
Pb .....max. 0.00005 %

Code	Packaging
A4378,1000	1 kg

Xylol see Xylene - Mixture of isomeres

D(+)-Xylose

Wood Sugar, D-Xilopyranose

$C_5H_{10}O_5$
M = 150.13 g/mol
CAS 58-86-6
EINECS 200-400-7
CS 29400000

Melting Point ..... 153 °C
Solid

Storage RT

142080 D(+)-Xylose (BP, Ph. Eur.) pure, pharma grade

Specifications
Identity according to Pharmacopoeias: ..... passes test
Specific rotation α n20/D c=10 (in H_2O) ..... 18.5-19.5°

Maximum limit of impurities
Appearance of solution ..... passes test

Acidity or alkalinity .....passes test
Insoluble matter in H_2O .....passes test
Loss on drying at 105 °C ..... 0.5 %
Residue on ignition (as SO_4) ..... 0.1 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.01 %
Residual solvents (Ph. Eur.) .....passes test
Heavy metals (as Pb) ..... 0.002 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) .....10 ppm
Class 1B (Ir, Rh, Ru, Os) .....10 ppm
Class 1C (Mo, Ni, Cr, V) .....25 ppm
Class 2 (Cu, Mn) .....250 ppm
Class 3 (Fe, Zn) .....1.300 ppm
As .....0,0001 %

Code	Packaging
142080.1208	100 g
142080.1209	250 g

A2241 D(+)-Xylose BioChemica

Specifications
Assay (HPLC) .....min. 98.5 %
α20 °C/D; 5 %, H_2O ..... 18-20°

Heavy metals ..... max. 0.001 %
Water ..... max. 1 %

Code	Packaging
A2241,0100	100 g
A2241,0500	500 g

Xylose Lysine Desoxycholate Agar see XLD Medium (Ph. Eur.) (Dehydrated Culture Media) for microbiology

Yeast extract

EINECS 232-387-9
CS 38210000

Solid

Storage RT

A3732 Yeast extract for molecular biology

Water-soluble part of autolysed yeast. Rich of ammonia and vitamins, especially of water-soluble vitamin B-complexes; suitable for addition to media.

Specifications
DNases/RNases/Proteases .....not detectable
Ash ..... max. 14 %
Heavy metals (as Pb) ..... max. 0.0001 %
Loss on drying ..... max. 5 %

pH (1 %; H_2O) .....6.8-7.2 (25 °C)
Total N ..... 11-12 %
Coagulated protein .....not detectable
Sodium chloride .....max. 0.3 %

Code	Packaging
A3732,0250	250 g
A3732,0500	500 g

A1552 Yeast extract BioChemica

Water-soluble part of autolysed yeast. Rich of ammonia and vitamins, especially of water-soluble vitamin B-complexes; suitable for addition to media.

Specifications
Ash ..... max. 15 %
Loss on drying ..... max. 5 %
pH (1 %; H_2O; 25 °C) ..... approx. 7.0
Total N ..... approx. 11 %

Coagulated protein .....not detectable
Na .....max. 0.2 %

Code	Packaging
A1552,0500	500 g
A1552,1000	1 kg
A1552,9025	25 kg

For Product Specifications, Certificates of Analysis or MSDS visit:
www.applichem.com or www.panreac.es

Yeast Nitrogen Base w/o Amino acids with Ammonium Sulfate

CS 38210000

Storage RT

A9731 Yeast Nitrogen Base w/o Amino acids with Ammonium Sulfate (Microbiological grade)

Specifications
Composition (g/l):
Yeast Nitrogen Base 1.70
Ammonium Sulfate 5.00
pH at 25 °C ..... 5.4 ± 0.2

Code	Packaging
A9731,0500	500 g

Yohimbin Hydrochloride

$C_{21}H_{26}N_2O_3 \cdot HCl$
M = 390.90 g/mol
CAS 65-19-0
CS 29399900

Solid

UN1544
Class/PG 6.1/II
ADR 6.1/II · IMDG 6.1/II · IATA 6.1/II
Storage RT
Storage protected from light

Danger



H300 H311+H331

A9407 Yohimbin Hydrochloride (Ph. Eur.) pure, pharma grade

Specifications
Assay (HPLC, dried subst.) ..... 97.0-102.0 %
α20 °C/D; 1 %; H_2O;
dried Subst. ..... 101-105°
Identity ..... passes test
Loss on drying (100-105 °C) ..... max. 0.5 %
pH (1 %, H_2O) 3.5-5.5
Related subst. (HPLC) ..... passes test
Sulfated ash ..... max. 0.1 %

Code	Packaging
A9407,1000	1 kg

YT-Medium - Powder

CS 38210000

Storage RT

A0981 YT-Medium - Powder (2X)

to set up a 2X concentrated liquid medium

Composition:
Sodium chloride (A1149) ..... 5 g/L
Tryptone (A1553) ..... 16 g/L
Yeast extract (A1552) ..... 10 g/L

Code	Packaging
A0981,2500KG	2.5 kg

Zearalenone

FES, Toxin F2

Origin from *Fusarium graminearum*

$C_{18}H_{22}O_5$
M = 318.36 g/mol
CAS 17924-92-4
EINECS 241-864-0
CS 29322985

Melting Point ..... 159-163 °C
Solid

UN3261
Class/PG 8/II
ADR 8/II · IMDG 8/II · IATA 8/II
WGK 1
Storage -20 °C

Danger



H314 H361

A7949 Zearalenone BioChemica

Specifications
Assay (HPLC) ..... approx. 98 %
λ_{max} (MeOH) ..... 236, 274, 316 nm
Solubility (5 mg/ml MeOH) ..... clear, colorless

Code	Packaging
A7949,0010	10 mg

Zeaxanthine

$C_{40}H_{56}O_2$
M = 568.89 g/mol
CAS 144-68-3
EINECS 205-636-4
CS 32030010

Storage -20 °C
Storage protected from light

A1282 Zeaxanthine

Specifications
$\lambda_{max\ 1}$ (MeOH) ..... 447-503 nm
$\lambda_{max\ 2}$ (MeOH) ..... 474-480 nm
Melting point ..... 204-207 °C
TLC ..... passes test

Code	Packaging
A1282,0001	1 mg

Zeleny's Reagent

CS 38220000

Density ..... 0.985 kg/l
Liquid

Storage RT

Warning



H319 H315

286079 Zeleny's Reagent for volumetric analysis

for determination of the sedimentation grade in wheat meal according to ISO 5529:1992(L(+)-Lactic Acid 4,5 % v/v; 2-Propanol 20 % v/v); Water)

Specifications
Concentration ..... 0.50 ± 0.005 mol/l
Density 15/15 ..... 0.984-0.986

Code	Packaging
286079.1211	1000 ml

Ziehl-Neelsen solution

Carbol Fuchsine solution

CS 32041300

Density ..... 0.98 kg/l (20 °C)
Solubility ..... soluble (H_2O)
Liquid

UN1992
Class/PG 3(6.1)/III
ADR 3(6.1)/III · IMDG 3(6.1)/III · IATA 3(6.1)/III
WGK 1
Storage RT

Warning



H226 H314 H341

251333 Ziehl-Neelsen Carbol-Fuchsin Basic solution for clinical diagnosis

Dye solution for Ziehl-Neelsen staining and Gram Nicolle staining

Composition:
Basic Fuchsin ..... 0.74 g
Phenol ..... 5 ml
Ethanol absolute ..... 10 ml
Water (s.q.m) ..... 100 ml
Identity ..... passes test

Maximum limit of impurities
ABS at 545 nm; dil. 1:2000 ..... 0.400-0.565
Suitability for Gram Nicolle staining ..... passes test

Code	Packaging
251333.1609	250 ml
251333.1610	500 ml
251333.1611	1000 ml

A0886 Ziehl-Neelsen solution

Specifications
λ_{max} ..... 544-548 nm
E 0.001 %/1 cm; λ_{max} 0.380-0.600

Code	Packaging
A0886,0500	500 ml

Zinc Acetate 2-hydrate

Acetic Acid Zinc Salt

$Zn(CH_3COO)_2 \cdot 2H_2O$
M = 219.49 g/mol
CAS 5970-45-6
EINECS 209-170-2
CS 29152900

Melting Point ..... 237 °C
Solubility ..... water 430 g/l at 20 °C
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 3
Storage RT

Warning



H302 H319 H400

131775 Zinc Acetate 2-hydrate (Reag. USP, Ph. Eur.) for analysis, ACS

Specifications
Assay (Compl.) ..... 99.5-101.0 %
pH of 5 % solution 6.0-7.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Nitrogen compounds (as N) ..... 0.005 %
Sulfate (SO_4) ..... 0.002 %
Nitrate (NO_3) ..... 0.005 %
Alkali and alkaline-earth salts ..... 0.1 %
As ..... 0.00005 %
Ca ..... 0.005 %
Cd ..... 0.001 %
Cu ..... 0.001 %
Fe ..... 0.0005 %
K ..... 0.01 %
Mg ..... 0.005 %
Mn ..... 0.001 %
Na ..... 0.01 %
Pb ..... 0.001 %

Code	Packaging
131775.1210	500 g
131775.1211	1000 g
131775.0416	25 kg

141775 Zinc Acetate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) ..... 99.0-101.0 %
Identity according to Pharmacopoeias: ..... passes test
pH of 5 % solution 6.0-7.0

Maximum limit of impurities
Appearance of solution ..... passes test
Insoluble matter in H_2O ..... 0.005 %
Reducing substances ..... passes test
Chloride (Cl) ..... 0.005 %
Sulfate (SO_4) ..... 0.010 %
Residual solvents (Ph. Eur./USP) . passes test
Alkali and alkaline-earth salts ..... 0.2 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Mn) ..... 250 ppm
Al ..... 0.0005 %
As ..... 0.0002 %
Ca ..... 0.03 %
Cd ..... 0.0002 %
Cu ..... 0.005 %
Fe ..... 0.001 %
Pb ..... 0.001 %

Code	Packaging
141775.1211	1000 g
141775.1214	5 kg

Zinc Carbonate basic see Zinc Hydroxide Carbonate

Zinc Chloride

$ZnCl_2$
M = 136.28 g/mol
CAS 7646-85-7
EINECS 231-592-0
CS 28273985
Index Nr. 030-003-00-2

Melting Point ..... 318 °C
Boiling Point ..... 730 °C
Solubility ..... 4320 g/L (H_2O)
Solid

UN2331
Class/PG 8/III
ADR 8/III · IMDG 8/III · IATA 8/III
WGK 3
Storage RT

Danger



H302 H314 H335 H410

131779 Zinc Chloride for analysis, ACS

Specifications
Minimum assay (Arg.) ..... 97.0 %

Maximum limit of impurities
Insoluble matter in HCl ..... 0.005 %
Ammonium (NH_4) ..... 0.005 %
Sulfate (SO_4) ..... 0.01 %
Nitrate (NO_3) ..... 0.003 %
Oxychloride ..... passes test
Ca ..... 0.06 %
Cd ..... 0.0005 %
Co ..... 0.0005 %
Cr ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.001 %
K ..... 0.02 %
Mg ..... 0.005 %
Mn ..... 0.001 %
Na ..... 0.05 %
Ni ..... 0.0005 %
Pb ..... 0.001 %

Code	Packaging
131779.1210	500 g
131779.1211	1000 g
131779.1214	5 kg

191779 Zinc Chloride (Ph. Eur., USP) pharma grade

Specifications
Assay (titr.) ..... 97.0-100.5 %
Alkali / alkaline earth ..... max. 1 %
Identity ..... passes test
pH (10 %; H_2O) 4.6-5.5
Oxychloride ..... passes test
Ammonium (Ph. Eur.) ..... max. 0.04 %
Ammonium (USP) ..... passes test
Sulfate ..... max. 0.02 %
Al, Ca, Fe, Mg, Heavy metals ..... passes test
Pb ..... max. 0.005 %

Code	Packaging
191779.1211	1 kg
191779.0416	25 kg

141779 Zinc Chloride pure

Specifications
Assay (Compl.) ..... 97 %
Insoluble matter in HCl ..... 0.05 %
Sulfate (SO_4) ..... 0.05 %
Fe ..... 0.002 %
Pb ..... 0.002 %

Code	Packaging
141779.1210	500 g
141779.1211	1000 g
141779.1214	5 kg

211779 Zinc Chloride technical grade

Specifications
Assay (titr.) ..... min. 95 %

Code	Packaging
211779.1214	5 kg

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НеваРеактив

A6285 Zinc Chloride for molecular biology

Specifications
DNases/RNases/Proteases ..... not detectable
Assay (titr.) ..... min. 98 %
pH (10 %; H_2O) ..... 4.5-5.5 (25 °C)
Oxychloride ..... max. 1.25 %
ZnO ..... max. 0.6 %
Sulfate ..... max. 0.002 %
Ca ..... max. 0.001 %
Fe ..... max. 0.001 %
K ..... max. 0.001 %
Mg ..... max. 0.001 %
Na ..... max. 0.001 %
Pb ..... max. 0.001 %

Code	Packaging
A6285,0250	250 g

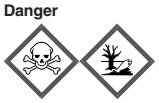
Zinc Cyanide

$Zn(CN)_2$
M = 117.42 g/mol
CAS 557-21-1
EINECS 209-162-9
CS 28371900
Index Nr. 006-007-00-5

Solubility ..... Insoluble in water
Solid

UN1713
Class/PG 6.1/I
ADR 6.1/I · IMDG 6.1/I · IATA 6.1/I
WGK 3
Storage RT

Danger



H330 H310 H300 EUH032 H410

141778 Zinc Cyanide pure

Specifications
Assay (Compl.) ..... 98 %
Sulfate (SO_4) ..... 0.1 %
Fe ..... 0.005 %

Code	Packaging
141778.0716	25 kg

Zinc Hydroxide Carbonate

Zinc Carbonate basic

CAS 5263-02-5
EINECS 226-076-7
CS 28369917

Melting Point ..... ~ 1970 °C
Solid

WGK 1
Storage RT

141777 Zinc Hydroxide Carbonate pure

Specifications
Assay (Zn) ..... min. 52 %
Identity (IR) ..... passes test
Sulfate ..... max. 0.6 %
As ..... max. 0.001 %
Ca ..... max. 0.6 %
Fe ..... max. 0.05 %
Pb ..... max. 0.01 %

Code	Packaging
141777.1211	1 kg

Zinc metal, powder

Zn
M = 65.38 g/mol
CAS 7440-66-6
EINECS 231-175-3
CS 79039000
Index Nr. 030-002-00-7

Melting Point ..... 419 °C
Boiling Point ..... 906 °C
Solubility ..... Insoluble in water
Solid
Grey lustrous metal

UN1436
Class/PG 4.3(4.2)/III
ADR 4.3(4.2)/III · IMDG 4.3(4.2)/III · IATA 4.3(4.2)/III
WGK nwg
Storage RT

Danger



H228 H260 H410

141783 Zinc metal, powder pure

Specifications
Assay (Compl.) ..... 96 %
Insoluble matter in HCl ..... 0.05 %
Nitrogen compounds (as N) ..... 0.01 %
As ..... 0.00001 %
Cd ..... 0.05 %
Fe ..... 0.005 %
Pb ..... 0.01 %

Code	Packaging
141783.1610	500 g
141783.1611	1000 g
141783.0416	25 kg

Zinc Nitrate 6-hydrate

$Zn(NO_3)_2 \cdot 6H_2O$
M = 297.47 g/mol
CAS 10196-18-6
EINECS 231-943-8
CS 28342980

Melting Point ..... 36 °C
Solubility ..... water 1,800 g/l at 20 °C
Solid

UN1514
Class/PG 5.1/II
ADR 5.1/II · IMDG 5.1/II · IATA 5.1/II
WGK 3
Storage Not recommended in areas with a very hot climate

Danger



H272 H302 H319 H335 H315

121784 Zinc Nitrate 6-hydrate for analysis

Specifications
Assay (Compl.) ..... 98.0-102.0 %

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.002 %
Sulfate (SO_4) ..... 0.01 %
Ammonia (NH_3) ..... 0.01 %
Alkali and alkaline-earth salts ..... 0.25 %
Ca ..... 0.001 %
Cu ..... 0.0005 %
Fe ..... 0.001 %
Mg ..... 0.002 %
Ni ..... 0.0005 %
Pb ..... 0.005 %

Code	Packaging
121784.1210	500 g

141784 Zinc Nitrate 6-hydrate pure

Specifications
Assay (Compl.) ..... 98-102 %
Insoluble matter in H_2O ..... 0.025 %
Chloride (Cl) ..... 0.01 %
Sulfate (SO_4) ..... 0.03 %
Ammonia (NH_3) ..... 0.05 %
Cu ..... 0.002 %
Fe ..... 0.003 %
Ni ..... 0.002 %
Pb ..... 0.01 %

Code	Packaging
141784.1211	1000 g
141784.1214	5 kg

Zinc Oxide

ZnO
M = 81.39 g/mol
CAS 1314-13-2
EINECS 215-222-5
CS 28170000

Melting Point ..... 1,970 °C
Solubility ..... Insoluble in water
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 2
Storage RT

Warning



H410

131786 Zinc Oxide for analysis, ACS

Specifications
Minimum assay (Compl.) ..... 99.0 %

Maximum limit of impurities
Alkali ..... passes test
Insoluble in H_2SO_4 ..... 0.01 %
Chloride (Cl) ..... 0.001 %
Sulfur compounds (as SO_4) ..... 0.01 %
Nitrate (NO_3) ..... 0.002 %
As ..... 0.0001 %
Ca ..... 0.005 %
Cd ..... 0.002 %
Co ..... 0.0005 %
Cu ..... 0.0005 %
Fe ..... 0.0005 %
K ..... 0.005 %
Mg ..... 0.005 %
Mn ..... 0.0005 %
Na ..... 0.005 %
Ni ..... 0.0005 %
Pb ..... 0.005 %

Code	Packaging
131786.1211	1000 g

НеВаРеАКТИВ

631786 Zinc Oxide (Ph. Eur., BP, USP) GMP - IPEC grade

Specifications
Assay (Compl.) calc. a.i.s. ..... 99.0-100.5 %
Assay (Acidim.) a.i.s. ..... 99.0-100.5 %
Identity according to Pharmacopoeias:
(A Ph. Eur / USP) ..... passes test
Zinc ..... passes test

Maximum limit of impurities
Alkalinity (< 0.30 ml HCl 0.1M) ..... passes test
Loss on ignition 500 °C ..... 1 %
Carbonate and insoluble substances in acids
Ph. Eur. ..... passes test
Carbonate < formazin II ..... passes test
Carbonate colorless ..... passes test
Carbonate and solution color USP ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Iron and other heavy metals ..... passes test
As ..... 0.0005 %
Cd ..... 0.0010 %
Fe ..... 0.0200 %
Pb ..... 0.0050 %
Residual metals (according to EMEA/CHMP/SWP/4446/2000): No metal catalysts are used in the manufacturing process.

Code	Packaging
631786.0914	5 kg
631786.0416	25 kg

191786 Zinc Oxide (USP, BP, Ph. Eur.) pharma grade

Specifications
Assay (calc. a.i.s.) ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test

Maximum limit of impurities
Alkalinity ..... passes test
Loss on ignition 500 °C ..... 1.0 %
Iron and other heavy metals ..... passes test
Residual solvents (Ph. Eur./USP) . passes test
Carbonate and insoluble substances in acid ..... passes test
Iron and other heavy metals ..... passes test
As ..... 0.0005 %
Cd ..... 0.0010 %
Fe ..... 0.02 %
Pb ..... 0.0050 %

Code	Packaging
191786.1211	1000 g

141786 Zinc Oxide pure

Specifications
Assay (Compl.) ..... 98 %
Insoluble matter in H_2SO_4 ..... 0.05 %
Chloride (Cl) ..... 0.005 %
Sulfur compounds (as SO_4) ..... 0.05 %
As ..... 0.0005 %
Ca ..... 0.1 %
Cu ..... 0.01 %
Fe ..... 0.003 %
Mg ..... 0.1 %
Ni ..... 0.01 %
Pb ..... 0.01 %

Code	Packaging
141786.1211	1000 g

Zinc Sulfate 1-hydrate

White Vitriol

$ZnSO_4 \cdot H_2O$
M = 179.45 g/mol
CAS 7446-19-7
EINECS 231-793-3
CS 28332920
Index Nr. 030-006-00-9

Solubility ..... water 350 g/l at 20 °C
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 3
Storage RT

Danger



H302 H318 H410

141788 Zinc Sulfate 1-hydrate (USP, Ph. Eur., BP) pure, pharma grade

Specifications
Assay (Compl.) ..... 99.0-100.5 %
Identity according to Pharmacopoeias: ..... passes test
pH of 5 % solution 4.0-5.6

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity ..... passes test
Chloride (Cl) ..... 0.03 %
Residual solvents (Ph. Eur./USP) . passes test
Alkalis and alkaline-earths ..... 0.9 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
As ..... 0.0001 %
Fe ..... 0.01 %
Pb ..... 0.002 %

Code	Packaging
141788.1211	1000 g

201788 Zinc Sulfate 1-hydrate (F.C.C.) food grade

Specifications
Assay (as $ZnSO_4.H_2O$) ..... 98.0-100.5 %
Identity
Sulfate ..... passes test
Zinc ..... passes test
Appearance ..... passes test
Acidity ..... passes test
Alkalis and alkaline-earths, not more than ..... 0.5 %
Cadmium, not more than ..... 2 ppm
Mercury, not more than ..... 5 ppm
Lead, not more than ..... 4 ppm
Selenium, not more than ..... 0.003 %
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201788.1214	5 kg
201788.0416	25 kg

Zinc Sulfate 7-hydrate

White Vitriol

$ZnSO_4 \cdot 7H_2O$
M = 287.54 g/mol
CAS 7446-20-0
EINECS 231-793-3
CS 28332920
Index Nr. 030-006-00-9

Melting Point ..... 100 °C
Solubility ..... water 960 g/l at 20 °C
Solid

UN3077
Class/PG 9/III
ADR 9/III · IMDG 9/III · IATA 9/III
WGK 3
Storage Not recommended in areas with a very hot climate

Danger



H302 H318 H410

131787 Zinc Sulfate 7-hydrate for analysis, ACS

Specifications
Assay (Compl.) ..... 99.5-103.0 %
pH of 5 % solution 4.4-6.0

Maximum limit of impurities
Insoluble matter in H_2O ..... 0.005 %
Chloride (Cl) ..... 0.0005 %
Nitrogen compounds (as N) ..... 0.0005 %
As ..... 0,00005 %

Metals by ICP [in mg/Kg (ppm)]

Al	5	Bi	5
Ca	10	Cd	10
Co	5	Cr	5
Cu	5	Fe	5
Hg	5	K	50
Mg	10	Mn	3
Na	50	Ni	5
Pb	20	Sr	5

Code	Packaging
131787.1210	500 g
131787.1211	1000 g
131787.0416	25 kg

141787 Zinc Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

Specifications
Assay (Compl.) ..... 99.0-104.0 %
Identity according to Pharmacopoeias: ..... passes test
pH of 5 % solution 4.4-5.6

Maximum limit of impurities
Appearance of solution ..... passes test
Acidity ..... passes test
Chloride (Cl) ..... 0.03 %
Nitrogen compounds (as N) ..... 0.005 %
Residual solvents (Ph. Eur./USP) . passes test
Alkalis and alkaline-earths ..... 0.5 %

Residual metals ICP (according to EMEA/CHMP/SWP/4446/2000):
Class 1A (Pt, Pd) ..... 10 ppm
Class 1B (Ir, Rh, Ru, Os) ..... 10 ppm
Class 1C (Mo, Ni, Cr, V) ..... 25 ppm
Class 2 (Cu, Mn) ..... 250 ppm
As ..... 0.0001 %
Ca ..... 0.02 %
Fe ..... 0.005 %
Pb ..... 0.001 %

Code	Packaging
141787.1210	500 g
141787.1211	1000 g
141787.1214	5 kg
141787.0416	25 kg

201787 Zinc Sulfate 7-hydrate (F.C.C.) food grade

Specifications
Assay (as $ZnSO_4.7H_2O$) ..... 99.0-108.7 %
Identity ..... passes test
Sulfate ..... passes test
Zinc ..... passes test
Appearance ..... passes test
Acidity ..... passes test
Alkalis and alkaline-earths, not more than ..... 0.5 %
Cadmium, not more than ..... 2 ppm
Mercury, not more than ..... 1 ppm
Lead, not more than ..... 4 ppm
Selenium, not more than ..... 0.003 %
Arsenic, not more than ..... 3 ppm
Specifications F.C.C. 9
For use in foodstuffs according to F.C.C.

Code	Packaging
201787.1214	5 kg
201787.0416	25 kg

To place an order contact your local distributor or visit:
www.applichem.com or www.panreac.es

Zinc Sulfate 0.1 mol/l (0.1M)

White Vitriol

$ZnSO_4 \cdot 7H_2O$
M = 287.540 g/mol
CAS 7446-20-0
EINECS 231-793-3
CS 28332920
Index Nr. 030-006-00-9

Density .....1.013 kg/l
Liquid

WGK 2
Storage RT
H412

181789 Zinc Sulfate 0.1 mol/l (0.1M) volumetric solution

Indicator: Eriochrome Black T

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
181789.1211	1000 ml

Zinc Sulfate 0.05 mol/l (0.05M)

White Vitriol

$ZnSO_4 \cdot 7H_2O$
M = 287.54 g/mol
CAS 7446-20-0
EINECS 231-793-3
CS 28332920
Index Nr. 030-006-00-9

Density .....1.007 kg/l
Liquid

WGK 2
Storage RT
H412

182163 Zinc Sulfate 0.05 mol/l (0.05M) volumetric solution

Indicator: Eriochrome Black T

Specifications
Titer at 20 °C 0.999-1.001

Uncertainty .....See certificate
Traceability .....NIST

Code	Packaging
182163.1211	1000 ml

Zygosporin A see Cytochalasin D

A

ABTS® 17
ACES 17
Acetaldehyde 17
Acetamide 17
Acetanilide 17
Acetic Acid glacial 18
Acetic Acid 96 % 19
Acetic Acid 80 % 19
Acetic Acid 60 % 19
Acetic Acid 30 % 20
Acetic Acid 25 % 20
Acetic Acid 10 % 20
Acetic Acid 1 mol/l (1N) 20
Acetic Acid 0.1 mol/l (0.1N) 20
Acetic Acid : Chloroform 3 : 2 - Mixture (v/v) 21
Acetic Anhydride 21
Acetone 21
Acetonitrile 23
Acetoxy Valerenic Acid 24
3-Acetyl-11-keto-β-Boswellic Acid 24
3-Acetyl-9-11-dehydro-β-Boswellic Acid 24
Acetyl-Coenzym A Trilithium Salt 24
N-Acetyl-D-Galactosamine 25
N-Acetyl-D-Glucosamine 25
N-Acetyl-L-Cysteine 25
N-Acetyl-L-Cysteine (non animal origin) 25
Acetylthiocholine Iodide 25
Acidimetric Liquor titrated 26
Acidimetric Liquor titrated 26
Acidimetric Liquor titrated 26
Acridine Orange (C.I. 46005) 26
Acriflavine Hydrochloride 27
Acrylamide crystalline 27
Acrylamide solution (30 %) 27
Acrylamide solution (30 %) - Mix 29 : 1 27
Acrylamide solution (30 %) - Mix 37.5 : 1 28
Acrylamide solution (40 %) 28
Acrylamide solution (40 %) - Mix 19 : 1 28
Acrylamide solution (40 %) - Mix 29 : 1 28
Acrylamide solution (40 %) - Mix 32 : 1 29
Acrylamide solution (40 %) - Mix 37.5 : 1 29
Acrylamide solution (40 %) - Mix 49 : 1 29
Actein 29
Acteoside 29
Actinomycin D 30
Adenine 30
Adenine Sulfate 30
Adenosine 30
Adenosine 5'-Diphosphoric Acid Disodium Salt 2-hydratet 30
Adenosine 5'-Monophosphoric Acid Disodium Salt 31
Adenosine 5'-Triphosphoric Acid Disodium Salt 31
S-(5'-Adenosyl)-L-Methionine Iodide 31
Adipic Acid 31
Adonitol 31
AEBSF Hydrochloride 32
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Alum Iron Ammonium saturated solution 37
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Aluminium Chloride 6-hydrate 38
Aluminium Hydroxide 38
Aluminium metal 38
Aluminium Nitrate 9-hydrate 39
Aluminium Oxide 90 active neutral 39
Aluminium Oxide Basic 39
Aluminium Potassium Sulfate dry 39
Aluminium Potassium Sulfate 12-hydrate 39
Aluminium Sulfate 18-hydrate 40
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Amikacin Sulfate 41
Amino-2-Methyl-1-Propanol 41
1-Amino-2-Naphthol-4-Sulfonic Acid 41
7-Amino-Actinomycin D 42
4-Aminoantipyrine 42
p-Aminobenzamidine Dihydrochloride 42
4-Aminobenzoic Acid 42
3-Aminobenzoic Acid Ethyl Ester Methanesulfonate 43
6-Aminohexanoic Acid 43
5-Aminolevulinic Acid Hydrochloride 43
4-Aminophenol 43
Ammonia solution 32 % 44
Ammonia solutions 30 % 44
Ammonia solutions 25 % 44
Ammonia solutions 20 % 45
Ammonia solution 10 % 46
Ammonia Fixative solution 1 % 46
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Ammonium Acetate solution (5 M) 46
Ammonium Acetate 1M buffered to pH=7, extractant solution 46
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Ammonium Cerium(IV) Sulfate 2-hydrate 47
Ammonium Chloride 47
Ammonium di-Hydrogen Phosphate 48
Ammonium Dichromate 48
Ammonium Fluoride 48
Ammonium Hydrogen Carbonate 49
di-Ammonium Hydrogen Citrate 49
Ammonium Hydrogen di-Fluoride 49
di-Ammonium Hydrogen Phosphate 50
Ammonium Iron(II) Sulfate 6-hydrate 50
Ammonium Iron(II) Sulfate 0.12 mol/l (0.12N) 50
Ammonium Iron(II) Sulfate 0.1 mol/l (0.1N) 51
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Ammonium Molybdate 4-hydrate solution 14 g/l 52
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Anthraquinone 57
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(+)-Aphidicolin 58
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Apigenin-7-Glucoside 58
APMSF Hydrochloride 58
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AppliFect LowTox 59
AppliXchange-G25 F 59
AppliXchange-G25 M 59
AppliXchange-G25 SF 60
AppliXchange-G50 F 60
AppliXchange-G50 M 60
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Aprotinin 60
Aquabator-Clean™ 61
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D-Arabinose 63
L(+)-Arabinose 63
L-Arginine base 63
L-Arginine Hydrochloride 63
L(+)-Ascorbic Acid 64
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50-81-7	L(+)-Ascorbic Acid (USP, BP, Ph. Eur.) pure, pharma grade	64
50-81-7	L(+)-Ascorbic Acid for analysis, ACS	64
50-81-7	L(+)-Ascorbic Acid powdered BioChemica	64
50-89-5	2'-Deoxythymidine BioChemica	144
50-99-7	D(+)-Glucose anhydrous (F.C.C.) food grade	209
50-99-7	D(+)-Glucose anhydrous (USP, BP, Ph. Eur.) pure, pharma grade	209
50-99-7	D(+)-Glucose anhydrous BioChemica	210
50-99-7	D(+)-Glucose anhydrous for analysis, ACS	209
50-99-7	D(+)-Glucose anhydrous for cell culture	210
50-99-7	D(+)-Glucose anhydrous for molecular biology	210
51-21-8	5-Fluorouracil BioChemica	197
51-28-5	2,4-Dinitrophenol, 98 % moistened with ~ 33 % of H_2O for synthesis	164
51-35-4	L-Hydroxyproline for cell culture	243
51-35-4	L-Hydroxyproline pure	243
52-51-7	2-Bromo-2-Nitro-1,3-Propanediol (BP) pure, pharma grade	82
52-90-4	L-Cysteine (DAB) pure, pharma grade	137
52-90-4	L-Cysteine BioChemica	137
52-90-4	L-Cysteine, 99 % for synthesis	136
53-84-9	NAD	328
54-21-7	Sodium Salicylate (USP, BP, Ph. Eur.) pure, pharma grade	466
54-21-7	Sodium Salicylate for analysis	466
54-47-7	Pyridoxal 5'-Phosphate BioChemica	412
54-64-8	Thimerosal (USP, BP, Ph. Eur.) pure, pharma grade	532
54-64-8	Thimerosal BioChemica	532
56-34-8	Tetraethylammonium Chloride	528
56-40-6	Glycine (Ph. Eur., BP, USP) GMP - IPEC grade	215
56-40-6	Glycine (Reag. USP) for analysis, ACS	215
56-40-6	Glycine (USP, BP, Ph. Eur.) pure, pharma grade	215
56-40-6	Glycine BioChemica	215
56-40-6	Glycine for cell culture	215
56-40-6	Glycine for molecular biology	215
56-40-6	Glycine, 99 % for synthesis	215
56-41-7	L-Alanine (Ph. Eur., USP) pure, pharma grade	34
56-41-7	L-Alanine (USP, BP, Ph. Eur.) pure, pharma grade	34
56-41-7	L-Alanine BioChemica	34
56-45-1	L-Serine (Ph. Eur., USP) pure, pharma grade	425
56-45-1	L-Serine for cell culture	425
56-75-7	Chloramphenicol BioChemica	113
56-75-7	Chloramphenicol for molecular biology	113
56-81-5	Glycerol (Ph. Eur., BP, USP) GMP - IPEC grade	213
56-81-5	Glycerol (USP, BP, Ph. Eur.) pure, pharma grade	213
56-81-5	Glycerol 87 % (BP, Ph. Eur.) pure, pharma grade	214
56-81-5	Glycerol 87 % BioChemica	214
56-81-5	Glycerol 87 % for analysis	213
56-81-5	Glycerol 87 % for molecular biology	214
56-81-5	Glycerol anhydrous BioChemica	213
56-81-5	Glycerol anhydrous Cell culture grade	213
56-81-5	Glycerol anhydrous for molecular biology	213
56-81-5	Glycerol for analysis, ACS, ISO	212
56-81-5	Glycerol technical grade	213
56-81-5	Glycerol, 99 % for synthesis	213
56-84-8	L-Aspartic Acid (Ph. Eur., USP) pure, pharma grade	65
56-84-8	L-Aspartic Acid BioChemica	65
56-85-9	L-Glutamine (DAB, USP) pure, pharma grade	211
56-85-9	L-Glutamine BioChemica	211
56-85-9	L-Glutamine for cell culture	211
56-86-0	L-Glutamic Acid (Ph. Eur., USP) pure, pharma grade	211
56-86-0	L-Glutamic Acid BioChemica	211
56-86-0	L-Glutamic Acid for cell culture	211
56-89-3	L-Cystine (Ph. Eur.) pure, pharma grade	137
56-89-3	L-Cystine Cell culture grade	137
56-92-8	Histamine Dihydrochloride (Ph. Eur.) pure, pharma grade	228
56-92-8	Histamine Dihydrochloride BioChemica	228
56-95-1	Chlorhexidine Diacetate 1-hydrate BioChemica	113
57-09-0	Cetyltrimethylammonium Bromide BioChemica	109
57-09-0	Cetyltrimethylammonium Bromide for analysis	109
57-09-0	Cetyltrimethylammonium Bromide for molecular biology	109
57-09-0	Cetyltrimethylammonium Bromide, 99 % for synthesis	109
57-11-4	Stearic Acid, 98 % for synthesis	508
57-13-6	Urea BioChemica	554
57-13-6	Urea crystalline (USP, BP, Ph. Eur.) pharma grade	553
57-13-6	Urea crystalline for analysis, ACS	553
57-13-6	Urea crystalline Molecular biology grade	553
57-13-6	Urea for molecular biology	554
57-13-6	Urea pearls pure	553
57-13-6	Urea technical grade	553
57-48-7	D(-)-Fructose (USP, BP, Ph. Eur.) pure, pharma grade	201
57-48-7	D(-)-Fructose BioChemica	202
57-50-1	D(+)-Sucrose (USP-NF, BP, Ph. Eur., JP) pure, pharma grade	510
57-50-1	D(+)-Sucrose BioChemica	510
57-50-1	D(+)-Sucrose for analysis, ACS	510
57-50-1	D(+)-Sucrose for cell culture	510
57-50-1	D(+)-Sucrose for molecular biology	510
57-55-6	1,2-Propanediol (E-1520, F.C.C.) food grade	405
57-55-6	1,2-Propanediol (USP, BP, Ph. Eur., JP) pure, pharma grade	405
57-55-6	1,2-Propanediol, 99 % for synthesis	405
57-88-5	Cholesterol BioChemica	118
57-88-5	Cholesterol synthetic	119
58-08-2	Caffeine anhydrous (USP, BP, Ph. Eur.) pure, pharma grade	96
58-22-0	Testosterone	525
58-27-5	Menadione	291
58-56-0	Pyridoxine Hydrochloride (Ph. Eur., USP) pure, pharma grade	413
58-56-0	Pyridoxine Hydrochloride BioChemica	413
58-58-2	Puromycin Dihydrochloride BioChemica	411
58-61-7	Adenosine BioChemica	30
58-63-9	Inosine BioChemica	248
58-85-5	D(+)-Biotin (USP) pure, pharma grade	73
58-85-5	D(+)-Biotin BioChemica	74
58-86-6	D(+)-Xylose (BP, Ph. Eur.) pure, pharma grade	564
58-86-6	D(+)-Xylose BioChemica	564
58-96-8	Uridine BioChemica	554
59-14-3	5-Bromo-2'-Deoxyuridine BioChemica	82
59-23-4	D(+)-Galactose (Ph. Eur.) pure, pharma grade	204
59-23-4	D(+)-Galactose BioChemica	204
59-23-4	D(+)-Galactose BioChemica, non animal origin	204
59-23-4	D(+)-Galactose for cell culture	204
59-30-3	Folic Acid (USP, BP, Ph. Eur.) pure, pharma grade	197
59-30-3	Folic Acid crystalline BioChemica	197
59-50-7	4-Chloro-3-Methylphenol (USP-NF, BP, Ph. Eur.) pure, pharma grade	114
59-50-7	4-Chloro-3-Methylphenol, 99 % for synthesis	114
59-67-6	Nicotinic Acid (Ph. Eur., USP) pure, pharma grade	333
60-00-4	EDTA (USP-NF, BP, Ph. Eur.) pure, pharma grade	171
60-00-4	EDTA BioChemica	171
60-00-4	EDTA for analysis, ACS	171
60-00-4	EDTA for molecular biology	171
60-01-5	Tributyrin BioChemica	539
60-10-6	Dithizone (Reag. Ph. Eur.) for analysis, ACS	166
60-18-4	L-Tyrosine (Ph. Eur., USP) pure, pharma grade	552
60-18-4	L-Tyrosine BioChemica	552
60-18-4	L-Tyrosine for cell culture	552
60-24-2	β-Mercaptoethanol BioChemica	2
60-24-2	β-Mercaptoethanol Molecular biology grade	2
60-29-7	Diethyl Ether anaesthetic stabilized with ~ 6 ppm of BHT (BP, Ph. Eur.) pharma grade	157
60-29-7	Diethyl Ether dry (max. 0.0075 % water) stabilized with ~ 6ppm of BHT, ACS, ISO	157
60-29-7	Diethyl Ether stabilized with ~ 6 ppm of BHT (Reag. Ph. Eur.) for analysis, ACS, ISO	157
60-29-7	Diethyl Ether stabilized with ~ 6 ppm of BHT pure	157
60-29-7	Diethyl Ether stabilized with ~ 6 ppm of BHT technical grade	157
60-29-7	Diethyl Ether stabilized with ethanol for pesticide analysis	158
60-29-7	Diethyl Ether stabilized with ethanol for UV, IR, HPLC	158
60-29-7	Diethyl Ether, 99.7 % stabilized with ~ 6 ppm of BHT for synthesis	157
60-32-2	6-Aminohexanoic Acid (Ph. Eur., BP, USP) GMP - IPEC grade	43
60-32-2	6-Aminohexanoic Acid BioChemica	43
60-33-3	Linoleic Acid for cell culture	271
60-35-5	Acetamide pure	17
61-73-4	Methylene Blue (C.I. 52015) (USP, BP) pure, pharma grade	301
61-73-4	Methylene Blue (C.I. 52015) BioChemica	301
61-73-4	Methylene Blue (C.I. 52015) for analysis	301
61-73-4	Methylene Blue (C.I. 52015) for clinical diagnosis	301
61-90-5	L-Leucine (Ph. Eur., USP) pure, pharma grade	270
61-90-5	L-Leucine BioChemica	270
61-90-5	L-Leucine Cell culture grade	270
62-33-9	EDTA Calcium Disodium Salt (USP, BP, Ph. Eur.) pure, pharma grade	172
62-53-3	Aniline (Reag. Ph. Eur.) for analysis, ACS	56
62-53-3	Aniline pure	56
62-53-3	Aniline, 99 % for synthesis	56
62-54-4	Calcium Acetate x-hydrate (USP) pure, pharma grade	97
62-54-4	Calcium Acetate x-hydrate for soil testing	97
62-55-5	Thioacetamide (Reag. Ph. Eur.) for analysis, ACS	532
62-55-5	Thioacetamide, 98 % for synthesis	532
62-56-6	Thiourea (Reag. Ph. Eur.) for analysis, ACS	533
62-56-6	Thiourea for synthesis	534
62-56-6	Thiourea pure	533
62-76-0	di-Sodium Oxalate (Reag. USP, Ph. Eur.) for analysis, ACS	462
62-76-0	di-Sodium Oxalate pure	462
62-76-0	di-Sodium Oxalate standard for volumetry, ACS	505
63-68-3	L-Methionine (Ph. Eur., USP) pure, pharma grade	296
63-68-3	L-Methionine Cell culture grade	296
63-74-1	Sulfanilamide (Ph. Fr., DAB) pure, pharma grade	511
63-74-1	Sulfanilamide (Reag. Ph. Eur.) for analysis	511
63-91-2	L-Phenylalanine (Ph. Eur., USP) pure, pharma grade	370
63-91-2	L-Phenylalanine BioChemica	370
64-17-5	Ethanol 68 % for alcohol determination in milk	186
64-17-5	Ethanol 70 % (DAB) pure, pharma grade	185
64-17-5	Ethanol 70 % denatured with Ketones technical grade	185
64-17-5	Ethanol 70 % for analysis	185
64-17-5	Ethanol 70 % v/v (BP) pharma grade	185
64-17-5	Ethanol 70 % v/v food grade	185
64-17-5	Ethanol 70 % v/v for clinical diagnosis	185
64-17-5	Ethanol 80 % denatured with ~ 1 % MEK technical grade	185
64-17-5	Ethanol 94 % denatured with ~ 1 % MEK technical grade	184
64-17-5	Ethanol 96 % denatured with 1 % MEK technical grade	184
64-17-5	Ethanol 96 % v/v (F.C.C.) food grade	183
64-17-5	Ethanol 96 % v/v (Ph. Eur., BP) pure, pharma grade	184
64-17-5	Ethanol 96 % v/v (Ph. Eur., BP, USP-NF) GMP - IPEC grade	183
64-17-5	Ethanol 96 % v/v (USP-NF, BP, Ph. Eur.) pure, pharma grade	183
64-17-5	Ethanol 96 % v/v for analysis	183
64-17-5	Ethanol 96 % v/v for analysis	184
64-17-5	Ethanol 96 % v/v for analysis, ACS	183
64-17-5	Ethanol 96 % v/v for clinical diagnosis	184
64-17-5	Ethanol 96 % v/v for UV, IR, HPLC	183
64-17-5	Ethanol 96 % v/v partially denatured technical grade	184
64-17-5	Ethanol 99 % denatured with 1 % MEK for analysis	182
64-17-5	Ethanol 99 % denatured with 1 % MEK pure	182

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64-17-5	Ethanol 99 % denatured with 1 % MEK technical grade	182
64-17-5	Ethanol absolute (F.C.C.) food grade	181
64-17-5	Ethanol absolute (Ph. Eur., USP) pure, pharma grade	181
64-17-5	Ethanol absolute (USP-NF, BP, Ph. Eur.) pharma grade	180
64-17-5	Ethanol absolute BioChemica	181
64-17-5	Ethanol absolute dry (max. 0.02 % water)	180
64-17-5	Ethanol absolute for analysis	180
64-17-5	Ethanol absolute for analysis	181
64-17-5	Ethanol absolute for analysis, ACS, ISO	180
64-17-5	Ethanol absolute for clinical diagnosis	181
64-17-5	Ethanol absolute for HPLC gradient	180
64-17-5	Ethanol absolute for molecular biology	181
64-17-5	Ethanol absolute for molecular biology (untaxed)	182
64-17-5	Ethanol absolute for UV, IR, HPLC	180
64-17-5	Ethanol absolute partially denatured technical grade	182
64-17-5	Ethanol absolute pure	181
64-17-5	Ethanol absolute, 99,5 % for synthesis	181
64-17-5	Ethanol for HPLC	181
64-18-6	Formic Acid 85 % for analysis	201
64-18-6	Formic Acid 85 % pure	201
64-18-6	Formic Acid 85 % technical grade	201
64-18-6	Formic Acid 90 %	201
64-18-6	Formic Acid 98 % (F.C.C.) food grade	200
64-18-6	Formic Acid 98 % for analysis, ACS	200
64-18-6	Formic Acid 98 % pure	200
64-18-6	Formic Acid 98-100 % BioChemica	200
64-18-6	Formic Acid 98-100 % technical grade	200
64-19-7	Acetic Acid 0.1 mol/l (0.1N) (Reag. Ph. Eur.) volumetric solution	20
64-19-7	Acetic Acid 1 mol/l (1N) volumetric solution	20
64-19-7	Acetic Acid 10 % pure	20
64-19-7	Acetic Acid 100 % BioChemica	19
64-19-7	Acetic Acid 100 % for molecular biology	19
64-19-7	Acetic Acid 25 % technical grade	20
64-19-7	Acetic Acid 25 % w/w pharma grade	20
64-19-7	Acetic Acid 30 % for analysis	20
64-19-7	Acetic Acid 60 % for analysis	19
64-19-7	Acetic Acid 60 % technical grade	19
64-19-7	Acetic Acid 80 % for analysis	19
64-19-7	Acetic Acid 96 % for analysis	19
64-19-7	Acetic Acid 96 % pure	19
64-19-7	Acetic Acid glacial (E-260, F.C.C.) food grade	18
64-19-7	Acetic Acid glacial (Reag. Ph. Eur.) for analysis, ACS, ISO	18
64-19-7	Acetic Acid glacial (USP, BP, Ph. Eur.) pure, pharma grade	18
64-19-7	Acetic Acid glacial for HPLC	18
64-19-7	Acetic Acid glacial for trace metal analysis (ppb)	18
64-19-7	Acetic Acid glacial technical grade	18
64-19-7	Acetic Acid glacial, 99.5 % for synthesis	18
64-72-2	Chlorotetracycline Hydrochloride BioChemica	118
64-75-5	Tetracycline hydrochloride	528
64-86-8	Colchicine BioChemica	126
65-19-0	Yohimbin Hydrochloride (Ph. Eur.) pure, pharma grade	565
65-22-5	Pyridoxal Hydrochloride BioChemica	413
65-85-0	Benzoic Acid (USP, BP, Ph. Eur.) pure, pharma grade	70
65-85-0	Benzoic Acid for analysis, ACS	70
65-85-0	Benzoic Acid standard for volumetry	506
66-22-8	Uracil BioChemica	553
66-81-9	Cycloheximide BioChemica	136
66-84-2	D(+)-Glucosamine Hydrochloride BioChemica	209
67-03-8	Thiamin Hydrochloride BioChemica	531
67-42-5	EGTA for molecular biology	175
67-43-6	Diethylentriaminepentaacetic Acid for analysis	159
67-48-1	Choline Chloride BioChemica	119
67-56-1	Methanol (F.C.C.) food grade	296
67-56-1	Methanol (Reag. Ph. Eur.) for analysis, ACS, ISO	295
67-56-1	Methanol (USP-NF, BP, Ph. Eur.) pure, pharma grade	296
67-56-1	Methanol according to Karl Fischer	61
67-56-1	Methanol BioChemica	296
67-56-1	Methanol dry (max. 0.005 % water), ACS, ISO	295
67-56-1	Methanol for HPLC preparative	295
67-56-1	Methanol for LC-MS	295
67-56-1	Methanol for pesticide analysis	295
67-56-1	Methanol for UHPLC Hypergradient	294
67-56-1	Methanol for UHPLC Supergradient, ACS	295
67-56-1	Methanol for UV, IR, HPLC, ACS	295
67-56-1	Methanol technical grade	296
67-56-1	Methanol, 99.5 % for synthesis	296
67-63-0	2-Propanol (F.C.C.) food grade	407
67-63-0	2-Propanol (Ph. Eur., BP, USP-NF) GMP - IPEC grade	407
67-63-0	2-Propanol (Reag. Ph. Eur.) for analysis, ACS, ISO	407
67-63-0	2-Propanol (USP, BP, Ph. Eur.) pure, pharma grade	407
67-63-0	2-Propanol 70 % for analysis	408
67-63-0	2-Propanol 70 % pure	408
67-63-0	2-Propanol 70 % Technical grade	408
67-63-0	2-Propanol BioChemica	408
67-63-0	2-Propanol dry (max. 0.01 % water), ACS, ISO	407
67-63-0	2-Propanol for HPLC	407
67-63-0	2-Propanol for HPLC gradient	406
67-63-0	2-Propanol for HPLC preparative	407
67-63-0	2-Propanol for molecular biology	408
67-63-0	2-Propanol for pesticide analysis	407
67-63-0	2-Propanol technical grade	408
67-63-0	2-Propanol, 99.7 % for synthesis	408
67-64-1	Acetone (Ph. Eur., BP, USP-NF) GMP - IPEC grade	22
67-64-1	Acetone (Reag. Ph. Eur.) for analysis, ACS, ISO	22
67-64-1	Acetone (USP, BP, Ph. Eur.) pure, pharma grade	22
67-64-1	Acetone BioChemica	22
67-64-1	Acetone dry (max. 0.01 % water)	22
67-64-1	Acetone for pesticide analysis	21
67-64-1	Acetone for UV, IR, HPLC, GPC, ACS	21
67-64-1	Acetone technical grade	22
67-64-1	Acetone, 99.5 % for synthesis	22
67-66-3	Chloroform BioChemica	116
67-66-3	Chloroform dry (max. 0.005 % water) stabilized with ~ 50 ppm of amylene, ACS	116
67-66-3	Chloroform stabilized with ~ 150 ppm of amylene for HPLC, GPC	116
67-66-3	Chloroform stabilized with ~ 50 ppm of amylene (Reag. USP, Ph. Eur.) for analysis, ACS	116
67-66-3	Chloroform stabilized with ~ 50 ppm of amylene pure	116
67-66-3	Chloroform stabilized with ethanol (BP) pharma grade	117
67-66-3	Chloroform stabilized with ethanol (Reag. Ph. Eur.) for analysis, ACS, ISO	117
67-66-3	Chloroform stabilized with ethanol for analysis	117
67-66-3	Chloroform stabilized with ethanol for pesticide analysis	117
67-66-3	Chloroform stabilized with ethanol for UV, IR, HPLC	117
67-66-3	Chloroform stabilized with ethanol pure	117
67-66-3	Chloroform stabilized with ethanol technical grade	117
67-66-3	Chloroform, 99 % stabilized with ethanol for synthesis	117
67-66-3	Chloroform. 99.9 % stabilized with ~ 50 ppm of amylene for synthesis	116
67-68-5	Dimethyl Sulfoxide (Reag. Ph. Eur.) for analysis, ACS	161
67-68-5	Dimethyl Sulfoxide (USP, BP, Ph. Eur.) pharma grade	161
67-68-5	Dimethyl sulfoxide BioChemica	161
67-68-5	Dimethyl sulfoxide Cell culture grade	161
67-68-5	Dimethyl Sulfoxide dry (max. 0.03 % water), ACS	160
67-68-5	Dimethyl Sulfoxide for Headspace GC	160
67-68-5	Dimethyl Sulfoxide for UV, IR, HPLC, GPC	160
67-68-5	Dimethyl sulfoxide Molecular biology grade	161
67-68-5	Dimethyl Sulfoxide pure	161
67-68-5	Dimethyl Sulfoxide, 99.5 % for synthesis	161
67-68-5	Dimethyl Sulfoxide, sterile filtered (ampules)	161
67-99-2	Gliotoxin BioChemica	208
68-11-1	Thioglycolic Acid 80 % pure	533
68-11-1	Thioglycolic Acid for analysis	533
68-12-2	N,N-Dimethylformamide (Reag. Ph. Eur.) for analysis, ACS, ISO	163
68-12-2	N,N-Dimethylformamide dry (max. 0.01 % water), ACS, ISO	163
68-12-2	N,N-Dimethylformamide for Headspace GC	163
68-12-2	N,N-Dimethylformamide for molecular biology	163
68-12-2	N,N-Dimethylformamide for UV, IR, HPLC, GPC, ACS	162
68-12-2	N,N-Dimethylformamide pure	163
68-12-2	N,N-Dimethylformamide, 99.8 % for synthesis	163
68-19-9	Vitamin B_{12}	557
68-19-9	Vitamin B_{12} (Ph. Eur.) pure, pharma grade	557
68-41-7	D-Cycloserine (USP) pure, pharma grade	136
68-41-7	D-Cycloserine BioChemica	136
68-94-0	Hypoxanthine BioChemica	245
69-52-3	Ampicillin Sodium Salt (Ph. Eur.) pharma grade	55
69-52-3	Ampicillin Sodium Salt BioChemica	
69-57-8	Penicillin G Sodium Salt	
69-57-8	Penicillin G Sodium Salt (Ph. Eur.) pure, pharma grade	355
69-65-8	D(-)-Mannitol (USP, BP, Ph. Eur.) pure, pharma grade	287
69-65-8	D(-)-Mannitol BioChemica	288
69-65-8	D(-)-Mannitol for analysis, ACS	287
69-65-8	D(-)-Mannitol low endotoxin, (Ph. Eur., BP, USP, JP) pure, pharma grade	288
69-72-7	Salicylic Acid (USP, BP, Ph. Eur.) pure, pharma grade	421
69-72-7	Salicylic Acid for analysis, ACS	421
69-72-7	Salicylic Acid, 99 % for synthesis	421
69-78-3	5,5'-Dithio-bis(2-Nitrobenzoic Acid) BioChemica	166
69-89-6	Xanthine BioChemica	562
69-93-2	Uric Acid BioChemica	554
70-18-8	L-Glutathione reduced BioChemica	212
71-00-1	L-Histidine base (Ph. Eur., USP) pure, pharma grade	228
71-00-1	L-Histidine base BioChemica	228
71-00-1	L-Histidine base for cell culture	228
71-23-8	1-Propanol (BP, Ph. Eur.) pure, pharma grade	406
71-23-8	1-Propanol (F.C.C.) food grade	406
71-23-8	1-Propanol (Reag. USP, Ph. Eur.) for analysis, ACS	406
71-23-8	1-Propanol for UV, IR, HPLC	406
71-23-8	1-Propanol technical grade	406
71-23-8	1-Propanol, 99.5 % for synthesis	406
71-36-3	1-Butanol (Reag. Ph. Eur.) for analysis, ACS, ISO	91
71-36-3	1-Butanol (USP-NF) pure, pharma grade	91
71-36-3	1-Butanol for UV, IR, HPLC	91
71-36-3	1-Butanol, 99.5 % for synthesis	91
71-41-0	1-Pentanol (Reag. Ph. Eur.) for analysis, ACS	356
71-41-0	1-Pentanol pure	356
71-43-2	Benzene (Reag. Ph. Eur.) for analysis, ACS, ISO	69
71-43-2	Benzene for UV, IR, HPLC, GPC, ACS	69
71-43-2	Benzene pure	69
71-44-3	Spermine BioChemica	476
72-17-3	Sodium Lactate solution 50 % w/w (USP, BP, Ph. Eur.) pure, pharma grade	460
72-18-4	L-Valine (Ph. Eur., USP) pure, pharma grade	555
72-18-4	L-Valine Cell culture grade	555
72-19-5	L-Threonine (Ph. Eur., USP) pure, pharma grade	534
72-19-5	L-Threonine BioChemica	534
72-19-5	L-Threonine for cell culture	534
72-57-1	Trypan Blue (C.I. 23850)	548
73-22-3	L-Tryptophan (Ph. Eur., USP) pure, pharma grade	550
73-22-3	L-Tryptophan BioChemica	549
73-22-3	L-Tryptophan Cell culture grade	549
73-24-5	Adenine BioChemica	30
73-32-5	L-Isoleucine (Ph. Eur., USP) pure, pharma grade	257
73-32-5	L-Isoleucine for cell culture	256
73-78-9	Lidocaine Hydrochloride (Ph. Eur., USP) pure, pharma grade	271
74-79-3	L-Arginine base (Ph. Eur., USP) pure, pharma grade	63
74-79-3	L-Arginine base BioChemica	63
74-79-3	L-Arginine base Cell culture grade	63
74-88-4	Iodomethane, 99 % stabilized with copper for synthesis	252
75-05-8	Acetonitrile (Reag. Ph. Eur.) for analysis, ACS	24
75-05-8	Acetonitrile dry (max. 0.005 % water), ACS	23
75-05-8	Acetonitrile for DNA synthesis and protein sequencing	24
75-05-8	Acetonitrile for HPLC preparative	23
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75-05-8	Acetonitrile for UHPLC Hypergradient	23
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75-07-0	Acetaldehyde, 99 % for synthesis	17
75-09-2	Dichloromethane DNA synthesis and protein sequencing grade	156
75-09-2	Dichloromethane dry (max. 0.005 % water) stabilized with ~ 20 ppm of amylene, ACS, ISO	155
75-09-2	Dichloromethane stabilized with ~ 20 ppm for amylene for analysis, ACS, ISO	155
75-09-2	Dichloromethane stabilized with ~ 20 ppm of amylene (USP-NF, BP, Ph. Eur.) pure, pharma grade	156

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75-09-2	Dichloromethane stabilized with ~ 20 ppm of amylene for UV, IR, HPLC, GPC, ACS	155
75-09-2	Dichloromethane stabilized with ~ 20 ppm of amylene technical grade	156
75-09-2	Dichloromethane, 99.8 % stabilized with ~ 20 ppm of amylene for synthesis	156
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75-12-7	Formamide BioChemica	200
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75-12-7	Formamide ultrapure	200
75-12-7	Formamide, 98 % for synthesis	200
75-15-0	Carbon Disulfide for analysis, ACS	104
75-15-0	Carbon Disulfide for UV, IR, HPLC	104
75-15-0	Carbon Disulfide pure	104
75-15-0	Carbon Disulfide, 99.5 % for synthesis	105
75-25-2	Bromoform stabilized with ethanol pure	83
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75-65-0	2-Methyl-2-Propanol pure	300
75-65-0	2-Methyl-2-Propanol, 99.7 % for synthesis	300
75-89-8	2,2,2-Trifluoroethanol for synthesis	544
76-03-9	Trichloroacetic Acid (BP, Ph. Eur.) pure, pharma grade	540
76-03-9	Trichloroacetic Acid (Reag. Ph. Eur.) for analysis, ACS	540
76-03-9	Trichloroacetic Acid BioChemica	540
76-03-9	Trichloroacetic Acid, 98 % for synthesis	540
76-05-1	Trifluoroacetic acid BioChemica	544
76-05-1	Trifluoroacetic Acid for UV	544
76-05-1	Trifluoroacetic Acid, 99 % for synthesis	544
76-13-1	1,1,2-Trichlorotrifluoroethane (ACS IX, Reag. USP, Ph. Eur.) (E.U.) for analysis, ACS	541
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76-22-2	DL-Camphor synthetic (USP) pure, pharma grade	103
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76-59-5	Bromothymol Blue solution 0.04 % for volumetric analysis	85
76-59-5	Bromothymol Blue solution 0.4 % VINIKIT for wine analysis	85
76-60-8	Bromocresol Green for analysis, ACS	83
76-60-8	Bromocresol Green solution 0.04 % for volumetric analysis	83
77-06-5	Gibberellic Acid BioChemica	206
77-09-8	Phenolphthalein (BP, Ph. Eur.) pure, pharma grade	369
77-09-8	Phenolphthalein (Reag. Ph. Eur.) for analysis, ACS	368
77-86-1	Tris (USP, BP, Ph. Eur.) pure, pharma grade	545
77-86-1	Tris for analysis, ACS	545
77-86-1	Tris for buffer solutions	545
77-86-1	Tris for molecular biology	545
77-86-1	Tris standard for volumetry, ACS	505
77-86-1	Tris ultrapure	545
77-92-9	Citric Acid anhydrous (E-330, F.C.C.) food grade	122
77-92-9	Citric Acid anhydrous (USP, BP, Ph. Eur., JP) pure, pharma grade	122
77-92-9	Citric Acid anhydrous for analysis, ACS	121
77-92-9	Citric Acid solution 15 % w/v pharma grade	123
77-93-0	Triethyl Citrate (Ph. Eur., NF) pure, pharma grade	543
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78-78-4	Isopentane for UV, IR, HPLC	258
78-78-4	Isopentane pure	258
78-83-1	Isobutanol (F.C.C.) food grade	256
78-83-1	Isobutanol (Reag. Ph. Eur.) for analysis, ACS	256
78-83-1	Isobutanol pure	256
78-83-1	Isobutanol, 99 % for synthesis	256
78-92-2	2-Butanol (Reag. Ph. Eur.) for analysis	92
78-92-2	2-Butanol, 99 % for synthesis	92
78-93-3	Butanone (Methylethylketone) (Reag. USP, Ph. Eur.) for analysis, ACS	92
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79-01-6	Trichloroethylene, 99 % stabilized with ethanol for synthesis	541
79-01-6	Trichloroethylene, stabilized with ethanol (Reag. Ph. Eur.) for analysis, ACS	541
79-01-6	Trichloroethylene, stabilized with ethanol pure	541
79-06-1	Acrylamide 2K Standard grade, extrapure	27
79-06-1	Acrylamide 4K ultrapure	27
79-06-1	Acrylamide for molecular biology	27
79-09-4	Propionic Acid, 99 % for synthesis	409
79-14-1	Glycolic Acid solution 70 % for synthesis	216
79-21-0	Peracetic Acid 15 % pure	358
79-21-0	Peracetic Acid solution 15 % w/w	358
79-33-4	L(+)-Lactic Acid (BP, Ph. Eur.) pure, pharma grade	264
79-33-4	L(+)-Lactic Acid (F.C.C.) food grade	264
79-33-4	L(+)-Lactic Acid for analysis	264
79-34-5	1,1,2,2-Tetrachloroethane, 98 % for synthesis	527
81-25-4	Cholic Acid BioChemica	119
81-88-9	Rhodamine B (C.I. 45170)	417
81-88-9	Rhodamine B (C.I. 45170) for clinical diagnosis	417
83-07-8	4-Aminoantipyrine BioChemica	42
83-07-8	4-Aminoantipyrine, 98 % for synthesis	42
83-44-3	Deoxycholic Acid BioChemica	143
83-46-5	β-Sitosterol	432
83-88-5	Riboflavin (Ph. Eur., USP) pure, pharma grade	418
83-88-5	Riboflavin BioChemica	417
84-65-1	Anthraquinone, 98 % for synthesis	57
84-74-2	Di-n-Butyl Phthalate pure	94
85-61-0	Coenzyme A free acid BioChemica	125
85-86-9	Sudan III (C.I. 26100) for clinical diagnosis	511
86-87-3	1-Naphthaleneacetic Acid, 97 % for synthesis	329
87-66-1	Pyrogallic Acid (Reag. Ph. Eur.) for analysis, ACS	413
87-66-1	Pyrogallic Acid, 99 % for synthesis	413
87-66-1	Pyrogallol pure	413
87-69-4	L(+)-Tartaric Acid (USP-NF, BP, Ph. Eur.) pharma grade	522
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87-69-4	L(+)-Tartaric Acid pure	522
87-69-4	L(+)-Tartaric Acid technical grade	522
87-89-8	myo-Inositol BioChemica	249
87-99-0	Xylitol (Ph. Eur.) pure, pharma grade	564
88-89-1	Picric Acid moistened with ~ 33 % of H_2O (Reag. Ph. Eur.) pure	374
88-89-1	Picric Acid saturated solution for clinical diagnosis	375
88-89-1	Picric Acid solution 1.2 % BioChemica	375
88-89-1	Picric Acid, 98 % moistened with ~ 33 % of H_2O for synthesis	374
89-83-8	Thymol (Ph. Eur.) pharma grade	534
90-11-9	1-Bromonaphthalene, 96 % for synthesis	84
90-15-3	1-Naphthol (Reag. USP, Ph. Eur.) for analysis	330
90-15-3	1-Naphthol, 99 % for synthesis	330
90-44-8	Anthrone (Reag. Ph. Eur.) for analysis, ACS	57
91-17-8	Decahydronaphthalene, 98 % isomers mixture for synthesis	139
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91-22-5	Quinoline, 96 % for synthesis	415
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92-31-9	Toluidine Blue O (C.I. 52040) for clinical diagnosis	538
92-32-0	Pyronin Y (C.I. 45005)	414
94-13-3	Propyl 4-Hydroxybenzoate, 99 % for synthesis	409
94-36-0	Benzoyl Peroxide humidified with ~ 25 % of H_2O (USP, BP, Ph. Eur.) pure, pharma grade	71
94-36-0	Benzoyl Peroxide, 98 % humidified with ~ 25 % of H_2O for synthesis	71
95-47-6	o-Xylene pure	562
95-48-7	o-Cresol, 99 % for synthesis	132
95-50-1	1,2-Dichlorobenzene, 98 % for synthesis	154
95-92-1	Diethyl Oxalate, 98.5 % for synthesis	158
96-47-9	2-Methyltetrahydrofuran stabilized with ~ 300 ppm of BHT for synthesis	302
96-48-0	gamma-Butyrolactone, 99 % for synthesis	95
97-67-6	L(-)-Malic Acid BioChemica	284
98-55-5	α-Terpineol, 70 % for synthesis	525
98-88-4	Benzoyl Chloride, 99 % for synthesis	71
98-92-0	Nicotinamide (Ph. Eur., USP) pure, pharma grade	333
98-95-3	Nitrobenzene (Reag. Ph. Eur.) for analysis, ACS	337
98-95-3	Nitrobenzene, 99 % for synthesis	337
99-76-3	Methyl-4-Hydroxybenzoate (E-218, F.C.C.) food grade	301
99-76-3	Methyl-4-Hydroxybenzoate (USP-NF, BP, Ph. Eur., JP) pure, pharma grade	300
100-10-7	4-(Dimethylamino) Benzaldehyde (Reag. Ph. Eur.) for analysis, ACS	162
100-10-7	4-(Dimethylamino) Benzaldehyde for analysis	162
100-10-7	4-(Dimethylamino) Benzaldehyde, 99 % for synthesis	162
100-51-6	Benzyl Alcohol (USP-NF, BP, Ph. Eur.) pure, pharma grade	72
100-51-6	Benzyl Alcohol for analysis, ACS	71
100-52-7	Benzaldehyde, 99 % for synthesis	69
100-97-0	Hexamethylenetetramine (Reag. Ph. Eur.) for analysis, ACS	224
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102-71-6	Triethanolamine (BP, Ph. Eur., USP-NF) pharma grade	542
102-71-6	Triethanolamine (USP-NF) pure, pharma grade	543
102-71-6	Triethanolamine BioChemica	543
102-71-6	Triethanolamine for analysis	542
102-71-6	Triethanolamine, 98 % for synthesis	543
102-76-1	Glycerol tri-Acetate (USP, BP, Ph. Eur.) pure, pharma grade	214
103-47-9	CHES for buffer solutions	112
103-84-4	Acetanilide pure	18
105-59-9	N-Methyldiethanolamine for synthesis	301
106-46-7	1,4-Dichlorobenzene, 99 % for synthesis	154
107-06-2	1,2-Dichloroethane (Reag. Ph. Eur.) for analysis, ACS	155
107-06-2	1,2-Dichloroethane for UV, IR, HPLC, GPC	154
107-06-2	1,2-Dichloroethane pure	155
107-15-3	Ethylenediamine, 99 % for synthesis	190
107-21-1	Ethylene Glycol (Reag. USP, Ph. Eur.) for analysis	189
107-21-1	Ethylene Glycol BioChemica	189
107-21-1	Ethylene Glycol pure	189
107-21-1	Ethylene Glycol, 99 % for synthesis	189
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107-35-7	Taurine BioChemica	522
107-41-5	2-Methyl-2,4-Pentanediol (USP-NF) pure, pharma grade	299
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107-83-5	iso-Hexane pure	226
107-92-6	n-Butyric Acid, 99 % for synthesis	95
107-95-9	β-Alanine BioChemica	33
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108-10-1	4-Methyl-2-Pentanone (Reag. Ph. Eur.) for analysis, ACS	299
108-10-1	4-Methyl-2-Pentanone, 99 % for synthesis	299
108-18-9	Di-Isopropylamine, 99 % for synthesis	153
108-20-3	Di-Isopropyl Ether stabilized with ~ 50 ppm of BHT for analysis, ACS	152
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108-21-4	Isopropyl Acetate, 99 % for synthesis	258
108-24-7	Acetic Anhydride (Reag. Ph. Eur.) for analysis, ACS, ISO	21
108-24-7	Acetic Anhydride pure	21
108-24-7	Acetic Anhydride, 98 % for synthesis	21
108-46-3	Resorcinol (USP, BP, Ph. Eur.) pure, pharma grade	416
108-88-3	Toluene (Reag. Ph. Eur.) for analysis, ACS, ISO	537
108-88-3	Toluene dry (max. 0.005 % water), ACS, ISO	537
108-88-3	Toluene for pesticide analysis	537
108-88-3	Toluene for UV, IR, HPLC, GPC, ACS	537
108-88-3	Toluene pure	537
108-88-3	Toluene technical grade	538
108-88-3	Toluene, 99.5 % for synthesis	537
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108-90-7	Chlorobenzene, 99.5 % for synthesis	115
108-94-1	Cyclohexanone for analysis, ACS	135
108-94-1	Cyclohexanone, 99.5 % for synthesis	135
108-95-2	Phenol 85 % aqueous solution pure, pharma grade	366
108-95-2	Phenol 90 % aqueous solution (USP) pure, pharma grade	366
108-95-2	Phenol crystalline (USP, BP, Ph. Eur.) pure, pharma grade	366
108-95-2	Phenol crystalline for analysis, ACS	365
108-95-2	Phenol crystalline Molecular biology grade	366
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109-69-3	1-Chlorobutane Protein for protein sequencing	115
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109-86-4	Ethylene Glycol mono-Methyl Ether for analysis, ACS	190
109-86-4	Ethylene Glycol mono-Methyl Ether, 99 % for synthesis	190
109-89-7	Diethylamine (Reag. USP, Ph. Eur.) for analysis, ACS	158
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109-99-9	Tetrahydrofuran dry (max. 0.0075 % water) stabilized with ~ 300 ppm of BHT, ACS	529
109-99-9	Tetrahydrofuran for UV, IR, HPLC, GPC	529
109-99-9	Tetrahydrofuran stabilized with ~ 300 ppm of BHT for analysis, ACS	529
109-99-9	Tetrahydrofuran stabilized with ~ 300 ppm of BHT pure	529
109-99-9	Tetrahydrofuran technical grade	529
109-99-9	Tetrahydrofuran, 99.5 % stabilized with ~ 300 ppm of BHT for synthesis	529
110-15-6	Succinic Acid (Reag. USP, Ph. Eur.) for analysis, ACS	509
110-15-6	Succinic Acid crystalline pure	509
110-15-6	Succinic Acid, 99 % for synthesis	510
110-16-7	Maleic Acid (BP, Ph. Eur.) pure, pharma grade	283
110-16-7	Maleic Acid (Ph. Eur.) pure, pharma grade	284
110-17-8	Fumaric Acid (USP-NF) pure, pharma grade	203
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110-27-0	Isopropyl Myristate (Ph. Eur.) pure, pharma grade	259
110-27-0	Isopropyl Myristate, 98 % for synthesis	259
110-44-1	Sorbic Acid (E-200, F.C.C.) food grade	474
110-44-1	Sorbic Acid (USP-NF, BP, Ph. Eur.) pure, pharma grade	474
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110-54-3	n-Hexane 95 % for pesticide analysis	225
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110-54-3	n-Hexane 95 % for UV, IR, HPLC, ACS	225
110-54-3	n-Hexane 95 % pure	226
110-54-3	n-Hexane for UV, IR, HPLC	225
110-54-3	n-Hexane pure	225
110-63-4	1,4-Butanediol, 99 % for synthesis	91
110-71-4	1,2-Dimethoxyethane for synthesis	160
110-80-5	Ethylene Glycol mono-Ethyl Ether pure	190
110-80-5	Ethylene Glycol mono-Ethyl Ether, 99 % for synthesis	190
110-82-7	Cyclohexane (Reag. Ph. Eur.) for analysis, ACS, ISO	135
110-82-7	Cyclohexane for pesticide analysis	135
110-82-7	Cyclohexane for UV, IR, HPLC, ACS	134
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110-82-7	Cyclohexane technical grade	135
110-82-7	Cyclohexane, 99.5 % for synthesis	135
110-86-1	Pyridine (max. 0.02 % water) according to Karl Fischer	412
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111-30-8	Glutaraldehyde solution 25 % for clinical diagnosis	212
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111-30-8	Glutaraldehyde solution 25 % for synthesis	212
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111-42-2	Diethanolamine (USP-NF) pharma grade	156
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111-87-5	nol, 99 % for synthesis	343
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112-80-1	Oleic Acid (Ph. Eur.) pure, pharma grade	344
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113-98-4	Penicillin G Potassium Salt (Ph. Eur.) pure, pharma grade	355
113-98-4	Penicillin G Potassium Salt BioChemica	355
114-07-8	Erythromycin base BioChemica	179
115-39-9	Bromophenol Blue	84
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115-39-9	Bromophenol Blue solution 0.04 % for volumetric analysis	84
115-40-2	Bromocresol Purple for analysis	83
115-40-2	Bromocresol Purple solution 0.025 % for volumetric analysis	83
116-63-2	1-Amino-2-Naphthol-4-Sulfonic Acid (Reag. USP) for analysis, ACS	41
117-39-5	Quercetin for HPLC	414
117-39-5	Quercetin pure	414
118-00-3	Guanosine BioChemica	219
119-26-6	2,4-Dinitrophenylhydrazine moistened with~ 33 % of H_2O (Reag. Ph. Eur.) for analysis	164
119-26-6	2,4-Dinitrophenylhydrazine, 99 % moistened with~ 33 % of H_2O for synthesis	164
119-36-8	Methyl Salicylate (Ph. Eur., NF) pure, pharma grade	299
119-93-7	o-Tolidine (Reag. USP, Ph. Eur.) for analysis	536
119-93-7	o-Tolidine solution 0.1 %	537
120-51-4	Benzyl Benzoate (USP, BP, Ph. Eur.) pure, pharma grade	72
120-82-1	1,2,4-Trichlorobenzene for UV, IR, HPLC, GPC	541
121-33-5	Vanillin (USP-NF, BP, Ph. Eur.) pure, pharma grade	556
121-44-8	Triethylamine (Reag. USP) for analysis	543
121-44-8	Triethylamine BioChemica	543
121-44-8	Triethylamine pure	543
121-44-8	Triethylamine, 99.5 % for synthesis	543
121-54-0	Benzethonium Chloride (BP, Ph. Eur.) pure, pharma grade	70
121-54-0	Benzethonium Chloride 0.004 mol/l (0.004M) volumetric solution	70
121-54-0	Benzethonium Chloride BioChemica	70
121-57-3	Sulfanilic Acid (Reag. Ph. Eur.) for analysis, ACS	511
121-57-3	Sulfanilic Acid pure	511
121-79-9	n-Propyl Gallate (Ph. Eur.) pure, pharma grade	409
122-39-4	Diphenylamine (Reag. Ph. Eur.) for analysis, ACS	165
122-99-6	2-Phenoxyethanol, 99 % for synthesis	370
123-30-8	4-Aminophenol, 98 % for synthesis	43
123-31-9	Hydroquinone (USP) pure, pharma grade	241
123-31-9	Hydroquinone, 99 % for synthesis	241
123-42-2	4-Hydroxy-4-Methyl-2-Pentanone, 98 % for synthesis	242
123-51-3	Isoamyl Alcohol (Reag. Ph. Eur.) for analysis, ACS	255
123-51-3	Isoamyl Alcohol according to Gerber for analysis	255
123-51-3	Isoamyl Alcohol for molecular biology	256
123-51-3	Isoamyl Alcohol pure	256
123-54-6	2,4-Pentanedione, 99 % for synthesis	356
123-62-6	Propionic Anhydride for synthesis	409
123-86-4	n-Butyl Acetate (Reag. USP, Ph. Eur.) for analysis, ACS	93
123-86-4	n-Butyl Acetate pure	93
123-91-1	1,4-Dioxan stabilized with ~ 2 ppm of BHT for UV, IR, HPLC	164
123-91-1	1,4-Dioxan stabilized with ~ 25 ppm of BHT (Reag. Ph. Eur.) for analysis, ACS, ISO	164
123-91-1	1,4-Dioxan stabilized with ~ 25 ppm of BHT pure	165
123-91-1	1,4-Dioxan, 99.5 % stabilized with ~ 25 ppm of BHT for synthesis	165
124-04-9	Adipic Acid (USP-NF, BP, Ph. Eur.) pure, pharma grade	31
124-04-9	Adipic Acid for synthesis	31
124-07-2	Octanoic Acid (BP, Ph. Eur.) pharma grade	342
124-20-9	Spermidine BioChemica	476
124-68-5	2-Amino-2-Methyl-1-Propanol for buffer solutions	41
125-20-2	Thymolphthalein for analysis, ACS	534
125-20-2	Thymolphthalein solution 0.1 % for volumetric analysis	534
127-08-2	Potassium Acetate (BP, Ph. Eur.) pure, pharma grade	381
127-08-2	Potassium Acetate BioChemica	381
127-08-2	Potassium Acetate for analysis	381
127-08-2	Potassium Acetate for molecular biology	381
127-09-3	Sodium Acetate anhydrous [illegible] Ph. Eur.) for analysis, ACS	433
127-09-3	Sodium Acetate anhydrous (USP) pharma grade	[illegible]
127-09-3	Sodium Acetate anhydrous for molecular biology	43
127-17-3	Pyruvic Acid, 98 % for synthesis	414
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1310-73-2	Sodium Hydroxide pellets for analysis, ACS, ISO	447
1310-73-2	Sodium Hydroxide pellets for molecular biology	448
1310-73-2	Sodium Hydroxide pellets technical grade	448
1310-73-2	Sodium Hydroxide solution 30 % w/v	451
1310-73-2	Sodium Hydroxide solution 30 % w/w pure, pharma grade	451
1310-73-2	Sodium Hydroxide solution 32 % w/v for analysis	451
1310-73-2	Sodium Hydroxide solution 40 % w/v for analysis	450
1310-73-2	Sodium Hydroxide solution 40 % w/v pure	450
1310-73-2	Sodium Hydroxide solution 50 % w/v pure	449
1310-73-2	Sodium Hydroxide solution 50 % w/v technical grade	449
1312-81-8	Lanthanum(III) Oxide (Reag. Ph. Eur.) for analysis	266
1312-81-8	Lanthanum(III) Oxide pure	266
1313-60-6	Sodium Peroxide granulated for analysis	464
1313-60-6	Sodium Peroxide granulated for analysis, ACS	464
1313-60-6	Sodium Peroxide, 95 % granulated for synthesis	464
1313-84-4	Sodium Sulfide x-hydrate technical grade	469
1314-13-2	Zinc Oxide (Ph. Eur., BP, USP) GMP - IPEC grade	568
1314-13-2	Zinc Oxide (USP, BP, Ph. Eur.) pharma grade	568
1314-13-2	Zinc Oxide for analysis, ACS	567
1314-13-2	Zinc Oxide pure	568
1314-56-3	di-Phosphorus Pentoxide (Reag. Ph. Eur.) for analysis, ACS, ISO	374
1314-56-3	di-Phosphorus Pentoxide pure	374
1317-36-8	Lead(II) Oxide (DAC) pure, pharma grade	269
1317-38-0	Copper(II) Oxide pure	130
1330-20-7	Xylene - Mixture of isomeres (Ph. Helv.) pure, pharma grade	563
1330-20-7	Xylene - Mixture of isomeres (Reag. Ph. Eur.) for analysis, ACS, ISO	563
1330-20-7	Xylene - Mixture of isomeres for clinical diagnosis	563
1330-20-7	Xylene - Mixture of isomeres for histology	563
1330-20-7	Xylene - Mixture of isomeres pure	563
1330-20-7	Xylene - Mixture of isomers technical grade	563
1330-20-7	Xylene, 98.5 % mixture of isomers for synthesis	563
1330-43-4	di-Sodium tetra-Borate anhydrous for analysis	470
1330-43-4	di-Sodium tetra-Borate anhydrous pure	470
1332-58-7	Kaolin (Ph. Eur.) pure, pharma grade	260
1333-82-0	Chromium(VI) Oxide (Reag. Ph. Eur.) for analysis	
1335-32-6	Lead(II) Hydroxideacetate for sugar analysis according to Horne, ACS	268
1335-32-6	Lead(II) Hydroxideacetate solution ~ 23 % w/w (as Pb) pure	268
1335-32-6	Lead(II) Hydroxideacetate solution pure	268
1336-21-6	Ammonia 20 % (as NH_3) for analysis	45
1336-21-6	Ammonia 20 % (as NH_3) for trace metal analysis (ppb)	45
1336-21-6	Ammonia 20 % (as NH_3) for trace metal analysis (ppt)	45
1336-21-6	Ammonia 20 % (as NH_3) pure	45
1336-21-6	Ammonia 25 % (as NH_3) (BP, Ph. Eur.) pure, pharma grade	45
1336-21-6	Ammonia 25 % (as NH_3) (Reag. USP, Ph. Eur.) for analysis	44
1336-21-6	Ammonia 25 % (as NH_3) technical grade	45
1336-21-6	Ammonia 30 % (as NH_3) (USP-NF, BP, Ph. Eur.) pure, pharma grade	44
1336-21-6	Ammonia 30 % (as NH_3) for analysis, ACS	44
1336-21-6	Ammonia 32 % (as NH_3) pure	44
1336-21-6	Ammonia solution 10 % pure	46
1336-21-6	Ammonia solution 25 % DNA for DNA synthesis	44
1336-21-6	Ammonia solution 25 % for synthesis	45
1338-39-2	Sorbitan Monolaurate (USP-NF, BP, Ph. Eur.) pure, pharma grade	474
1338-41-6	Sorbitan Monostearate (USP-NF, BP, Ph. Eur.) pure, pharma grade	475
1341-49-7	Ammonium Hydrogen di-Fluoride pure	49
1343-88-0	Florisil® for chromatography 60-100 mesh	196
1344-09-8	Sodium Silicate neutral solution technical grade	467
1344-28-1	Aluminium Oxide 90 active neutral Chromatography grade	39
1344-28-1	Aluminium Oxide Basic (Reag. Ph. Eur.) for analysis	39
1390-65-4	Carmine (Lacquer of carminic acid with calcium and aluminium) (C.I. 75470) for clinical diagnosis	105
1393-48-2	Thiostrepton BioChemica	533
1393-92-6	Lacmus pure (C.I. 1242)	264
1397-89-3	Amphotericin B (Ph. Eur.) pure, pharma grade	55
1397-89-3	Amphotericin B BioChemica	55
1400-61-9	Nystatin 2-hydrate BioChemica	341
1400-62-0	Orcein for clinical diagnosis	344
1401-55-4	Tannic Acid (USP, BP, Ph. Eur.) pure, pharma grade	521
1404-93-9	Vancomycin Hydrochloride (Ph. Eur.) pure, pharma grade	555
1404-93-9	Vancomycin Hydrochloride BioChemica	555
1405-10-3	Neomycin Sulfate (Ph. Eur.) pure, pharma grade	331
1405-10-3	Neomycin Sulfate BioChemica	331
1405-20-5	Polymyxin B Sulfate BioChemica	379
1405-41-0	Gentamycin Sulfate (Ph. Eur.) pure, pharma grade	206
1405-41-0	Gentamycin Sulfate BioChemica	206
1405-69-2	Avidin BioChemica	66
1405-87-4	Bacitracin BioChemica	66
1405-97-6	Gramicidin	217
1461-15-0	Calcein for analysis	96
1465-25-4	N-(1-Naphthyl) Ethylenediamine Dihydrochloride for analysis, ACS	330
1470-61-7	Silver Diethyldithiocarbamate (Reag. USP, Ph. Eur.) for analysis, ACS	428
1476-53-5	Novobiocin Sodium Salt BioChemica	341
1592-23-0	Calcium Stearate (USP-NF, BP, Ph. Eur.) pure, pharma grade	102
1600-27-7	Mercury(II) Acetate (Reag. Ph. Eur.) for analysis, ACS	291
1609-47-8	DEPC BioChemica	144
1634-04-4	tert.-Butyl Methyl Ether technical grade	93
1634-04-4	tert-Butyl Methyl Ether (Reag. USP, Ph. Eur.) for analysis, ACS	93
1634-04-4	tert-Butyl Methyl Ether for UV, IR, HPLC	93
1634-04-4	tert-Butyl Methyl Ether pure	93
1634-04-4	tert-Butyl Methyl Ether, 99.5 % for synthesis	93
1670-14-0	Benzamidine Hydrochloride BioChemica	69
1762-95-4	Ammonium Thiocyanate (Reag. Ph. Eur.) for analysis, ACS, ISO	54
1762-95-4	Ammonium Thiocyanate 0.1 mol/l (0.1N) (Reag. USP, Ph. Eur.) volumetric solution	54
1762-95-4	Ammonium Thiocyanate pure	54
1787-61-7	Eriochrome Black T (C.I. 14645) for analysis, ACS	179
1811-31-0	N-Acetyl-D-Galactosamine	25
1866-15-5	Acetylthiocholine Iodide BioChemica	25
2001-95-8	Valinomycin BioChemica	555
2013-26-5	α-Ketobutyric Acid Sodium Salt BioChemica	261

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2035-15-6	(-)-Maackiain for HPLC	277
2044-56-6	Lithium Dodecylsulfate BioChemica	273
2052-49-5	Tetrabutylammonium Hydroxide 0.1 mol/l (0.1N) in methanol volumetric solution	527
2052-49-5	Tetrabutylammonium Hydroxide 0.1 mol/l (0.1N) in2-propanol/methanol (11:1) volumetric solution	527
2052-49-5	Tetrabutylammonium Hydroxide 0.1 mol/l (0.1N) intoluene/methanol (9:1) volumetric solution	527
2052-49-5	Tetrabutylammonium Hydroxide 1 mol/l (1N) in methanol volumetric solution	526
2052-49-5	Tetrabutylammonium Hydroxide aqueous solution 20 % w/w for synthesis	526
2052-49-5	Tetrabutylammonium Hydroxide solution 40 % in methanol for synthesis	526
2058-46-0	Oxytetracycline Hydrochloride	347
2068-80-6	L-Aspartic Acid Magnesium Salt (Ph. Eur.) pure, pharma grade	65
2207-68-3	1-(4-Nitrophenyl)-1,2,3-Propanetriol	339
2219-31-0	Canavanine Sulfate BioChemica	103
2222-07-3	Cucurbitacin I for HPLC	133
2321-07-5	Fluorescein (C.I. 45350) for analysis	196
2353-45-9	Fast Green FCF (C.I. 42053)	193
2386-52-9	Silver Methanesulfonate pure	428
2386-54-1	1-Butane Sulfonic Acid Sodium Salt for HPLC	91
2390-59-2	Ethyl Violet (C.I. 42600) for analysis	188
2415-24-9	Catalpol for HPLC	106
2437-29-8	Malachite Oxalate Green (C.I. 42000) for clinical diagnosis	283
2438-80-4	L(-)-Fucose BioChemica	202
2498-50-2	p-Aminobenzamidine Dihydrochloride BioChemica	42
2530-85-0	3-Methacryloxypropyl trimethoxysilane	294
2591-17-5	D-Luciferin free acid	274
2611-82-7	Cochenille Red (C.I. 16255)	125
2645-08-1	N-α-Benzoyl-L-Arginine Ethyl Ester Hydrochloride (BAEE) BioChemica	71
2646-71-1	NADPH Tetrasodium Salt	329
2687-91-4	1-Ethyl-2-Pyrrolidone for synthesis	189
2832-45-3	1-Hexane Sulfonic Acid Sodium Salt for HPLC	227
3012-65-5	di-Ammonium Hydrogen Citrate (Reag. Ph. Eur.) for analysis, ACS	49
3012-65-5	di-Ammonium Hydrogen Citrate pure	49
3051-09-0	Murexide (C.I. 56085) (Reag. Ph. Eur.) for analysis, ACS	327
3184-13-2	L-Ornithine Hydrochloride (DAB) pure, pharma grade	345
3184-13-2	L-Ornithine Hydrochloride BioChemica	345
3244-88-0	Fuchsin Acidic Disodium Salt (C.I. 42685)	202
3244-88-0	Fuchsin Acidic Disodium Salt (C.I. 42685) for clinical diagnosis	202
3326-32-7	FITC BioChemica	195
3458-28-4	D(+)-Mannose BioChemica	288
3483-12-3	DTT BioChemica	170
3483-12-3	DTT for molecular biology	170
3513-03-9	Blasticidin S Hydrochloride BioChemica	76
3536-49-0	Patent Blue V Calcium salt (C.I. 42051)	351
3593-13-8	S-(5'-Adenosyl)-L-Methionine Iodide BioChemica	31
3618-43-7	Xylenol Orange Tetrasodium Salt for analysis, ACS	564
3671-99-6	Glucose-6-Phosphate Disodium Salt 2-hydrate	210
3681-93-4	Vitexin for HPLC	558
3737-95-9	Calconcarboxylic Acid (Reag. Ph. Eur.) for analysis	103
3810-74-0	Streptomycin Sulfate BioChemica	508
3811-04-9	Potassium Chlorate (Ph. Helv.) pure, pharma grade	383
3811-04-9	Potassium Chlorate (Reag. Ph. Eur.) for analysis, ACS	383
3811-04-9	Potassium Chlorate pure (with anti-caking agent)	383
3844-45-9	Erioglaucine (C.I.42090)	80
3952-98-5	Sinigrin 1-hydrate for HPLC	432
3952-98-5	Sinigrin 1-hydrate pure	432
3992-42-5	2'-Deoxycytidine Hydrochloride BioChemica	143
4197-25-5	Sudan Black B (C.I. 26150)	510
4264-83-9	4-Nitrophenyl Phosphate Disodium Salt 6-hydrate BioChemica	338
4265-07-0	Phosphoenolpyruvate Monopotassium Salt BioChemica	371
4272-74-6	N-α-Tosyl-L-Lysine Chloromethyl Ketone Hydrochloride (TLCK) BioChemica	538
4356-52-9	Glucobrassicin for HPLC	208
4432-31-9	MES anhydrous BioChemica	294
4432-31-9	MES anhydrous for molecular biology	293
4463-44-9	Xylene Cyanol FF (C.I. 42135) BioChemica	564
4463-44-9	Xylene Cyanol FF (C.I. 42135) for molecular biology	563
4499-86-9	Tetrabutylammonium Hydroxide solution 40 % for synthesis	530
4618-18-2	Lactulose BioChemica	265
4621-66-3	Thionicotinamide	533
4800-94-6	Carbenicillin Disodium Salt BioChemica	104
5115-71-9	Glucotropaeolin for HPLC	210
5141-20-8	Light Green solution 0.1 % for clinical diagnosis	271
5144-89-8	1,10-Phenanthroline 1-hydrate	365
5144-89-8	1,10-Phenanthroline 1-hydrate for analysis, ACS	365
5204-74-0	Triethylammonium acetate buffer pH 7.0 (1 M)	544
5263-02-5	Zinc Hydroxide Carbonate pure	567
5324-84-5	1-Octane Sulfonic Acid Sodium Salt for HPLC	342
5328-37-0	L(+)-Arabinose BioChemica	63
5329-14-6	Amidosulfuric Acid (Reag. USP, Ph. Eur.) for analysis, ACS	41
5329-14-6	Amidosulfuric Acid for synthesis	41
5329-14-6	Amidosulfuric Acid pure	41
5341-61-7	Hydrazinium di-Chloride (Reag. USP) for analysis	230
5373-11-5	Luteolin-7-Glucoside for HPLC	276
5451-09-2	5-Aminolevulinic Acid Hydrochloride BioChemica	43
5470-11-1	Hydroxylammonium Chloride (max. 0.000001 % Hg) for analysis, ACS, ISO	242
5470-11-1	Hydroxylammonium Chloride (Reag. Ph. Eur.) for analysis, ACS, ISO	242
5470-11-1	Hydroxylammonium Chloride pure	242
5574-97-0	Tetrabutylammonium di-Hydrogen Phosphate	525
5574-97-0	Tetrabutylammonium di-Hydrogen Phosphate for HPLC	525
5625-37-6	PIPES for buffer solutions	375
5625-37-6	PIPES for molecular biology	375
5665-94-1	5-Chlorcarvacrol, 97 % for synthesis	113
5704-04-1	Tricine BioChemica	542
5704-04-1	Tricine for molecular biology	542
5743-04-4	Cadmium Acetate 2-hydrate (Reag. USP) for analysis	95
5785-44-4	tri-Calcium di-Citrate 4-hydrate (E-333iii, F.C.C.) food grade	99
5794-13-8	L-Asparagine 1-hydrate (Ph. Eur.) pure, pharma grade	65
5794-13-8	L-Asparagine 1-hydrate BioChemica	64
5794-13-8	L-Asparagine 1-hydrate for cell culture	64
5934-29-2	L-Histidine Hydrochloride 1-hydrate (Ph. Eur.) pure, pharma grade	228
5934-29-2	L-Histidine Hydrochloride 1-hydrate BioChemica	228
5949-29-1	Citric Acid 1-hydrate (E-330, F.C.C.) food grade	122
5949-29-1	Citric Acid 1-hydrate (Ph. Eur., BP, USP) GMP - IPEC grade	122
5949-29-1	Citric Acid 1-hydrate (USP, BP, Ph. Eur., JP) pure, pharma grade	122
5949-29-1	Citric Acid 1-hydrate BioChemica	123
5949-29-1	Citric Acid 1-hydrate for analysis, ACS, ISO	122
5949-29-1	Citric Acid 1-hydrate for buffer solutions	123
5949-29-1	Citric Acid 1-hydrate for synthesis	122
5949-29-1	Citric Acid 1-hydrate technical grade	123
5965-83-3	5-Sulfosalicylic Acid 2-hydrate (Reag. Ph. Eur.) for analysis, ACS	512
5970-45-6	Zinc Acetate 2-hydrate (Reag. USP, Ph. Eur.) for analysis, ACS	566
5970-45-6	Zinc Acetate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	566
5989-27-5	Citrosol (Substitute of Xylene) for clinical diagnosis	124
5995-86-8	Gallic Acid 1-hydrate, 99 % for synthesis	204
6001-64-5	1,1,1-Trichloro-2-Methyl-2-Propanol 1/2-hydrate (BP, Ph. Eur.) pure, pharma grade	539
6009-70-7	di-Ammonium Oxalate 1-hydrate (Reag. Ph. Eur.) for analysis, ACS	52
6009-70-7	di-Ammonium Oxalate 1-hydrate pure	52
6046-93-1	Copper(II) Acetate 1-hydrate pure	129
6080-56-4	Lead(II) Acetate 3-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO	268
6080-56-4	Lead(II) Acetate 3-hydrate pure	268
6100-05-6	tri-Potassium Citrate 1-hydrate (E-332ii, F.C.C.) food grade	386
6100-05-6	tri-Potassium Citrate 1-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	386
6100-19-2	Potassium Tartrate 1/2-hydrate (Reag. Ph. Eur.) for analysis	404
6104-58-1	Coomassie® Brilliant Blue G-250 (C.I. 42655)	128
6104-59-2	Coomassie® Brilliant Blue R-250 (C.I. 42660)	128
6106-04-3	Sodium L-Glutamate 1-hydrate (USP-NF) pure, pharma grade	459
6106-21-4	Sodium Succinate 6-hydrate for analysis	467
6106-24-7	Sodium Tartrate 2-hydrate (E-335ii, F.C.C.) food grade	
6106-24-7	Sodium Tartrate 2-hydrate (Reag. Ph. Eur.) for analysis	470
6106-24-7	Sodium Tartrate 2-hydrate pure	470
6106-24-7	Sodium Tartrate 2-hydrate standard for volumetry, ACS	505
6108-17-4	Lithium Acetate 2-hydrate for analysis	272
6131-90-4	Sodium Acetate 3-hydrate (Ph. Eur., BP, USP) GMP - IPEC grade	434
6131-90-4	Sodium Acetate 3-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	434
6131-90-4	Sodium Acetate 3-hydrate BioChemica	434
6131-90-4	Sodium Acetate 3-hydrate for analysis, ACS, ISO	433
6131-90-4	Sodium Acetate 3-hydrate technical grade	434
6131-99-3	Cacodylic Acid Sodium Salt 3-hydrate BioChemica	95
6132-02-1	Sodium Carbonate 10-hydrate (E-500i, F.C.C.) food grade	436
6132-02-1	Sodium Carbonate 10-hydrate for analysis, ISO	436
6132-02-1	Sodium Carbonate 10-hydrate pure	436
6132-04-3	tri-Sodium Citrate 2-hydrate (E-331iii, F.C.C) food grade	440
6132-04-3	tri-Sodium Citrate 2-hydrate (Ph. Eur., BP, USP) GMP - IPEC grade	440
6132-04-3	tri-Sodium Citrate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	440
6132-04-3	tri-Sodium Citrate 2-hydrate BioChemica	440
6132-04-3	tri-Sodium Citrate 2-hydrate for analysis, ACS	439
6132-04-3	tri-Sodium Citrate 2-hydrate for buffer solutions	440
6132-04-3	tri-Sodium Citrate 2-hydrate for molecular biology	440
6138-23-4	D(+)-Trehalose 2-hydrate BioChemica	539
6138-23-4	D(+)-Trehalose 2-hydrate endotoxin free	539
6147-53-1	Cobalt(II) Acetate 4-hydrate (Reag. USP) for analysis, ACS	124
6153-39-5	3,5-Dihydroxytoluene 1-hydrate, 99 % for synthesis	160
6153-56-6	Oxalic Acid 0.005 mol/l (0.01N) volumetric solution	346
6153-56-6	Oxalic Acid 0.05 mol/l (0.1N) (Reag. USP) volumetric solution	346
6153-56-6	Oxalic Acid 0.5 mol/l (1N) volumetric solution	346
6153-56-6	Oxalic Acid 2-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO	346
6153-56-6	Oxalic Acid 2-hydrate pure	346
6153-56-6	Oxalic Acid 2-hydrate solution 19 g/l	346
6156-78-1	Manganese(II) Acetate 4-hydrate pure	286
6156-78-1	Manganese(II) Acetate 4-hydrate technical grade	286
6160-80-1	MUG 3-hydrate BioChemica	326
6192-52-5	Toluene-4-Sulfonic Acid 1-hydrate, 98 % for synthesis	538
6209-65-0	Heliotrine-N-Oxide for HPLC	221
6226-79-5	Ponceau S (C.I. 27195)	380
6303-21-5	Hypophosphorous Acid 50 % pure	244
6363-53-7	D(+)-Maltose 1-hydrate BioChemica	285
6363-53-7	D(+)-Maltose 1-hydrate pure	285
6381-59-5	Potassium Sodium Tartrate 4-hydrate (USP) pure, pharma grade	402
6381-59-5	Potassium Sodium Tartrate 4-hydrate for analysis, ACS, ISO	402
6381-92-6	EDTA Disodium Salt 0.01 mol/l (0.01M) volumetric solution	174
6381-92-6	EDTA Disodium Salt 0.01783 mol/l (0.01783N) volumetric solution	173
6381-92-6	EDTA Disodium Salt 0.05 mol/l (0.05M) volumetric solution	173
6381-92-6	EDTA Disodium Salt 0.1 mol (37.224g $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$) to prep.1l of 0.1M sol.	173
6381-92-6	EDTA Disodium Salt 0.1 mol/l (0.1M) volumetric solution	173
6381-92-6	EDTA Disodium Salt 2-hydrate (F.C.C.) food grade	172
6381-92-6	EDTA Disodium Salt 2-hydrate (Ph. Eur., BP, USP) GMP - IPEC grade	172
6381-92-6	EDTA Disodium Salt 2-hydrate (Reag. Ph. Eur.) for analysis, ACS	172
6381-92-6	EDTA Disodium Salt 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	172
6381-92-6	EDTA Disodium Salt 2-hydrate BioChemica	173
6381-92-6	EDTA Disodium Salt 2-hydrate for molecular biology	173
6382-01-0	L-Glutamic Acid Monopotassium Salt 1-hydrate for analysis	399
6382-01-0	Potassium L-Glutamate 1-hydrate BioChemica	399
6409-77-4	Nuclear Fast Red (C.I. 60760) for microscopy	341
6484-52-2	Ammonium Nitrate for analysis	52
6484-52-2	Ammonium Nitrate pure	52
6484-52-2	Ammonium Nitrate technical grade	52

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6487-48-5	di-Potassium Oxalate 1-hydrate for analysis	400
6487-48-5	di-Potassium Oxalate 1-hydrate pure	400
6578-06-9	BCIP BioChemica	68
6754-58-1	Xanthohumol for HPLC	562
6850-28-8	Tris Acetate for buffer solutions	545
6858-44-2	tri-Sodium Citrate 5.5-hydrate for analysis	440
6858-44-2	tri-Sodium Citrate 5.5-hydrate pure	440
6892-68-8	DTE BioChemica	170
6906-38-3	Delphinidin-3-Glucoside Chloride for HPLC	142
6906-39-4	Peonidin-3-Glucoside Chloride for HPLC	357
6976-37-0	Bis-Tris for buffer solutions	75
6976-37-0	Bis-Tris for molecular biology	75
6988-81-4	Petunidin-3-Glucoside Chloride for HPLC	364
7048-04-6	L-Cysteine Hydrochloride 1-hydrate (Ph. Eur., USP) pure, pharma grade	137
7048-04-6	L-Cysteine Hydrochloride 1-hydrate BioChemica	137
7048-04-6	L-Cysteine Hydrochloride 1-hydrate for cell culture	137
7080-50-4	Chloramine T 3-hydrate (BP, Ph. Eur.) pure, pharma grade	113
7080-50-4	Chloramine T 3-hydrate (Reag. USP) for analysis, ACS	113
7084-24-4	Kuromanin Chloride for HPLC	263
7177-48-2	Ampicillin 3-hdrate for molecular biology	55
7228-78-6	Oenin Chloride pure	343
7240-37-1	7-Aminoactinomycin D BioChemica	42
7240-90-6	X-Gal BioChemica	561
7240-90-6	X-Gal for molecular biology	561
7365-44-8	TES	525
7365-45-9	HEPES for buffer solutions	222
7365-45-9	HEPES for cell culture	222
7365-45-9	HEPES for molecular biology	221
7365-82-4	ACES for buffer solutions	17
7411-49-6	3,3'-Diaminobenzidine Tetrahydrochloride BioChemica	153
7429-90-5	Aluminium metal, powder pure	38
7439-89-6	Iron metal, fine granulated technical grade	253
7439-95-4	Magnesium metal, filings pure	278
7439-95-4	Magnesium metal, ribbon technical grade	278
7439-97-6	Mercury metal pure	291
7439-97-6	Mercury metal tridistilled (Reag. Ph. Eur.) for analysis, ACS	291
7440-23-5	Sodium metal, sticks pure	460
7440-23-5	Sodium, 99 % metal, sticks in vaseline oil for synthesis	474
7440-44-0	Charcoal Activated granulated n° 2 technical grade	110
7440-44-0	Charcoal Activated granulated n° 3 technical grade	110
7440-44-0	Charcoal Activated powder (E-153, F.C.C.) food grade	111
7440-44-0	Charcoal Activated powder for analysis	111
7440-44-0	Charcoal Activated powder technical grade	111
7440-50-8	Copper metal, powder pure	128
7440-50-8	Copper, 99 % metal, turnings for synthesis	128
7440-66-6	Zinc metal, powder pure	567
7446-19-7	Zinc Sulfate 1-hydrate (F.C.C.) food grade	568
7446-19-7	Zinc Sulfate 1-hydrate (USP, Ph. Eur., BP) pure, pharma grade	568
7446-20-0	Zinc Sulfate 0.05 mol/l (0.05M) volumetric solution	569
7446-20-0	Zinc Sulfate 0.1 mol/l (0.1M) volumetric solution	569
7446-20-0	Zinc Sulfate 7-hydrate (F.C.C.) food grade	568
7446-20-0	Zinc Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	568
7446-20-0	Zinc Sulfate 7-hydrate for analysis, ACS	568
7447-40-7	Potassium Chloride (E-508, F.C.C.) food grade	384
7447-40-7	Potassium Chloride (USP, BP, Ph. Eur.) pharma grade	384
7447-40-7	Potassium Chloride 3 mol/l for volumetric analysis	384
7447-40-7	Potassium Chloride BioChemica	384
7447-40-7	Potassium Chloride for analysis, ACS, ISO	383
7447-40-7	Potassium Chloride for molecular biology	384
7447-40-7	Potassium Chloride pure	384
7447-40-7	Potassium Chloride saturated solution for volumetric analysis	384
7447-40-7	Potassium Chloride standard for volumetry, ACS, ISO	504
7447-40-7	Potassium Chloride technical grade	384
7447-41-8	Lithium Chloride (Reag. USP, Ph. Eur.) for analysis, ACS	272
7447-41-8	Lithium Chloride 1 mol/l in ethanol for volumetric analysis	273
7447-41-8	Lithium Chloride BioChemica	273
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7487-88-9	Magnesium Sulfate 65 % dry, powder (BP) pure, pharma grade	282
7487-88-9	Magnesium Sulfate anhydrous pure	282
7487-88-9	Magnesium Sulfate anhydrous technical grade	282
7487-94-7	Mercury(II) Chloride for analysis, ACS	292
7487-94-7	Mercury(II) Chloride pure	292
7512-17-6	N-Acetyl-D-Glucosamine BioChemica	25
7553-56-2	Iodine 0.01 mol/l (0.02N) volumetric solution	250
7553-56-2	Iodine 0.02365 mol/l (0.0473N) (ASTM D 1510) volumetric solution	250
7553-56-2	Iodine 0.025 mol/l (0.05N) (Reag. USP) volumetric solution	250
7553-56-2	Iodine 0.05 mol (12.690g I2) to prepare 1l of 0.1N solution	250
7553-56-2	Iodine 0.05 mol/l (0.1N) (Reag. USP, Ph. Eur.) volumetric solution	250
7553-56-2	Iodine 0.5 mol/l (1N) volumetric solution	250
7553-56-2	Iodine crude technical grade	249
7553-56-2	Iodine resublimed pearls (USP, BP, Ph. Eur.) pure, pharma grade	249
7553-56-2	Iodine resublimed pearls for analysis, ACS	249
7558-79-4	di-Sodium Hydrogen Phosphate anhydrous (Reag. Ph. Eur.) for analysis, ACS	445
7558-79-4	di-Sodium Hydrogen Phosphate anhydrous (USP, BP, Ph. Eur.) pure, pharma grade	446
7558-79-4	di-Sodium Hydrogen Phosphate anhydrous BioChemica	446
7558-79-4	di-Sodium Hydrogen Phosphate anhydrous for molecular biology	446
7558-80-7	Sodium di-Hydrogen Phosphate anhydrous for analysis	441
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7601-90-3	Perchloric Acid 60 % for analysis, ACS, ISO	359
7601-90-3	Perchloric Acid 60 % pure	359
7601-90-3	Perchloric Acid 70 % for analysis, ACS, ISO	359
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7631-99-4	Sodium Nitrate (E-251, F.C.C.) food grade	461
7631-99-4	Sodium Nitrate (Reag. Ph. Eur.) for analysis, ACS, ISO	461
7631-99-4	Sodium Nitrate pure	461
7632-00-0	Sodium Nitrite (Reag. Ph. Eur.) for analysis, ACS	462
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7646-85-7	Zinc Chloride (Ph. Eur., USP) pharma grade	566
7646-85-7	Zinc Chloride for analysis, ACS	566
7646-85-7	Zinc Chloride for molecular biology	567
7646-85-7	Zinc Chloride pure	566
7646-85-7	Zinc Chloride technical grade	566
7646-93-7	Potassium Hydrogen Sulfate for analysis	393
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7647-01-0	Hydrochloric Acid 0.02 mol/l (0.02N) volumetric solution	237
7647-01-0	Hydrochloric Acid 0.05 mol/l (0.05N) volumetric solution	237
7647-01-0	Hydrochloric Acid 0.1 mol (3.646g HCl) to prepare 1l of 0.1N solution	237
7647-01-0	Hydrochloric Acid 0.1 mol/l (0.1N) volumetric solution	237
7647-01-0	Hydrochloric Acid 0.25 mol/l (0.25N) volumetric solution	237
7647-01-0	Hydrochloric Acid 0.310 mol/l (1,128 % w/v) volumetric solution	237
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7647-01-0	Hydrochloric Acid 1 mol (36.461g HCl) to prepare 1l of 1N solution	236
7647-01-0	Hydrochloric Acid 1 mol/l (1 M) for molecular biology	236
7647-01-0	Hydrochloric Acid 1 mol/l (1N) (Reag. Ph. Eur.) volumetric solution	236
7647-01-0	Hydrochloric Acid 1 mol/l (1N) volumetric solution	236
7647-01-0	Hydrochloric Acid 1.128 % (w/v) for analysis	234
7647-01-0	Hydrochloric Acid 10 % (Ph. Eur., NF) pure, pharma grade	234
7647-01-0	Hydrochloric Acid 10 % for analysis	234
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7647-01-0	Hydrochloric Acid 10 mol/l (10N) volumetric solution	235
7647-01-0	Hydrochloric Acid 15 % pure	234
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7647-01-0	Hydrochloric Acid 20 % pure	233
7647-01-0	Hydrochloric Acid 25 % for analysis, ISO	233
7647-01-0	Hydrochloric Acid 25 % pure	233
7647-01-0	Hydrochloric Acid 25 % technical grade	233
7647-01-0	Hydrochloric Acid 3 mol/l (3N) volumetric solution	235
7647-01-0	Hydrochloric Acid 3.2 % pure	234
7647-01-0	Hydrochloric Acid 30 % for trace metal analysis (ppm)	232
7647-01-0	Hydrochloric Acid 30 % pure	233
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7647-01-0	Hydrochloric Acid 32 % pure	233
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7664-93-9	Sulfuric Acid 0.05 mol/l (0.1N) volumetric solution	519
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7664-93-9	Sulfuric Acid 0.1275 mol/l (0.255N) volumetric solution	518
7664-93-9	Sulfuric Acid 0.13 mol/l (0.26N)	518
7664-93-9	Sulfuric Acid 0.25 mol/l (0.5N) volumetric solution	518
7664-93-9	Sulfuric Acid 0.5 mol/l (1N) volumetric solution	518
7664-93-9	Sulfuric Acid 1 mol/l (2N) volumetric solution	518
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7664-93-9	Sulfuric Acid 10 % pure	517
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7757-82-6	Sodium Sulfate anhydrous pure	468
7757-82-6	Sodium Sulfate anhydrous, granulated for pesticide analysis	468
7757-82-6	Sodium Sulfate anhydrous, powder for pesticide analysis	468
7757-83-7	Sodium Sulfite anhydrous (BP, Ph. Eur.) pharma grade	469
7757-83-7	Sodium Sulfite anhydrous for analysis, ACS	469
7757-83-7	Sodium Sulfite anhydrous pure	469
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10043-35-3	Boron standard solution B=1.000 g/l for ICP	482
10043-52-4	Calcium Chloride anhydrous technical grade	97
10043-52-4	Calcium Chloride dried, powdered BioChemica	98
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10043-52-4	Calcium Chloride granulated, pure	97
10043-67-1	Aluminium Potassium Sulfate dry, powder technical grade	39
10045-94-0	Mercury(II) Nitrate 0.005 mol/l (0.01N) volumetric solution	292
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10049-21-5	Sodium di-Hydrogen Phosphate 1-hydrate (Reag. Ph. Eur.) for analysis, ACS	441
10049-21-5	Sodium di-Hydrogen Phosphate 1-hydrate (USP, BP) pure, pharma grade	441
10049-21-5	Sodium di-Hydrogen Phosphate 1-hydrate BioChemica	441
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10060-12-5	Chromium(III) Chloride 6-hydrate pure	119
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10101-41-4	Calcium Sulfate 2-hydrate for analysis, ACS	102
10101-89-0	tri-Sodium Phosphate 12-hydrate (E 339iii, F.C.C.) food grade	464
10101-89-0	tri-Sodium Phosphate 12-hydrate (Reag. Ph. Eur.) for analysis, ACS	464
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10102-17-7	Sodium Thiosulfate 5-hydrate for analysis, ACS	472
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10102-40-6	Sodium Molybdate 2-hydrate pure	461
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10277-43-7	Lanthanum(III) Nitrate 6-hydrate for analysis	265
10294-26-5	Silver Sulfate for analysis, ACS	431
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10344-94-2	4-Nitrophenyl-β-D-Glucuronide BioChemica	339
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131318	Ethyl Acetate (Reag. Ph. Eur.) for analysis, ACS, ISO	188
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131322	Phenol for analysis, ACS	365
131325	Phenolphthalein (Reag. Ph. Eur.) for analysis, ACS	368
131328	Formaldehyde 37-38 % w/w stabilized with methanol for analysis, ACS	198
131[illegible]	Silica Gel 3-5 mm with indicator cobalt chloride) for analysis, ACS	426
131339	[illegible] analysis, ACS, ISO	212
131340	Glycine (Reag. USP) for analysis, ACS	215
131341	D(+)-Glu[illegible]nhydrous for analysis, ACS	209
131346	Hexamethyl[illegible]amine (Reag. Ph. Eur.) [illegible]nalysis, ACS	224
131350	Hydrazinium Sulfate for analysis, ACS	231
131352	8-Hydroxyquinoline (Reag. Ph. Eur.) for analysis, ACS	243
131358	Iron(III) Chloride 6-hydrate (Reag. Ph. Eur.) for analysis, ACS	254
131362	Iron(II) Sulfate 7-hydrate for analysis, ACS	227
131365	Ammonium Iron(III) Sulfate 12-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO	51
131368	Ammonium Iron(II) Sulfate 6-hydrate (Reag. Ph. Eur.) for analysis, ISO	50
131391	Lithium Carbonate (Reag. Ph. Eur.) for analysis, ACS	272
131392	Lithium Chloride (Reag. USP, Ph. Eur.) for analysis, ACS	272
131394	Magnesium Acetate 4-hydrate (Reag. Ph. Eur.) for analysis, ACS	278
131396	Magnesium Chloride 6-hydrate for analysis, ACS, ISO	278
131402	Magnesium Nitrate 6-hydrate (Reag. Ph. Eur.) for analysis, ACS	281
131404	Magnesium Sulfate 7-hydrate for analysis, ACS	282
131413	Manganese(II) Sulfate 1-hydrate (Reag. Ph. Eur.) for analysis, ACS	287
131417	Mercury(II) Acetate (Reag. Ph. Eur.) for analysis, ACS	291
131419	Mercury(II) Chloride for analysis, ACS	292
131421	Mercury metal tridistilled (Reag. Ph. Eur.) for analysis, ACS	291
131429	Butanone (Methylethylketone) (Reag. USP, Ph. Eur.) for analysis, ACS	92
131430	4-Methyl-2-Pentanone (Reag. Ph. Eur.) for analysis, ACS	299
131431	Methyl Orange (C.I. 13025) for analysis, ACS	298
131436	Murexide (C.I. 56085) (Reag. Ph. Eur.) for analysis, ACS	327
131439	Eriochrome Black T (C.I. 14645) for analysis, ACS	179
131447	Nitrobenzene (Reag. Ph. Eur.) for analysis, ACS	337
131457	Pyridine (Reag. Ph. Eur.) for analysis, ACS	412
131459	Silver Nitrate for analysis, ACS, ISO	429
131466	Lead(II) Acetate 3-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO	268
131467	Lead(II) Hydroxideacetate for sugar analysis according to Horne, ACS	268
131473	Lead(II) Nitrate (Reag. Ph. Eur.) for analysis, ACS	269
131481	Potassium Hydrogen Phthalate for analysis, ISO	392
131487	Potassium Bromate (Reag. Ph. Eur.) for analysis, ACS, ISO	382
131489	Potassium Bromide for analysis, ACS	382
131490	Potassium Carbonate (Reag. Ph. Eur.) for analysis, ACS, ISO	382
131491	Potassium Cyanide (Reag. Ph. Eur.) for analysis, ACS, ISO	386
131493	Potassium Chlorate (Reag. Ph. Eur.) for analysis, ACS	383
131494	Potassium Chloride for analysis, ACS, ISO	383
131497	Potassium Chromate (max. 0.02 % Na) (Reag. Ph. Eur.) for analysis, ACS	385
131500	Potassium Dichromate for analysis, ACS, ISO	387
131503	Potassium Hexacyanoferrate(III) (Reag. Ph. Eur.) for analysis, ACS	390
131505	Potassium Hexacyanoferrate(II) 3-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO	389
131509	Potassium di-Hydrogen Phosphate for analysis, ACS	386
131512	di-Potassium Hydrogen Phosphate anhydrous (Reag. Ph. Eur.) for analysis, ACS	391
131515	Potassium Hydroxide 85 % pellets for analysis, ACS, ISO	393
131524	Potassium Nitrate without anticaking (Reag. Ph. Eur.) for analysis, ISO	399
131527	Potassium Permanganate for analysis, ACS	400
131532	Potassium Sulfate (Reag. Ph. Eur.) for analysis, ACS, ISO	403
131534	Potassium Thiocyanate (Reag. Ph. Eur.) for analysis, ACS, ISO	404
131540	Potassium Iodate (Reag. Ph. Eur.) for analysis, ACS	397
131542	Potassium Iodide for analysis, ACS, ISO	397
131615	Phenol Red for analysis, ACS	368
131617	Methyl Red (C.I. 13020) for analysis, ACS	298
131621	D(+)-Sucrose for analysis, ACS	510
131632	Sodium Acetate 3-hydrate for analysis, ACS, ISO	433
131633	Sodium Acetate anhydrous (Reag. Ph. Eur.) for analysis, ACS	433
131638	Sodium Hydrogen Carbonate for analysis, ACS, ISO	445
131644	di-Sodium tetra-Borate 10-hydrate for analysis, ACS, ISO	470
131647	Sodium Carbonate 10-hydrate for analysis, ISO	436
131648	Sodium Carbonate anhydrous (Reag. Ph. Eur.) for analysis, ACS	436
131655	tri-Sodium Citrate 2-hydrate for analysis, ACS	439
131659	Sodium Chloride for analysis, ACS, ISO	437
131663	Sodium Hexanitrocobaltate(III) for analysis, ACS	445
131666	Sodium Dichromate 2-hydrate (Reag. USP) for analysis, ACS	[illegible]
131668	Sodium Diethyldithiocarbamate 3-hydrate (Reag. Ph. Eur.) for analysis, ACS	443
131669	EDTA Disodium Salt 2-hydrate (Reag. Ph. Eur.) for analysis, ACS	172
131675	Sodium Fluoride for analysis, ACS, ISO	444
131678	di-Sodium Hydrogen Phosphate 12-hydrate for analysis, ISO	447
131679	di-Sodium Hydrogen Phosphate anhydrous (Reag. Ph. Eur.) for analysis, ACS	445
131680	tri-Sodium Phosphate 12-hydrate (Reag. Ph. Eur.) for analysis, ACS	464
131687	Sodium Hydroxide pellets for analysis, ACS, ISO	447
131698	Sodium Disulfite for analysis, ACS	443
131700	Sodium meta-Periodate (Reag. Ph. Eur.) for analysis, ACS	460
131701	Sodium Molybdate 2-hydrate (Reag. Ph. Eur.) for analysis, ACS	461
131702	Sodium Nitrate (Reag. Ph. Eur.) for analysis, ACS, ISO	461
131703	Sodium Nitrite (Reag. Ph. Eur.) for analysis, ACS	462
131705	Sodium Pentacyanonitrosoferrate(III) 2-hydrate (Reag. Ph. Eur.) for analysis, ACS	463
131706	di-Sodium Oxalate (Reag. USP, Ph. Eur.) for analysis, ACS	462
131708	Sodium Peroxide granulated for analysis, ACS	464
131715	Sodium Sulfate 10-hydrate (Reag. USP) for analysis, ACS	469
131716	Sodium Sulfate anhydrous (Reag. USP) for analysis, ACS, ISO	468
131717	Sodium Sulfite anhydrous for analysis, ACS	469
131721	Sodium Thiosulfate 5-hydrate for analysis, ACS	472
131724	Sodium Tungstate 2-hydrate (Reag. Ph. Eur.) for analysis, ACS	473
131726	Sodium Iodide for analysis, ACS	459
131729	Potassium Sodium Tartrate 4-hydrate for analysis, ACS, ISO	402
131739	Thymolphthalein for analysis, ACS	534
131743	Thiourea (Reag. Ph. Eur.) for analysis, ACS	533
131745	Toluene (Reag. Ph. Eur.) for analysis, ACS, ISO	537
131749	Trichloroethylene, stabilized with ethanol (Reag. Ph. Eur.) for analysis, ACS	541
131754	Urea crystalline for analysis, ACS	553
131759	Bromocresol Green for analysis, ACS	83
131762	Crystal Violet (C.I. 42555) for analysis, ACS	132
131769	Xylene - Mixture of isomeres (Reag. Ph. Eur.) for analysis, ACS, ISO	563
131771	Iodine resublimed pearls for analysis, ACS	249
131775	Zinc Acetate 2-hydrate (Reag. USP, Ph. Eur.) for analysis, ACS	566
131779	Zinc Chloride for analysis, ACS	566
131785	N,N-Dimethylformamide (Reag. Ph. Eur.) for analysis, ACS, ISO	163
131786	Zinc Oxide for analysis, ACS	567
131787	Zinc Sulfate 7-hydrate for analysis, ACS	568
131791	Dithizone (Reag. Ph. Eur.) for analysis, ACS	166
131801	Silver Sulfate for analysis, ACS	431
131808	Citric Acid anhydrous for analysis, ACS	121
131828	Diphenylamine (Reag. Ph. Eur.) for analysis, ACS	165
131881	Acetonitrile (Reag. Ph. Eur.) for analysis, ACS	24
131883	Succinic Acid (Reag. USP, Ph. Eur.) for analysis, ACS	509
131884	1-Pentanol (Reag. Ph. Eur.) for analysis, ACS	356
131885	1-Propanol (Reag. USP, Ph. Eur.) for analysis, ACS	406
131890	Cyclohexanone for analysis, ACS	135
131897	Ethylene Glycol mono-Methyl Ether for analysis, ACS	190
131903	2-Methyl-2-Propanol (Reag. Ph. Eur.) for analysis, ACS	300
131914	Hydroxylammonium Chloride (Reag. Ph. Eur.) for analysis, ACS, ISO	242
131924	Ethanolamine for analysis, ACS	186
131940	Tris for analysis, ACS	545
131953	Chlorobenzene (Reag. USP) for analysis, ACS	114
131954	Dimethyl Sulfoxide (Reag. Ph. Eur.) for analysis, ACS	161
131956	Formamide for analysis, ACS	199
131965	Sodium di-Hydrogen Phosphate 1-hydrate (Reag. Ph. Eur.) for analysis, ACS	441
131970	Nitromethane (Reag. USP, Ph. Eur.) for analysis, ACS	338
132056	2,6-Dichlorophenol Indophenol Sodium Salt 2-hydrate (Reag. Ph. Eur.) for analysis, ACS	156
132063	n-Hexane (Reag. USP, Ph. Eur.) for analysis, ACS	225
132064	Isooctane (Reag. Ph. Eur.) for analysis, ACS	257
132067	D(-)-Mannitol for analysis, ACS	287
132166	Mercury(II) Sulfate for analysis, ACS	293
132175	Perchloric Acid 70 % for analysis, ACS, ISO	359

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132176	Hydrochloric Acid 32 % for analysis, ISO	232
132213	Hydriodic Acid 57 % for analysis, ACS	241
132228	1,5-Diphenylcarbazone (contains diphenylcarbazide) (Reag. Ph. Eur.) for analysis, ACS	165
132320	Periodic Acid (Reag. USP, Ph. Eur.) for analysis, ACS	360
132323	Chloramine T 3-hydrate (Reag. USP) for analysis, ACS	113
132352	Ammonium meta-Vanadate (Reag. USP, Ph. Eur.) for analysis, ACS	51
132362	Ninhydrin for analysis, ACS	334
132363	SDS for analysis, ACS	422
132371	2,2'-Bipyridine (Reag. USP) for analysis, ISO	74
132382	Silver Diethyldithiocarbamate (Reag. USP, Ph. Eur.) for analysis, ACS	428
132440	Sodium tetra-Phenylborate (Reag. Ph. Eur.) for analysis, ACS	471
132441	Anthrone (Reag. Ph. Eur.) for analysis, ACS	57
132536	Imidazole (Reag. USP, Ph. Eur.) for analysis, ACS	245
132617	Xylenol Orange Tetrasodium Salt for analysis, ACS	564
132656	di-Sodium Hydrogen Phosphate 7-hydrate for analysis, ACS	446
132670	1-Amino-2-Naphthol-4-Sulfonic Acid (Reag. USP) for analysis, ACS	41
132748	Ammonium Cerium(IV) Sulfate 2-hydrate (Reag. USP, Ph. Eur.) for analysis, ACS	47
132751	N-(1-Naphthyl) Ethylenediamine Dihydrochloride for analysis, ACS	330
132770	Diethyl Ether stabilized with ~ 6 ppm of BHT (Reag. Ph. Eur.) for analysis, ACS, ISO	157
132838	5-Sulfosalicylic Acid 2-hydrate (Reag. Ph. Eur.) for analysis, ACS	512
133070	Hydrofluoric Acid 40 % for analysis, ISO	238
133080	1-Methyl-2-Pyrrolidone for analysis, ACS	300
133101	Chloroform stabilized with ~ 50 ppm of amylene (Reag. USP, Ph. Eur.) for analysis, ACS	116
133242	n-Hexane 95 % for analysis, ACS	226
133255	Nitric Acid 65 % for analysis, ISO	335
133266	1,1,2-Trichlorotrifluoroethane (ACS IX, Reag. USP, Ph. Eur.) (E.U.) for analysis, ACS	541
133312	tert-Butyl Methyl Ether (Reag. USP, Ph. Eur.) for analysis, ACS	93
133378	Hydrochloric Acid 25 % for analysis, ISO	233
133534	1,2-Diaminocyclohexane-N,N,N',N',-Tetraacetic Acid 1-hydrate (Reag. Ph. Eur.) for analysis, ACS	153
133537	Tetrahydrofuran stabilized with ~ 300 ppm of BHT for analysis, ACS	529
133577	1,5-Diphenylcarbazide (symmetrical) (Reag. Ph. Eur.) for analysis, ACS	165
133606	2',7'-Dichlorofluorescein (Reag. Ph. Eur.) for analysis, ACS	155
134387	Sodium Perchlorate 1-hydrate (Reag. USP) for analysis, ACS	463
134433	Hexachloroplatinic(IV) Acid 6-hydrate (Reag. Ph. Eur.) for analysis, ACS	224
134852	Phenol crystalline for analysis, ACS	365
134887	Thioacetamide (Reag. Ph. Eur.) for analysis, ACS	532
135324	meta-Phosphoric Acid stabilized with NaPO3 (Reag. Ph. Eur.) for analysis, ACS	373
135571	Silica Gel 2,5-6 mm with indicator (without cobalt chloride) for analysis, ACS	426
136064	Magnesium Perchlorate hydrate (desiccant) for analysis, ACS	281
137145	Hydrogen Peroxide 35 % for analysis	239
141003	Vaseline Oil (USP, BP, Ph. Eur.) pure, pharma grade	556
141004	Acetamide pure	17
141005	Acetanilide pure	18
141007	Acetone (USP, BP, Ph. Eur.) pure, pharma grade	22
141008	Acetic Acid glacial (USP, BP, Ph. Eur.) pure, pharma grade	18
141010	Sulfuric Acid 90-91 % pure	514
141013	L(+)-Ascorbic Acid (USP, BP, Ph. Eur.) pure, pharma grade	64
141014	Benzoic Acid (USP, BP, Ph. Eur.) pure, pharma grade	70
141015	Boric Acid (USP-NF, BP, Ph. Eur.) pure, pharma grade	78
141017	Hydrobromic Acid 48 % pure	231
141018	Citric Acid 1-hydrate (USP, BP, Ph. Eur., JP) pure, pharma grade	122
141020	Hydrochloric Acid 37 % (USP-NF, BP, Ph. Eur.) pure, pharma grade	232
141026	EDTA (USP-NF, BP, Ph. Eur) pure, pharma grade	171
141[illegible]	[illegible]rmic Acid 85 % pure	201
141030	[illegible]rmic Acid 98 % pure	200
141032	[illegible] Phosphoric Acid 85 % (US[illegible] BP, Ph. Eur.) pure, [illegible]a grade	372
141034	L(+)-Lactic Acid (BP, Ph. Eur.) pure, pharma grade	264
141037	Nitric Acid 69 % (USP-NF, BP, Ph. Eur.) pure, pharma grade	335
141041	Oxalic Acid 2-hydrate pure	346
141045	Salicylic Acid (USP, BP, Ph. Eur.) pure, pharma grade	421
141048	Picric Acid moistened with ~ 33 % of H_2O (Reag. Ph. Eur.) pure	374
141050	Pyrogallol pure	413
141054	Perchloric Acid 60 % pure	359
141055	Sorbic Acid (USP-NF, BP, Ph. Eur.) pure, pharma grade	474
141056	Amidosulfuric Acid pure	41
141057	Sulfanilic Acid pure	511
141058	Sulfuric Acid 95-98 % (USP-NF, BP, Ph. Eur.) pure, pharma grade	513
141065	Tannic Acid (USP, BP, Ph. Eur.) pure, pharma grade	521
141066	L(+)-Tartaric Acid pure	522
141067	Trichloroacetic Acid (BP, Ph. Eur.) pure, pharma grade	540
141074	Purified Water (BP, Ph. Eur.) pure, pharma grade	559
141076	Hydrogen Peroxide 30 % w/v (100 vol.) stabilized pure	240
141077	Hydrogen Peroxide 33 % w/v (110 vol.) stabilized (USP, BP, Ph. Eur.) pure, pharma grade	239
141079	Isoamyl Alcohol pure	256
141081	Benzyl Alcohol (USP-NF, BP, Ph. Eur.) pure, pharma grade	72
141082	1-Butanol (USP-NF) pure, pharma grade	91
141085	Ethanol 96 % v/v (USP-NF, BP, Ph. Eur.) pure, pharma grade	183
141086	Ethanol absolute pure	181
141089	Isobutanol pure	256
141090	2-Propanol (USP, BP, Ph. Eur.) pure, pharma grade	407
141091	Methanol (USP-NF, BP, Ph. Eur.) pure, pharma grade	296
141097	Aluminium Chloride 6-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	38
141098	Aluminium metal, powder pure	38
141099	Aluminium Nitrate 9-hydrate pure	39
141101	Aluminium Sulfate 18-hydrate pure	40
141102	Aluminium Ammonium Sulfate 12-hydrate (USP) pure, pharma grade	38
141103	Aluminium Potassium Sulfate 12-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	40
141114	Ammonium Acetate pure	46
141116	Ammonium Hydrogen Carbonate (BP, Ph. Eur.) pure, pharma grade	49
141119	Ammonium Carbonate (USP-NF) pure, pharma grade	47
141120	di-Ammonium Hydrogen Citrate pure	49
141121	Ammonium Chloride (USP, BP, Ph. Eur.) pure, pharma grade	48
141125	Ammonium Dichromate moistened with 0.5-3.0 % of H_2O pure	48
141126	Ammonium di-Hydrogen Phosphate pure	48
141127	di-Ammonium Hydrogen Phosphate (USP-NF) pure, pharma grade	50
141128	Ammonia 20 % (as NH_3) pure	45
141129	Ammonia 25 % (as NH_3) (BP, Ph. Eur.) pure, pharma grade	45
141130	Ammonia 30 % (as NH_3) (USP-NF, BP, Ph. Eur.) pure, pharma grade	44
141134	Ammonium Molybdate 4-hydrate (USP) pure, pharma grade	51
141135	Ammonium Nitrate pure	52
141136	di-Ammonium Oxalate 1-hydrate pure	52
141138	Ammonium Persulfate pure	53
141140	Ammonium Sulfate pure	53
141143	Ammonium Thiocyanate pure	54
141147	Acetic Anhydride pure	21
141149	Kaolin (Ph. Eur.) pure, pharma grade	260
141154	di-Phosphorus Pentoxide pure	374
141156	Aniline pure	56
141159	Potassium Antimony(III) Tartrate 3-hydrate pure	381
141160	Sea Sand pure	424
141163	Sulfur precipitated (BP, Ph. Eur.) pure, pharma grade	512
141164	Sulfur sublimated (USP) pure, pharma grade	513
141170	Methylene Blue (C.I. 52015) (USP, BP) pure, pharma grade	301
141180	Barium Acetate pure	67
141182	Barium Chloride 2-hydrate pure	67
141188	Barium Hydroxide 8-hydrate pure	68
141192	Benzene pure	69
141196	Bismuth(III) Nitrate 5-hydrate pure	76
141199	Bromine pure	81
141201	Bromoform stabilized with ethanol pure	83
141202	n-Butyl Acetate pure	93
141211	Calcium Acetate x-hydrate (USP) pure, pharma grade	97
141212	Calcium Carbonate precipitate (USP, BP, Ph. Eur.) pure, pharma	97
141214	Calcium Chloride 6-hydrate pure	99
141220	Sodium Hydroxide solution 40 % w/w pure	[illegible]
141221	Calcium Chloride granulated, pure	9[illegible]
141226	Calcium Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	100
141227	Calcium Hydrogen Phosphate anhydrous (USP, BP, Ph. Eur.) pure, pharma grade	100
141228	tri-Calcium Phosphate (BP, Ph. Eur.) pure, pharma grade	102
141231	Calcium Nitrate 4-hydrate pure	101
141232	Calcium Chloride 2-hydrate powder pure	98
141235	Calcium Sulfate 2-hydrate (USP-NF, BP, Ph. Eur.) pure, pharma grade	102
141244	Carbon Disulfide pure	104
141248	Cerium(IV) Sulfate 4-hydrate pure	108
141250	Cyclohexane pure	135
141252	Chloroform stabilized with ethanol pure	117
141254	Dichloromethane stabilized with ~ 20 ppm of amylene (USP-NF, BP, Ph. Eur.) pure, pharma grade	156
141257	Cobalt(II) Chloride 6-hydrate pure	124
141258	Cobalt(II) Nitrate 6-hydrate pure	125
141259	Cobalt(II) Sulfate 7-hydrate pure	125
141261	Copper(II) Acetate 1-hydrate pure	129
141262	Copper(II) Hydroxide Carbonate pure	129
141263	Copper(I) Cyanide pure	263
141264	Copper(II) Chloride 2-hydrate (USP) pure, pharma grade	129
141266	Copper metal, powder pure	128
141267	Copper(II) Nitrate 3-hydrate pure	130
141269	Copper(II) Oxide pure	130
141270	Copper(II) Sulfate 5-hydrate (BP, Ph. Eur.) pure, pharma grade	131
141276	Magnesium Oxide light (BP, Ph. Eur.) pure, pharma grade	281
141278	Collodion solution 4 % w/v (USP) pure, pharma grade	126
141284	Chromium(III) Potassium Sulfate 12-hydrate pure	120
141286	1,2-Dichloroethane pure	155
141287	Diethanolamine pure	156
141296	1,4-Dioxan stabilized with ~ 25 ppm of BHT pure	165
141297	Iron(III) Nitrate 9-hydrate pure	255
141303	Tin(II) Chloride 2-hydrate pure	535
141305	Tin(IV) Oxide pure	535
141307	Strontium Chloride 6-hydrate pure	509
141314	Di-Isopropyl Ether stabilized with ~ 50 ppm of BHT pure	153
141315	Petroleum Ether 40-60 °C pure	362
141316	Ethylene Glycol pure	189
141317	Ethylene Glycol mono-Ethyl Ether pure	190
141318	Ethyl Acetate pure	188
141323	Phenol 90 % aqueous solution (USP) pure, pharma grade	366
141325	Phenolphthalein (BP, Ph. Eur.) pure, pharma grade	369
141328	Formaldehyde 37-38 % w/w stabilized with methanol (USP, BP, Ph. Eur.) pure, pharma grade	198
141339	Glycerol (USP, BP, Ph. Eur.) pure, pharma grade	213
141340	Glycine (USP, BP, Ph. Eur.) pure, pharma grade	215
141341	D(+)-Glucose anhydrous (USP, BP, Ph. Eur.) pure, pharma grade	209
141345	Heptane, alkanes mixture pure	223
141346	Hexamethylenetetramine pure	224
141347	Hexane, alkanes mixture pure	227
141348	2-Methyl-2,4-Pentanediol (USP-NF) pure, pharma grade	299
141351	Hydroquinone (USP) pure, pharma grade	241
141358	Iron(III) Chloride 6-hydrate pure	254
141360	Iron(III) Sulfate x-hydrate ~ 75 % pure	255
141362	Iron(II) Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	227
141365	Ammonium Iron(III) Sulfate 12-hydrate pure	51
141368	Ammonium Iron(II) Sulfate 6-hydrate pure	50
141375	D(+)-Lactose 1-hydrate (USP-NF, BP, Ph. Eur.) pure, pharma grade	265
141391	Lithium Carbonate pure	272
141392	Lithium Chloride pure	273
141396	Magnesium Chloride 6-hydrate (BP, Ph. Eur.) pure, pharma grade	279
141402	Magnesium Nitrate 6-hydrate pure	281
141404	Magnesium Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	283
141407	Manganese(II) Acetate 4-hydrate pure	286
141409	Manganese(II) Carbonate x-hydrate pure	286
141410	Manganese(II) Chloride 4-hydrate pure	286
141413	Manganese(II) Sulfate 1-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	287
141419	Mercury(II) Chloride pure	292
141421	Mercury metal pure	291
141427	Mercury(II) Oxide red pure	292
141429	Butanone (Methylethylketone) pure	92
141438	Naphthalene pure	329
141443	Nickel(II) Chloride 6-hydrate pure	332
141444	Nickel(II) Nitrate 6-hydrate pure	333
141445	Nickel(II) Sulfate 6-hydrate pure	333

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141448	Gold(III) Chloride-Sodium Chloride ~ 49 % Au pure	216
141451	Paraformaldehyde (DAC) pure, pharma grade	350
141455	Tetrachloroethylene pure	528
141457	Pyridine pure	412
141459	Silver Nitrate (BP, Ph. Eur.) pure, pharma grade	429
141466	Lead(II) Acetate 3-hydrate pure	268
141473	Lead(II) Nitrate pure	269
141475	Lead(II) Oxide (DAC) pure, pharma grade	269
141477	Lead(II) Hydroxideacetate solution pure	268
141479	Potassium Acetate (BP, Ph. Eur.) pure, pharma grade	381
141480	Potassium Hydrogen Carbonate (USP, BP, Ph. Eur.) pure, pharma grade	390
141481	Potassium Hydrogen Phthalate pure	392
141487	Potassium Bromate pure	382
141489	Potassium Bromide (BP, USP, Ph. Eur.) pure, pharma grade	382
141490	Potassium Carbonate pure	383
141491	Potassium Cyanide pure	386
141492	tri-Potassium Citrate 1-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	386
141493	Potassium Chlorate (Ph. Helv.) pure, pharma grade	383
141494	Potassium Chloride pure	384
141497	Potassium Chromate pure	385
141500	Potassium Dichromate pure	387
141503	Potassium Hexacyanoferrate(III) pure	390
141505	Potassium Hexacyanoferrate(II) 3-hydrate pure	389
141509	Potassium di-Hydrogen Phosphate (USP-NF, BP, Ph. Eur.) pure, pharma grade	387
141512	di-Potassium Hydrogen Phosphate anhydrous (BP, Ph. Eur.) pure, pharma grade	391
141513	tri-Potassium Phosphate 1.5-hydrate pure	402
141515	Potassium Hydroxide 85 % pellets (USP-NF, BP, Ph. Eur.) pure, pharma grade	393
141524	Potassium Nitrate without anticaking (BP, Ph. Eur.) pure, pharma grade	399
141526	di-Potassium Oxalate 1-hydrate pure	400
141527	Potassium Permanganate (USP, BP, Ph. Eur.) pure, pharma grade	400
141531	Potassium Sorbate (USP-NF, BP, Ph. Eur.) pure, pharma grade	403
141532	Potassium Sulfate pure	403
141534	Potassium Thiocyanate pure	404
141540	Potassium Iodate pure	397
141542	Potassium Iodide (USP, BP, Ph. Eur.) pure, pharma grade	397
141545	1,2-Propanediol (USP, BP, Ph. Eur., JP) pure, pharma grade	405
141571	Sodium Hydroxide solution 50 % w/v pure	449
141593	Sodium Hydroxide solution 40 % w/v pure	450
141603	Resorcinol (USP, BP, Ph. Eur.) pure, pharma grade	416
141621	D(+)-Sucrose (USP-NF, BP, Ph. Eur., JP) pure, pharma grade	510
141625	Selenium metal powder pure	424
141632	Sodium Acetate 3-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	434
141633	Sodium Acetate anhydrous (USP) pure, pharma grade	433
141637	Sodium Benzoate (USP-NF, BP, Ph. Eur.) pure, pharma grade	435
141638	Sodium Hydrogen Carbonate (USP, BP, Ph. Eur.) pure, pharma grade	445
141644	di-Sodium tetra-Borate 10-hydrate (USP-NF, BP, Ph. Eur.) pure, pharma grade	470
141646	Sodium Bromide (BP, Ph. Eur.) pure, pharma grade	436
141647	Sodium Carbonate 10-hydrate pure	436
141648	Sodium Carbonate anhydrous (USP-NF, BP, Ph. Eur.) pure, pharma grade	436
141652	Sodium Cyanide pure	441
141655	tri-Sodium Citrate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	440
141656	tri-Sodium Citrate 5.5-hydrate pure	440
141659	Sodium Chloride (USP, BP, Ph. Eur., JP) pure, pharma grade	437
141666	Sodium Dichromate 2-hydrate pure	442
141669	EDTA Disodium Salt 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	172
1416[illegible]73	Magnesium Sulfate 65 % dry, powder (BP) pure, pharma grade	282
1416[illegible]	Sodium Fluoride (USP) [illegible] grade	444
141677	Sodium di-Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	442
141678	di-Sodium Hydrogen Phosphate 12-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	447
141679	di-Sodium Hydrogen Phosphate anhydrous (USP, BP, Ph. Eur.) pure, pharma grade	446
141680	tri-Sodium Phosphate 12-hydrate pure	464
141681	tri-Sodium Phosphate 1-hydrate pure	331
141683	Sodium L-Glutamate 1-hydrate (USP-NF) pure, pharma grade	459
141684	Sodium Polyphosphate pure	465
141687	Sodium Hydroxide pellets (USP-NF, BP, Ph. Eur.) pure, pharma grade	448
141688	Sodium Hydroxide solution 10 % w/w pure	452
141698	Sodium Disulfite (USP-NF, BP, Ph. Eur.) pure, pharma grade	443
141699	Sodium metal, sticks pure	460
141701	Sodium Molybdate 2-hydrate pure	461
141702	Sodium Nitrate pure	461
141703	Sodium Nitrite (USP) pure, pharma grade	462
141706	di-Sodium Oxalate pure	462
141710	tetra-Sodium Pyrophosphate 10-hydrate pure	465
141711	tetra-Sodium Pyrophosphate anhydrous pure	465
141715	Sodium Sulfate 10-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	469
141716	Sodium Sulfate anhydrous pure	468
141717	Sodium Sulfite anhydrous pure	469
141719	Sodium Tartrate 2-hydrate pure	470
141721	Sodium Thiosulfate 5-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	472
141724	Sodium Tungstate 2-hydrate pure	473
141726	Sodium Iodide pure	459
141729	Potassium Sodium Tartrate 4-hydrate (USP) pure, pharma grade	402
141733	Talc washed (BP, Ph. Eur.) pure, pharma grade	521
141743	Thiourea pure	533
141745	Toluene pure	537
141749	Trichloroethylene, stabilized with ethanol pure	541
141750	Triethanolamine (USP-NF) pure, pharma grade	543
141762	Crystal Violet (C.I. 42555) (Ph. Fr.) pure, pharma grade	132
141769	Xylene - Mixture of isomeres pure	563
141770	Iodine mono-Bromide pure	251
141771	Iodine resublimed pearls (USP, BP, Ph. Eur.) pure, pharma grade	249
141775	Zinc Acetate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	566
141777	Zinc Hydroxide Carbonate pure	567
141778	Zinc Cyanide pure	567
141779	Zinc Chloride pure	566
141783	Zinc metal, powder pure	567
141784	Zinc Nitrate 6-hydrate pure	567
141785	N,N-Dimethylformamide pure	163
141786	Zinc Oxide pure	568
141787	Zinc Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	568
141788	Zinc Sulfate 1-hydrate (USP, Ph. Eur., BP) pure, pharma grade	568
141792	Agar (USP-NF) pure, pharma grade	32
141797	D(+)-Maltose 1-hydrate pure	285
141800	Silver Carbonate pure	428
141801	Silver Sulfate pure	431
141802	Silver Chloride pure	428
141808	Citric Acid anhydrous (USP, BP, Ph. Eur., JP) pure, pharma grade	122
141812	Aluminium Hydroxide pure	38
141818	Calcium Stearate (USP-NF, BP, Ph. Eur.) pure, pharma grade	102
141840	Magnesium Hydroxide (BP, Ph. Eur.) pure, pharma grade	280
141856	Potassium Perchlorate (DAC) pure, pharma grade	400
141859	Sodium Salicylate (USP, BP, Ph. Eur.) pure, pharma grade	466
141862	Petroleum Ether 50-70 °C pure	362
141868	Iron(II) Chloride 4-hydrate pure	253
141879	Sodium Thiosulfate anhydrous pure	471
141882	Maleic Acid (BP, Ph. Eur.) pure, pharma grade	283
141883	Succinic Acid crystalline pure	509
141884	1-Pentanol pure	356
141885	1-Propanol (BP, Ph. Eur.) pure, pharma grade	406
141903	2-Methyl-2-Propanol pure	300
141909	Iodoform pure	252
141911	Ammonium Hydrogen di-Fluoride pure	49
141914	Hydroxylammonium Chloride pure	242
141922	Glycerol tri-Acetate (USP, BP, Ph. Eur.) pure, pharma grade	214
141929	Sodium Hydroxide pearls (USP-NF, BP, Ph. Eur.) pure, pharma grade	448
141937	Di-n-Butyl Phthalate pure	94
141940	Tris (USP, BP, Ph. Eur.) pure, pharma grade	545
141945	Magnesium metal, filings pure	278
141952	EDTA Tetrasodium Salt 4-hydrate pure	174
141953	Chlorobenzene pure	114
141954	Dimethyl Sulfoxide pure	161
141956	Formamide pure	200
141959	Alkylbenzyldimethylammonium Chloride pure	37
141962	*n*-Propyl Gallate (Ph. Eur.) pure, pharma grade	[illegible]
141965	Sodium di-Hydrogen Phosphate 1-hydrate (USP, BP) pure, pharma grade	441
141975	Chloral Hydrate (BP, Ph. Eur.) pure, pharma grade	112
141976	Potassium Fluoride pure	389
142006	n-Pentane pure	356
142014	Chromium(III) Chloride 6-hydrate pure	119
142027	Iron(III) Citrate Hydrate pure	254
142029	Magnesium Stearate (BP, Ph. Eur.) pure, pharma grade	281
142041	Thioglycolic Acid 80 % pure	533
142043	L-Alanine (USP, BP, Ph. Eur.) pure, pharma grade	34
142048	Vanillin (USP-NF, BP, Ph. Eur.) pure, pharma grade	556
142050	Tween® 80 (USP-NF, BP, Ph. Eur.) pure, pharma grade	551
142051	DL-Malic Acid (USP-NF) pure, pharma grade	284
142060	Gelatine 80-100 Blooms (USP-NF, BP, Ph. Eur.) pure, pharma grade	205
142062	n-Heptane pure	223
142063	n-Hexane pure	225
142064	Isooctane pure	257
142067	D(-)-Mannitol (USP, BP, Ph. Eur.) pure, pharma grade	287
142080	D(+)-Xylose (BP, Ph. Eur.) pure, pharma grade	564
142085	Eucalyptol (USP) pure, pharma grade	191
142101	Titanium(IV) Oxide (USP, BP, Ph. Eur.) pure, pharma grade	536
142166	Mercury(II) Sulfate pure	293
142173	D(+)-Galactose (Ph. Eur.) pure, pharma grade	204
142175	Perchloric Acid 70 % pure	359
142176	Hydrochloric Acid 32 % pure	233
142213	Hydriodic Acid 57 % pure	241
142312	Tween® 20 (USP-NF, BP, Ph. Eur.) pure, pharma grade	551
142314	Triton® X 100 pure	547
142320	Periodic Acid pure	360
142323	Chloramine T 3-hydrate (BP, Ph. Eur.) pure, pharma grade	113
142329	Glycerol 87 % (BP, Ph. Eur.) pure, pharma grade	214
142333	di-Potassium Hydrogen Phosphate 3-hydrate pure	392
142342	Adipic Acid (USP-NF, BP, Ph. Eur.) pure, pharma grade	31
142344	Fumaric Acid (USP-NF) pure, pharma grade	203
142346	Nitrilotriacetic Acid pure	337
142351	Ammonium Fluoride pure	48
142352	Ammonium meta-Vanadate pure	51
142357	Benzoyl Peroxide humidified with ~ 25 % of H_2O (USP, BP, Ph. Eur.) pure, pharma grade	71
142363	SDS (USP-NF, BP, Ph. Eur.) pure, pharma grade	422
142400	Calcium Hydroxide, powder (USP, BP, Ph. Eur., JP) pure, pharma grade	100
142403	Potassium Hydroxide solution 50 % pure	394
142404	Sodium Hydroxide solution 50 % w/w pure	449
142436	Polyethylene Glycol 400 (USP-NF, BP, Ph. Eur.) pure, pharma grade	376
142438	Polyethylene Glycol 4000 flakes (USP-NF, BP, Ph. Eur.) pure, pharma grade	377
142448	Sulfuric Acid 25 % pure	516
142465	Barium Sulfate for radiology (BP, Ph. Eur.) pure, pharma grade	68
142475	Siliceous Earth purified and calcined (USP-NF) pure, pharma grade	427
142486	Magnesium Sulfate anhydrous pure	282
142507	di-Sodium Hydrogen Phosphate 2-hydrate (BP, Ph. Eur.) pure, pharma grade	446
142523	Hydrochloric Acid 20 % pure	233
142542	Cetrimide (BP, Ph. Eur.) pure, pharma grade	109
142652	DL-Camphor synthetic (USP) pure, pharma grade	103
142659	Oleic Acid (Ph. Eur.) pure, pharma grade	344
142660	Hydrogen Peroxide 6 % stabilized (BP) pure, pharma grade	240
142661	Phenol 85 % aqueous solution pure, pharma grade	366
142697	Potassium Hydrogen Diiodate pure	390
142698	Petroleum Ether 25-40 °C pure	361
142699	Petroleum Ether 30-40 °C pure	361
142700	Petroleum Ether 30-50 °Cpure	361
142701	Petroleum Ether 60-80 °C pure	363
142702	Petroleum Ether 65-95 °C pure	363
142703	Acetic Acid 96 % pure	19
142705	Lanthanum(III) Oxide pure	266
142726	Copper(II) Sulfate anhydrous (BP, Ph. Eur.) pure, pharma grade	130
142728	D(-)-Fructose (USP, BP, Ph. Eur.) pure, pharma grade	201

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Code	Description	Page
142748	Ammonium Cerium(IV) Sulfate 2-hydrate pure	47
142756	Sodium Selenite anhydrous pure	467
142767	o-Xylene pure	562
142770	Diethyl Ether stabilized with ~ 6 ppm of BHT pure	157
142774	Palladium(II) Chloride pure	347
142794	Hydrochloric Acid 30 % pure	233
142823	Sulfanilamide (Ph. Fr., DAB) pure, pharma grade	511
142825	Butylhydroxytoluene (BP, Ph. Eur.) pure, pharma grade	94
142833	Caffeine anhydrous (USP, BP, Ph. Eur.) pure, pharma grade	96
142963	Methyl Salicylate (Ph. Eur., NF) pure, pharma grade	299
142970	Sodium Stannate 3-hydrate pure	467
142983	Sodium D-Gluconate (USP) pure, pharma grade	444
143006	Hydrochloric Acid 10 % (Ph. Eur., NF) pure, pharma grade	234
143052	di-Sodium tetra-Borate anhydrous pure	470
143070	Hydrofluoric Acid 40 % pure	239
143080	1-Methyl-2-Pyrrolidone (BP, Ph. Eur.) pure, pharma grade	300
143083	Benzethonium Chloride (BP, Ph. Eur.) pure, pharma grade	70
143091	Formaldehyde solution 10 % neutralized, stabilized with methanol pure	199
143101	Chloroform stabilized with ~ 50 ppm of amylene pure	116
143140	D(+)-Glucose 1-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	210
143143	Cetyl Alcohol (USP-NF, BP, Ph. Eur.) pure, pharma grade	109
143145	N,N-Dimethylacetamide (BP, Ph. Eur.) pure, pharma grade	162
143209	Paraffin M.P. 51-53 °C pellets (USP-NF, BP, Ph. Eur.) pure, pharma grade	349
143224	Manganese(II) Nitrate 4-hydrate pure	287
143242	n-Hexane 95 % pure	226
143255	Nitric Acid 65 % pure	335
143277	Potassium Hydroxide solution 20 % pure	394
143289	Sodium Formaldehyde Sulfoxylate x-hydrate (USP-NF) pure, pharma grade	444
143290	Calcium Gluconate 1-hydrate (Ph. Eur., USP) pure, pharma grade	100
143299	Ammonium Sulfide solution 20 % w/w pure	54
143307	Sodium Lactate solution 50 % w/w (USP, BP, Ph. Eur.) pure, pharma grade	460
143312	tert-Butyl Methyl Ether pure	93
143323	Sulfuric Acid 20 % pure	516
143332	Methyl-4-Hydroxybenzoate (USP-NF, BP, Ph. Eur., JP) pure, pharma grade	300
143378	Hydrochloric Acid 25 % pure	233
143396	Sodium Peroxodisufate pure	464
143402	Sodium Hydroxide solution 25 % w/w pure	451
143495	Peracetic Acid 15 % pure	358
143501	Isopentane pure	258
143537	Tetrahydrofuran stabilized with ~ 300 ppm of BHT pure	529
143542	Triethylamine pure	543
143573	Phosphorous Acid pure	373
143712	Isopropyl Myristate (Ph. Eur.) pure, pharma grade	259
143858	Glutaraldehyde solution 50 % pure	211
143865	Sodium L(+)-Ascorbate (USP) pure, pharma grade	459
143886	Thimerosal (USP, BP, Ph. Eur.) pure, pharma grade	532
143977	D(+)-Biotin (USP) pure, pharma grade	73
144108	EDTA Tripotassium Salt 2-hydrate pure	174
144222	Sodium Hydroxide solution 15 % w/w pure	452
144229	Guanidine Hydrochloride pure	218
144233	Butylhydroxylanisole (USP-NF, BP, Ph. Eur.) pure, pharma grade	94
144260	Sodium Perborate 1-hydrate pure	463
144320	Sodium Hydroxide solution 30 % w/w pure, pharma grade	451
144441	Carboxymethylcellulose Sodium Salt medium viscosity (USP, BP, Ph. Eur.) pure, pharma grade	105
144559	EDTA Calcium Disodium Salt (USP, BP, Ph. Eur.) pure, pharma grade	172
144564	Castor Oil (BP, Ph. Eur.) pure, pharma grade	106
144647	Potassium Hydroxide solution 10 % pure	395
144720	Benzyl Benzoate (USP, BP, Ph. Eur.) pure, pharma grade	72
144747	2-Bromo-2-Nitro-1,3-Propanediol (BP) pure, pharma grade	82
144852	Phenol crystalline (USP, BP, Ph. Eur.) pure, pharma grade	366
144924	Ammonia solution 10 % pure	46
145226	4-Chloro-3-Methylphenol (USP-NF, BP, Ph. Eur.) pure, pharma grade	114
145261	iso-Hexane pure	226
145300	1,1,1-Trichloro-2-Methyl-2-Propanol 1/2-hydrate (BP, Ph. Eur.) re, pharma grade	539
145365	ic Acid : Chloroform 3 : 2 - Mixture v/v	21
145398	1-M y-2-Propanol pure	297
145618	2-Prop % pure	408
145642	Sodium Perborate 4-hydrate (BP, Ph. Eur.) pure, pharma grade	463
145777	Sodium Selenate pure	466
145881	Sodium Hydroxide micropearls (USP-NF) pure, pharma grade	449
145882	Sulfuric Acid 10 % pure	517
146012	Ammonia 32 % (as NH_3) pure	44
146075	Polysorbate 80 (USP-NF, BP, Ph. Eur.) pure, pharma grade	379
146101	Sorbitan Monolaurate (USP-NF, BP, Ph. Eur.) pure, pharma grade	474
146102	Sorbitan Monostearate (USP-NF, BP, Ph. Eur.) pure, pharma grade	475
146132	SDS solution 10 % w/v pure	423
146224	Polyethylene Glycol 8000 (USP-NF, BP, Ph. Eur.) pure, pharma grade	378
146257	Light liquid Paraffin (USP-NF, BP, Ph. Eur.) pure, pharma grade	271
146316	Hydrochloric Acid 15 % pure	234
146392	Urea pearls pure	553
146682	Sodium Hydroxide solution 32 % w/w pure	450
146958	Lead(II) Hydroxideacetate solution ~ 23 % w/w (as Pb) pure	268
146994	Sodium Chloride pure, free-flowing	438
147032	Potassium Chlorate pure (with anti-caking agent)	383
147039	Triethyl Citrate (Ph. Eur., NF) pure, pharma grade	543
147055	Acetic Acid 10 % pure	20
147056	Cobalt(II) Sulfamate solution 10-15 % pure	125
147058	Potassium Fluoride solution 33 % pure	389
147064	Hydrogen Peroxide 50 % pure	239
147065	Paraffin M.P. 58-60 °C pellets (Ph. Eur.) pure, pharma grade	350
147067	ortho-Phosphoric Acid 25 % pure	372
147068	Potassium Iodide solution 50 % pure	398
147070	Tetrafluoroboric Acid solution 50 % pure	528
147071	Nitric Acid 3 % pure	336
147083	Potassium Hydroxide solution 45 % pure	394
147086	Silver Methanesulfonate pure	428
147095	Hypophosphorous Acid 50 % pure	244
147099	Hydrochloric Acid 3.2 % pure	234
147100	Lacmus pure (C.I. 1242)	264
147102	Sulfuric Acid 40 % pure	515
147113	Magnesium Sulfate dried (BP) pure, pharma grade	282
147114	Paraffin M.P. 52-54 °C pellets (Ph. Eur.) pure, pharma grade	349
147116	Gelatin powdered, (Ph. Eur., NF) pure, pharma grade	205
147118	Magnesium Citrate pure	280
147119	Boron Nitride pure	79
147120	Calcium Chloride dried, powdered pure	98
147132	Petroleum Ether 100-140 °C pure	364
147133	Petroleum Ether 80-110 °C pure	363
147143	ortho-Phosphoric Acid 10 % (Ph. Eur., NF) pure, pharma grade	373
147145	Hydrogen Peroxide 35 % pure	239
147146	ortho-Phosphoric Acid 5 % pure	373
147147	Magnesium Hydroxide Carbonate light pure (Ph. Eur.) pure, pharma grade	280
147149	Sulfuric Acid 50 % w/w pure	515
151045	Salicylic Acid, 99 % for synthesis	421
151048	Picric Acid, 98 % moistened with ~ 33 % of H_2O for synthesis	374
151050	Pyrogallic Acid, 99 % for synthesis	413
151067	Trichloroacetic Acid, 98 % for synthesis	540
151083	4-Hydroxy-4-Methyl-2-Pentanone, 98 % for synthesis	242
151156	Aniline, 99 % for synthesis	56
151339	Glycerol, 99 % for synthesis	213
151340	Glycine, 99 % for synthesis	215
151545	1,2-Propanediol, 99 % for synthesis	405
151743	Thiourea for synthesis	534
152342	Adipic Acid for synthesis	31
152830	Gallic Acid 1-hydrate, 99 % for synthesis	204
153316	Trifluoroacetic Anhydride, 99 % for synthesis	544
153622	Tetrabutylammonium Hydrogen Sulfate, 98 % for synthesis	526
153856	5-Chlorcarvacrol, 97 % for synthesis	113
155494	1H-Indole-3-Butyric Acid, 99 % for synthesis	248
156416	2-Methyltetrahydrofuran stabilized with ~ 300 ppm of BHT for synthesis	302
157066	Tetrabutylammonium Hydroxide solution 40 % aqueous solution for synthesis	526
157141	Tetrabutylammonium Hydroxide solution 40 % in methanol for synthesis	526
161007	Acetone, 99.5 % for synthesis	22
161008	Acetic Acid glacial, 99.5 % for synthesis	18
161018	Citric Acid 1-hydrate for synthesis	122
161056	Amidosulfuric Acid for synthesis	41
161082	1-Butanol, 99.5 % for synthesis	91
161086	Ethanol absolute, 99,5 % for synthesis	181
161089	Isobutanol, 99 % for synthesis	256
161090	2-Propanol, 99.7 % for synthesis	408
161091	Methanol, 99.5 % for synthesis	296
161129	Ammonia solution 25 % for synthesis	45
161147	Acetic Anhydride, 98 % for sy	21
161199	Bromine, 99 % for synthesis	81
161244	Carbon Disulfide, 99.5 % for synthes	105
161250	Cyclohexane, 99.5 % for synthesis	1
161252	Chloroform, 99 % stabilized with ethanol for synthesis	11
161254	Dichloromethane, 99.8 % stabilized with ~ 20 ppm of amylene for synthesis	156
161287	Diethanolamine, 98 % for synthesis	156
161288	Diethylamine, 99.5 % for synthesis	158
161289	Diethylene Glycol for synthesis	159
161293	4-(Dimethylamino) Benzaldehyde, 99 % for synthesis	162
161296	1,4-Dioxan, 99.5 % stabilized with ~ 25 ppm of BHT for synthesis	165
161315	Petroleum Ether 40-60 °C for synthesis	362
161316	Ethylene Glycol, 99 % for synthesis	189
161317	Ethylene Glycol mono-Ethyl Ether, 99 % for synthesis	190
161318	Ethyl Acetate, 99.5 % for synthesis	188
161345	Heptane, alkanes mixture for synthesis	224
161347	Hexane, 95 % alkanes mixture for synthesis	227
161351	Hydroquinone, 99 % for synthesis	241
161374	Isopropyl Acetate, 99 % for synthesis	258
161429	Butanone, 99.5 % (Methylethylketone) for synthesis	92
161430	4-Methyl-2-Pentanone, 99 % for synthesis	299
161447	Nitrobenzene, 99 % for synthesis	337
161455	Tetrachloroethylene, 99.5 % for synthesis	528
161457	Pyridine, 99 % for synthesis	412
161708	Sodium Peroxide, 95 % granulated for synthesis	464
161745	Toluene, 99.5 % for synthesis	537
161749	Trichloroethylene, 99 % stabilized with ethanol for synthesis	541
161750	Triethanolamine, 98 % for synthesis	543
161769	Xylene, 98.5 % mixture of isomers for synthesis	563
161785	N,N-Dimethylformamide, 99.8 % for synthesis	163
161810	Propionic Acid, 99 % for synthesis	409
161869	Ethylenediamine, 99 % for synthesis	190
161880	2,4-Pentanedione, 99 % for synthesis	356
161881	Acetonitrile, 99.7 % for synthesis	24
161883	Succinic Acid, 99 % for synthesis	510
161885	1-Propanol, 99.5 % for synthesis	406
161887	Benzaldehyde, 99 % for synthesis	69
161890	Cyclohexanone, 99.5 % for synthesis	135
161892	1,2-Dichlorobenzene, 98 % for synthesis	154
161897	Ethylene Glycol mono-Methyl Ether, 99 % for synthesis	190
161903	2-Methyl-2-Propanol, 99.7 % for synthesis	300
161953	Chlorobenzene, 99.5 % for synthesis	115
161954	Dimethyl Sulfoxide, 99.5 % for synthesis	161
161956	Formamide, 98 % for synthesis	200
161977	Sodium Chlorite solution 25 % w/w for synthesis	439
162050	Tween® 80 for synthesis	551
162054	Cetyltrimethylammonium Bromide, 99 % for synthesis	109
162062	n-Heptane, 99 % for synthesis	223
162064	Isooctane, 99 % for synthesis	257
162312	Tween® 20 for synthesis	551
162325	2,4-Dinitrophenylhydrazine, 99 % moistened with~ 33 % of H_2O for synthesis	164
162357	Benzoyl Peroxide, 98 % humidified with ~ 25 % of H_2O for synthesis	71
162436	Polyethylene Glycol 400 for synthesis	377
162438	Polyethylene Glycol 4000 flakes for synthesis	377
162439	Polyethylene Glycol 6000 flakes for synthesis	377
162443	2,4-Dinitrophenol, 98 % moistened with ~ 33 % of H_2O for synthesis	164
162525	Polyethylene Glycol 1500 for synthesis	377
162536	Imidazole, 99 % for synthesis	245
162590	Stearic Acid, 98 % for synthesis	508
162712	Sodium Azide, 99 % for synthesis	435
162720	Benzoyl Chloride, 99 % for synthesis	71
162770	Diethyl Ether, 99.7 % stabilized with ~ 6 ppm of BHT for synthesis	157
162837	3,5-Dinitrosalicylic Acid, 98 % for synthesis	164
162855	1-Naphthol, 99 % for synthesis	330
163080	1-Methyl-2-Pyrrolidone, 99 % for synthesis	300
163101	Chloroform. 99.9 % stabilized with ~ 50 ppm of amylene for synthesis	116
163242	n-Hexane 95 % for synthesis	226
163266	1,1,2-Trichlorotrifluoroethane, 99.8 % (E.U.) for synthesis	542
163312	tert-Butyl Methyl Ether, 99.5 % for synthesis	93
163314	Sodium Borohydride, 96 % for synthesis	435
163317	Trifluoroacetic Acid, 99 % for synthesis	544
163325	Polyethylene Glycol 6000 powder for synthesis	378
163386	1-Octanol, 99 % for synthesis	343
163410	White Spirit for synthesis	560

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Code	Description	Page
163520	n-Octane, 99 % for synthesis	342
163537	Tetrahydrofuran, 99.5 % stabilized with ~ 300 ppm of BHT for synthesis	529
163542	Triethylamine, 99.5 % for synthesis	543
163712	Isopropyl Myristate, 98 % for synthesis	259
163851	2-Butanol, 99 % for synthesis	92
163857	Glutaraldehyde solution 25 % for synthesis	212
164446	1,1,2,2-Tetrachloroethane, 98 % for synthesis	527
164468	1,2-Dimethoxyethane for synthesis	160
164527	2,2,2-Trifluoroethanol for synthesis	544
164852	Phenol crystalline, 99 % for synthesis	366
164887	Thioacetamide, 98 % for synthesis	532
165226	4-Chloro-3-Methylphenol, 99 % for synthesis	114
167036	1-Ethyl-2-Pyrrolidone for synthesis	189
167054	N-Methyldiethanolamine for synthesis	301
167069	Tetramethylammonium Hydroxide solution 25 % for synthesis	530
167073	Glycolic Acid solution 70 % for synthesis	216
167082	Malonic Acid for synthesis	284
171058	Sulfuric Acid 96 % ± 0.15 % Viscosimetry grade	514
171072	Bromine Water saturated solution	81
171091	Methanol according to Karl Fischer	61
171183	Barium Chloride solution 10 % w/v	67
171211	Calcium Acetate x-hydrate for soil testing	97
171220	Sodium Hydroxide solution 40 % w/w	450
171230	Calcium Lactate 5-hydrate for soil testing	101
171386	Hydrotimetric Liquor	242
171457	Pyridine (max. 0.02 % water) according to Karl Fischer	412
171543	Potassium Iodide solution 10 % w/v	398
171569	Griess-Ilosvay's A Reagent	217
171570	Griess-Ilosvay's B Reagent	217
171581	Nessler's Reagent	332
171659	Sodium Chloride ASTM B117-11	438
171690	Sodium Hydroxide solution 30 % w/v	451
172174	Luff-Schoorl's Reagent	274
172308	Copper(II) Ethylenediamine Reagent	129
172417	o-Tolidine solution 0.1 %	537
172429	Kjeldahl Catalyst (Cu-Se) powder	261
172866	Phenolphthalein solution 2 %	369
172926	Kjeldahl Catalyst (Cu-Se) (1.5 % $CuSO_4 \cdot 5H_2O$ + 2 % Se) tablets	262
173149	Eosin Yellowish solution 2 %	178
173163	Sulfuric Acid 98 %	513
173253	Sulfuric Acid d(20)=1.522 ± 0.005 according to Van Gulik for analysis	519
173333	Vanadate-Molybdate Reagent	555
173348	Kjeldahl Catalyst (Se) tablets	263
173349	Kjeldahl Catalyst (Cu-TiO2) tablets	262
173350	Kjeldahl Catalyst (Cu) (0.3 % in $CuSO_4 \cdot 5H_2O$) tablets	262
173355	Carrez's Reagent I	106
173356	Carrez's Reagent II	106
173424	Titanium(III) Chloride solution 2 % w/w	536
173495	Peracetic Acid solution 15 % w/w	358
173655	Concentrated solution for the sand equivalent determination	128
174275	Silica Gel 60, 63-200 microns	426
174351	Ammonium Molybdate 4-hydrate solution 5 % in dil.sulfuric acid	52
174428	Kjeldahl Catalyst (Cu) (6.25 % in $CuSO_4 \cdot 5H_2O$) tablets	262
174748	Wide Spectrum Microtablets I	560
175054	Detergent Neutral Solution	147
175055	Detergent Acid Solution	147
175145	OXI-OLEO-TEST	347
175208	Pepsin 1:10.000 NF	357
175257	Formic Acid 90 %	201
175305	Sodium Chloride solution ASTM B117-11	438
175349	Molecular sieve 3Å (0.3 nm)	324
175350	Molecular sieve 4Å (0.4 nm)	324
175387	Wide Spectrum Microtablets II	560
175429	Ammonium Acetate 1M buffered to pH=7. extractantsolution	46
175506	Sodium Plumbite solution (Doctor solution)	465
175570	Kjeldahl Catalyst (Cu-Se) (9 % $CuSO_4 \cdot 5H_2O$ + 0.9 % Se) tablets	262
175630	Patent Blue V solution 0.5 % w/v	351
175639	Kjeldahl Catalyst (Cu) (9 % in $CuSO_4 \cdot 5H_2O$) tablets	262
175723	Patent Blue V solution 5 % w/v	351
175748	Pepsin Pack	357
175772	Celite Hyflo Super Cel®	107
176131	Azidiol	66
176168	Buffer Solution Cesium Chloride/ Lanthanum Chloride	85
176191	Sulfuric Acid 0.13 mol/l (0.26N)	518
176400	Mixture Methanol/2-Propanol 4:1	324
176408	Liquid Pepsin	272
176448	Silica Gel 60, 40-63 microns	426
176682	Sodium Hydroxide solution 32 % w/w for nitrogen determination	451
176[illegible]	QuEChERS extraction EN15662 Method	414
176[illegible]	ChERS dispersive EN15662 Method	414
176971	[illegible]ary Secundary Amine	411
177009	Silica[illegible]0, 200-500 microns	427
177035	Florisil® [illegible]omatography 60-100 mesh	196
177053	Potassium [illegible]en Phthalate solution for COD-det[illegible]ion (170 mg/L)	392
177060	Aluminium Oxide 90 active neutral Chromatography grade	39
177061	Mixed-bed resin MBH 100 (AppliQUA™)	323
177072	Silicon-free greases (glisseal® HV)	427
177074	Mercury(II) Sulfate solution I for COD - determination	293
177075	Silicon-free greases (glisseal® N)	427
177085	Mercury(II) Sulfate solution II for COD - determination	293
177137	Allylthiourea solution (1 g/L) for BOD determination	37
181009	Acetic Acid 1 mol/l (1N) volumetric solution	20
181011	Acetic Acid 0.1 mol/l (0.1N) (Reag. Ph. Eur.) volumetric solution	20
181021	Hydrochloric Acid 1 mol/l (1N) volumetric solution	236
181022	Hydrochloric Acid 0.5 mol/l (0.5N) volumetric solution	236
181023	Hydrochloric Acid 0.1 mol/l (0.1N) volumetric solution	237
181039	Nitric Acid 1 mol/l (1N) volumetric solution	336
181040	Nitric Acid 0.1 mol/l (0.1N) volumetric solution	337
181042	Oxalic Acid 0.5 mol/l (1N) volumetric solution	346
181043	Oxalic Acid 0.05 mol/l (0.1N) (Reag. USP) volumetric solution	346
181046	Perchloric Acid 0.1 mol/l (0.1N) in acetic acid (Reag. USP, Ph. Eur.) volumetric solution	360
181047	Perchloric Acid 0.1 mol/l (0.1N) in 1,4-dioxan (Reag. USP) volumetric solution	360
181059	Sulfuric Acid 0.5 mol/l (1N) volumetric solution	518
181060	Sulfuric Acid 0.25 mol/l (0.5N) volumetric solution	518
181061	Sulfuric Acid 0.05 mol/l (0.1N) volumetric solution	519
181144	Ammonium Thiocyanate 0.1 mol/l (0.1N) (Reag. USP, Ph. Eur.) volumetric solution	54
181249	Cerium(IV) Sulfate 0.1 mol/l (0.1N) (Reag. USP) volumetric solution	108
181271	Copper(II) Sulfate 0.1 mol/l (0.1M) volumetric solution	131
181369	Ammonium Iron(II) Sulfate 0.1 mol/l (0.1N) volumetric solution	51
181424	Mercury(II) Nitrate 0.05 mol/l (0.1N) volumetric solution	292
181464	Silver Nitrate 0.1 mol/l (0.1N) volumetric solution	430
181465	Silver Nitrate 0.02 mol/l (0.02N) volumetric solution	430
181501	Potassium Dichromate 1/6 mol/l (1N) volumetric solution	388
181502	Potassium Dichromate 1/60 mol/l (0.1N) (Reag. USP, Ph. Eur.) volumetric solution	388
181517	Potassium Hydroxide 1 mol/l (1N) volumetric solution	395
181518	Potassium Hydroxide 0.5 mol/l (0.5N) volumetric solution	395
181519	Potassium Hydroxide 0.5 mol/l (0.5N) in ethanol (Reag. USP, Ph. Eur.) volumetric solution	396
181520	Potassium Hydroxide 0.5 mol/l (0.5N) in methanol volumetric solution	396
181521	Potassium Hydroxide 0.1 mol/l (0.1N) volumetric solution	396
181528	Potassium Permanganate 0.2 mol/l (1N) volumetric solution	400
181529	Potassium Permanganate 0.02 mol/l (0.1N) (Reag. USP) volumetric solution	401
181535	Potassium Thiocyanate 0.1 mol/l (0.1N) (Reag. USP) volumetric solution	404
181544	Potassium Iodide 0.1 mol/l (0.1N) volumetric solution	398
181649	Sodium Carbonate 0.5 mol/l (1N) volumetric solution	437
181670	EDTA Disodium Salt 0.1 mol/l (0.1M) volumetric solution	173
181671	EDTA Disodium Salt 0.01 mol/l (0.01M) volumetric solution	174
181691	Sodium Hydroxide 1 mol/l (1N) volumetric solution	454
181692	Sodium Hydroxide 0.5 mol/l (0.5N) volumetric solution	454
181693	Sodium Hydroxide 0.1 mol/l (0.1N) standard volumetric solution	456
181694	Sodium Hydroxide 0.1 mol/l (0.1N) standard volumetric solution	456
181722	Sodium Thiosulfate 1 mol/l (1N) standard volumetric solution	472
181723	Sodium Thiosulfate 0.1 mol/l (0.1N) (Reag. USP) standard volumetric solution	472
181772	Iodine 0.05 mol/l (0.1N) (Reag. USP, Ph. Eur.) volumetric solution	250
181789	Zinc Sulfate 0.1 mol/l (0.1M) volumetric solution	569
181790	Potassium Permanganate 0.002 mol/l (0.01N) volumetric solution	401
181845	Sodium Hydroxide 0.01 mol/l (0.01N) volumetric Solution	457
181969	Iodine 0.01 mol/l (0.02N) volumetric solution	250
182000	Bromine (Bromate-Bromide) 0.05 mol/l (0.1N) volumetric solution	82
182011	Sulfuric Acid 0.1 mol/l (0.2N) volumetric solution	518
182057	Hydrochloric Acid 3 mol/l (3N) volumetric solution	235
182102	Sulfuric Acid 0.01 mol/l (0.02N) volumetric solution	519
182103	Sulfuric Acid 0.025 mol/l (0.05N) volumetric solution	519
182105	Sulfuric Acid 1 mol/l (2N) volumetric solution	518
182106	Sulfuric Acid 2.5 mol/l (5N) volumetric solution	517
182107	Hydrochloric Acid 0.05 mol/l (0.05N) volumetric solution	237
182108	Hydrochloric Acid 2 mol/l (2N) volumetric solution	236
182109	Hydrochloric Acid 5 mol/l (5N) volumetric solution	235
182112	Nitric Acid 2 mol/l (2N) volumetric solution	336
182115	Silver Nitrate 0.05 mol/l (0.05N) volumetric solution	430
182116	Silver Nitrate 1 mol/l (1N) volumetric solution	429
182120	EDTA Disodium Salt 0.05 mol/l (0.05M) volumetric solution	173
182138	Mercury(II) Nitrate 0.005 mol/l (0.01N) volumetric solution	292
182142	Potassium Dichromate 1/24 mol/l (0.25N) volumetric solution	388
182146	Potassium Hydroxide 0.1 mol/l (0.1N) in ethanol (Reag. USP, Ph. Eur.) volumetric solution	396
182147	Potassium Hydroxide 0.1 mol/l (0.1N) in methanol volumetric solution	396
182153	Sodium Hydroxide 0.05 mol/l (0.05N) standard volumetric solution	456
182155	Sodium Hydroxide 0.25 mol/l (0.25N) standard volumetric solution	455
182156	Sodium Hydroxide 0.3546 mol/l (N/2.82) standard volumetric solution	454
182158	Sodium Hydroxide 2 mol/l (2N) volumetric solution	453
182159	Sodium Hydroxide 5 mol/l (5N) volumetric solution	452
182160	Sodium Thiosulfate 0.05 mol/l (0.05N) standard volumetric solution	473
182161	Iodine 0.025 mol/l (0.05N) (Reag. USP) volumetric solution	250
182162	Iodine 0.5 mol/l (1N) volumetric solution	250
182163	Zinc Sulfate 0.05 mol/l (0.05M) volumetric solution	569
182256	Potassium Iodide 1 mol/l (1N) volumetric solution	398
182284	Sodium Hydroxide 0.1 mol/l (0.1N) in ethanol volumetric solution	457
182318	Hydrochloric Acid 0.25 mol/l (0.25N) volumetric solution	237
182415	Sodium Hydroxide 1 mol/l (1N) (Reag. USP) volumetric solution	453
182552	Hydrochloric Acid 4 mol/l (4N) volumetric solution	235
182564	Silver Nitrate 0.01 mol/l (0.01N) volumetric solution	431
182577	Sodium Thiosulfate 0.01 mol/l (0.01N) standard volumetric solution	473
182651	Potassium Permanganate 0.1 mol/l (0.5N) volumetric solution	401
182792	SDS 0.004 mol/l volumetric solution	423
182812	Oxalic Acid 0.005 mol/l (0.01N) volumetric solution	346
182883	Hydrochloric Acid 6 mol/l (6N) volumetric solution	235
182884	Hydrochloric Acid 0.01 mol/l (0.01N) volumetric solution	238
182914	Sodium Thiosulfate 0.0394 mol/l (0.0394N) (ASTM D 1510) standard volumetric solution	473
182915	Iodine 0.02365 mol/l (0.0473N) (ASTM D 1510) volumetric solution	250
182971	Sodium Hydroxide 0.2 mol/l (0.2N) standard volumetric solution	455
183034	Potassium Hydroxide 0.01 mol/l (0.01N) in 2-propanol volumetric solution	397
183141	Benzethonium Chloride 0.004 mol/l (0.004M) volumetric solution	70
183154	Sodium Hydroxide 0.111 mol/l (0.111N) according to Dornic standard volumetric solution	455
183335	Sulfuric Acid 0.1275 mol/l (0.255N) volumetric solution	518
183336	Potassium Hydroxide 0.1 mol/l (0.1N) in 2-propanol volumetric solution	396
183337	Sodium Hydroxide 0.313 mol/l (0.313N) standard volumetric solution	455
183354	Potassium Hydroxide 0.23 mol/l (0.23N) volumetric solution	395
183397	Sodium Hydroxide 0.02 mol/l (0.02N) standard volumetric solution	456
183418	Potassium Chloride 0.01 mol/l (0.01N) volumetric solution	384
183425	Potassium Iodide 2 mol/l (2M) (pH 7.0) volumetric solution	398
183426	Sulfuric Acid 2 mol/l (4N) volumetric solution	517
183458	Hydrochloric Acid 0.02 mol/l (0.02N) volumetric solution	237
183466	Sodium Hydroxide 4 mol/l (4N) volumetric solution	452
183489	Sodium Thiosulfate 0.2 mol/l (0.2N) standard volumetric solution	472
183508	Sodium Hydroxide 10 mol/l (10N) volumetric solution	452

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183669	Tetrabutylammonium Hydroxide 0.1 mol/l (0.1N) in2-propanol/methanol (11:1) volumetric solution	527
184385	Potassium Dichromate 0.04 mol/l with 80 g/l of Mercury(II) Sulfate volumetric solution	388
184912	Sodium Hydroxide 0.330 mol/l volumetric solution	454
185225	Tetrabutylammonium Hydroxide 0.1 mol/l (0.1N) intoluene/methanol (9:1) volumetric solution	527
185227	Ammonium Iron(II) Sulfate 0.12 mol/l (0.12N) volumetric solution	50
185314	Sulfuric Acid 4 mol/l (8N) volumetric solution	517
185423	Hydrochloric Acid 0.310 mol/l (1,128 % w/v) volumetric solution	237
185528	Sodium Hydroxide 1.02 mol/l (1.02N) volumetric solution	453
185560	Silver Nitrate 0.5 mol/l (0.5N) volumetric solution	430
185733	Iodine (Iodate-Iodide) N/50 volumetric solution	251
186195	Nitric Acid 4 mol/l (4N) volumetric solution	336
186880	Iodine (Iodate-Iodide) N/64 volumetric solution	251
186982	Sodium Hydroxide 1 mol/l (1N) (Reag. Ph. Eur.) volumetric solution	453
186983	Silver Nitrate 0.1 mol/l (0.1N) (Reag. USP) volumetric solution	430
186985	Hydrochloric Acid 1 mol/l (1N) (Reag. Ph. Eur.) volumetric solution	236
186986	Potassium Permanganate 0.02 mol/l (0.1N) (Reag. Ph. Eur.) volumetric solution	401
186987	Sodium Thiosulfate 0.1 mol/l (0.1N) (Reag. Ph. Eur.) standard volumetric solution	473
187037	Tetrabutylammonium Hydroxide 0.1 mol/l (0.1N) in methanol volumetric solution	527
187042	Lanthanum Nitrate 0.1 mlol/l (0.1N) volumetric solution	266
187051	Hydrochloric Acid 10 mol/l (10N) volumetric solution	235
187057	Sodium tetra-Phenylborate 0.01 mol/l volumetric solution	471
187063	Sodium Hydroxide 8 mol/l (8N) volumetric solution	452
187078	Perchloric Acid 0.6 mol/l (0.6N) volumetric solution	359
187080	Potassium Hydroxide 3 mol/l (3N) volumetric solution	395
187087	EDTA Disodium Salt 0.01783 mol/l (0.01783N) volumetric solution	173
187094	Sulfuric Acid 0.005 mol/l (0.01N) volumetric solution	519
187098	Magnesium Sulfate 0.01 mol/l (0.02N) volumetric solution	283
187139	Tetrabutylammonium Hydroxide 1 mol/l (1N) in methanol volumetric solution	526
191066	L(+)-Tartaric Acid (USP-NF, BP, Ph. Eur.) pharma grade	522
191086	Ethanol absolute (USP-NF, BP, Ph. Eur.) pharma grade	180
191101	Aluminium Sulfate 18-hydrate (BP, Ph. Eur.) pharma grade	40
191214	Calcium Chloride 6-hydrate (Ph. Eur.) pharma grade	99
191232	Calcium Chloride 2-hydrate powder (USP, BP, Ph. Eur.) pharma grade	98
191252	Chloroform stabilized with ethanol (BP) pharma grade	117
191287	Diethanolamine (USP-NF) pharma grade	156
191303	Tin(II) Chloride 2-hydrate (Ph. Eur.) pharma grade	535
191315	Petroleum Ether 40-60 °C (DAB) pharma grade	362
191318	Ethyl Acetate (BP, Ph. Eur.) pharma grade	188
191396	Magnesium Chloride 6-hydrate (USP, BP, Ph. Eur.) pharma grade	279
191410	Manganese(II) Chloride 4-hydrate (USP) pharma grade	286
191490	Potassium Carbonate (USP, BP, Ph. Eur.) pharma grade	383
191494	Potassium Chloride (USP, BP, Ph. Eur.) pharma grade	384
191704	Methyl Green (C.I. 42585) (Ph. Fr.) pharma grade	297
191716	Sodium Sulfate anhydrous (USP, BP, Ph. Eur.) pharma grade	468
191717	Sodium Sulfite anhydrous (BP, Ph. Eur.) pharma grade	469
191726	Sodium Iodide (Ph. Eur., USP) pharma grade	459
191738	Thymol (Ph. Eur.) pharma grade	534
191750	Triethanolamine (BP, Ph. Eur., USP-NF) pharma grade	542
191754	Urea crystalline (USP, BP, Ph. Eur.) pharma grade	553
191779	Zinc Chloride (Ph. Eur., USP) pharma grade	566
191786	Zinc Oxide (USP, BP, Ph. Eur.) pharma grade	568
[illegible]54	Dimethyl Sulfoxide (USP, BP, Ph. Eur.) pharma grade	161
191[illegible]	[illegible]xylbenzyldimethylammonium Chloride [illegible]NF) pharma grade	37
192415	[illegible] Hydroxide 1 mol/l (1N) pha[illegible] grade	453
192695	Ethanol 70 % v/v (BP) pharma grade	185
192756	Sodium Selenite anhydrous (BP) pharma grade	467
192770	Diethyl Ether anaesthetic stabilized with ~ 6 ppm of BHT (BP, Ph. Eur.) pharma grade	157
192786	Octanoic Acid (BP, Ph. Eur.) pharma grade	342
196884	Acetic Acid 25 % w/w pharma grade	20
196997	Iron(III) Chloride solution 14 % w/w (as Fe) pharma grade	254
197012	Citric Acid solution 15 % w/v pharma grade	123
201003	Vaseline Oil (F.C.C.) food grade	556
201008	Acetic Acid glacial (E-260, F.C.C.) food grade	18
201013	L(+)-Ascorbic Acid (E-300, F.C.C.) food grade	64
201018	Citric Acid 1-hydrate (E-330, F.C.C.) food grade	122
201020	Hydrochloric Acid 37 % (E-507, F.C.C.) food grade	232
201030	Formic Acid 98 % (F.C.C.) food grade	200
201032	ortho-Phosphoric Acid 85 % (F.C.C.) food grade	372
201034	L(+)-Lactic Acid (F.C.C.) food grade	264
201055	Sorbic Acid (E-200, F.C.C.) food grade	474
201058	Sulfuric Acid 95-98 % (F.C.C.) food grade	513
201085	Ethanol 96 % v/v (F.C.C.) food grade	183
201086	Ethanol absolute (F.C.C.) food grade	181
201089	Isobutanol (F.C.C.) food grade	256
201090	2-Propanol (F.C.C.) food grade	407
201091	Methanol (F.C.C.) food grade	296
201119	Ammonium Carbonate food grade	47
201212	Calcium Carbonate precipitated (E-170i, F.C.C.) food grade	97
201213	tri-Calcium di-Citrate 4-hydrate (E-333iii, F.C.C.) food grade	99
201228	tri-Calcium Phosphate (E-341iii, F.C.C.) food grade	102
201232	Calcium Chloride 2-hydrate powder (E-509, F.C.C.) food grade	98
201235	Calcium Sulfate 2-hydrate (E-516, F.C.C.) food grade	102
201237	Charcoal Activated powder (E-153, F.C.C.) food grade	111
201319	Ethyl (S)-(-)-Lactate (F.C.C.) food grade	189
201341	D(+)-Glucose anhydrous (F.C.C.) food grade	209
201362	Iron(II) Sulfate 7-hydrate (F.C.C.) food grade	227
201396	Magnesium Chloride 6-hydrate (E-511, F.C.C.) food grade	279
201399	tri-Magnesium di-Phosphate 5-hydrate (F.C.C.) food grade	280
201404	Magnesium Sulfate 7-hydrate (F.C.C.) food grade	283
201413	Manganese(II) Sulfate 1-hydrate (F.C.C.) food grade	287
201490	Potassium Carbonate (E-501i, F.C.C.) food grade	383
201492	tri-Potassium Citrate 1-hydrate (E-332ii, F.C.C.) food grade	386
201494	Potassium Chloride (E-508, F.C.C.) food grade	384
201509	Potassium di-Hydrogen Phosphate (E-340i, F.C.C.) food grade	387
201512	di-Potassium Hydrogen Phosphate anhydrous (E-340ii, F.C.C.) food grade	391
201513	tri-Potassium Phosphate 1.5-hydrate (E-340iii, F.C.C.) food grade	402
201515	Potassium Hydroxide 85 % pellets (E-525, F.C.C.) food grade	394
201524	Potassium Nitrate without anticaking (E-252, F.C.C.) food grade	399
201531	Potassium Sorbate (E-202, F.C.C.) food grade	403
201542	Potassium Iodide (F.C.C.) food grade	397
201545	1,2-Propanediol (E-1520, F.C.C.) food grade	405
201638	Sodium Hydrogen Carbonate (E-500ii, F.C.C.) food grade	445
201647	Sodium Carbonate 10-hydrate (E-500i, F.C.C.) food grade	436
201648	Sodium Carbonate anhydrous (E-500i, F.C.C.) food grade	436
201655	tri-Sodium Citrate 2-hydrate (E-331iii, F.C.C) food grade	440
201659	Sodium Chloride (F.C.C.) food grade	437
201669	EDTA Disodium Salt 2-hydrate (F.C.C.) food grade	172
201677	Sodium di-Hydrogen Phosphate 2-hydrate (E-339i, F.C.C.) food grade	442
201678	di-Sodium Hydrogen Phosphate 12-hydrate (E-339ii) food grade	447
201680	tri-Sodium Phosphate 12-hydrate (E-339iii, F.C.C.) food grade	464
201687	Sodium Hydroxide pellets (E-524, F.C.C.) food grade	448
201698	Sodium Disulfite (E-223, F.C.C.) food grade	443
201702	Sodium Nitrate (E-251, F.C.C.) food grade	461
201710	tetra-Sodium Pyrophosphate 10-hydrate (E-450iii, F.C.C.) food grade	465
201716	Sodium Sulfate anhydrous (E-514i, F.C.C.) food grade	468
201719	Sodium Tartrate 2-hydrate (E-335ii, F.C.C.) food grade	470
201787	Zinc Sulfate 7-hydrate (F.C.C.) food grade	568
201788	Zinc Sulfate 1-hydrate (F.C.C.) food grade	568
201808	Citric Acid anhydrous (E-330, F.C.C.) food grade	122
201885	1-Propanol (F.C.C.) food grade	406
201927	Magnesium Hydrogen Phosphate 3-hydrate (E-343ii, F.C.C.) food grade	280
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624835	Sodium Hydroxide 0.1332 mol/l (0.1332N) VINIKIT for wine analysis	455
624901	Rebelein's Kit VINIKIT for wine analysis	416
624904	Hydrogen Peroxide 0.9 % VINIKIT for wine analysis	241
624905	Indicator 4.4, Mixed (Methyl Red-Methylene Blue) VINIKIT for wine analysis	247
625409	Calcium Hydroxide 2 mol/l (suspension) VINIKIT for wine analysis	101
625448	Iodine (Iodate-Iodide) N/128 VINIKIT for wine analysis	251
631007	Acetone (Ph. Eur, BP, USP-NF) GMP - IPEC grade	22
631018	Citric Acid 1-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade	122
631085	Ethanol 96 % v/v (Ph. Eur., BP, USP-NF) GMP - IPEC grade	183
631090	2-Propanol (Ph. Eur, BP, USP-NF) GMP - IPEC grade	407
631232	Calcium Chloride 2-hydrate (Ph. Eur., BP, USP) GMP - IPEC grade	98

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631339	Glycerol (Ph. Eur, BP, USP) GMP - IPEC grade	213
631340	Glycine (Ph. Eur, BP, USP) GMP - IPEC grade	215
631396	Magnesium Chloride 6-hydrate (Ph. Eur., BP) GMP - IPEC grade	278
631404	Magnesium Sulfate 7-hydrate (Ph. Eur, BP) GMP - IPEC grade	282
631515	Potassium Hydroxide 85 % pellets (Ph. Eur, BP, USP-NF) GMP - IPEC grade	393
631632	Sodium Acetate 3-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade	434
631655	tri-Sodium Citrate 2-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade	440
631669	EDTA Disodium Salt 2-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade	172
631687	Sodium Hydroxide pellets (Ph. Eur, BP, USP, JP) GMP - IPEC grade	448
631786	Zinc Oxide (Ph. Eur., BP, USP) GMP - IPEC grade	568
632825	Butylhydroxytoluene (Ph. Eur., BP, USP-NF) GMP - IPEC grade	94
701074	Water for LC-MS	558
701091	Methanol for LC-MS	295
701881	Acetonitrile for LC-MS	23
711019	Hydrochloric Acid 35 % for trace metal analysis (ppt)	232
711028	Hydrofluoric Acid 48 % for trace metal analysis (ppt)	238
711037	Nitric Acid 69 % for trace metal analysis (ppt)	334
711058	Sulfuric Acid 93-98 % for trace metal analysis (ppt)	514
711074	Water for trace metal analysis (ppt)	559
711128	Ammonia 20 % (as NH_3) for trace metal analysis (ppt)	45
716323	Hydrogen Peroxide 30 % w/w for trace metal analysis (ppt)	240
721008	Acetic Acid glacial for trace metal analysis (ppb)	18
721019	Hydrochloric Acid 35 % for trace metal analysis (ppb)	232
721028	Hydrofluoric Acid 48 % for trace metal analysis (ppb)	238
721037	Nitric Acid 69 % for trace metal analysis (ppb)	334
721058	Sulfuric Acid 93-98 % for trace metal analysis (ppb)	514
721091	Methanol for UHPLC Hypergradient	294
721128	Ammonia 20 % (as NH_3) for trace metal analysis (ppb)	45
721881	Acetonitrile for UHPLC Hypergradient	23
722175	Perchloric Acid 70 % for trace metal analysis (ppb)	359
751785	N,N-Dimethylformamide for Headspace GC	163
751954	Dimethyl Sulfoxide for Headspace GC	160
753145	N,N-Dimethylacetamide for Headspace GC	162
763173	Beryllium standard solution Be=1.000 g/l for ICP	482
765898	Sulfur standard solution S=1.000 g/l for ICP	489
765900	Boron standard solution B=1.000 g/l for ICP	482
765901	Cerium standard solution Ce=1.000 g/l for ICP	483
765903	Chloride standard solution Cl=1.000 g/l for ICP	483
765904	Dysprosium standard solution Dy=1.000 g/l for ICP	483
765908	Gadolinium standard solution Gd=1.000 g/l for ICP	484
765909	Gallium standard solution Ga=1.000 g/l for ICP	484
765910	Germanium standard solution Ge=1.000 g/l for ICP	484
765913	Indium standard solution In=1.000 g/l for ICP	484
765915	Yttrium standard solution Y=1.000 g/l for ICP	491
765917	Lutetium standard solution Lu=1.000 g/l for ICP	485
765919	Niobium standard solution Nb=1.000 g/l for ICP	486
765920	Nitrogen standard solution N=1.000 g/l for ICP	486
765922	Palladium standard solution Pd=1.000 g/l for ICP	487
765923	Platinum standard solution Pt=1.000 g/l for ICP	487
765926	Rhodium standard solution Rh=1.000 g/l for ICP	487
765927	Rubidium standard solution Rb=1.000 g/l for ICP	488
765928	Ruthenium standard solution Ru=1.000 g/l for ICP	488
765930	Scandium standard solution Sc=1.000 g/l for ICP	488
765931	Thallium standard solution Tl=1.000 g/l for ICP	490
765932	Tantalum standard solution Ta=1.000 g/l for ICP	489
765933	Tellurium standard solution Te=1.000 g/l for ICP	490
765934	Titanium standard solution Ti=1.000 g/l for ICP	490
765935	Thorium standard solution Th=1.000 g/l for ICP	490
765937	Uranium standard solution U=1.000 g/l for ICP	491
765938	Vanadium standard solution V=1.000 g/l for ICP	491
765939	Wolfram standard solution W=1.000 g/l for ICP	491
765940	Zirconium standard solution Zr=1.000 g/l for ICP	492
765997	Silicon standard solution Si=1.000 g/l for ICP	488
766034	Aluminium standard solution Al=1.000 g/l for ICP	481
766035	Antimony standard solution Sb=1.000 g/l for ICP	481
766036	Arsenic standard solution As=1.000 g/l for ICP	481
766037	Barium standard solution Ba=1.000 g/l for ICP	481
766038	Cadmium standard solution Cd=1.000 g/l for ICP	482
766039	Bismuth standard solution Bi=1.000 g/l for ICP	482
766040	Calcium standard solution Ca=1.000 g/l for ICP	482
766041	Cobalt standard solution Co=1.000 g/l for ICP	483
766042	Copper standard solution Cu=1.000 g/l for ICP	483
766043	Chromium standard solution Cr=1.000 g/l for ICP	483
766047	Tin standard solution Sn=1.000 g/l for ICP	490
766048	Strontium standard solution Sr=1.000 g/l for ICP	489
766049	Iron standard solution Fe=1.000 g/l for ICP	485
766050	Potassium standard solution K=1.000 g/l for ICP	487
766051	Magnesium standard solution Mg=1.000 g/l for ICP	485
766052	Manganese standard solution Mn=1.000 g/l for ICP	486
766053	Molybdenum standard solution Mo=1.000 g/l for ICP	486
766054	Nickel standard solution Ni=1.000 g/l for ICP	486
766055	Selenium standard solution Se=1.000 g/l for ICP	488
766056	Sodium standard solution Na=1.000 g/l for ICP	489
766057	Titanium standard solution Ti=1.000 g/l for ICP	491
766058	Zinc standard solution Zn=1.000 g/l for ICP	492
766059	Lithium standard solution Li=1.000 g/l for ICP	485
766060	Mercury standard solution Hg=1.000 g/l for ICP	486
766061	Gold standard solution Au=1.000 g/l for ICP	484
766062	Silver standard solution Ag=1.000 g/l for ICP	489
766063	Lead standard solution Pb=1.000 g/l for ICP	485
766332	Multielement standard solution 1000 mg/l : Ag, Al, B, Ba, Bi, Ca ,Cd, Co, Cr, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Sr, Tl, Zn for ICP	497
766333	Multielement standard solution 100 mg/l : Al, B,Ba, Be,Bi,Ca, Cd, Co, Cr, Cu, Fe, Ga, K, Li, Mg, Mn, Na, Ni, Pb, Se, Sr, Te, Tl, Zn for ICP	498
766334	Multielement standard solution 100 mg/l : As, Be, Cd, Cr, Pb, Hg, Ni, Se, Tl for ICP	497
766335	Multielement standard solution 100 mg/l: As, Be,Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn for ICP	497
766336	Multielement standard solution 100 mg/l : Hf, Ir, Sb, Sn, Ta, Ti, Zr for ICP	497
766384	Phosphorus standard solution P=1.000 g/l for ICP	487
766878	Boron standard dissolved in ammonia solution 1 % B=1000 ug/g for ICP	482
775899	Beryllium standard solution Be=10.00 g/l for ICP	492
775907	Phosphorus standard solution P=10.00 g/l for ICP	495
775943	Aluminium standard solution Al=10.00 g/l for ICP	492
775945	Arsenic standard solution As=10.00 g/l for ICP	492
775946	Sulfur standard solution S=10.00 g/l for ICP	496
775950	Calcium standard solution Ca=10.00 g/l for ICP	493
775952	Cesium standard solution Cs=10.00 g/l for ICP	493
775953	Chloride standard solution Cl=10.00 g/l for ICP	493
775955	Copper standard solution Cu=10.00 g/l for ICP	493
775956	Chromium standard solution Cr=10.00 g/l for ICP	493
775960	Tin standard solution Sn=10.00 g/l for ICP	496
775965	Germanium standard solution Ge=10.00 g/l for ICP	493
775967	Iron standard solution Fe=10.00 g/l for ICP	494
775972	Yttrium standard solution Y=10.00 g/l for ICP	496
775976	Magnesium standard solution Mg=10.00 g/l for ICP	494
775977	Manganese standard solution Mn=10.00 g/l for ICP	494
775978	Mercury standard solution Hg=10.00 g/l for ICP	494
775982	Nickel standard solution Ni=10.00 g/l for ICP	495
775988	Lead standard solution Pb=10.00 g/l for ICP	494
775989	Potassium standard solution K=10.00 g/l for ICP	495
775998	Silicon standard solution Si=10.00 g/l for ICP	495
775999	Sodium standard solution Na=10.00 g/l for ICP	495
776004	Titanium standard solution Ti=10.00 g/l for ICP	496
776010	Zinc standard solution Zn=10.00 g/l for ICP	496
776011	Zirconium standard solution Zr=10.00 g/l for ICP	497
784236	Phosphate standard solution PO_4=1.000 g/l for IC	499
784237	Nitrate standard solution NO_3=1.000 g/l for IC	499
784238	Chloride standard solution Cl=1.000 g/l for IC	498
784239	Bromide standard solution Br=1.000 g/l for IC	498
784241	Ammonium standard solution NH_4=1.000 g/l for IC	498
784242	Potassium standard solution K=1.000 g/l for IC	499
784243	Sodium standard solution Na=1.000 g/l for IC	500
786325	Nitrogen standard solution N=1.000 g/l for IC	499
786326	Chromate standard solution CrO_4=1.000 g/l for IC	498
786327	Nitrite standard solution NO_2=1.000 g/l for IC	499
786328	Fluoride standard solution F=1.000 g/l for IC	499
786329	Sulfate standard solution SO_4=1.000 g/l for IC	500
786345	Calcium standard solution Ca=1.000 g/l for IC	498
786346	Magnesium standard solution Mg=1.000 g/l for IC	499
786348	Lithium standard solution Li=1.000 g/l for IC	499
786350	Manganese standard solution Mn=1.000 g/l for IC	499
786915	Cadmium standard solution Cd=1.000 g/l for IC	498
786916	Cesium standard solution Cs=1.000 g/l for IC	498
786917	Cyanide standard solution CN=1.000 g/l	498
786922	Phosphorus standard solution P=1.000 g/l for IC	499
786925	Iron standard solution Fe=1.000 g/l for IC	499
786937	Multielement standard solution, anionic III for IC	500
786938	Multielement standard solution, anionic IV for IC	500
786939	Multielement standard solution, anionic V for IC	500
786940	Multielement standard solution, cationic I for IC	500
786941	Multielement standard solution, cationic II for IC	500
786942	Multielement standard solution, cationic III for IC	500
786943	Multielement standard solution, cationic IV for IC	500
14A315	DL-Valine pure	555
14B216	Folic Acid (USP, BP, Ph. Eur.) pure, pharma grade	197
14B626	4-Aminobenzoic Acid (USP) pure, pharma grade	42
15A127	2-Nitrobenzaldehyde, 99 % for synthesis	337
15A167	N-Acetyl-L-Cysteine, 98 % for synthesis	25
15A371	4-Aminoantipyrine, 98 % for synthesis	42
15A390	L-Lysine 1-hydrate, 98 % for synthesis	276
15A428	1-Naphthaleneacetic Acid, 97 % for synthesis	329
15A475	4-Aminophenol, 98 % for synthesis	43
15A512	Propyl 4-Hydroxybenzoate, 99 % for synthesis	409
15A581	gamma-Butyrolactone, 99 % for synthesis	95
15A585	α-Terpineol, 70 % for synthesis	525
15A597	1,4-Butanediol, 99 % for synthesis	91
15A598	1,4-Dichlorobenzene, 99 % for synthesis	154
15A603	1-Bromonaphthalene, 96 % for synthesis	84
15A612	1-Naphthylamine, 99 % for synthesis	331
15A631	2-Phenoxyethanol, 99 % for synthesis	370
15A639	3,5-Dihydroxytoluene 1-hydrate, 99 % for synthesis	160
15A656	Acetaldehyde, 99 % for synthesis	17
15A671	Toluene-4-Sulfonic Acid 1-hydrate, 98 % for synthesis	538
15A676	Chlorosulfonic Acid, 98 % for synthesis	118
15A689	n-Butyric Acid, 99 % for synthesis	95
15A718	Anthraquinone, 98 % for synthesis	57
15A734	Boron Trifluoride 14 % in methanol for synthesis	79
15A754	Copper, 99 % metal, turnings for synthesis	128

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15A758	Decahydronaphthalene, 98 % isomers mixture for synthesis	139
15A767	Diethyl Oxalate, 98.5 % for synthesis	158
15A771	Di-Isopropylamine, 99 % for synthesis	153
15A777	Di-n-Butylamine, 99 % for synthesis	94
15A784	Diethylene Glycol mono-Ethyl Ether, 98 % for synthesis	159
15A813	Iron(III) Chloride anhydrous, 97 % for synthesis	254
15A843	o-Cresol, 99 % for synthesis	132
15A862	Quinoline, 96 % for synthesis	415
15A865	Sodium, 99 % metal, sticks in vaseline oil for synthesis	474
15A876	Tetrabutylammonium Hydroxide aqueous solution 20 % w/w for synthesis	526
15A884	Iodine mono-Chloride, 98 % for synthesis	251
15A886	Iodomethane, 99 % stabilized with copper for synthesis	252
15A915	Pyruvic Acid, 98 % for synthesis	414
15A983	Propionic Anhydride for synthesis	409
15B482	2,3-Dibromopropionic Acid, 98 % for synthesis	154
15B512	L-Cysteine, 99 % for synthesis	136
15C074	2-Methylfuran, 99 % for synthesis	302
63B764	6-Aminohexanoic Acid (Ph. Eur., BP, USP) GMP - IPEC grade	43
A0367	2-Hydroxypropyl-β-Cyclodextrin	243
A0384	Sodium Hydrogen Carbonate for cell culture	445
A0385	Acrylamide solution (40 %) - Mix 29 : 1 for molecular biology	28
A0386	TE buffer (1X) pH 8.0 for molecular biology	524
A0415	May-Gruenwald solution for microscopy	289
A0422	N-Lauroylsarcosine Sodium Salt pure	267
A0427	Safranine O (C.I. 50240) for microscopy	420
A0444	Phenol water-saturated, non-stabilized + separate Tris - Solution	367
A0445	Polyethylene Glycol 200 BioChemica	376
A0447	Phenol water-saturated, stabilized + separate Tris - Solution	367
A0455	N^6-2'-O-Dibutyryl-Adenosine 3',5'-Cyclophosphate Sodium Salt 1-hydrate	154
A0461	deconex® 21 SOLID	140
A0565	Ethanol 70 % denatured with Ketones technical grade	185
A0585	Pancreatin	348
A0589	Glutaraldehyde solution 25 % for electron microscopy	212
A0590	Trichloroacetic Acid solution 20 % BioChemica	540
A0596	3,3'-Diaminobenzidine Tetrahydrochloride BioChemica	153
A0601	Flavin Mononucleotide Monosodium Salt 2-hydrate BioChemica	195
A0622	L-Cystine Dihydrochloride pure	138
A0623	Bacitracin BioChemica	66
A0665	Xanthine BioChemica	562
A0666	Uridine BioChemica	554
A0667	Uracil BioChemica	553
A0668	Trypan Blue (C.I. 23850)	548
A0671	Testosterone	525
A0672	Spermine BioChemica	476
A0673	Spermidine Trihydrochloride BioChemica	476
A0674	Spermidine BioChemica	476
A0675	SDS solution 20 % for molecular biology	423
A0676	SDS solution 10 % for molecular biology	423
A0689	MES anhydrous BioChemica	294
A0695	3-Isobutyl-1-Methylxanthine BioChemica	256
A0697	Trifluoroacetic acid BioChemica	544
A0698	Inosine BioChemica	248
A0699	Immersion Oil, fluorescence-free for microscopy	246
A0700	Hypoxanthine BioChemica	245
A0701	Guanosine BioChemica	219
A0703	Guanidine Thiocyanate solution (6 M in 0.1 M Tris; pH 7.5) for molecular biology	219
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A0768	Boric Acid for buffer solutions	78
A0785	Choline Chloride BioChemica	119
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A0807	Cholesterol BioChemica	118
A0809	Cholesteryl Benzoate BioChemica	119
A0812	Coenzyme A free acid BioChemica	125
A0813	Coenzyme A Trilithium Salt 2-hydrate BioChemica	126
A0819	*n*-Dodecyl-β-D-Maltoside BioChemica	168
A0821	Eosin B (C.I. 45400)	177
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A0823	Formaldehyde solution 37 % BioChemica	198
A0830	Nonfat dried milk powder	340
A0833	Adenosine BioChemica	30
A0837	Phenol equilibrated, non-stabilized : Chloroform : Isoamyl Alcohol 25 : 24 : 1	367
A0838	2-Amino-2-Methyl-1-Propanol for buffer solutions	41
A0839	Ampicillin Sodium Salt BioChemica	55
A0846	Albumin crystallized	35
A0847	Albumin - H1	34
A0848	Albumin - H2	34
A0[illegible]9	Albumin for microbiology	34
A0[illegible]	Albumin EIA and RIA grade	35
A0860	Guanidine Hydrochloride solution BioChemica	218

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A0861	Guanidine Thiocyanate solution (4 M in 0.1 M Tris; pH 7.5) for molecular biology	219
A0871	Formamide ultrapure	200
A0877	Formaldehyde solution 37 % for molecular biology	198
A0878	EGTA for molecular biology	175
A0879	Cycloheximide BioChemica	136
A0880	D(+)-Lactose 1-hydrate BioChemica	265
A0881	DEPC BioChemica	144
A0883	D(+)-Glucose anhydrous for cell culture	210
A0884	Mayer's Hemalaun solution for microscopy	289
A0885	Giemsa solution for microscopy	207
A0886	Ziehl-Neelsen solution	566
A0887	Lactulose BioChemica	265
A0889	Phenol equilibrated, stabilized : Chloroform : Isoamyl Alcohol 25 : 24 : 1	367
A0890	Polymyxin B Sulfate BioChemica	379
A0893	Lecithin from Egg BioChemica	269
A0902	Ninhydrin for analysis	334
A0903	Phorbol-12-Myristate-13-Acetate (PMA)	370
A0909	Giemsa stain	207
A0913	Ethanol 70 % (DAB) pure, pharma grade	185
A0917	Agar powdered pure, food grade	32
A0927	LB-Agar - Powder according to Miller	267
A0934	Acetonitrile for DNA synthesis and protein sequencing	24
A0936	Formaldehyde solution approx. 37 % for histology	198
A0937	Formamide BioChemica	200
A0939	Adenine BioChemica	30
A0942	Hemin porcine	221
A0944	Phenol non stabilized : Chloroform : Isoamyl Alcohol 25 : 24 : 1	367
A0946	Acrylamide 4K solution (40 %) - Mix 32 : 1	29
A0948	Adenosine 5'-Diphosphoric Acid Disodium Salt 2-hydrate BioChemica	30
A0949	Agar Bacteriology grade	32
A0950	Acrylamide 4K solution (40 %) - Mix 29 : 1	28
A0951	Acrylamide 4K solution (30 %) - Mix 29 : 1	27
A0952	FALGPA BioChemica	192
A0954	LB-Medium - Powder according to Miller	267
A0955	Thiamin Hydrochloride BioChemica	531
A0957	Pyridoxine Hydrochloride BioChemica	413
A0958	Lithium Chloride BioChemica	273
A0959	Nicotinamide (Ph. Eur., USP) pure, pharma grade	333
A0960	Pyridoxal Hydrochloride BioChemica	413
A0962	Acrylamide 4K solution (40 %)	28
A0963	Nicotinic Acid (Ph. Eur., USP) pure, pharma grade	333
A0964	PBS buffer (1X, Dulbecco's) - Powder	352
A0965	PBS buffer (10X Dulbecco's) - Powder	352
A0966	4-Aminobenzoic Acid BioChemica	42
A0968	Riboflavin BioChemica	417
A0969	D(+)-Biotin BioChemica	74
A0970	Glycerol 87 % BioChemica	214
A0971	Phenol equilibrated, non-stabilized	367
A0972	TBE buffer (10X)	523
A0973	TE buffer (100X) pH 8.0	524
A0974	TB-Medium - Powder (Terrific Broth)	522
A0979	Sodium Cholate BioChemica	439
A0981	YT-Medium - Powder (2X)	565
A0982	L(+)-Lactic Acid Lithium Salt crystalline BioChemica	264
A0985	Sodium Thioglycolate for microbiology	471
A0998	APMSF Hydrochloride BioChemica	58
A0999	PMSF BioChemica	376
A1001	DAPI BioChemica	139
A1002	Sialic Acid BioChemica	425
A1003	BCECF-AM BioChemica	68
A1004	L(+)-Sodium Lactate crystalline BioChemica	460
A1006	D-Luciferin Sodium Salt	274
A1007	X-Gal BioChemica	561
A1008	IPTG BioChemica	253
A1010	n-Octyl-β-D-Glucopyranoside BioChemica	343
A1024	Bicine for buffer solutions	73
A1025	Bis-Tris for buffer solutions	75
A1028	4-Nitrophenyl-β-D-Glucuronide BioChemica	339
A1029	D-Luciferin free acid	274
A1032	Ammonium Sulfate BioChemica	54
A1035	Iron(II) Sulfate 7-hydrate BioChemica	228
A1036	Magnesium Chloride 6-hydrate BioChemica	279
A1039	Potassium Chloride BioChemica	384
A1042	*di*-Potassium Hydrogen Phosphate anhydrous BioChemica	391
A1043	Potassium di-Hydrogen Phosphate BioChemica	387
A1045	Sodium Acetate 3-hydrate BioChemica	434
A1046	*di*-Sodium Hydrogen Phosphate anhydrous BioChemica	446
A1047	Sodium di-Hydrogen Phosphate 1-hydrate BioChemica	441
A1049	Urea for molecular biology	554
A1052	L(+)-Ascorbic Acid powdered BioChemica	64
A1060	ACES for buffer solutions	17
A1062	BES for buffer solutions	72
A1063	CAPS for buffer solutions	103
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A1072	HEPPSO for buffer solutions	222
A1073	Imidazole for buffer solutions	245
A1074	MES 1-hydrate for buffer solutions	294
A1076	MOPS for buffer solutions	325
A1077	MOPS Sodium Salt for buffer solutions	325
A1078	MOPSO for buffer solutions	325
A1079	PIPES for buffer solutions	375
A1082	TAPS for buffer solutions	521
A1084	TES	525
A1085	Tricine BioChemica	542
A1086	Tris ultrapure	545
A1087	Tris Hydrochloride for buffer solutions	546
A1088	ABTS® BioChemica	17
A1089	Acrylamide 2K Standard grade, extrapure	27
A1090	Acrylamide 4K ultrapure	27
A1091	Agarose MP	33
A1092	Coomassie® Brilliant Blue R-250 (C.I. 42660)	128
A1095	Bisacrylamide 4K ultrapure	75
A1096	Bisacrylamide 2K Standard, pure	75
A1097	Boric Acid BioChemica	78
A1098	Cesium Chloride 99.999 % for molecular biology	108
A1099	CHAPS BioChemica	110
A1100	CHAPSO BioChemica	110
A1101	DTT BioChemica	170
A1102	DTE BioChemica	170
A1103	EDTA BioChemica	171
A1104	EDTA Disodium Salt 2-hydrate BioChemica	173
A1105	EDTA Tetrasodium Salt 2-hydrate BioChemica	174
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A1107	Guanidine Thiocyanate for molecular biology	218
A1108	β-Mercaptoethanol Molecular biology grade	291
A1112	SDS ultrapure	422
A1113	X-Glucuro CHA Salt BioChemica	562
A1117	BCIP BioChemica	68
A1119	Dansyl Chloride BioChemica	139
A1123	Glycerol anhydrous BioChemica	213
A1124	NAD	328
A1126	Cesium Chloride 99.9 % BioChemica	108
A1129	MUG 3-hydrate BioChemica	326
A1131	D(+)-Galactose BioChemica	204
A1135	Bis-Tris-Propane for buffer solutions	75
A1138	α-Ketoglutaric Acid BioChemica	261
A1141	Taurine BioChemica	522
A1142	Ammonium Persulfate BioChemica	53
A1145	*n*-Octyl-β-D-Thioglucopyranoside BioChemica	343
A1148	TEMED	525
A1149	Sodium Chloride BioChemica	438
A1151	Ethidium Bromide BioChemica	187
A1152	Ethidium Bromide solution 1 % BioChemica	187
A1153	Phenol equilibrated, stabilized	367
A1154	Acrylamide 4K solution (30 %)	27
A1163	N-Lauroylsarcosine Sodium Salt ultrapure	267
A1174	5-Fluoroorotic Acid BioChemica	197
A1243	NBT BioChemica	331
A1249	Polyethylene Glycol 4000 BioChemica	377
A1272	2-Nitrophenyl-β-D-Galactopyranoside BioChemica	339
A1278	Thimerosal *BioChemica*	532
A1279	1,9-Dimethylmethylene Blue Zinc Chloride BioChemica	163
A1282	Zeaxanthine	565
A1283	Lutein pure	275
A1284	Tween® 20 solution 10 % peroxide-free	551
A1286	Brij® 35 solution 10 % peroxide-free	80
A1287	Triton® X-100 solution 10 % peroxide-free	547
A1288	Pluronic® F-68 BioChemica	375
A1315	DMEM (Dulbecco's mod. Eagle - Medium)	166
A1316	DMEM (Dulbecco's mod. Eagle - Medium)	166
A1318	DMEM/F12 (1:1) - Medium	166
A1321	Glasgow - MEM (BHK 21)	207
A1322	Iscove's mod. Dulbecco's - Medium (IMDM)	255
A1323	Leibovitz's L15 - Medium	270
A1325	Medium 199 with Earle's Salts	289
A1329	α-MEM	290
A1335	MEM with Hanks' salts	290
A1336	MEM with Hanks' salts	290
A1339	RPMI 1640 - Powder Medium	419
A1340	L-Methionine (Ph. Eur., USP) pure, pharma grade	296
A1341	L-Histidine base (Ph. Eur., USP) pure, pharma grade	228
A1342	L-Lysine 1-hydrate (DAB) pure, pharma grade	276
A1343	L-Ornithine Hydrochloride (DAB) pure, pharma grade	345
A1344	L-Phenylalanine (Ph. Eur., USP) pure, pharma grade	370
A1345	L-Arginine base (Ph. Eur., USP) pure, pharma grade	63
A1348	Adenosine 5'-Triphosphoric Acid Disodium Salt BioChemica	31
A1349	D(+)-Glucose 1-hydrate BioChemica	210
A1350	Citric Acid 1-hydrate for buffer solutions	123
A1351	*tri*-Sodium Citrate 2-hydrate for buffer solutions	440
A1360	Urea BioChemica	554
A1378	Imidazole for molecular biology	245
A1379	Tris for buffer solutions	545

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A1380	Benzamidine Hydrochloride BioChemica	69
A1381	Brij® 35 BioChemica	80
A1385	Lithium Dodecylsulfate BioChemica	273
A1386	MEGA-8	290
A1387	Polyethylene Glycol 6000 BioChemica	378
A1388	Triton® X-100 BioChemica	547
A1389	Tween® 20 BioChemica	551
A1390	Tween® 80 BioChemica	551
A1391	Albumin Fraction V (pH 7.0)	35
A1392	Bilirubin BioChemica	73
A1393	NADH Disodium Salt	328
A1394	NADP Sodium Salt	329
A1395	NADPH Tetrasodium Salt	329
A1396	SSC buffer (20X) for molecular biology	476
A1397	SSPE buffer (20X) for molecular biology	477
A1398	Acridine Orange (C.I. 46005)	26
A1399	Amido Black 10 B (C.I. 20470)	40
A1401	Fast Green FCF (C.I. 42053)	193
A1402	Methylene Blue (C.I. 52015) BioChemica	301
A1405	Ponceau S (C.I. 27195)	380
A1406	Pyronin Y (C.I. 45005)	414
A1407	Sudan Black B (C.I. 26150)	510
A1408	Xylene Cyanol FF (C.I. 42135) BioChemica	564
A1415	SDS-Tris-Glycine buffer (10X) BioChemica	424
A1416	TAE buffer (10X)	521
A1417	TBE buffer (5X)	523
A1418	Tris-Glycine buffer (10X) BioChemica	547
A1419	L-Threonine (Ph. Eur., USP) pure, pharma grade	534
A1420	L-Glutamine (DAB, USP) pure, pharma grade	211
A1421	AEBSF Hydrochloride BioChemica	32
A1422	D(+)-Glucose anhydrous BioChemica	210
A1423	Triethanolamine BioChemica	543
A1424	Triethanolamine Hydrochloride BioChemica	543
A1425	L-Cysteine (DAB) pure, pharma grade	137
A1426	L-Leucine (Ph. Eur., USP) pure, pharma grade	270
A1430	Sodium Azide pure	435
A1431	Trichloroacetic Acid BioChemica	540
A1438	EDC Hydrochloride BioChemica	171
A1440	L-Isoleucine (Ph. Eur., USP) pure, pharma grade	257
A1442	4-Nitrophenyl Phosphate Disodium Salt 6-hydrate BioChemica	338
A1485	α-Amanitine	40
A1488	Phalloidin	364
A1489	Actinomycin D BioChemica	30
A1491	Carbenicillin Disodium Salt BioChemica	104
A1492	Gentamycin Sulfate BioChemica	206
A1493	Kanamycin Sulfate BioChemica	260
A1494	Nitro-PAPS Disodium Salt BioChemica	337
A1495	Streptavidin ultrapure	508
A1499	Guanidine Hydrochloride BioChemica	218
A1507	D-Fructose-1,6-Diphosphate Trisodium Salt 8-hydrate BioChemica	202
A1523	4-Aminoantipyrine BioChemica	42
A1530	Sodium Pyruvate for analysis	466
A1531	Sodium Deoxycholate BioChemica	441
A1536	Urobilinogen	554
A1537	Esculin BioChemica	179
A1538	RPMI 1640 - Powder Medium	419
A1539	Joklik - MEM, modified for spinner culture	259
A1546	Cysteamine Hydrochloride BioChemica	136
A1548	Bromelain from pineapple stem BioChemica	81
A1552	Yeast extract BioChemica	564
A1553	Tryptone BioChemica	549
A1561	Bilirubin pure	73
A1563	1-Naphthyl Acetate BioChemica	330
A1574	Bisacrylamide 4K - Solution (2 %)	75
A1577	Acrylamide 4K solution (40 %) - Mix 37.5 : 1	29
A1578	Phenol water-saturated, non-stabilized	366
A1584	Dimethyl sulfoxide BioChemica	161
A1591	L-Histidine Hydrochloride 1-hydrate (Ph. Eur.) pure, pharma grade	228
A1594	Phenol crystalline Molecular biology grade	366
A1596	Adenine Sulfate BioChemica	30
A1612	Ethanol for HPLC	181
A1613	Ethanol absolute for analysis	181
A1615	Ethanol 96 % v/v (Ph. Eur., BP) pure, pharma grade	184
A1622	Adenosine 5'-Monophosphoric Acid Disodium Salt BioChemica	31
A1624	Phenol water-saturated, stabilized	366
A1637	L-Valine (Ph. Eur., USP) pure, pharma grade	555
A1640	Acrylamide 4K solution (40 %) - Mix 19 : 1	28
A1645	L-Tryptophan (Ph. Eur., USP) pure, pharma grade	550
A1666	Iodoacetamide BioChemica	251
A1668	L-Asparagine 1-hydrate (Ph. Eur.) pure, pharma grade	65
A1669	Brij® 58 BioChemica	80
A1671	Sodium Chloride solution 0.9 %, sterile	439
A1672	Acrylamide 4K solution (30 %) - Mix 37.5 : 1	28
A17[illegible]	L-Tyrosine (Ph. Eur., USP) pure, pharma grade	552
A16[illegible]	L-Alanine (Ph. Eur., USP) pure, pharma grade	34
A1690	[illegible] Cholic Acid BioChemica	112
A1691	TAE buffer (50X)	520
A1694	Nonidet® P40 (Substitute) BioChemica	340
A1700	L-Arginine [illegible]hloride (Ph. Eur., USP) [illegible] pharma grade	64
A1701	L-Aspartic Acid (Ph. Eur., USP) pure, pharma grade	65
A1702	L-Cysteine Hydrochloride 1-hydrate (Ph. Eur., USP) pure, pharma grade	137
A1703	L-Cystine (Ph. Eur.) pure, pharma grade	137
A1704	L-Glutamic Acid (Ph. Eur., USP) pure, pharma grade	211
A1705	L-Hydroxyproline pure	243
A1706	L-Lysine Monohydrochloride (Ph. Eur., USP) pure, pharma grade	277
A1707	L-Proline (Ph. Eur., USP) pure, pharma grade	405
A1708	L-Serine (Ph. Eur., USP) pure, pharma grade	425
A1716	myo-Inositol BioChemica	249
A1731	5-Aminolevulinic Acid Hydrochloride BioChemica	43
A1742	D(+)-Trehalose 2-hydrate BioChemica	539
A1791	Hyperoside pure	244
A1795	Fuchsin basic (C.I. 42510) for microscopy	202
A1799	N-α-Tosyl-L-Lysine Chloromethyl Ketone Hydrochloride (TLCK) BioChemica	538
A1803	Guanosine 5'-Triphosphoric Acid Disodium Salt BioChemica	219
A1806	Chloramphenicol BioChemica	113
A1823	1-Naphthyl Phosphate Monosodium Salt 1-hydrate BioChemica	330
A1825	6-Phosphogluconic Acid Trisodium Salt BioChemica	371
A1826	Phenolphthalein Diphosphate Tetrasodium Salt	370
A1832	1-(4-Nitrophenyl)-1,2,3-Propanetriol	339
A1835	Peptone from Meat (enzymatic digest)	358
A1837	Penicillin G Potassium Salt BioChemica	355
A1839	Vancomycin Hydrochloride BioChemica	555
A1841	Maleic Acid (Ph. Eur.) pure, pharma grade	284
A1847	Dextran 70 BioChemica	148
A1852	Streptomycin Sulfate BioChemica	508
A1868	Ethanol 96 % v/v for analysis	184
A1873	Calcium Chloride 2-hydrate BioChemica	98
A1884	Lectin from Canavalia ensiformis (Con A)	269
A1885	2-Deoxy-D-Ribose BioChemica	142
A1894	Nalidixic Acid BioChemica	329
A1903	D(-)-Mannitol BioChemica	288
A1905	Digitonin (Reagent USP) BioChemica	159
A1907	Amphotericin B BioChemica	55
A1913	α-MEM	290
A1927	Ham's F12K - Medium	219
A1935	Chloroform : Isoamyl Alcohol 24 : 1 BioChemica	115
A1937	Hyaluronidase Grade I	230
A1940	Sodium Hydrogen Carbonate BioChemica	445
A1943	D-Cycloserine BioChemica	136
A1944	Novobiocin Sodium Salt BioChemica	341
A1945	α-Ketobutyric Acid Sodium Salt BioChemica	261
A1946	Chlorotetracycline Hydrochloride BioChemica	118
A1947	Tetrabutylammonium di-Hydrogen Phosphate	525
A1956	MEM with Earle's salts	290
A1959	RPMI 1640 - Powder Medium	419
A1964	IPL 41 - Medium	253
A1993	α-Chloralose	112
A1999	Nocodazole BioChemica	339
A2012	(-)-Epicatechin Gallate for HPLC	178
A2017	TC 100 - Insect medium	524
A2022	Medium 199 with Earle's Salts	289
A2027	IPL 41 - Medium	253
A2051	Acetoxy Valerenic Acid for HPLC	24
A2054	Aucubin for HPLC	65
A2062	Hyperosid HPLC grade	244
A2064	Isoquercitrin for HPLC	259
A2066	Kaempferol-3-glucoside for HPLC	260
A2071	Senecionin HPLC grade	425
A2075	Ethanol 68 % for alcohol determination in milk	186
A2084	L-Glutathione reduced BioChemica	212
A2085	Folic Acid crystalline BioChemica	197
A2087	Manganese(II) Chloride 4-hydrate BioChemica	286
A2088	D-Pantothenic Acid Calcium Salt BioChemica	348
A2089	Vitamin D_2	558
A2090	Vitamin B_{12}	557
A2091	Menadione	291
A2094	Vitamin A acetate	557
A2097	Iodoacetic Acid Sodium Salt BioChemica	252
A2107	1-Bromo-3-Chloropropane BioChemica	82
A2111	Agar Plant tissue culture grade	32
A2112	Agar, Purified Bacteriology grade	32
A2113	Agar Kobe I	32
A2114	Agarose low EEO (Agarose Standard)	33
A2115	Agarose high EEO	33
A2116	Agarose medium EEO	33
A2123	β-Alanine BioChemica	33
A2124	Alcian Blue 8 GS (C.I. 74240)	36
A2126	*p*-Aminobenzamidine Dihydrochloride BioChemica	42
A2128	Ammonia solution 25 % DNA for DNA synthesis	44
A2129	Antipain Dihydrochloride BioChemica	58
A2130	L(-)-Malic Acid BioChemica	284
A2132	Aprotinin BioChemica	60
A2135	Paraffin Oil light for molecular biology	349
A2137	Bestatin Hydrochloride BioChemica	72
A2138	Brefeldin A BioChemica	79
A2139	5-Bromo-2'-Deoxyuridine BioChemica	82
A2140	Cacodylic Acid Sodium Salt 3-hydrate BioChemica	
A2142	Peptone from Casein (acid hydrolysate)	358
A2143	Chloroquine Diphosphate BioChemica	118
A2144	Chymostatin	120
A2145	Cytidine 5'-triphosphoric Acid Disodium Salt 2-hydrate BioChemica	138
A2146	α-Cyclodextrin BioChemica	134
A2147	β-Cyclodextrin BioChemica	134
A2148	γ-Cyclodextrin BioChemica	134
A2150	2'-Deoxyadenosine 1-hydrate BioChemica	143
A2151	2'-Deoxycytidine Hydrochloride BioChemica	143
A2152	2'-Deoxyguanosine 1-hydrate BioChemica	143
A2153	Dexamethason BioChemica	148
A2155	Diethanolamine BioChemica	157
A2156	Formamide deionized for molecular biology	200
A2157	E-64	170
A2159	Salmon sperm DNA sodium salt (sonified)	421
A2160	Salmon sperm DNA Sodium Salt	421
A2161	Ethanolamine BioChemica	186
A2162	FITC BioChemica	195
A2163	Flavin Adenine Dinucleotide Disodium Salt 2-hydrate BioChemica	195
A2164	Fluorescamine BioChemica	196
A2165	Forskolin BioChemica	201
A2166	Fuchsin Acidic Disodium Salt (C.I. 42685)	202
A2167	G418 Disulfate BioChemica	203
A2169	Glyoxal solution 40 % for molecular biology	216
A2170	Gramicidin	217
A2171	Sodium Diethyldithiocarbamate 3-hydrate BioChemica	443
A2175	Hygromycin B solution	244
A2177	Ionomycin Calcium Salt BioChemica	252
A2182	Lecithin from Soybean 30 %	269
A2183	Leupeptin Hemisulfate	270
A2185	Luminol	275
A2187	D(+)-Mannose BioChemica	288
A2188	D(+)-Sucrose for cell culture	510
A2189	Mithramycin A	323
A2190	Mitomycin C	323
A2192	Ethanol 70 % for analysis	185
A2193	Sodium Molybdate 2-hydrate BioChemica	461
A2196	Sodium ortho-Vanadate BioChemica	462
A2198	Neomycin Sulfate BioChemica	331
A2201	Oxaloacetic acid BioChemica	347
A2203	Polyethylene Glycol 400 BioChemica	377
A2204	Polyethylene glycol 8000 BioChemica	378
A2205	Pepstatin A	358
A2206	Peptone from Soybean (enzymatic digest)	358
A2208	Peptone from Casein (enzymatic digest)	358
A2210	Peptone from Casein (pancreatic digest)	358
A2211	D(+)-Sucrose for molecular biology	510
A2212	Phenazine Methosulfate	365
A2218	Lecithin from Soybean 90 %	269
A2219	D(-)-Ribose BioChemica	418
A2220	Rifampicin	418
A2222	D(-)-Sorbitol (Ph. Eur., NF) pure, pharma grade	475
A2223	Starch (from potatoes)	507
A2224	Starch (Smithies)	507
A2225	Sucrose Monolaurate BioChemica	510
A2228	Tetracycline hydrochloride	528
A2229	Thapsigargin	531
A2231	Thiazolyl Blue Tetrazolium Bromide BioChemica	532
A2232	DL-α-Tocopherol *BioChemica*	536
A2233	Tris-(2-carboxyethyl)-phosphine hydrochloride BioChemica	547
A2234	Tris Acetate for buffer solutions	545
A2235	Tryptose	550
A2237	Uridine 5'-Triphosphoric Acid Trisodium Salt hydrate BioChemica	554
A2238	Valinomycin BioChemica	555
A2239	Nonidet® P40 (Substitute) solution 10 % peroxide-free	340
A2240	XTT Sodium Salt BioChemica	562
A2241	D(+)-Xylose BioChemica	564
A2242	Tunicamycin	550
A2243	L-Glutathione oxidized BioChemica	212
A2244	Albumin Fraction V (pH 5.2)	35
A2245	Albumin from chicken egg	35
A2246	Ammonium Molybdate 4-hydrate BioChemica	52
A2247	Creatine Phosphate Disodium Salt 4-hydrate BioChemica	132
A2248	Denhardt's solution (50X) BioChemica	142
A2249	Dextran 40 BioChemica	148
A2250	Dextran Sulfate 500 Sodium Salt BioChemica	148
A2251	N-Ethylmaleimide BioChemica	191
A2252	Ficoll® 400 BioChemica	194
A2253	β-Glycerol Phosphate Disodium Salt 5-hydrate BioChemica	214
A2255	Polyvinyl Alcohol 72000 BioChemica	379
A2257	Polyvinylpolypyrrolidone insoluble BioChemica	380
A2258	Polyvinylpyrrolidone (K15) BioChemica	380
A2259	Polyvinylpyrrolidone (K30) BioChemica	380
A2260	Polyvinylpyrrolidone (K90) for molecular biology	380
A2261	Propidium Iodide BioChemica	409
A2263	SDS for molecular biology	422
A2264	Tris for molecular biology	545

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A2265	2'-Deoxythymidine BioChemica	144
A2266	6-Aminohexanoic Acid BioChemica	43
A2271	Phosphoenolpyruvate Monopotassium Salt BioChemica	371
A2273	Ethidium Bromide solution 0.07 % "dropper-bottle"	187
A2275	Erythromycin base BioChemica	179
A2279	Phenol stabilized : Chloroform : Isoamyl Alcohol 25 : 24 : 1	368
A2329	1-Chlorobutane Protein for protein sequencing	115
A2331	Bromophenol Blue	84
A2338	Dichloromethane DNA synthesis and protein sequencing grade	156
A2357	Ethanol 94 % denatured with ~ 1 % MEK technical grade	184
A2369	Potassium Acetate BioChemica	381
A2476	Xylene - Mixture of isomeres for histology	563
A2481	deconex® 21 CLF	140
A2489	Phenol non-stabilized : Chloroform : Isoamyl Alcohol 25 : 24 : 1 + separate Tris solution	368
A2490	deconex® 15 PF-x	140
A2493	Phenol stabilized : Chloroform : Isoamyl Alcohol 25 : 24 : 1 + separate Tris solution	368
A2520	Picric Acid solution 1.2 % BioChemica	375
A2542	Saponin from Quillaja Bark pure	422
A2549	WST-1 BioChemica	561
A2551	Ethanol 96 % denatured with 1 % MEK technical grade	184
A2554	N-Acetyl-D-Glucosamine BioChemica	25
A2562	Uric Acid BioChemica	554
A2568	Avidin BioChemica	66
A2571	Loading buffer DNA II	274
A2572	SDS BioChemica	423
A2575	TE buffer (1X) pH 8.0	524
A2610	Isoamyl Alcohol for molecular biology	256
A2645	D-Proline	405
A2760	RNase A	419
A2783	Fetuin low Endotoxin	194
A2795	Ethanol 99 % denatured with 1 % MEK technical grade	182
A2832	Sodium Thioglycolate pure	471
A2834	Cholic Acid BioChemica	119
A2835	Deoxycholic Acid BioChemica	143
A2853	Polyethylene Glycol 300 BioChemica	376
A2856	Puromycin Dihydrochloride BioChemica	411
A2867	RNAtidy G	418
A2870	Lidocaine Hydrochloride (Ph. Eur., USP) pure, pharma grade	271
A2871	Penicillin G Sodium Salt	355
A2922	Colistin Sulfate BioChemica	126
A2926	Glycerol anhydrous for molecular biology	213
A2935	Ponceau S solution	381
A2936	Ammonium Acetat for molecular biology	46
A2937	EDTA Disodium Salt 2-hydrate for molecular biology	173
A2938	Phenol extracted with 0.1 M citrate buffer	367
A2939	Potassium Chloride for molecular biology	384
A2940	Boric Acid for molecular biology	78
A2941	Ammonium Persulfate for molecular biology	53
A2942	Sodium Chloride for molecular biology	438
A2943	*di*-Sodium Hydrogen Phosphate anhydrous for molecular biology	446
A2945	*di*-Potassium Hydrogen Phosphate anhydrous for molecular biology	391
A2946	Potassium di-Hydrogen Phosphate for molecular biology	387
A2947	MOPS for molecular biology	325
A2948	DTT for molecular biology	170
A2951	Doxycycline Hyclate BioChemica	169
A2952	Acriflavine Hydrochloride BioChemica	27
A3004	Heparin Sodium Salt	221
A3006	Dimethyl sulfoxide Molecular biology grade	161
A3008	apo-Transferrin, human	539
A3092	Glycerol anhydrous Cell culture grade	213
A3095	Potassium di-Hydrogen Phosphate for cell culture	387
A3099	Polyethylene Glycol 6000 for molecular biology	377
A3101	MES Sodium Salt for buffer solutions	294
A3124	holo-Transferrin, human	539
A3133	Potassium D-Gluconate	386
A3135	RPMI 1640 - Powder Medium	419
A3140	Hanks' balanced salts (HBSS)	219
A3144	Loading buffer DNA I	274
A3145	EDTA solution pH 8.0 (0.5 M)	174
A3166	Glutaraldehyde solution 50 % for electron microscopy	212
A3195	2,3-Dimercapto-1-Propanol solution 20 % in ethanol	160
A3196	D(+)-Cellobiose BioChemica	108
A3198	L-Alanyl-L-Glutamine for cell culture	34
A3199	Schaffer's solution	422
A3215	Malt extract for microbiology	284
A3240	Guanidine Hydrochloride ultrapure	218
A3249	Alginic Acid Sodium Salt BioChemica	37
A3260	Ammonium Chloride for molecular biology	48
A3261	Dextran Sulfate 40 Sodium Salt BioChemica	148
A3268	HEPES for cell culture	222
A3269	D(-)-Salicin for microbiology	421
[illegible]	Phenol liquid non water-saturated, [illegible]n stabilized BioChemica	367
A3288	[illegible]empferol 97 % pure	259
A3351	[illegible]nt Agar	341
A3369	Pla[illegible]nt Agar	375
A3376	SDS [illegible]ne buffer (5X) BioChemica	424
A3378	5,5'-Dithio-bis(2-Nitrobenzoic Acid) BioChemica	166
A3388	Apigenin for HPLC	58
A3392	Harpagoside for HPLC	220
A3394	Vitexin for HPLC	558
A3395	Catalpol for HPLC	106
A3401	L-Tyrosine for cell culture	552
A3406	L-Valine Cell culture grade	555
A3408	[6]-Gingerol for HPLC	207
A3409	*Blocking* Reagent CA	77
A3410	L-Tryptophan Cell culture grade	549
A3415	Quercetin for HPLC	414
A3417	CheLuminate-HRP PicoDetect	112
A3418	DNA Isolation reagent for genomic DNA	167
A3419	Azadirachtin	66
A3424	Luteolin for HPLC	276
A3437	L-Tyrosine BioChemica	552
A3442	L-Phenylalanine BioChemica	370
A3445	L-Tryptophan BioChemica	549
A3448	L-Lysine 1-hydrate for cell culture	276
A3450	L-Ornithine Hydrochloride BioChemica	345
A3452	Tris Hydrochloride for molecular biology	546
A3453	L-Proline BioChemica	405
A3457	N-Lauroylsarcosinate solution 30 % pure	267
A3459	Protease from Streptomyces griseus	410
A3460	L-Leucine BioChemica	270
A3465	2-Propanol BioChemica	408
A3466	L-Lysine 1-hydrate BioChemica	276
A3470	DNA Ladder 100 bp (lyophilised)	175
A3477	Agar for molecular biology	32
A3478	Lithium Acetate 2-hydrate for analysis	272
A3480	Coomassie® Brilliant Blue G-250 (C.I. 42655)	128
A3481	Loading buffer DNA IV (for Agarose gels)	274
A3485	Ammonium Sulfate for molecular biology	54
A3488	Ruthenium Red	420
A3492	Hexamminecobalt(III) Chloride for molecular biology	225
A3493	Methanol BioChemica	296
A3494	Immersion Oil BioChemica	246
A3495	PIPES for molecular biology	375
A3496	L-Leucine Cell culture grade	270
A3545	deconex® 25 ORGANACID	141
A3547	deconex® 11 UNIVERSAL	140
A3555	deconex® 26 MINERALACID	141
A3565	deconex® 22 LIQ	140
A3591	deconex® 22 PF	141
A3615	Peroxidase from horseradish EIA and Immunology Grade I	360
A3626	Acrylamide solution (30 %) - Mix 37.5 : 1 for molecular biology	28
A3632	Acrylamide solution (40 %) for molecular biology	28
A3635	Imidazole ultrapure	245
A3636	Bisacrylamide for molecular biology	75
A3640	Bromophenol Blue Sodium Salt for electrophoresis	84
A3642	L-Isoleucine for cell culture	256
A3648	Citric Acid 1-hydrate BioChemica	123
A3652	Calcium Chloride dried, powdered BioChemica	98
A3653	L-Arginine base Cell culture grade	63
A3655	Immersion Oil, fluorescence-free 'dropper-bottle'	246
A3657	Bisacrylamide solution (2 %) for molecular biology	75
A3658	Acrylamide solution (40 %) - Mix 19 : 1 for molecular biology	28
A3660	DNA Ladder Mix 100-5000 (lyophilised)	176
A3661	Ammonium Chloride BioChemica	48
A3665	L-Cysteine Hydrochloride 1-hydrate for cell culture	137
A3666	D(+)-Glucose anhydrous for molecular biology	210
A3668	DTT solution (1 M) for molecular biology	170
A3669	L-Asparagine 1-hydrate for cell culture	64
A3670	Calcium Lactate 5-hydrate BioChemica	101
A3671	L-Cystine Cell culture grade	137
A3672	Dimethyl sulfoxide Cell culture grade	161
A3674	Ammonium Acetate BioChemica	46
A3675	L-Arginine base BioChemica	63
A3676	N,N-Dimethylformamide for molecular biology	163
A3678	Ethanol absolute for molecular biology	181
A3680	L-Arginine Hydrochloride for cell culture	63
A3682	Ethylene Glycol BioChemica	189
A3684	Formaldehyde solution 10 % phosphate buffered for histology	199
A3686	Acetic Acid 100 % for molecular biology	19
A3688	D(-)-Fructose BioChemica	202
A3690	L-Alanine BioChemica	34
A3691	Chloroform BioChemica	116
A3693	Ethanol absolute BioChemica	181
A3694	L-Cysteine BioChemica	137
A3697	Formaldehyde solution 4 % phosphate buffered for histology	199
A3698	L-Cysteine Hydrochloride 1-hydrate BioChemica	137
A3701	Acetic Acid 100 % BioChemica	19
A3704	L-Glutamine for cell culture	211
A3707	Glycine BioChemica	215
A3709	L-Arginine Hydrochloride BioChemica	63
A3711	Lysozyme BioChemica	277
A3712	L-Glutamic Acid BioChemica	211
A3713	L-Lysine Monohydrochloride for cell culture	277
A3715	L-Aspartic Acid BioChemica	65
A3719	L-Histidine base for cell culture	228
A3721	L-Asparagine 1-hydrate BioChemica	64
A3723	L-Glutamic Acid for cell culture	211
A3724	HEPES for molecular biology	222
A3730	D(+)-Glucose 1-hydrate for molecular biology	210
A3732	Yeast extract for molecular biology	564
A3733	L-Histidine Hydrochloride 1-hydrate BioChemica	228
A3734	L-Glutamine BioChemica	211
A3735	L-Lysine Monohydrochloride BioChemica	277
A3738	L-Histidine base BioChemica	228
A3739	Glycerol 87 % for molecular biology	214
A3741	Glycine for cell culture	215
A3742	L-Hydroxyproline for cell culture	243
A3744	PCR Mycoplasma Test Kit	328
A3750	MacConkey-Agar	277
A3751	Mueller-Hinton Broth	326
A3753	Acetyl-Coenzym A Trilithium Salt BioChemica	24
A3754	Acetylthiocholine Iodide BioChemica	25
A3761	S-(5'-Adenosyl)-L-Methionine Iodide BioChemica	31
A3762	Agarose Low Melt Large DNA grade	33
A3769	Sodium Diatrizoate 2-hydrate for cell culture	442
A3770	N-α-Benzoyl-L-Arginine Ethyl Ester Hydrochloride (BAEE) BioChemica	71
A3771	Peroxidase from horseradish EIA and Immunology Grade II	360
A3773	Bleomycin Sulfate BioChemica	77
A3777	Butylhydroxytoluene	95
A3778	DNase I	168
A3779	Calcium Chloride 1 mol/l (1 M) BioChemica	99
A3780	Canavanine Sulfate BioChemica	103
A3784	Blasticidin S Hydrochloride BioChemica	76
A3785	Chlorhexidine Diacetate 1-hydrate BioChemica	113
A3789	Glucose-6-Phosphate Disodium Salt 2-hydrate	210
A3790	Isoacteosid for HPLC	255
A3791	Peroxidase from horseradish Practical Grade I	360
A3792	Denhardt's powder mixture (for 50X stock solution) BioChemica	142
A3797	3-Methacryloxypropyl trimethoxysilane	294
A3798	Methotrexate BioChemica	297
A3799	1-Methoxy-5-Methylphenazine Methosulfate BioChemica	297
A3802	Sodium Acetate solution 3 mol/l (3 M, pH 5.2)	434
A3806	Sodium meta-Periodate for analysis	460
A3810	Phosphatase, alkaline from calf intestine (CIP) Grade II	371
A3811	Nystatin 2-hydrate BioChemica	341
A3812	Acrylamide for molecular biology	27
A3813	Paraformaldehyde BioChemica	350
A3824	Papain	348
A3826	1,10-Phenanthroline 1-hydrate	365
A3830	Proteinase K	410
A3831	Pyridoxal 5'-Phosphate BioChemica	412
A3832	RNase A (DNase-free)	419
A3834	Spectinomycin Dihydrochloride 5-hydrate BioChemica	475
A3837	TE buffer (1X) pH 7.5	524
A3838	Tetraethylammonium Chloride	528
A3840	3,3',5,5'-Tetramethylbenzidine BioChemica	530
A3842	Toluidine Blue O (C.I. 52040)	538
A3843	TPE buffer (10X)	538
A3844	Trichloroacetic Acid solution 10 % BioChemica	540
A3845	Triethylamine BioChemica	543
A3846	Triethylammonium acetate buffer pH 7.0 (1 M)	544
A3848	Triton® X-114 BioChemica	548
A3855	Acetone BioChemica	22
A3858	Formic Acid 98-100 % BioChemica	200
A3865	Hematoxylin (C.I. 75290) for microscopy	221
A3871	Potassium Hydroxide - Pellets BioChemica	394
A3872	Potassium Iodide BioChemica	398
A3874	Potassium Nitrate BioChemica	399
A3877	Potassium Sulfate BioChemica	403
A3880	Copper(II) Sulfate 5-hydrate BioChemica	131
A3881	Potassium L-Glutamate 1-hydrate BioChemica	399
A3883	Potassium Hexacyanoferrate(III) BioChemica	390
A3888	Magnesium Chloride 1 mol/l (1 M)	279
A3891	D(+)-Maltose 1-hydrate BioChemica	285
A3897	L-Methionine Cell culture grade	296
A3900	Sodium Carbonate anhydrous BioChemica	436
A3901	tri-Sodium Citrate 2-hydrate BioChemica	440
A3902	Sodium di-Hydrogen Phosphate 2-hydrate BioChemica	442
A3904	Sodium Fluoride BioChemica	444
A3905	*di*-Sodium Hydrogen Phosphate 2-hydrate BioChemica	446
A3906	*di*-Sodium Hydrogen Phosphate 12-hydrate BioChemica	447
A3907	Phosphatase, alkaline from calf intestine (CIP) Grade I	371
A3910	Sodium Hydroxide pellets BioChemica	448
A3912	Sodium Pyruvate BioChemica	466
A3917	Nickel(II) Chloride 6-hydrate BioChemica	332
A3926	L-Proline for cell culture	405
A3928	2-Propanol for molecular biology	408
A3930	Rhodamine B (C.I. 45170)	417

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Code	Description	Page
A3931	Ribonucleic Acid from yeast	418
A3932	Pyrogallol Red	413
A3935	D(+)-Sucrose BioChemica	510
A3942	SDS solution 20 % pure	423
A3943	L-Serine for cell culture	425
A3944	Silver Nitrate for molecular biology	429
A3945	TBE buffer (10X) for molecular biology	523
A3946	L-Threonine for cell culture	534
A3947	Sodium Acetate solution 3 mol/l (3 M, pH 5,2) for molecular biology	434
A3950	SDS solution 10 % pure	423
A3954	Tricine for molecular biology	542
A3955	Endo Agar Base	177
A3964	Trypsin from bovine pancreas	548
A3969	L-Threonine BioChemica	534
A3972	Silver Nitrate BioChemica	429
A3975	Chymotrypsinogen A	121
A3981	Tris buffer pH 7.4 (1 M) for molecular biology	546
A3992	Bis-Tris for molecular biology	75
A3993	Protein Marker IV (10-150)	176
A4011	CHAPS for molecular biology	110
A4042	Water bidistilled, sterile	559
A4043	Paraffin Oil heavy white oil	349
A4051	TRItidy G™	167
A4065	DL-α-Lipoic Acid BioChemica	271
A4073	D(+)-Galactose for cell culture	204
A4082	Colchicine BioChemica	126
A4099	DAPI for molecular biology	139
A4101	Magnesium Sulfate 7-hydrate BioChemica	283
A4147	Dodecyltrimethylammonium Bromide BioChemica	169
A4148	Trypsin 1 : 250 from porcine pancreas	548
A4149	Water for cell culture	559
A4150	CTAB - Lysis buffer BioChemica	133
A4181	Kristenson's solution	263
A4207	N-Acetyl-L-Cysteine BioChemica	25
A4220	EDTA dipotassium salt 2-hydrate BioChemica	172
A4227	TAE buffer (10X) for molecular biology	521
A4228	TBE buffer (5X) for molecular biology	523
A4229	Sodium di-Hydrogen Phosphate 1-hydrate for molecular biology	441
A4230	Ethanol absolute (Ph. Eur., USP) pure, pharma grade	181
A4233	Phenol Red Sodium Salt	368
A4240	Rubidium Chloride BioChemica	420
A4256	Sodium Chloride for cell culture	438
A4263	Tris buffer pH 7.5 (1 M) for molecular biology	546
A4272	Streptozotocin	508
A4274	Neocuproine Hydrochloride 1-hydrate BioChemica	331
A4278	Wright's Eosin-Methylene Blue solution	561
A4279	Potassium Acetate for molecular biology	381
A4289	Pepsin	357
A4291	Cochenille Red (C.I. 16255)	125
A4298	MES anhydrous for molecular biology	293
A4305	β-Sitosterol	432
A4325	(+)-Catechin HPLC grade	107
A4335	Guanidine Thiocyanate BioChemica	218
A4336	L(+)-Rhamnose 1-hydrate BioChemica	417
A4337	Adonitol BioChemica	31
A4338	β-Mercaptoethanol BioChemica	291
A4341	Levamisole Hydrochloride	270
A4344	Albumin crude from chicken egg	36
A4347	Demecolcine BioChemica	142
A4348	TBE buffer (10X) powder	523
A4360	Deoxynivalenol BioChemica	144
A4361	Doxorubicin Hydrochloride BioChemica	169
A4365	L(-)-Fucose BioChemica	202
A4378	Xylitol (Ph. Eur.) pure, pharma grade	564
A4379	Dulcitol BioChemica	170
A4388	Evan's Blue (C.I. 23860)	192
A4392	Proteinase K solution	411
A4394	TBE buffer (5X) powder	523
A4402	Protein Marker III (6.5-200)	176
A4425	Magnesium Chloride 6-hydrate for molecular biology	279
A4439	Rose Bengal (C.I. 45440)	419
A4450	Sulfobromophthalein Disodium Salt hydrat	512
A4454	Naphthol AS-D Chloroacetate BioChemica	330
A4506	SSC buffer (20X) Powder for molecular biology	476
A4509	[8]-Gingerol for HPLC	207
A4510	Luteolin-7-Glucoside for HPLC	276
A4517	MOPS Hemisodium Salt for buffer solutions	325
A4518	Saponin from Quillaja Bark (DAB) pure, pharma grade	421
A4522	*tri*-Sodium Citrate 2-hydrate for molecular biology	440
A4531	α-Chymotrypsin from bovine pancreas Grade I	121
A4532	Trypsinogen	549
A4555	Sodium Acetate anhydrous for molecular biology	433
A4556	Ciprofloxacin Hydrochloride (Ph. Eur.) pure, pharma grade	121
A4[illegible]	DL-α-Glycerol Phosphate Magnesium Salt Hydrate pure	214
A4577	[illegible]er pH 8.0 (1 M) for molecular biology	546
A4586	Gibberellic Acid BioChemica	206
A4589	Ciproflox[illegible] BioChemica	121
A4592	HEPES Sod[illegible]t for molecular biology	222
A4632	AppliClear (Xyl[illegible]stitute)	59
A4653	Thiamine Pyrophosphate	531
A4667	Taxol BioChemica	522
A4670	Thiobarbituric Acid BioChemica	532
A4680	L-Pyroglutamic Acid β-Naphthylamide	414
A4686	TAE buffer (50X) for molecular biology	520
A4689	Calcium Chloride 2-hydrate for molecular biology	98
A4716	Ammonium Acetate solution (5 M) for molecular biology	46
A4718	Mupirocin (USP) pure, pharma grade	326
A4730	MES 1-hydrate for molecular biology	294
A4732	*di*-Sodium Hydrogen Phosphate 2-hydrate for molecular biology	446
A4738	L-Aspartic Acid Magnesium Salt (Ph. Eur.) pure, pharma grade	65
A4756	Guanidine Thiocyanate pure	218
A4773	IPTG for molecular biology	253
A4778	Linoleic Acid for cell culture	271
A4781	Citrate buffer solution (1 M, pH 4.0)	121
A4789	Kanamycin Sulfate (Ph. Eur., BP) pure, pharma grade	260
A4802	Cefotaxime Sodium Salt BioChemica	107
A4804	Maltodextrin white pure	285
A4816	Orange-Serum Agar	344
A4827	Xylene - Mixture of isomeres (Ph. Helv.) pure, pharma grade	563
A4831	D(-)-Mannitol low endotoxin, (Ph. Eur., BP, USP, JP) pure, pharma grade	288
A4840	Mayer's Hematoxylin solution	289
A4854	Gentamycin Sulfate (Ph. Eur.) pure, pharma grade	206
A4859	Sodium Pyruvate for cell culture	466
A4867	Thionicotinamide	533
A4881	Starch, cold-soluble	507
A4887	Histamine Dihydrochloride BioChemica	228
A4892	EDTA solution pH 8.0 (0.5 M) for molecular biology	174
A4907	Kinetin BioChemica	261
A4930	Ethanol 99 % denatured with 1 % MEK for analysis	182
A4968	Bromophenol Blue Sodium Salt for molecular biology	84
A4969	Ficoll® 400 for molecular biology	194
A4970	Dextran Sulfate 500 Sodium Salt for molecular biology	148
A4972	Lysozyme for molecular biology	277
A4974	Tween® 20 for molecular biology	551
A4975	Triton® X-100 Molecular Biology grade	547
A4976	Xylene Cyanol FF (C.I. 42135) for molecular biology	563
A4978	X-Gal for molecular biology	561
A4983	Acrylamide solution (30 %) - Mix 29 : 1 for molecular biology	27
A4987	Tris buffer pH 6.8 (1 M)	546
A4989	Acrylamide solution (40 %) - Mix 37.5 : 1 for molecular biology	29
A4992	D(-)-Sorbitol for molecular biology	475
A5001	TBS (Tris-buffered saline) (20X) - Powder	523
A5007	Ethanol 99 % denatured with 1 % MEK pure	182
A5023	Ethanol 80 % denatured with ~ 1 % MEK technical grade	185
A5025	D-Arabinose BioChemica	63
A5030	N-α-Benzoyl-DL-Arginine p-Nitroanilide Hydrochloride BioChemica	71
A5076	Magnesium Chloride 25 mmol/l (25 mM) for molecular biology	279
A5084	Folin-Ciocalteu's Reagent	197
A5097	EDTA for molecular biology	171
A5175	Iron(III) Citrate Hydrate for cell culture	255
A5176	Terminator Removal Kit	167
A5186	*Taq* DNA Polymerase	378
A5187	DNA Phage Lambda	167
A5189	Total RNA Mini SI Isolation Spin-Kit	418
A5191	DNA Ladder 100 bp	175
A5193	DNA Isolation Spin-Kit Agarose	167
A5194	DNA Marker Phage Lambda - Sty I	176
A5204	First Strand cDNA Synthesis-Kit for RT-PCR	195
A5205	Exonuclease III	192
A5207	DNA Ladder 1 kb	175
A5211	M-MuLV Reverse Transcriptase, RNase H minus	417
A5216	DNA Ladder 100 bp plus	175
A5219	Incuwater-Clean™	246
A5222	Myco-1	327
A5227	Biotin-11-dUTP	74
A5230	Incubator-Clean™	246
A5231	*SuperHot Taq* DNA Polymerase	378
A5233	Myco-2	327
A5234	Uracil-DNA Glycosylase (UDG)	553
A5237	Reprobe Nitrocellulose supported 0.22 µm Transfer Membrane	338
A5238	Protein Marker I (14-116)	176
A5239	Pure Nitrocellulose unsupported 0.45 µm Transfer Membrane	338
A5240	Myco-3	327
A5242	Reprobe Nitrocellulose supported 0.45 µm Transfer Membrane	338
A5243	PVDF-Star Transfer Membrane 0.45 µm	412
A5250	Pure Nitrocellulose unsupported 0.22 µm Transfer Membrane	338
A5257	Oxytetracycline Hydrochloride	347
A5262	3-Acetyl-11-keto-β-Boswellic Acid for HPLC	24
A5263	Actein for HPLC	29
A5265	Acteoside for HPLC	29
A5273	27-Deoxyactein for HPLC	143
A5300	Glucotropaeolin for HPLC	10
A5303	Hydroxytyrosol for HPLC	[illegible]
A5305	Isovitexin for HPLC	[illegible]
A5309	Oleuropein for HPLC	344
A5311	Lycopin for HPLC	276
A5315	Sinigrin 1-hydrate for HPLC	432
A5316	Sinigrin 1-hydrate pure	432
A5324	Magnesium Chloride solution (100 mM) for molecular biology	279
A5336	Polyethylene Glycol 600 BioChemica	377
A5345	Gellan Gum	205
A5347	Hygromycin B	244
A5350	8-Anilinonaphthalene-1-Sulfonic Acid Ammonium Salt BioChemica	57
A5355	Histamine Dihydrochloride (Ph. Eur.) pure, pharma grade	228
A5418	Protein Marker II (6.5-200) prestained	176
A5422	Polyvinylpyrrolidone (K90) (Ph. Eur.) pure, pharma grade	380
A5434	*Taq* DNA Polymerase DNA-free	379
A5456	Tetramethylammonium Chloride solution (6 M) for molecular biology	530
A5564	Erioglaucine (C.I.42090)	80
A5567	MEM with Hanks' salts	291
A5626	Nutrient Agar, DEV	341
A5655	Brain Heart Infusion Agar	79
A5731	Drigalski Lactose Agar	169
A5758	Kanamycin Esculin Azide Agar	260
A5789	Malt Extract Agar for microbiology	284
A5802	MRS Agar Base	326
A5814	Ectoine	171
A5838	Potato Dextrose Agar	404
A5841	Pepton Water, Buffered	358
A5889	Tryptone Soya Agar	549
A5890	*n*-Dodecyl-β-D-Glucopyranoside BioChemica	168
A5895	Tryptone Soya Broth	549
A5920	XLD Agar	562
A6246	Tetrazolium Red	531
A6248	Iodonitrotetrazolium Chloride BioChemica	252
A6279	Riboflavin (Ph. Eur., USP) pure, pharma grade	418
A6284	Cetyltrimethylammonium Bromide for molecular biology	109
A6285	Zinc Chloride for molecular biology	567
A6286	Lithium Chloride for molecular biology	273
A6287	Magnesium Sulfate 7-hydrate for molecular biology	283
A6338	Vancomycin Hydrochloride (Ph. Eur.) pure, pharma grade	555
A6352	Ampicillin Sodium Salt (Ph. Eur.) pure, pharma grade	55
A6361	Dimidium Bromide BioChemica	163
A6414	Magnesium Sulfate 7-hydrate for cell culture	283
A6415	3-Aminobenzoic Acid Ethyl Ester Methanesulfonate BioChemica	43
A6485	CrossDown Buffer	132
A6554	TE buffer (100X) pH 7.5	524
A6560	Fusidic Acid Sodium Salt BioChemica	203
A6578	Hydrochloric Acid 1 mol/l (1 M) for molecular biology	236
A6579	Sodium Hydroxide solution (1 M) for molecular biology	454
A6586	Immersion Oil from cedarwood	246
A6588	Albumin Fraction V (pH 7.0) for Western blotting	35
A6592	Field's stain A	194
A6611	Albumin, human	36
A6656	DMEM (Dulbecco's mod. Eagle - Medium)	166
A6666	LB-Medium - Powder according to Lennox	267
A6744	Apigenin-7-Glucoside pure	58
A6747	Caftaric Acid for HPLC	96
A6748	Casticin for HPLC	106
A6764	Rutin for HPLC	420
A6769	*n*-Decyl-β-D-Maltoside for crystallography	141
A6783	Supplement for Baird-Parker Agar Base	520
A6798	G418 Disulfate solution, sterile	203
A6799	Cholesterol synthetic	119
A6814	*n*-Nonyl-β-D-Maltoside BioChemica	340
A6817	*n*-Dodecyl-β-D-Maltoside for crystallography	168
A6823	α-D-Galactose-1-Phosphate Dipotassium Salt 2-hydrate BioChemica	204
A6829	Sodium Hydroxide pellets for molecular biology	448
A6834	Benzethonium Chloride BioChemica	70
A6872	D(+)-Glucosamine Hydrochloride BioChemica	209
A6882	D(+)-Raffinose 5-hydrate BioChemica	415
A6904	Agnusid HPLC grade	33
A6906	HEPES buffer pH 8.0 (1 M) sterile	222
A6909	Oleuropein pure	344
A6912	(-)-Epigallocatechin Gallate pure	178
A6916	HEPES buffer pH 7.5 (1 M) sterile	222
A6932	Bradford - Solution for Protein Determination	79
A6935	α-Fetoprotein (AFP), human	194
A6939	C-reactive Protein (CRP), human	95
A6940	Carcinoembryonic Antigen (CEA), human	105
A6947	Retinoic Acid (Ph. Eur.) pure, pharma grade	417
A6948	α-Amylase from Saliva, human	56
A6949	α-Amylase from pancreas, human	56
A6959	Elastase, neutrophil Grade 2, human	175
A6961	Lipoprotein, low density (LDL), human	272
A6965	Lipoprotein, high density (HDL), human	271

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Code	Description	Page
A6972	Myoglobin, human	328
A6973	Pepsinogen I, human	357
A6980	Pepsinogen II, human	357
A6998	Penicillin G Potassium Salt (Ph. Eur.) pure, pharma grade	355
A7000	Penicillin G Sodium Salt (Ph. Eur.) pure, pharma grade	355
A7002	Neomycin Sulfate (Ph. Eur.) pure, pharma grade	331
A7004	AppliClear-Water	59
A7006	Sodium Chloride 5 mol/l (5 M) for molecular biology	439
A7009	Amphotericin B (Ph. Eur.) pure, pharma grade	55
A7039	D-Cycloserine (USP) pure, pharma grade	136
A7080	Spermine Tetrahydrochloride BioChemica	476
A7087	β-D-Gentiobiose	206
A7089	DNA-ExitusPlus™	168
A7099	Blocking Buffer I	77
A7140	Stripping Buffer I	509
A7148	Antibody Stabilizer-PBS	58
A7153	RNase-ExitusPlus™	419
A7211	IPTG from plant origin galactose	253
A7213	D-Pantothenic Acid Calcium Salt (Ph. Eur., USP) pure, pharma grade	348
A7241	Quercetin pure	414
A7248	Dimethyl Sulfoxide, sterile filtered (ampules)	161
A7249	SDS grained pure	423
A7252	Blocking Buffer III BSA	77
A7398	Water for molecular biology	559
A7402	N-Lauroylsarcosine Sodium Salt for molecular biology	266
A7405	Osmium(VIII) Oxide for microscopy	345
A7409	DNA-ExitusPlus™ IF	168
A7451	N-Acetyl-D-Galactosamine	25
A7457	α-Chymotrypsin (USP) pure, pharma grade	120
A7459	LB-Agar - Powder according to Lennox	267
A7492	Ampicillin 3-hdrate for molecular biology	55
A7495	Chloramphenicol for molecular biology	113
A7600	Autoclave-ExitusPlus™	65
A7615	Phenol Red for cell culture	368
A7626	Staurosporine BioChemica	508
A7630	Citrinin BioChemica	123
A7633	(+)-Aphidicolin BioChemica	58
A7639	DNA Cot-I, human	167
A7641	Cytochalasin D BioChemica	138
A7650	Anisomycin BioChemica	57
A7657	Cytochalasin B BioChemica	138
A7663	Rapamycin BioChemica	415
A7665	Gliotoxin BioChemica	208
A7671	Nigericin Sodium Salt BioChemica	334
A7674	Cytochrom C from porcine heart BioChemica	138
A7682	Apramycin Sulfate BioChemica	60
A7685	6-Benzylaminopurine BioChemica	72
A7686	5-Fluorouracil BioChemica	197
A7690	Ochratoxin A BioChemica	342
A7706	Protease Inhibitor Cocktail 1 Cell	410
A7708	AppliCoat Plate Stabilizer	59
A7715	D(+)-Melibiose 1-hydrate BioChemica	290
A7722	Fumonisin B1 BioChemica	203
A7729	Hypoxanthine Sodium Salt BioChemica	245
A7732	PCR-InfectoDetect Mix DNA-free, all inclusive	354
A7735	Protease Inhibitor Cocktail 3 Bacteria	410
A7779	Protease Inhibitor Cocktail 5 MammCell/Tissue	410
A7782	Maltotriose BioChemica	285
A7786	CheLuminate-HRP PicoDetect Extended	112
A7787	Bicinchoninic Acid Protein Assay	73
A7789	Parthenolide BioChemica	351
A7802	Protease Inhibitor Cocktail 6 His-Tag Prot	410
A7807	CheLuminate-HRP FemtoDetect	111
A7812	Trichostatin A BioChemica	542
A7819	GMBS	216
A7822	Disuccinimidyl Glutarate BioChemica	166
A7823	Bafilomycin A1 BioChemica	67
A7834	D-Mandelate Dehydrogenase, bacterial technical grade	286
A7836	Biotinamidohexanoic Acid N-Hydroxysuccinimide Ester	74
A7845	Bicinchoninic Acid Protein Assay Micro	73
A7850	7-Aminoactinomycin D BioChemica	42
A7865	Sulfo-EGS	512
A7867	9-Biotinylamino-4,7-Dioxanonanoic Acid N-Hydroxysuccinimidyl Ester	74
A7875	Xanthohumol for HPLC	562
A7879	CheLuminate-HRP FemtoDetect Plus	111
A7888	Kuromanin Chloride for HPLC	263
A7910	Patulin BioChemica	351
A7920	Sulfo-SMCC	512
A7924	Umckalin for HPLC	552
A7932	Proteinase K, recombinant	411
A7949	Zearalenone BioChemica	565
A7951	α-Solanine for HPLC	474
[illegible]	BS³	85
[illegible]	(+)-Galactose BioChemica, [illegible]n animal origin	204
A8020	[illegible]ar Fast Red (C.I. 60760) [illegible]copy	341
A8031	CheLuminate-HRP ELISA FemtoDetect Plus	111
A8055	CheLuminate-HRP ELISA FemtoDetect	111
A8073	N,N,N',N'-Tetramethyl-p-Phenylenediamine Dihydrochloride BioChemica	530
A8075	Ethanol absolute for molecular biology (untaxed)	182
A8088	Cell Proliferation Kit XTT	107
A8093	Pyridoxine Hydrochloride (Ph. Eur., USP) pure, pharma grade	413
A8112	Rakoff staining solution for microscopy	415
A8113	Urea crystalline Molecular biology grade	553
A8174	N-Acetyl-L-Cysteine BioChemica (non animal origin)	25
A8175	Lactose peptone broth, DEV	265
A8187	Patent Blue V Calcium salt (C.I. 42051)	351
A8194	Violet Red Bile Glucose Agar (Ph. Eur.), pharma grade	557
A8211	rHu Insulin	249
A8327	rHu EGF	175
A8335	rHu GDNF	205
A8336	AC-Trypsin solution for cell culture	548
A8350	Fibronectin solution for cell culture	194
A8360	Myco-1 & 2 Set	327
A8366	Myco-4	327
A8368	DNA Ladder 50 bp	175
A8369	Random Primer Hexamer	415
A8377	Leibovitz's L15 - Medium w/o L-Glutamine	270
A8454	Vitamin B_{12} (Ph. Eur.) pure, pharma grade	557
A8507	AppliXchange-G25 M	59
A8510	Water PCR tested, DNA free, for molecular biology,	559
A8511	SYBR Green® staining reagent, DNA free	520
A8514	qPCR Kit, DNA-free	353
A8563	DextraSEC Mini-spinNA Desalt (G-50)	150
A8566	DextraSEC Mini-spinPRO PBS (G-25)	150
A8569	TE buffer (1X) pH 8.0 low EDTA for molecular biology	524
A8574	Tributyrin BioChemica	539
A8587	SeparateIT Polymer solution	425
A8590	DextraSEC NA2	151
A8595	DextraSEC 96W	149
A8671	Thiostrepton BioChemica	533
A8674	Cyanidin Chloride for HPLC	133
A8676	Delphinidin-3-Galactoside Chloride for HPLC	142
A8688	Delphinidin-3-Glucoside Chloride for HPLC	142
A8692	Glucobrassicin for HPLC	208
A8694	Amikacin Sulfate BioChemica	41
A8695	Gluconasturtiin for HPLC	209
A8704	Malvinchloride for HPLC	285
A8710	DextraSEC PRO2	151
A8720	Malvidin Chloride for HPLC	285
A8723	Pectolinarigenin for HPLC	354
A8731	Oenin Chloride pure	343
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A8907	Englerin A	177
A8943	Penicillin - Streptomycin (100X) for cell culture	355
A8963	Agarose Basic	33
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A8994	PCR Mycoplasma Test Kit II	328
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A9011	Mowiol® 4-88 for histology	326
A9019	qPCR Mycoplasma Test Kit	353
A9027	AppliFect LowTox	59
A9031	TE buffer (1X) pH 7.4 for molecular biology	524
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A9162	PBS tablets pH 7.4 (for 100 ml)	352
A9166	PBS tablets pH 7.4 (w/o potassium, for 1 L)	352
A9177	PBS tablets pH 7.4 (for 200 ml)	352
A9191	PBS tablets pH 7.4 (for 500 ml)	352
A9201	PBS tablets pH 7.4 (for 1 L)	352
A9202	PBS tablets pH 7.2 (for 1 L)	352
A9210	Medium 199 with Earle's Salts	289
A9292	AppliXchange-G50 SF	60
A9368	Colorada 550 Antibody Labeling Kit	127
A9384	AppliXchange-G25 F	59
A9390	Aquabator-Clean™ (100X)	61
A9401	AppliXchange-G50 F	60
A9404	Colorada 645 Antibody Labeling Kit	127
A9407	Yohimbin Hydrochloride (Ph. Eur.) pure, pharma grade	565
A9411	ExitusPlus™ Activity Test	192
A9415	AppliXchange-G50 M	60
A9425	AppliXchange-G25 SF	60
A9426	Colorada 490 DIGE Labeling Kit	127
A9433	Thesit (Ph. Eur.) pure, pharma grade	531
A9447	Colorada 550 DIGE Labeling Kit	127
A9498	Colorada 645 DIGE Labeling Kit	127
A9516	L-Carnosine BioChemica	105
A9517	Colorada 678 Antibody Labeling K[illegible]	127
A9535	Gold ABConjugation Kit	216
A9540	Urobilinogen (powder)	5[illegible]
A9541	3-Acetyl-9-11-dehydro-β-Boswellic Acid for HPLC	2[illegible]
A9543	Amarogentin for HPLC	40
A9544	α-Chaconine for HPLC	110
A9545	Sennosid A1 for HPLC	425
A9546	Acrylamide 4K solution (40 %) - Mix 49 : 1 for SSCP	29
A9549	Chlorogenic Acid for HPLC	118
A9553	Cucurbitacin I for HPLC	133
A9555	DNA-Dye NonTox	167
A9556	Cyanidin-3-Arabinoside Chloride for HPLC	133
A9557	Pelargonidin-3,5-Diglucoside Chloride for HPLC	354
A9558	Sutherlandioside for HPLC	520
A9560	Cyanidin-3-Glucoside Chloride for HPLC	134
A9563	Delphinidin Chloride for HPLC	141
A9564	β-Elemonic Acid for HPLC	176
A9568	Eupatorin for HPLC	191
A9569	Sinalbin Potassium Salt for HPLC	432
A9571	Europin Hydrochloride for HPLC	191
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A9576	Peonidin-3-Glucoside Chloride for HPLC	357
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A9582	Glucoraphanin for HPLC	209
A9583	Heliotrine for HPLC	220
A9584	ε-Viniferin for HPLC	557
A9590	Heliotrine-N-Oxide for HPLC	221
A9591	Petunidin-3-Glucoside Chloride for HPLC	364
A9592	Hyperforin / Adhyperforin - Dicyclohexylammonium Salt (4 :1) for HPLC	244
A9593	Indicine-N-Oxide for HPLC	248
A9595	DextraSEC 384W	148
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A9600	Lasiocarpine-N-Oxide for HPLC	266
A9605	William's Medium E	561
A9609	Tryptose-Phosphat-Broth	550
A9610	William's Medium E w/o L-Glutamine	561
A9611	Medium 199 with Earle's Salts	289
A9612	α-MEM	290
A9641	(-)-Maackiain for HPLC	277
A9644	Morindin for HPLC	325
A9647	Pelargonidin Chloride for HPLC	354
A9650	Pelargonidin-3-Glucoside Chloride for HPLC	354
A9676	Decontamination Bags	141
A9686	D(+)-Trehalose 2-hydrate endotoxin free	539
A9692	DextraSEC Mini-spinPRO TRIS (G-25)	151
A9700	DextraSEC Mini-spinNA Desalt (G-25)	149
A9708	DextraSEC Mini-spinPRO Desalt (G-25), stabilized	150
A9715	DextraSEC PRO5	152
A9719	DextraSEC 8-Strips Spin	149
A9724	DextraSEC Mini-spinPRO Desalt (G-25)	150
A9727	Polyanetholesulphonic Acid Sodium Salt BioChemica	376
A9728	L(+)-Arabinose BioChemica	63
A9729	Indoxyl-β-D-Glucoside anhydrous BioChemica	248
A9731	Yeast Nitrogen Base w/o Amino acids with Ammonium Sulfate (Microbiological grade)	565
A9732	QuickGel PCR Master Mix	353
A9733	DextraSEC PRO25	152
A9734	*Taq* PCR Master Mix	353
A9735	Nickel NTA Agarose Suspension	332
A9736	Deoxyribonucleotide Set (4 x 10 mM)	144
A9737	SuperHot*Taq* PCR Master Mix	353
A9741	DextraSEC Mini-spinPRO TRIS (G-50)	151
A9742	PCR Cycler Validation Kit	353
A9749	DextraSEP FPLC5	149
A9750	PCRDirect DNA Polymerase	379
A9753	PCR Mycoplasma Test Kit I	328
A9755	*Green Taq* DNA Polymerase	378
A9757	DextraSEC 96W-large	149
A9763	DextraSEC Mini-spinPRO PBS (G-50)	150
A9766	*Pfu* PCR Master Mix	353
A9771	DextraSEC NA50	151
A9776	DextraSEC Mini-spinPRO Desalt (G-50)	150
A9784	DextraSEC PRO50	152
A9790	DextraSEP FPLC1	149
A9798	DextraSEC NA100	151
A9800	*Pfu* DNA Polymerase	378
A9801	qPCR Cycler Validation Kit	353
A9808	Protein A Agarose Suspension	410
A9810	DextraSEC PRO100	152
A9815	Blue *Taq* PCR Master Mix	353
A9823	Deoxyribonucleotide Mix (4 x 10 mM)	144
AFW-045MC	Analytical Funnel, sterilized, individually packed, 47 mm, 0.45 microns	323
ANJARRMC	2.5 L Anaerobiosis Jar	323
FMW-045MC	Microbiological Monitor, sterilized, individually packed, 47 mm, 0.45 microns	323
MAN03NYMC	Nylon, three-port Filtration Manifold	194
MB007	maxXbond™	288
NC-04548MC	Box of 100 Nitorcellulose membranes, 48.3 mm, 0.45 microns, sterile	323

НеваРеактив

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HAZARD STATEMENTS (H Phrases)

Physical Hazards

H200 ..... Unstable explosives.
H201 ..... Explosive; mass explosion hazard.
H202 ..... Explosive, severe projection hazard.
H203 ..... Explosive; fire, blast or projection hazard.
H204 ..... Fire or projection hazard.
H205 ..... May mass explode in fire.
H220 ..... Extremely flammable gas.
H221 ..... Flammable gas.
H222 ..... Extremely flammable aerosol.
H223 ..... Flammable aerosol.
H224 ..... Extremely flammable liquid and vapour.
H225 ..... Highly flammable liquid and vapour.
H226 ..... Flammable liquid and vapour.
H228 ..... Flammable solid.
H240 ..... Heating may cause an explosion.
H241 ..... Heating may cause a fire or explosion.
H242 ..... Heating may cause a fire.
H250 ..... Catches fire spontaneously if exposed to air.
H251 ..... Self-heating: may catch fire.
H252 ..... Self-heating in large quantities; may catch fire.
H260 ..... In contact with water releases flammable gases which may ignite spontaneously.
H261 ..... In contact with water releases flammable gases.
H270 ..... May cause or intensify fire; oxidiser.
H271 ..... May cause fire or explosion; strong oxidiser.
H272 ..... May intensify fire; oxidiser.
H280 ..... Contains gas under pressure; may explode if heated.
H281 ..... Contains refrigerated gas; may cause cryogenic burns or injury.
H290 ..... May be corrosive to metals.

Health Hazards

H300 ..... Fatal if swallowed.
H300+H310 ..... Fatal if swallowed or in contact with skin.
H300+ H310+H330 ..... Fatal if swallowed, in contact with skin or if inhaled.
H300+H330 ..... Fatal if swallowed or if inhaled.
H301 ..... Toxic if swallowed.
H301+H311 ..... Toxic if swallowed or in contact with skin.
H301+ H311+H331 ..... Toxic if swallowed, in contact with skin or if inhaled.
H301+H331 ..... Toxic if swallowed or if inhaled.
H302 ..... Harmful if swallowed.
H302+H312 ..... Harmful if swallowed or in contact with skin.
H302+ H312+H332 ..... Harmful if swallowed, in contact with skin or if inhaled.
H302+H332 ..... Harmful if swallowed or if inhaled.
H304 ..... May be fatal if swallowed and enters airways.
H310 ..... Fatal in contact with skin.
H310+H330 ..... Fatal in contact with skin or if inhaled.
H311 ..... Toxic in contact with skin.
H311+H331 ..... Toxic in contact with skin or if inhaled.
H312 ..... Harmful in contact with skin.
H312+H332 ..... Harmful in contact with skin or if inhaled.
H314 ..... Causes severe skin burns and eye damage.
H315 ..... Causes skin irritation.
H317 ..... May cause an allergic skin reaction.
H318 ..... Causes serious eye damage.
H319 ..... Causes serious eye irritation.
H330 ..... Fatal if inhaled.
H331 ..... Toxic if inhaled.
H332 ..... Harmful if inhaled.
H334 ..... May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 ..... May cause respiratory irritation.
H336 ..... May cause drowsiness or dizziness.
H340 ..... May cause genetic defects.
H341 ..... Suspected of causing genetic defects.
H350 ..... May cause cancer.
H350i ..... May cause cancer by inhalation.
H351 ..... Suspected of causing cancer.
H360 ..... May damage fertility or the unborn child.
H360D ..... May damage the unborn child.
H360Df ..... May damage the unborn child. Suspected of damaging fertility.
H360F ..... May damage fertility.
H360FD ..... May damage fertility. May damage the unborn child.
H360Fd ..... May damage fertility. Suspected of dama ging the unborn child.
H361 ..... Suspected of damaging fertility or the unborn child.
H361d ..... Suspected of damaging the unborn child.
H361f ..... Suspected of damaging fertility.
H361fd ..... Suspected of damaging fertility. Suspected of damaging the unborn child..
H361fdi ..... Suspected of damaging fertility by inhalation. Suspected of damaging the unborn child by inhalation.
H362 ..... May cause harm to breast-fed children.
H370 ..... Causes damage to organs.
H371 ..... May cause damage to organs.
H372 ..... Causes damage to organs through prolonged or repeated exposure.
H373 ..... May cause damage to organs through prolonged or repeated exposure.

Environmental Hazards

H400 ..... Very toxic to aquatic life.
H410 ..... Very toxic to aquatic life with long lasting effects.
H411 ..... Toxic to aquatic life with long lasting effects.
H412 ..... Harmful to aquatic life with long lasting effects.
H413 ..... May cause long lasting harmful effects to aquatic life.
H420 ..... Harms public health and the environment by destroying ozone in the upper atmosphere.

Supplemental hazard information (European Union)

Physical properties

EUH001 ..... Explosive when dry.
EUH006 ..... Explosive with or without contact with air.
EUH014 ..... Reacts violently with water.
EUH018 ..... In use may form flammable/explosive vapour-air mixture.
EUH019 ..... May form explosive peroxides.
EUH044 ..... Risk of explosion if heated under confinement.

Health properties

EUH029 ..... Contact with water liberates toxic gas.
EUH031 ..... Contact with acids liberates toxic gas.
EUH032 ..... Contact with acids liberates very toxic gas.
EUH066 ..... Repeated exposure may cause skin dryness or cracking.
EUH070 ..... Toxic by eye contact.
EUH071 ..... Corrosive to the respiratory tract.

Other hazards

EUH201 ..... Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.
EUH201A ..... Warning! Contains lead.
EUH202 ..... Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
EUH203 ..... Contains chromium (VI). May produce an allergic reaction.
EUH204 ..... Contains isocyanates. May produce an allergic reaction.
EUH205 ..... Contains epoxy constituents. May produce an allergic reaction.
EUH206 ..... Warning! Do not use together with other products. May release dangerous gases (chlorine).
EUH207 ..... Warning! Contains cadmium. Dangerous fumes are formed during use. See information supplied by the manufacturer. Comply with the safety instructions.
EUH208 ..... Contains <name of sensitising substance>. May produce an allergic reaction.
EUH209 ..... Can become highly flammable in use.
EUH209A ..... Can become flammable in use.
EUH210 ..... Safety data sheet available on request.
EUH401 ..... To avoid risks to human health and the environment, comply with the instructions for use.

НеВаРеАКТИВ

НеВаРеАКТИВ

Precautionary Statements (P Phrases)

General

P101 ..... If medical advice is needed, have product container or label at hand.
P102 ..... Keep out of reach of children.
P103 ..... Read label before use.

Prevention

P201 ..... Obtain special instructions before use.
P202 ..... Do not handle until all safety precautions have been read and understood.
P210 ..... Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211 ..... Do not spray on an open flame or other ignition source.
P220 ..... Keep/Store away from clothing/…/ combustible materials.
P221 ..... Take any precaution to avoid mixing with combustibles…
P222 ..... Do not allow contact with air.
P223 ..... Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P230 ..... Keep wetted with…
P231 ..... Handle under inert gas.
P231+P232 ..... Handle under inert gas. Protect from moisture.
P232 ..... Protect from moisture.
P233 ..... Keep container tightly closed.
P234 ..... Keep only in original container.
P235 ..... Keep cool.
P235+P410 ..... Keep cool. Protect from sunlight.
P240 ..... Ground/bond container and receiving equipment.
P241 ..... Use explosion-proof electrical/ ventilating/lighting/…/equipment.
P242 ..... Use only non-sparking tools.
P243 ..... Take precautionary measures against static discharge.
P244 ..... Keep reduction valves free from grease and oil.
P250 ..... Do not subject to grinding/shock/…/friction.
P251 ..... Pressurized container: Do not pierce or burn, even after use.
P260 ..... Do not breathe dust/fume/gas/mist/ vapours/spray.
P261 ..... Avoid breathing dust/fume/gas/mist/ vapours/spray.
P262 ..... Do not get in eyes, on skin, or on clothing.
P263 ..... Avoid contact during pregnancy/while nursing.
P264 ..... Wash … thoroughly after handling.
P270 ..... Do no eat, drink or smoke when using this product.
P271 ..... Use only outdoors or in a well-ventilated area.
P272 ..... Contaminated work clothing should not be allowed out of the workplace.
P273 ..... Avoid release to the environment.
P280 ..... Wear protective gloves/protective clothing/eye protection/face protection.
P281 ..... Use personal protective equipment as required.
P282 ..... Wear cold insulating gloves/face shield/eye protection.
P283 ..... Wear fire/flame resistant/retardant clothing.
P284 ..... Wear respiratory protection.
P285 ..... In case of inadequate ventilation wear respiratory protection.

Response

P301 ..... IF SWALLOWED:
P301+P310 ..... IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+P312 ..... IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331 .. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302 ..... IF ON SKIN:
P302+P334 ..... IF ON SKIN: Immerse in cool water/ wrap in wet bandages.
P302+P350 ..... IF ON SKIN: Gently wash with plenty of soap and water.
P302+P352 ..... IF ON SKIN: Wash with plenty of soap and water.
P303 ..... IF ON SKIN (or hair):
P303+P361+P353 .. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 ..... IF INHALED:
P304+P340 ..... IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304+P341 ..... IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 ..... IF IN EYES:
P305+P351+P338 .. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P306 ..... IF ON CLOTHING:
P306+P360 ..... IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P307 ..... IF exposed:
P307+P311 ..... IF exposed: Call a POISON CENTER or doctor/physician.
P308 ..... IF exposed or concerned:
P308+P313 ..... IF exposed or concerned: Get medical advice/attention.
P309 ..... IF exposed or if you feel unwell:
P309+P311 ..... IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P310 ..... Immediately call a POISON CENTER or doctor/physician.
P311 ..... Call a POISON CENTER or doctor/ physician.
P312 ..... Call a POISON CENTER or doctor/ physician if you feel unwell.
P313 ..... Get medical advice/attention.
P314 ..... Get medical advice/attention if you feel unwell.
P315 ..... Get immediate medical advice/attention.
P320 ..... Specific treatment is urgent (see … on this label).
P321 ..... Specific treatment (see … on this label).
P322 ..... Specific measures (see … on this label).
P330 ..... Rinse mouth.
P331 ..... Do NOT induce vomiting.
P332 ..... If skin irritation occurs:
P332+P313 ..... If skin irritation occurs: Get medical advice/attention.
P333 ..... If skin irritation or rash occurs:
P333+P313 ..... If skin irritation or rash occurs: Get medical advice/attention.
P334 ..... Immerse in cool water/wrap in wet bandages.
P335 ..... Brush off loose particles from skin.
P335+P334 ..... Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
P336 ..... Thaw frosted parts with lukewarm water. Do no rub affected area.
P337 ..... If eye irritation persists:
P337+P313 ..... If eye irritation persists: Get medical advice/attention.
P338 ..... Remove contact lenses, if present and easy to do. Continue rinsing.
P340 ..... Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P341 ..... If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342 ..... If experiencing respiratory symptoms:
P342+P311 ..... If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
P350 ..... Gently wash with plenty of soap and water.
P351 ..... Rinse cautiously with water for several minutes.
P352 ..... Wash with plenty of soap and water.
P353 ..... Rinse skin with water/shower.
P360 ..... Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P361 ..... Remove/Take off immediately all contaminated clothing.
P362 ..... Take off contaminated clothing and wash before reuse.
P363 ..... Wash contaminated clothing before reuse.
P370 ..... In case of fire:
P370+P376 ..... In case of fire: Stop leak if safe to do so.
P370+P378 ..... In case of fire: Use … for extinction.
P370+P380 ..... In case of fire: Evacuate area.
P370+P380+P375 .. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
P371 ..... In case of major fire and large quantities:
P371+P380+P375 .. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
P372 ..... Explosion risk in case of fire.
P373 ..... DO NOT fight fire when fire reaches explosives.
P374 ..... Fight fire with normal precautions from a reasonable distance.
P375 ..... Fight fire remotely due to the risk of explosion.
P376 ..... Stop leak if safe to do so.
P377 ..... Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P378 ..... Use … for extinction.
P380 ..... Evacuate area.
P381 ..... Eliminate all ignition sources if safe to do so.
P390 ..... Absorb spillage to prevent material damage.
P391 ..... Collect spillage.

Storage

P401 ..... Store …
P402 ..... Store in a dry place.
P402+P404 ..... Store in a dry place. Store in a closed container.
P403 ..... Store in a well-ventilated place.
P403+P233 ..... Store in a well-ventilated place. Keep container tightly closed.
P403+P235 ..... Store in a well-ventilated place. Keep cool.
P404 ..... Store in a closed container.
P405 ..... Store locked up.
P406 ..... Store in corrosive resistant/… container with a resistant inner liner.
P407 ..... Maintain air gap between stacks/pallets.
P410 ..... Protect from sunlight.
P410+P403 ..... Protect from sunlight. Store in a well-ventilated place.
P410+P412 ..... Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.
P411 ..... Store at temperatures not exceeding ... °C/... °F.
P411+P235 ..... Store at temperatures not exceeding ... °C/... °F. Keep cool.
P412 ..... Do not expose to temperatures exceeding 50 °C/122 °F.
P413 ..... Store bulk masses greater than … kg/… lbs at temperatures not exceeding ... °C/... °F.
P420 ..... Store away from other materials.
P422 ..... Store contents under …

Disposal

P501 ..... Dispose of contents/container to …
P502 ..... Refer to manufacturer/supplier for information on recovery/recycling.

НеВаРеакТив

Abbreviations

α20˚C/D Specific rotation at the sodium D-line (20 ˚C)
A Absorbance
AAS Atomic Absorption Spectroscopy
a.a.s As anhydrous substance
ABS Absorbance
abs. Absolute
Acidic react. subst. Acidic susbstances
Acidim. Acidimetric
ACS American Chemical Society
ADR Classification for carriage by road
a.d.s. As dried substance
APHA American Public Health Association. APHA Colour: Standard colour scale also named APHA/Hazen or Platinum-Cobalt (Pt/Co) Scale
approx. Approximately
Arg. Argentometric
ASTM International Standards (American Society for Testing and Materials)
BP British Pharmacopoeia
bp Base pair
˚C Degree Celsius
calc Calculated
CAS Chemicals Abstracts Registry No.
Cerim. Cerimetric
cfu Colony-forming units
CG/HS Gas Chromatography/Headspace
CHMP Committee for Medicinal Products for Human Use
C.I. Colour Index No.
CLP Classification Labelling and Packaging of Substance and Mixtures
cm Centimetres
COD Chemical Oxygen Demand
Compl. Complexometric
CS Customs tarif code number
D Sodium D-Line
DDT Dichloro-Diphenyl-Trichloroethane
dec. Decomposition
dil. Dilution
Dir. Directive
dist. Distilled
E Extinction
E.C. Enzyme Comission
ECD Electron Capture Detector
EINECS European Inventory of Existing Chemical Substances No.
EMEA European Agency for the Evaluation of Medicinal Products
enzym. Enzymatical
equiv. Equivalent
F.C.C. Food Chemicals Codex
FID Flame Ionization Detector
FIP International Pharmaceutical Federation
g Grams
GC Gas Chromatography
GC/PND Gas Chromatography with Nitrogen/Phosphorus Detector
GHS Globally Harmonized System
GMP - IPEC Good Manufacturing Practices - International Pharmaceutical Excipients Council
GPC Gel Permeation Chromatography
H Hazard statement
h Hours
hPa Hectopascal
HPLC High-Performance Liquid Chromatography
IATA Classification of aerial transport
ICP Induction Coupled Plasma
IMDG Classification of sea transport
imp. Impurities
incl. Inclusive
Iodom. Iodometric
IR Infrared Spectroscopy
ISO International Organization for Standardization
IU International Units
JP Japanese Pharmacopoeia
kb Kilobases (DNA/RNA)
K.F. Karl Fischer
kg Kilograms
KIU Kallikrein Inhibitory Units
λ Wavelength
l Litres
LC-MS Liquid Chromatography–Mass Spectrometry
M Molecular weight
M Molar
m Metres
max. Maximum
meq Milliequivalents
mg Milligrams
µg Micrograms
min. minimum
ml Millilitres
µl Microlitres
m/m Mass/mass
mm Millimetres
mM Millimolar
µm Micrometres (microns)
µM Micromolar
M.P. Melting Point
MS Mass Spectrometry
µS Microsiemens
mS Millisiemens
mUA Milli Absorbance Units
N Normal
n 20/D Refractive index (20 ˚C)
NFT French Norm
ng Nanograms
NIST National Institute of Standards and Technology
nm Nanometres
nM Nanomolar
NMR Nuclear Magnetic Resonance
No. Number
NTU Nephelometric Turbidity Unit
nwg Non-water hazardous
org. Organic
PAH Polycyclic Aromatic Hydrocarbons
PCR Polymerase Chain Reaction
Perchl. Ac. Perchloric Acid
Perm. Permanganometric
PG Packing Group
pg Picogram
Ph. Eur. European Pharmacopoeia
photometr. Photometric
PND Phosphorus-Nitrogen-Detector
Polynuc. Hydroc. Polynuclear Hydrocarbons
ppb Parts per billion
ppm Parts per million
ppt Parts per trillion
precip. Precipitated
prep. Prepare
prim. Primary
qPCR Quantitative real-time PCR
R.D. Spanish Royal Decree
REACH Registration, Evaluation, Authorisation and Restriction of Chemical substances
react. Reacting
Reag. Ph. Eur. The product meets the requirements of Ph. Eur. for use as analytical reagent
Reag. USP The product meets the requirements of USP for use as analytical reagent
red. Reducing
Res. Residue
RFE Spanish Pharmacopoeia
RT Room temperature
RT-PCR Reverse Transcription Polymerase Chain Reaction
RZ Absorbance Ratio
SDS-PAGE Sodium Dodecyl Sulfate Polyacrylamide Gel Electrophoresis
sec. Secondary
sol. Solution
Spec. Specific
s.q.m. Sufficient quantity to make
SRM Standard Reference Materials
Subst. Substance
SWP Safety Working Party
tert. Tertiary
TIC Total Inorganic Carbon
titr. Titrimetric
TLC Thin Layer Chromatography
TOC Total Organic Carbon
Tr Retention Time
U Units
UN UN number for hazardous substances
UNE Spanish Norm
USP United States Pharmacopeia
USP-NF United States Pharmacopeia - National Formulary
UV Ultraviolet Spectroscopy
UV/VIS Ultraviolet–visible spectroscopy
vol. Volume
v/v Volume/volume
WGK German classification of water pollution risk
w/v Weight/volume
w/w Weight/weight

HebaPeaktnb

PanReac AppliChem
ITW Reagents

infoPoint

UHPLC Solvents

Over the last years, the use of Ultra High Performance Liquid Chromatography (UHPLC) has significantly increased over conventional High Performance Liquid Chromatography (HPLC) due to the number of advantages that it offers.

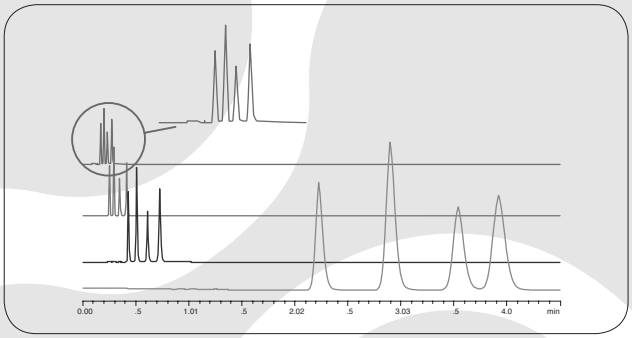
Thanks to the improvements that UHPLC offers in terms of analysis speed, sensitivity and resolution, the number of laboratories purchasing UHPLC units is increasing.

These advantages are the result of significant improvements in the technology of those units (detectors, automated injectors, pumps, columns, etc.). To obtain the best performance from these UHPLC units, it is recommended that appropriate high purity solvents are used to avoid their interfering with analysis.

PanReac AppliChem now offers improved specifications of HPLC gradient quality Acetonitrile, Methanol and Water so that they are adequate for use in UHPLC:

> Lower non-volatile matter content
> Improved transparency at low wavelengths
> New control of base line drift

From now on, HPLC gradient grade quality changes its name to UHPLC supergradient for these three products.



Please note that we have other qualities for analytical liquid chromatography, depending on your requirements:

	Acetonitrile	Methanol	Water
UHPLC Supergradient	721881	721091	--
	221881	221091	221074
HPLC	361881	361091	361074
LC-MS	701881	701091	701074



Ordering Information

Description	Code	Package
Acetonitrile for UHPLC Supergradient, ACS	221881.1611	1000 ml
	221881.1612	2.5 l
	221881.1646	4 l
	221881.0314	5 l
	221881.0515*	10 l
	221881.0516*	25 l
	221881.0537*	30 l
	221881.0519*	200 l
	221881.0574*	1000 l
Methanol for UHPLC Supergradient, ACS	221091.1611	1000 ml
	221091.1612	2.5 l
	221091.1646	4 l
	221091.0314	5 l
	221091.0515*	10 l
	221091.0516*	25 l
	221091.0537*	30 l
	221091.0519*	200 l
	221091.0574*	1000 l
Water for UHPLC Supergradient	221074.1611	1000 ml
	221074.1612	2.5 l

*Stainless steel drum is subject to special selling conditions.

HebaPeakTMB

PanReac AppliChem
ITW Reagents

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Nucleic Acid Decontamination
with DNA-ExitusPlus™

DNA contamination of PCR workstations leads to faulty DNA amplifications. Hidden traces of DNA may cause false diagnoses or contamination of sequence databases. Control and elimination of unwanted DNA background therefore is mandatory for quality control in all PCR laboratories.

Our patented product DNA-ExitusPlus™ employs a mild and non-corrosive chemistry for rapid nonenzymatic degradation of nucleic acids. Even a short incubation time with DNA-ExitusPlus™ completely removes non-target DNA and RNA from work surfaces and tools.

There are two different versions of DNA-ExitusPlus™ available:
DNA-ExitusPlus™ (A7089) includes a color indicator to easily visualize the surface area covered by the reagent. DNA-ExitusPlus™ IF (A7409) is almost colorless.

DNA-ExitusPlus™ is a registered trademark of AppliChem GmbH.



Products for Nucleic Acid Decontamination

Description	Code	Package
DNA-ExitusPlus™	A7089,0100	100 ml
DNA-ExitusPlus™	A7089,0500	500 ml
DNA-ExitusPlus™ IF	A7409,0100	100 ml
DNA-ExitusPlus™ IF	A7409,0500	500 ml
Autoclave-ExitusPlus™	A7600,1000	Powder for 6 x 1 L

DNA-free Reagents for PCR

Description	Code	Package
Water tested PCR, DNA-free	A8510,1017	10 x 1.7 ml
SSYBR Green®-staining solution, DNA-free	A8511,50625	5 x 0.625 ml

Notes

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