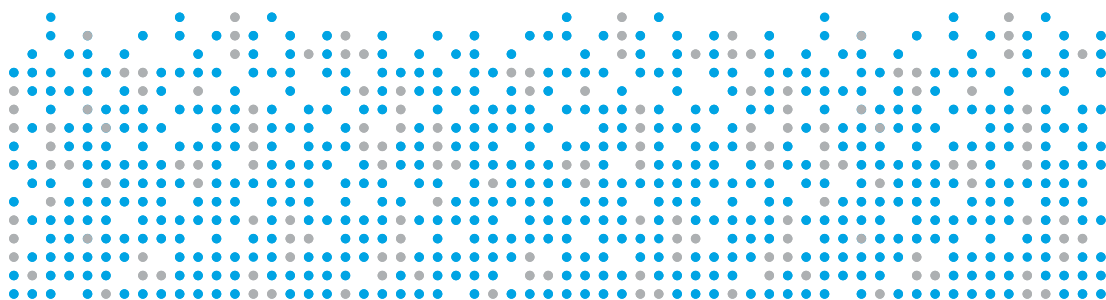


2008–2010

lach:ner

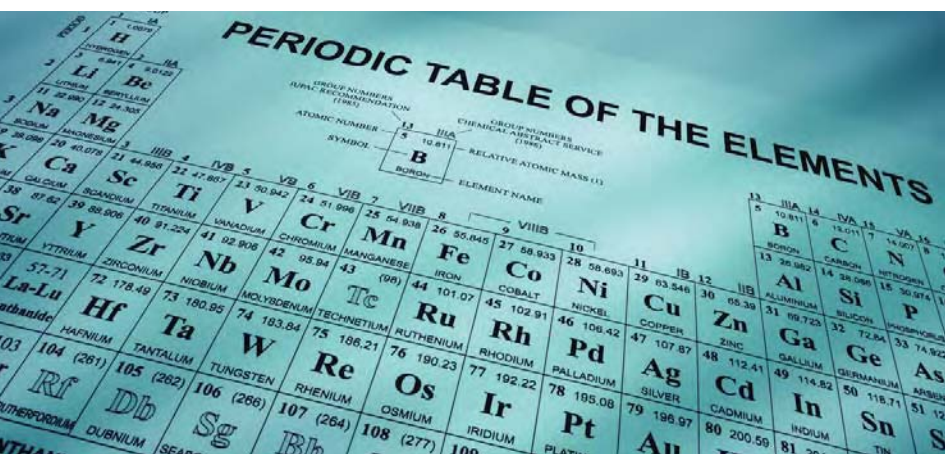
CATALOGUE OF CHEMICALS AND OTHER PRODUCTS



2008–2010

lach:ner

Catalogue of Chemicals and Other Products



Orders

We welcome all purchase orders and will be glad to receive them through our website at www.lach-ner.com, by e-mail, telephone, facsimile, in person or in any other manner you may prefer.



lach:ner

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We are a progressive European company that has used the solid foundations of its long tradition of chemical production to develop its expertise in adjusting pure and special chemicals. Hand in hand with our unceasing attention paid to the product and its quality, we carefully listen to our consumers' changing needs and respond by adapting our product range, services and production procedures. We welcome change as an opportunity to develop new solutions, new products, new applications and a greater value added for the customer.

Since 1997 we have been constantly improving our quality management system, which was built on and is developed in accordance with ISO 9001:2000 and other standards of quality. Since the early 1990s, we have followed the principles of Good Production Practice, which have been verified and certified in our production plants by the State Institute for Drug Control. We endorse a responsible approach to doing business in chemistry; therefore, we advocate the ideas and logo of Responsible Care.

Our product range consists of the following core product groups:

- laboratory chemicals
- products for laboratories – concentrated volumetric solutions, standard solutions, reagent and indicator papers
- products for the healthcare sector and microbiological laboratories
- job production according to specific requirements

Our range includes a purposefully selected range of basic inorganic and organic chemicals under the Lach-Ner brand. The chemicals can primarily be used for laboratory, research, medical, industrial and educational applications as well as for other purposes.

We constantly strive to improve our product range and, when doing so, take your requirements and ideas into consideration. For the latest product range information please visit our website at www.lach-ner.com. Please do not hesitate to share your ideas and comments with us; they are very important for us.



Catalogue of Chemicals or what's new

We are pleased to introduce the new Lach-Ner catalogue for 2008–2010. This issue is not just another one in a long series of previous catalogues; it has

a new and modern concept inspired by discussions with our customers from various sectors.

Our 2008–2010 catalogue presents an extended range of Lach-Ner products with the objective of presenting relevant product information in a well-structured and intuitive manner. We have decided to accommodate the ever changing needs of various groups of catalogue users. The data for each of the items is structured into three main sections:

– **basic information**

chemical and physical properties, safety data and typical application examples for selected chemicals;

– **quality specifications**

monitored parameters and their guaranteed values;

– **how to order**

a clear order code that comprises the catalogue number and packing code.

By including examples of chemical applications, we have accommodated requests voiced by a constantly growing group of our product users from among students as well as purchasing managers and others. The purpose of use stated for the chemicals is purely indicative and by no means covers all possible applications of the given substance. It is not related to any quality, it is rather generally oriented to give the user a general idea of how the given chemical can be used.

Lach-Ner's 2008-2010 catalogue is not merely a set of specs; you will find it useful when completing your purchase order and it also serves as a reference source for selected additional related product information.

Another new feature is the introduction of selected chemicals in the ACS puriss or, if relevant, ACS, ISO puriss quality. In this manner we want to react to the fact that more and more of our customers use procedures referring to this international standard. The range of chemicals in the catalogue is not complete, it gradually extends based on your requirements. This applies to both the substance types and the said quality degrees.



Lach-Ner's 2008-2010 catalogue is bilingual. In contrast to the previous editions, it is divided into two parts: English and Czech. The product information in the Czech section is therefore better structured, and the same can be found in English in the first part of the catalogue. We want to use a similar principle to develop our cooperation with distributors of our products abroad.

A new catalogue number format has replaced the former one, which was difficult to use in web searching and other applications. Every chemical has been assigned a unique numerical code followed by a quality code. The order number also includes a packing code. We will be happy to give you advice on how to convert the old catalogue numbers to the new format in your information system.

The packing types described in the catalogue are suitable in particular for laboratory applications. The chemicals listed in the catalogue are also available in bulk packing for semi-production and production operations. Today, Lach-Ner successfully participates in implementing technology solutions for industrial customers that have special requirements as to the specification, purity or packing of pure chemicals.

Our effort to constantly improve our know-how, product and service range has led us to establish cooperation with a number of internationally renowned partners, such as Acros Organics and Labscan, as well as with universities and research institutes.

The product portfolio stated in the catalogue is not fully complete as it is widening according to the customers requests. This concerns kinds of materials as well as quality grades (for example grades according to the international norms such as ISO, ACS, etc.)

Prices

To receive up-to-date information about prices, please contact your nearest sales office. Our product price list is always effective for one year.

Our prices may change during the effective period of this catalogue depending on the input raw material price fluctuations.



Terms of Delivery

Lach-Ner's General Delivery Terms and Conditions apply to all purchase orders and deliveries; we will send you their wording upon request or you can

find it at www.lach-ner.com. In the case of sales through resellers there are applied delivery terms of the distributor.

Quality Control

All products in this catalogue are subject to quality checks performed by our control laboratory, which has been certified by the State Institute for Drug Control for physical, physical and chemical, chemical and microbiological tests of drugs.

The quality parameters stated represent typical values and are valid at the time when the catalogue is sent for printing. The specifications and typical values may be adjusted during the effective term of the catalogue. For the latest data on the specifications and particular values, please contact Lach-Ner.

With our product quality control system we ensure that the chemicals show the parameters stated in the analysis certificate. This does not mean, however, that a given product is suitable for all applications. It is always up to the customer to assess whether a particular product is suitable for a specific application.

Quality Degrees

Most chemicals in our catalogue are listed with two and more quality degrees described by the relevant specifications. The quality degrees are indicated by the catalogue number:

- ↔ Puriss ACS; Puriss ACS, ISO
- ↔ Chemically Pure
- ↔ G.R. (Guaranteed reagent for Analysis)
- ↔ Pure
- ↔ Pharmacopoeial
- ↔ HPLC
- ↔ for UV spectroscopy
- ↔ for Pesticide Residue Analysis
- ↔ Others

The term “other” mostly includes purities described by the purpose of use, e.g. indicator etc. The term “pharmacopoeic” indicates that the pro-

duct quality meets the requirements specified in the latest edition of the Czech or European Pharmacopoeia.



Symbols and Terminology Used

If a quality parameter is indicated as a numerical value with „~“, the value may fluctuate:

~ 99%	min. 98%
~ 98%	min. 96%
~ 97%	min. 95%
~ 95%	min. 90%

Solubility

In the left-hand column with general and basic information about the product, the terms used have the following approximate meanings:

Descriptive terms	Approximate quantities of solvent by volume for 1 part of solute by weight
(very) readily soluble	<1–30
(easily) soluble	10–30
slightly soluble	30–100
(very) hardly soluble	100–10 000
(practically) insoluble	>10 000

The term “mixable” is used to describe a fluid that can be mixed with the given solvent in any ratio. The safety details of our products are valid at the time when this catalogue is published and comply with the Czech legislation in force and the current

state of knowledge. Legislative changes in the marking of product hazard levels are reflected in the safety sheet. The buyer is responsible for using the product in a safe manner.



Responsibility for the Product

Handling and use of our products requires a responsible approach from the users such as expert knowledge, knowledge of (inter)national legislation and rules, storage and transport requirements, etc. Some of our products are highly dangerous for live

organisms and environment, they might be abused and that is why they might be controlled by inspection authorities. A permission or confirmation about the appropriate final use might be requested with the purchase.

Tetrahydrofuran ¹

C ₄ H ₈ O	2
CH ₂ (CH ₂) ₃ O	3
M _r 72,11	4
CAS: 109-99-9	5
EINECS: 203-726-8	6
1l~0,89 kg	7
teplota tání -108 °C	8
teplota varu 66 °C	9
bod vzplanutí -17 °C	10
čirá, bezbarvá kapalina	11
mísitelný s lihem a etherem	12

Použití: analytické činidlo, rozpouštědlo, např. při HPLC, organické syntézy, reakční médium pro Grignardovy reakce ¹³



R: 11-19-36/37 ¹⁵

S: 2-16-29-33-46 ¹⁶

RTECS: LU5950000 ¹⁷

ADR/RID 3/II ¹⁸

UN 2056

puriss ACS stabilizovaný ¹⁹

kat. č. 20052-ET4 ²⁰

Obsah	≥ 99,5 %
Barva	≤ 20 APHA
H ₂ O (K.F.)	≤ 0,05 %
Alkalita	≤ 0,0002 mEq/g
Kyselost	≤ 0,0002 mEq/g
Netěkavé látky	≤ 0,03 %
Peroxidy (j. H ₂ O ₂)	≤ 0,015 %
Stab. BHT (2,6 di-terc-butyl-4-methylfenol) 0,025–0,04 %	

objednací číslo	množství
20052-ET4-M1000	1000 ml
20052-ET4-M2500	2500 ml

p. a. stabilizovaný

kat. č. 20052-AT4

Obsah	≥ 99,5 %
H ₂ O (K.F.)	≤ 0,1 %
Netěkavé látky	≤ 0,04 %
Volné kyseliny (j. CH ₃ COOH)	≤ 0,003 %
Stab. BHT (2,6 di-terc-butyl-4-methylfenol) 0,025–0,04 %	

objednací číslo	množství
20052-AT4-M1000	1000 ml

- | | | | |
|-----|--------------------------------|-----|-------------------------------------|
| 1/ | Main name | 13/ | Use |
| 2/ | Summary formula | 14/ | Caution symbols |
| 3/ | Structural formula | 15/ | R phrases |
| 4/ | Relative molecular weight | 16/ | S phrases |
| 5/ | CAS number | 17/ | RTECS number |
| 6/ | EINECS number | 18/ | Classification of transport dangers |
| 7/ | Conversion of volume of liquid | 19/ | Quality grade |
| 8/ | Melting point | 20/ | Catalogue number |
| 9/ | Boiling point | 21/ | Specifications |
| 10/ | Flash point | 22/ | Stabilization information |
| 11/ | Product appearance | 23/ | Order number |
| 12/ | Solubility/miscibility | 24/ | Quantity |

1 TETRAHYDROFURAN G.R.
stabilized

2 TETRAHYDROFURAN p.a.
stabilizovaný

3 1000 ml
4 1 l ~ 0,89 kg
5 C₄H₈O
6 M=72,11 g/mol

9	Assay / Obsah	min. 99,5 %
	H ₂ O (K.F.)	max. 0,1 %
	Non-volatile subst. / Netěkavé látky	max. 0,04 %
	Free acids (as CH ₃ COOH)	
	/ Volné kyseliny (jako CH ₃ COOH)	max. 0,002 %
10	Stab. 0,025 - 0,04 % BHT	

7 Highly flammable. May form explosive peroxides. Irritating to eyes and respiratory system. Keep out of reach of children. Keep away from sources of ignition – No smoking. Do not empty into drains. Take precautionary measures against static discharges. If swallowed, seek medical advice immediately and show this container or label.

8 Vysoce hořlavý. Může vytvářet výbušné peroxidy. Dráždí oči a dýchací orgány. Uchovávejte mimo dosah dětí. Uchovávejte mimo dosah zdrojů zapálení – Zákaz kouření. Nevylévejte do kanalizace. Proveďte preventivní opatření proti výbojům statické elektřiny. Při požití okamžitě vyhledejte lékařskou pomoc a ukažte tento obal nebo označení.

11 F
Highly flammable
Vysoce hořlavý
Xi
Irritant
Dráždivý

12 R: 11-19-36/37
13 S: 2-16-29-33-46
14 ADR/RID: 3/II – UN 2056
15 CAS: 109-99-9
16 EINECS: 203-726-8 označení ES
17 This material and/or its container
18 must be disposed of as hazardous
waste. / Tento materiál a jeho obal
musí být zneškodněn jako nebezpečný odpad.
19 Cat. No./Kat. č.: 20052-AT4
20 Exp./Použitelnost do: 08/2012
21 Batch No./Sarže: PP/2008/01179/0

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DIČ: CZ26295474 • tel.: +420 315 618 111 • www.lach-ner.com

- | | |
|--|---|
| 1/ Main name in English | 12/ R phrases |
| 2/ Main name in Czech | 13/ S phrases |
| 3/ Quantity | 14/ Classification of transport dangers |
| 4/ Conversion of volume of liquid | 15/ CAS number |
| 5/ Summary formula | 16/ EINECS number |
| 6/ Molecular weight | 17/ – |
| 7/ Wording of R and S phrases in English | 18/ Information on packing handling |
| 8/ Wording of R and S phrases in Czech | 19/ Catalogue number |
| 9/ Specifications | 20/ Expiration |
| 10/ Stabilization information | 21/ Batch |
| 11/ Caution symbols | |

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**I. Pure, Special and
Pharmaceutical
Chemicals**

Acetaldehyde

C₂H₄O
 CH₃CHO
 M_r 44.05
 CAS: 75-07-0
 EINECS: 200-836-8
 1l~0.78 kg
 melting point -125 °C
 boiling point 21 °C
 flash point -27 °C
 spec. stor. cond. 1-8 °C
 clear, colourless liquid with acrid smell
 miscible with water, alcohol, ether

Use: analytical reagent, organic syntheses



R: 12-36/37-40
 S: 2-16-33-36/37-46
 RTECS: AB1925000
 UN 1089

ADR/RID 3/I

G.R.**Cat. No. 40001-ATO**

Assay ≥ 99.5 %
 Non-volatile substances ≤ 0.002 %
 Free acids (as CH₃COOH) ≤ 0.5 %
 Fe ≤ 0.00001 %
 Pb ≤ 0.00001 %

Order number	Quantity
40001-ATO-M1000	1000 ml

pure**Cat. No. 40001-CTO**

Assay ≥ 99 %

Order number	Quantity
40001-CTO-M1000	1000 ml

Acetic acid 99.8%; 99.7%; 99%

C₂H₄O₂
 CH₃COOH
 M_r 60.05
 CAS: 64-19-7
 EINECS: 200-580-7
 1l~1.05 kg
 melting point 10-17 °C
 boiling point 118 °C
 flash point 40 °C
 clear, colourless liquid with sharp smell
 miscible with water, alcohol

Use: analytical reagent, e.g. for determination of iodine value, solvent, pharmaceutical productions



R: 10-35
 S: 1/2-23-26-45
 RTECS: AF1225000
 UN 2789

ADR/RID 8/II

puriss ACS 99.7 %**Cat. No. 10047-E9C**

Assay ≥ 99.7 %
 Color ≤ 10 APHA
 Heavy metals (as Pb) ≤ 0.00005 %
 Cl ≤ 0.0001 %
 SO₄ ≤ 0.0001 %
 Fe ≤ 0.00002 %
 Dilution test passes test
 Non-volatile substances ≤ 0.001 %
 Alkalinity ≤ 0.0004 mEq/g
 K₂Cr₂O₇-reducing subst. passes test
 KMnO₄-reducing subst. passes test
 (CH₃CO)₂O ≤ 0.01 %

Order number	Quantity
10047-E9C-M0500	500 ml
10047-E9C-M2500	2500 ml

G.R. 99.8 %**Cat. No. 10047-A9B**

Assay ≥ 99.8 %
 H₂O ≤ 0.15 %
 Cl ≤ 0.0001 %
 SO₄ ≤ 0.0001 %
 Non-volatile substances ≤ 0.003 %
 Aldehyde (as CH₃CHO) ≤ 0.005 %
 Subst. reducing KMnO₄ (as HCOOH) ≤ 0.05 %
 Heavy metals (as Pb) ≤ 0.00005 %
 Fe ≤ 0.00005 %

Order number	Quantity
10047-A9B-M1000	1000 ml
10047-A9B-M5000	5000 ml

G.R. 99 %**Cat. No. 10047-A99**

Assay ≥ 99 %
 Non-volatile substances ≤ 0.002 %
 SO₄ ≤ 0.0002 %
 Cl ≤ 0.0002 %
 Heavy metals (as Pb) ≤ 0.0001 %
 Fe ≤ 0.0001 %

Order number	Quantity
10047-A99-M1000	1000 ml

Acetic acid

A

Acetic acid

pure 98 %

Cat. No. 10047-C98

Assay ≥ 98 %

Order number	Quantity
10047-C98-M1000	1000 ml

pharm. 99 %

Cat. No. 10047-F99

Acidum aceticum 99 %

Order number	Quantity
10047-F99-M1000	1000 ml

Acetic acid 80 %



M, 60.05

CAS: 64-19-7

EINECS: 200-580-7

1l~1.07 kg

melting point 10 °C

boiling point 118 °C

flash point 40 °C

clear, colourless liquid with sharp smell

miscible with water, alcohol

Use: analytical reagent, e.g. for determination of iodine value, solvent, pharmaceutical productions



R: 10-34

S: 1/2-23-26-45

RTECS: AF1225000

ADR/RID 8/II

UN 2789

G.R. 80 %

Cat. No. 10047-A80

Assay 79–82 %

Non-volatile substances ≤ 0.002 %

SO₄ ≤ 0.0002 %

Cl ≤ 0.0002 %

Heavy metals (as Pb) ≤ 0.0001 %

Fe ≤ 0.0001 %

Order number	Quantity
10047-A80-M1000	1000 ml

pure 80 %

Cat. No. 10047-C80

Assay 79–82 %

Order number	Quantity
10047-C80-M1000	1000 ml

Acetic anhydride



M, 102.09

CAS: 108-24-7

EINECS: 203-564-8

1l~1.08 kg

melting point -73 °C

boiling point 138–141 °C

flash point 49 °C

clear, colourless liquid with acrid smell

miscible with chloroform and ether, slowly soluble in water forming acetic acid

Use: solvent for non-aqueous titrations (preparation of anhydrous acetic acid), determination of alcohols, phenols, acetylation reactions in analytical and synthetic work



R: 10-20/22-34

S: 1/2-26-36/37/39-45

RTECS: AK1925000

ADR/RID 8/II

UN 1715

G.R.

Cat. No. 20006-ATO

Assay ≥ 98 %

Non-volatile substances ≤ 0.005 %

Cl ≤ 0.001 %

SO₄ ≤ 0.0005 %

Subs. reducing KMnO₄ passes test

Heavy metals (as Pb) ≤ 0.0005 %

Fe ≤ 0.0005 %

Order number	Quantity
20006-ATO-M1000	1000 ml

pure

Cat. No. 20006-CTO

Assay ≥ 97 %

Order number	Quantity
20006-CTO-M1000	1000 ml

Acetone

C₃H₆O
 CH₃COCH₃
 M, 58.08
 CAS: 67-64-1
 EINECS: 200-662-2
 1l~0.79 kg
 melting point -95 °C
 boiling point 56 °C
 flash point -19 °C
 clear, colourless liquid with characteristic odour
 miscible with water, alcohol, ether, chloroform

Use: solvent, e.g. for HPLC, spectrophotometric measurements in UV region, analysis residual of pesticides, organic syntheses, extraction of solid wastes



R: 11-36-66-67
 S: 2-9-16-26-46
 RTECS: AL3150000
 UN 1090

ADR/RID 3/II

puriss ACS**Cat. No. 20001-ETO**

Color ≤ 10 APHA
 Assay ≥ 99.5 %
 Non-volatile substances ≤ 0.001 %
 Solubility in water passes test
 H₂O (K.F.) ≤ 0.5 %
 Alkalinity ≤ 0.0006 mEq/g
 Acidity ≤ 0.0003 mEq/g
 Methanol ≤ 0.05 %
 Aldehyde (as CH₂O) ≤ 0.002 %
 KMnO₄ reducing subst. passes test
 Isopropyl alcohol ≤ 0.05 %

Order number	Quantity
20001-ETO-M1000	1000 ml

chem.pure**Cat. No. 20001-HTO**

Assay (dry) ≥ 99.9 %
 d₄²⁰ 0.7890–0.7924
 Non-volatile substances ≤ 0.001 %
 H₂O (K.F.) ≤ 0.2 %
 Alkalinity (as NH₃) ≤ 0.001 %
 Acidity (as CH₃COOH) ≤ 0.003 %
 Distillation range (95 %) 55.5–56.5 °C
 Aldehyde (as CH₂O) ≤ 0.003 %

Order number	Quantity
20001-HTO-M1000	1000 ml

G.R.**Cat. No. 20001-ATO**

Assay ≥ 99.5 %
 d₄²⁰ 0.7890–0.7924
 Non-volatile substances ≤ 0.001 %
 H₂O (K.F.) ≤ 0.5 %
 Alkalinity (as NH₃) ≤ 0.001 %
 Acidity (as CH₃COOH) ≤ 0.003 %
 Distillation range (95 %) 55.5–56.5 °C
 Aldehyde (as CH₂O) ≤ 0.003 %

Order number	Quantity
20001-ATO-M1000	1000 ml

pure**Cat. No. 20001-CTO**

Assay ≥ 99 %
 d₄²⁰ 0.790–0.792
 Acidity (as CH₃COOH) ≤ 0.003 %
 H₂O (K.F.) ≤ 0.8 %
 Non-volatile substances ≤ 0.002 %

Order number	Quantity
20001-CTO-M1000	1000 ml

for UV spectroscopy**Cat. No. 20001-UTO**

Assay ≥ 99.8 %
 Water ≤ 0.1 %
 Evaporation residue ≤ 0.0005 %
 UV transmission levels
 Wavelength Transmission
 330 nm ≥ 10 %
 340 nm ≥ 80 %
 350 nm ≥ 96 %
 400 nm ≥ 98 %

Order number	Quantity
20001-UTO-M1000	1000 ml

Acetone

for HPLC

Cat. No. 20001-LTO

Assay	≥ 99.8 %
Water	≤ 0.2 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
UV transmission levels	
Wavelength	Transmission
335 nm	≥ 50 %
340 nm	≥ 85 %
350 nm	≥ 98 %
355 nm	≥ 99 %

Order number	Quantity
20001-LTO-M2500	2500 ml

for pesticide residue analysis

Cat. No. 20001-RTO

Assay	≥ 99.8 %
Water	≤ 0.3 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
Halogenated residue	≤ 5 ng/l

Order number	Quantity
20001-RTO-M2500	2500 ml

Acetonitrile

C₂H₃N
CH₃CN
M, 41.05
CAS: 75-05-8
EINECS: 200-835-2
1l~0.78 kg

melting point -45 °C
boiling point 82 °C
flash point 5 °C

clear, colourless liquid with weak
characteristic odour
miscible with water and alcohol

Use: solvent, e.g. for HPLC, analysis
residual of pesticides, analytical reagent
for the determination of B1, aminoethanol,
chemical industry



ADR/RID 3/II

R: 11-20/21/22-36
S: 1/2-16-36/37-46
RTECS: AL7700000
UN 1648

G.R.

Cat. No. 20041-ATO

Assay	≥ 99.5 %
H ₂ O (K.F.)	≤ 0.2 %
Non-volatile substances	≤ 0.001 %
Free acids (as CH ₃ COOH)	≤ 0.005 %

Order number	Quantity
20041-ATO-M1000	1000 ml

for HPLC Super Gradient

Cat. No. 20041-STO

Assay	≥ 99.9 %
Water	≤ 0.02 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
UV transmission levels	
Wavelength	Transmission
190 nm	≥ 30 %
195 nm	≥ 80 %
230 nm	≥ 99 %

Order number	Quantity
20041-STO-M2500	2500 ml

for HPLC

Cat. No. 20041-LTO

Assay	≥ 99.9 %
Water	≤ 0.02 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
UV transmission levels	
Wavelength	Transmission
240 nm	≥ 98 %
250 nm	≥ 99 %

Order number	Quantity
20041-LTO-M2500	2500 ml

for pesticide residue analysis

Cat. No. 20041-RTO

Assay	≥ 99.9 %
Water	≤ 0.2 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
Halogenated residue	≤ 5 ng/l

Order number	Quantity
20041-RTO-M2500	2500 ml

Acetophenone

C_8H_8O
 $CH_3COC_6H_5$
 M, 120.15
 CAS: 98-86-2
 EINECS: 202-708-7
 1l~1.03 kg
 melting point 19–20 °C
 boiling point 200–204 °C
 flash point 82 °C
 clear, colourless liquid or white crystalline
 substance
 soluble in alcohol and ether

Use: organic syntheses, catalyst for olefins polymerization



R: 22-36
 S: 2-26-46
 RTECS: AM5250000

pure

Cat. No. 40002-CTO

Assay ≥ 98 %

Order number	Quantity
40002-CTO-M1000	1000 ml

Acetylacetone

$C_5H_8O_2$
 $CH_3COCH_2COCH_3$
 M, 100.12
 CAS: 123-54-6
 EINECS: 204-634-0
 1l~0.97 kg
 melting point –23 °C
 boiling point 140 °C
 flash point 38 °C
 clear, colourless or light yellow liquid
 readily soluble in water, miscible with
 alcohol, ether and glacial acetic acid

Use: analytical reagent, chelating agent for transition metals, reagent for Arginin, solvent, organic syntheses



R: 10-22
 S: 2-21-23-24/25-46
 RTECS: SA1925000
 UN 2310

G.R.

Cat. No. 20002-ATO

Assay ≥ 99.5 %
 Ethyl acetate ≤ 0.01 %
 Fe ≤ 0.00001 %
 Pb ≤ 0.00001 %
 Ca ≤ 0.00005 %

Order number	Quantity
20002-ATO-M0500	500 ml

pure

Cat. No. 20002-CTO

Assay ≥ 98 %

Order number	Quantity
20002-CTO-M0500	500 ml

Acetyl chloride

C_2H_3ClO
 CH_3COCl
 M, 78.50
 CAS: 75-36-5
 EINECS: 200-865-6
 1l~1.10 kg
 melting point $-112\text{ }^\circ\text{C}$
 boiling point $51\text{ }^\circ\text{C}$
 flash point $5\text{ }^\circ\text{C}$
 clear, colourless or light yellow fuming liquid
 rapidly decomposes with water

Use: organic syntheses – acetylation, Friedel-Crafts reaction, pharmaceutical productions



R: 11-14-34
 S: 1/2-9-16-26-45
 ADR/RID 3/II UN 1717

pure

Cat. No. 40080-CTO

Assay $\geq 98\%$

Order number	Quantity
40080-CTO-M1000	1000 ml

Acrylic acid

2-Propenoic acid
 $C_3H_4O_2$
 $CH_2=CHCOOH$
 M, 72.06
 CAS: 79-10-7
 EINECS: 201-177-9
 1l~1.05 kg
 melting point $12\text{--}15\text{ }^\circ\text{C}$
 boiling point $141\text{ }^\circ\text{C}$
 flash point $46\text{ }^\circ\text{C}$
 spec. stor. cond. $15\text{--}25\text{ }^\circ\text{C}$
 clear, colourless liquid
 miscible with water and alcohol



R: 10-20/21/22-35-50
 S: 1/2-26-36/37/39-45-61
 RTECS: AS4375000
 ADR/RID 8/II UN 2218

pure stabilized

Cat. No. 10011-CT5

Assay $\geq 98\%$

H_2O (K.F.) $\leq 2\%$

Order number	Quantity
10011-CT5-M1000	1000 ml

Adipic acid

$C_6H_{10}O_4$
 $HOOC(CH_2)_4COOH$
 M, 146.14
 CAS: 124-04-9
 EINECS: 204-673-3
 melting point $151\text{--}154\text{ }^\circ\text{C}$
 boiling point $205\text{ }^\circ\text{C}$
 white crystalline powder or prisms
 easily soluble in alcohol and boiling water

Use: organic syntheses, food industry



R: 36
 S: 2-46
 RTECS: AU8400000

G.R.

Cat. No. 10010-AP0

Assay $\geq 99\%$

Ash $\leq 0.1\%$

Melting point $151\text{--}154\text{ }^\circ\text{C}$

Order number	Quantity
10010-AP0-G0250	250 g
10010-AP0-G1000	1000 g

pure

Cat. No. 10010-CP0

Assay $\geq 97.5\%$

Ash $\leq 0.5\%$

Melting point $150\text{--}154\text{ }^\circ\text{C}$

Order number	Quantity
10010-CP0-G0250	250 g

Alizarin Yellow GG

$C_{13}H_8N_2NaO_5$
 M, 309.22
 CAS: 584-42-9
 EINECS: 209-536-1
 yellow powder
 soluble in water

Use: acid-base indicator

S: 24/25

indicator

Cat. No. 40175-IP0

Order number	Quantity
40175-IP0-G0010	10 g

Allyl alcohol

C_3H_6O
 $CH_2=CHCH_2OH$
 M, 58.08
 CAS: 107-18-6
 EINECS: 203-470-7
 1l~0.85 kg
 melting point $-129\text{ }^\circ\text{C}$
 boiling point $97\text{ }^\circ\text{C}$
 flash point $21\text{ }^\circ\text{C}$
 clear, colourless, pungent liquid
 miscible with water, alcohol, ether

Use: organic syntheses (production of allyl compounds, Heck reaction), production of pharmaceutical compounds



R: 10-23/24/25-36/37/38-50
 S: 1/2-36/37/39-38-45-61
 RTECS: BA5075000
 ADR/RID 6.1/I UN 1098

pure

Cat. No. 20003-CT0

Assay $\geq 98\%$

Order number	Quantity
20003-CT0-M1000	1000 ml

Aluminum chloride anhydrous

$AlCl_3$
 M, 133.34
 CAS: 7446-70-0
 EINECS: 231-208-1
 melting point $180\text{ }^\circ\text{C}$ (sublimates)
 yellowish powder
 rapidly decomposes with water

Use: organic syntheses, e.g. Friedel-Crafts reaction, catalyst for various reactions (dehydrogenation, cleavage processes)



ADR/RID 8/II

R: 34
 S: 1/2-7/8-28-45
 UN 1726

G.R.

Cat. No. 30078-AP0

Assay $\geq 98\%$
 Fe $\leq 0.02\%$

Order number	Quantity
30078-AP0-G1000	1000 g

pure

Cat. No. 30078-CP0

Assay $\geq 98\%$
 Fe $\leq 0.3\%$

Order number	Quantity
30078-CP0-G1000	1000 g

Aluminum chloride hexahydrate

AlCl₃·6H₂O
 M, 241.43
 CAS: 7784-13-6
 EINECS: 231-208-1
 melting point 100 °C
 boiling point 170 °C
 colourless crystals or white powder
 readily soluble in water, hydrolyzes

Use: pharmaceutical productions, production of cosmetic, photographic purposes



R: 36/38
 S: 2-26-36-46
 RTECS: BD0530000
 UN 3260

ADR/RID 8/III

G.R.**Cat. No. 30079-AP0**

Assay ≥ 99 %
 pH (5 %, H₂O) 2.5–3.5
 SO₄ ≤ 0.005 %
 Fe ≤ 0.005 %
 Heavy metals (as Pb) ≤ 0.005 %

Order number	Quantity
30079-AP0-G0500	500 g
30079-AP0-G1000	1000 g

pure**Cat. No. 30079-CP0**

Assay ≥ 98 %
 Fe ≤ 0.005 %
 Heavy metals (as Pb) ≤ 0.01 %
 SO₄ ≤ 0.01 %

Order number	Quantity
30079-CP0-G0500	500 g
30079-CP0-G1000	1000 g

Aluminum hydroxide

Al(OH)₃
 M, 78.00
 CAS: 21645-51-2
 EINECS: 244-492-7
 melting point 300 °C
 white powder
 insoluble in water

Use: adsorbent

S: 22-24/25

G.R.**Cat. No. 10004-AP0**

Assay of Al₂O₃ 63–67 %
 SO₄ ≤ 0.02 %
 Fe ≤ 0.01 %

Order number	Quantity
10004-AP0-G0500	500 g

pure**Cat. No. 10004-CP0**

Assay of Al₂O₃ 63–67 %

Order number	Quantity
10004-CP0-G1000	1000 g

Aluminum nitrate nonahydrate

Al(NO₃)₃·9H₂O
 M, 375.13
 CAS: 7784-27-2
 EINECS: 236-751-8
 melting point 74 °C
 boiling point 150 °C
 colourless or white crystals, hygroscopic
 easily soluble in water

Use: analytical reagent, corrosion inhibitor, catalyst in petrochemistry



R: 8-36/38
 S: 2-17-26-36-46
 RTECS: BD1050000
 UN 1438

ADR/RID 5.1/III

G.R.**Cat. No. 30030-AP0**

Assay ≥ 98 %
 pH (5 %, H₂O) 2–4
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30030-AP0-G0100	100 g
30030-AP0-G0500	500 g

Aluminum oxide

Al₂O₃
 M_r 101.96
 CAS: 1344-28-1
 EINECS: 215-691-6
 melting point 1760 °C
 boiling point 2980 °C
 white powder
 insoluble in water

Use: chromatography columns packing,
 thin layer chromatography

S: 22-24/25
 RTECS: BD1200000

G.R.**Cat. No. 30134-AP0**

Loss on ignition (1000 °C) ≤ 0.3 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.1 %

Order number	Quantity
30134-AP0-G0100	100 g
30134-AP0-G1000	1000 g

pure**Cat. No. 30134-CP0**

Loss on ignition (1000 °C) ≤ 3 %

Order number	Quantity
30134-CP0-G1000	1000 g

for chromatography (Brockmann) neutral**Cat. No. 30134-MP0**

Order number	Quantity
30134-MP0-G0500	500 g

Aluminum sulfate hexadecahydrate

Al₂(SO₄)₃·16H₂O
 M_r 630.39
 CAS: 16828-11-8
 EINECS: 233-135-0
 melting point 90–95 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent for pH adjustment,
 water treatment

S: 22-24/25
 RTECS: WS5696000

G.R.**Cat. No. 30171-AP0**

Assay ≥ 98 %
 pH (5 %, H₂O) 3–4
 Cl ≤ 0.005 %
 Fe ≤ 0.01 %
 Pb ≤ 0.005 %

Order number	Quantity
30171-AP0-G0500	500 g
30171-AP0-G1000	1000 g

pure**Cat. No. 30171-CP0**

Assay ~95 %

Order number	Quantity
30171-CP0-G0500	500 g
30171-CP0-G1000	1000 g

Aluminum sulfate hydrate

Al₂(SO₄)₃·aq
 M_r 342.14+aq
 CAS: 17927-65-0
 EINECS: 233-135-0
 melting point 90–95 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent for pH adjustment,
 water treatment

S: 22-24/25
 RTECS: BD1700000

G.R.**Cat. No. 30172-AP0**

Assay (on dried subst.) ≥ 99 %
 pH (5 %, H₂O) 2.5–4
 Cl ≤ 0.005 %
 Fe ≤ 0.01 %
 Heavy metals (as Pb) ≤ 0.005 %

Order number	Quantity
30172-AP0-G0500	500 g
30172-AP0-G1000	1000 g

pure**Cat. No. 30172-CP0**

Assay of Al₂O₃ 16–18 %

Order number	Quantity
30172-CP0-G0500	500 g
30172-CP0-G1000	1000 g

Aluminum sulfate octadecahydrate

Al₂(SO₄)₃·18H₂O
 M, 666.41
 CAS: 7784-31-8
 EINECS: 233-135-0
 melting point 90–95 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent for pH adjustment,
 water treatment

S: 22-24/25
 RTECS: WS5697000

G.R.**Cat. No. 30173-APO**

Assay of Al₂(SO₄)₃ 51–59 %
 pH (5 %, H₂O) 2.5–4
 Heavy metals (as Pb) ≤ 0.005 %
 Fe ≤ 0.01 %
 NH₄ ≤ 0.05 %

Order number	Quantity
30173-APO-G1000	1000 g

Amidosulfonic acid, see Sulfamic acid – page 182

4-Aminoantipyrine

C₁₁H₁₃N₃O
 CH₃NN(C₆H₅)COC(NH₂):CCH₃
 M, 203.25
 CAS: 83-07-8
 EINECS: 201-452-3
 melting point 107–110 °C
 yellow to yellow-brown crystals
 soluble in water and alcohol

Use: detection of alkylphenols by chromatography, as the case may be glucose, in the presence of phenol and peroxide, pharmaceutical productions (antipyretic, analgesic), indicator for traces of phenols in water



R: 22-36/37/38
 S: 2-26-36-46
 RTECS: CD2480000

G.R.**Cat. No. 40006-APO**

Assay ≥ 99 %
 Melting point 107–110 °C
 Loss on drying (90 °C) ≤ 0.5 %
 Residue on ignition ≤ 0.1 %

Order number	Quantity
40006-APO-G0010	10 g
40006-APO-G0050	50 g
40006-APO-G0100	100 g

pure**Cat. No. 40006-CPO**

Assay ≥ 98 %
 Melting point 107–110 °C

Order number	Quantity
40006-CPO-G0010	10 g
40006-CPO-G0050	50 g
40006-CPO-G0100	100 g

4-Aminobenzenesulfonamide, see Sulfanilamide – page 182

Aminoethanol, see Ethanolamine – page 68

1-Amino-2-naphthol-4-sulfonic acid

C₁₀H₉NO₄S
 NH₂C₁₀H₇(OH)SO₃H
 M, 239.25
 CAS: 116-63-2
 EINECS: 204-147-3
 melting point 290 °C
 white or grey needles, tends to become pink with light
 practically insoluble in water, alcohol and ether

Use: analytical reagent in UV spectroscopy



R: 36/37/38
 S: 2-26-36-46
 RTECS: QK1292000

G.R.**Cat. No. 10008-APO**

Assay ≥ 98 %
 Sulfated ash ≤ 0.5 %
 H₂O (K.F.) ≤ 5 %

Order number	Quantity
10008-APO-G0025	25 g

Ammonia aqueous, see Ammonium hydroxide solution 25 % – page 16

Ammonium acetate

$C_2H_7NO_2$
 CH_3COONH_4
 M_r 77.08
 CAS: 631-61-8
 EINECS: 211-162-9
 melting point 110 °C
 colourless crystals or white powder,
 hygroscopic
 easily soluble in water

Use: analytical reagent, e.g. for the determination of lead and iron, separation of lead sulphate from other sulphates, preparation of buffers, chemical and food industry, pharmaceutical productions



R: 36/37/38
 S: 2-26-36-46
 RTECS: AF3675000

puriss ACS

Cat. No. 40112-EPO

Assay $\geq 97\%$
 Heavy metals (as Pb) $\leq 0.0005\%$
 Subst. insoluble in H_2O $\leq 0.005\%$
 pH (5%, H_2O) 6.7–7.3
 Residue after ignition $\leq 0.01\%$
 Cl $\leq 0.0005\%$
 NO_3 $\leq 0.001\%$
 SO_4 $\leq 0.001\%$
 Fe $\leq 0.0005\%$

Order number	Quantity
40112-EPO-G0500	500 g
40112-EPO-G2000	2000 g

G.R.

Cat. No. 40112-AP0

Assay (on dried subst.) $\geq 98\%$
 pH (5%, H_2O) 6.7–7.3
 Subst. insoluble in H_2O $\leq 0.005\%$
 Sulfated ash $\leq 0.01\%$
 Cl $\leq 0.0005\%$
 SO_4 $\leq 0.001\%$
 H_2O (K.F.) $\leq 2\%$

Order number	Quantity
40112-AP0-G0500	500 g
40112-AP0-G1000	1000 g

pure

Cat. No. 40112-CP0

Assay (on dried subst.) 97–102%
 Subst. insoluble in H_2O $\leq 0.01\%$
 Sulfated ash $\leq 0.02\%$
 Cl $\leq 0.001\%$
 SO_4 $\leq 0.005\%$

Order number	Quantity
40112-CP0-G0500	500 g
40112-CP0-G1000	1000 g

Ammonium aluminum sulfate dodecahydrate

$NH_4Al(SO_4)_2 \cdot 12H_2O$
 M_r 453.33
 CAS: 7784-26-1
 EINECS: 232-055-3
 melting point 95 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, buffer, treatment of drinking water, food industry

S: 22-24/25

G.R.

Cat. No. 30162-AP0

Assay $\geq 99\%$
 Cl $\leq 0.0005\%$
 Heavy metals (as Pb) $\leq 0.001\%$
 Fe $\leq 0.0002\%$

Order number	Quantity
30162-AP0-G0250	250 g
30162-AP0-G0500	500 g

pure

Cat. No. 30162-CP0

Assay $\geq 99\%$
 Cl $\leq 0.005\%$
 Heavy metals (as Pb) $\leq 0.005\%$

Order number	Quantity
30162-CP0-G0500	500 g

Ammonium bromide

NH_4Br
 M_r 97.95
 CAS: 12124-97-9
 EINECS: 235-183-8
 melting point 452 °C (sublimates)
 white to light yellow granular powder or crystals
 easily soluble in water

G.R.

Cat. No. 30004-AP0

Assay $\geq 99\%$
 pH (5%, H_2O) 5.0–6.5
 Cl $\leq 0.1\%$
 SO_4 $\leq 0.005\%$
 Fe $\leq 0.005\%$
 Pb $\leq 0.005\%$

Order number	Quantity
30004-AP0-G0500	500 g

Ammonium bromide

A

Ammonium bromide

Use: analytical reagent, corrosion inhibitor, photographic purposes



R: 36/37/38
S: 2-26-36-46
RTECS: B09170000

pure

Cat. No. 30004-CPO

Assay ≥ 98 %

Order number	Quantity
30004-CPO-G0250	250 g

Ammonium carbonate

$(\text{NH}_4)_2\text{CO}_3$

M, 96.09

CAS: 506-87-6

EINECS: 233-786-0

colourless crystals or white powder
easily soluble in water

Use: analytical reagent, food industry



R: 22
S: 2-22-24/25-46
RTECS: BP1925000

G.R.

Cat. No. 30207-APO

Assay (NH_3) 30–34 %
Cl ≤ 0.001 %
 SO_4 ≤ 0.005 %
Heavy metals (as Pb) ≤ 0.0005 %
Fe ≤ 0.0005 %

Order number	Quantity
30207-APO-G0500	500 g
30207-APO-G1000	1000 g

Ammonium chloride

NH_4Cl

M, 53.49

CAS: 12125-02-9

EINECS: 235-186-4

melting point 340 °C

boiling point 520 °C

colourless crystals or white powder
readily soluble in water

Use: analytical reagent, organic syntheses,
pharmaceutical productions, food industry



R: 22-36
S: 2-22-46
RTECS: BP4550000

puriss ACS

Cat. No. 30070-EPO

Assay ≥ 99.5 %
Heavy metals (as Pb) ≤ 0.0005 %
Insoluble matter in water ≤ 0.005 %
pH (5 %, H_2O) 4.5–5.5
Residue after ignition ≤ 0.01 %
 SO_4 ≤ 0.002 %
 PO_4 ≤ 0.0002 %
Fe ≤ 0.0002 %
Ca ≤ 0.001 %
Mg ≤ 0.0005 %

Order number	Quantity
30070-EPO-G0500	500 g
30070-EPO-G1000	1000 g

G.R.

Cat. No. 30070-APO

Assay ≥ 99 %
pH (5 %, H_2O) 4.5–6
Heavy metals (as Pb) ≤ 0.005 %
Fe ≤ 0.005 %
 SO_4 ≤ 0.005 %

Order number	Quantity
30070-APO-G0500	500 g
30070-APO-G1000	1000 g

pure

Cat. No. 30070-CPO

Assay ≥ 98 %
pH (5 %, H_2O) 4.5–6

Order number	Quantity
30070-CPO-G0500	500 g
30070-CPO-G1000	1000 g

pharm.

Cat. No. 30070-FPO

Ammonii chloridum

Order number	Quantity
30070-FPO-G1000	1000 g

Ammonium dichromate

$(\text{NH}_4)_2\text{Cr}_2\text{O}_7$
 M, 252.07
 CAS: 7789-09-5
 EINECS: 232-143-1
 melting point 180 °C (decomposition)
 orange-red crystals
 easily soluble in water

Use: analytical reagent – e.g. oxidimetric standard, preparation of catalysts, photographic purposes



R: 45-46-60-61-2-8-21-25-26-34-42/43-48/23-50/53
 S: 1/2-53-45-60-61
 RTECS: HX7650000
 ADR/RID 5.1/II UN 1439

G.R.**Cat. No. 30019-AP0**

Assay ≥ 99 %
 pH (5 %, H₂O) 3–4
 Loss on drying (105 °C) ≤ 1 %
 Cl ≤ 0.02 %
 SO₄ ≤ 0.02 %
 Fe ≤ 0.005 %
 May be stabilized with water 0.5–3.0 %

Order number	Quantity
30019-AP0-G0500	500 g
30019-AP0-G1000	1000 g

pure**Cat. No. 30019-CP0**

Assay ≥ 97 %
 pH (5 %, H₂O) 3–4
 Cl ≤ 0.02 %
 SO₄ ≤ 0.02 %
 Fe ≤ 0.005 %
 Loss on drying (105 °C) ≤ 3 %
 May be stabilized with water 0.5–3.0 %

Order number	Quantity
30019-CP0-G0500	500 g

Ammonium dihydrogen citrate anhydrous

$\text{C}_6\text{H}_7\text{O}_7\text{NH}_4$
 (HOOCCH₂)HOC(COOH)(CH₂COONH₄)
 M, 209.16
 white crystals
 easily soluble in water

Use: analytical reagent, preparation of buffers

S: 22-24/25

G.R.**Cat. No. 30014-AP0**

Assay ≥ 99.5 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Cl ≤ 0.002 %
 SO₄ ≤ 0.003 %
 Fe ≤ 0.0005 %
 Pb ≤ 0.0005 %

Order number	Quantity
30014-AP0-G0250	250 g
30014-AP0-G0500	500 g

pure**Cat. No. 30014-CP0**

Assay ≥ 99.2 %
 Subst. insoluble in H₂O ≤ 0.01 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.01 %
 Fe ≤ 0.001 %
 Pb ≤ 0.001 %

Order number	Quantity
30014-CP0-G0500	500 g

Ammonium dihydrogen phosphate

$(\text{NH}_4)_2\text{H}_2\text{P}_2\text{O}_7$
 M, 115.03
 CAS: 7722-76-1
 EINECS: 231-764-5
 melting point 190 °C
 colourless or white crystals
 easily soluble in water

Use: analytical reagent, food industry (antioxidant), component of buffers



R: 36/37/38
 S: 2-26-36-46

G.R.**Cat. No. 30015-AP0**

Assay ≥ 99 %
 SO₄ ≤ 0.01 %
 Cl ≤ 0.005 %
 Fe ≤ 0.002 %
 Heavy metals (as Pb) ≤ 0.002 %

Order number	Quantity
30015-AP0-G0500	500 g
30015-AP0-G1000	1000 g

pure**Cat. No. 30015-CP0**

Assay ≥ 98 %

Order number	Quantity
30015-CP0-G1000	1000 g

Ammonium ferric

Ammonium ferric citrate brown, see Ammonium iron(III) citrate brown – page 16

Ammonium ferric citrate green, see Ammonium iron(III) citrate green – page 17

Ammonium ferric sulfate dodecahydrate, see Ammonium iron(III) sulfate dodecahydrate – page 17

Ammonium ferrous sulfate hexahydrate, see Ammonium iron(II) sulfate hexahydrate – page 17

Ammonium fluorideNH₄F

M, 37.04

CAS: 12125-01-8

EINECS: 235-185-9

melting point 100 °C (sublimation
and decomposition)

white or colourless melting crystals

readily soluble in water, hardly soluble in
alcohol**Use:** analytical reagent (elimination of silica
compounds), determination of alkaline
earth metals

R: 23/24/25

S: 1/2-26-45

RTECS: BQ6300000

ADR/RID 6.1/III

UN 2505

puriss ACS**Cat. No. 30047-EPO**Assay ≥ 98 %
Heavy metals (as Pb) ≤ 0.0005 %
Insoluble matter in water ≤ 0.005 %
Residue after ignition ≤ 0.01 %
Cl ≤ 0.001 %
SO₄ ≤ 0.005 %
Fe ≤ 0.0005 %

Order number	Quantity
30047-EPO-G0005	5 g
30047-EPO-G0500	500 g

G.R.**Cat. No. 30047-APO**Assay ≥ 97 %
Sulfated ash ≤ 0.02 %
Cl ≤ 0.001 %
SO₄ ≤ 0.01 %
Fe ≤ 0.005 %
Heavy metals (as Pb) ≤ 0.001 %

Order number	Quantity
30047-APO-G0500	500 g

pure**Cat. No. 30047-CPO**

Assay ≥ 96 %

Order number	Quantity
30047-CPO-G0500	500 g

Ammonium hydrogen carbonateNH₄HCO₃

M, 79.06

CAS: 1066-33-7

EINECS: 213-911-5

melting point 106 °C

spec. stor. cond. < 10 °C

colourless crystals or white powder

readily soluble in water

Use: analytical reagent, preparation of
buffers, pharmaceutical and food industry

R: 22

S: 2-22-24/25-46

RTECS: B08600000

G.R.**Cat. No. 30065-APO**Assay ≥ 99 %
Cl ≤ 0.005 %
SO₄ ≤ 0.005 %
Fe ≤ 0.005 %
Pb ≤ 0.005 %

Order number	Quantity
30065-APO-G1000	1000 g

pure**Cat. No. 30065-CPO**Assay ≥ 98 %
Sulfated ash ≤ 0.2 %

Order number	Quantity
30065-CPO-G1000	1000 g

di-Ammonium hydrogen citrate anhydrousC₆H₁₄N₂O₇HO₂C(COOH)(CH₂COONH₄)₂

M, 226.19

CAS: 3012-65-5

EINECS: 221-146-3

melting point 198 °C (decomposition)

colourless crystals or white powder

readily soluble in water

G.R.**Cat. No. 30056-APO**Assay ≥ 99 %
Subst. insoluble in H₂O ≤ 0.005 %
Sulfated ash ≤ 0.01 %
Cl ≤ 0.002 %
SO₄ ≤ 0.005 %

Order number	Quantity
30056-APO-G1000	1000 g

di-Ammonium hydrogen citrate anhydrous

Use: analytical reagent, e.g. determination of phosphates, food additive (antioxidant), component of buffers



R: 36/37/38
S: 2-26-36-46
RTECS: GE7545000

pure**Cat. No. 30056-CP0**

Assay $\geq 98\%$
Subst. insoluble in H_2O $\leq 0.01\%$
Sulfated ash $\leq 0.05\%$
Cl $\leq 0.005\%$
 SO_4 $\leq 0.01\%$

Order number	Quantity
30056-CP0-G1000	1000 g

Ammonium hydrogen difluoride

NH_5F_2
 NH_4HF_2
 M_f 57.04
CAS: 1341-49-7
EINECS: 215-676-4
melting point 125 °C
boiling point 240 °C
colourless crystals or white powder
readily soluble in water

Use: etching agent for glass industry and ceramics



R: 25-34
S: 1/2-22-26-37-45
RTECS: BQ9200000
UN 1727

ADR/RID 8/II

pure**Cat. No. 30058-CP0**

Assay $\geq 95\%$
Cl $\leq 0.001\%$
Heavy metals (Pb+Zn+Cu) $\leq 0.001\%$
Fe $\leq 0.003\%$
Sulfated ash $\leq 0.02\%$

Order number	Quantity
30058-CP0-G0500	500 g
30058-CP0-G1000	1000 g

di-Ammonium hydrogen phosphate

$(NH_4)_2HPO_4$
 M_f 132.06
CAS: 7783-28-0
EINECS: 231-987-8
melting point 155 °C
colourless crystals or white powder
readily soluble in water

Use: microbiology, preparation of buffers

S: 22-24/25

G.R.**Cat. No. 30059-AP0**

Assay $\geq 99\%$
Cl $\leq 0.0005\%$
 SO_4 $\leq 0.002\%$
Heavy metals (as Pb) $\leq 0.0005\%$
Fe $\leq 0.0005\%$

Order number	Quantity
30059-AP0-G0500	500 g
30059-AP0-G1000	1000 g

pure**Cat. No. 30059-CP0**

Assay $\geq 98\%$

Order number	Quantity
30059-CP0-G0500	500 g

Ammonium hydrogen tartrate

$C_4H_9NO_6$
 $HOOCCH(OH)CH(OH)COONH_4$
 M_f 167.12
CAS: 3095-65-6
EINECS: 221-442-2
colourless crystals or white powder
readily soluble in water

Use: analytical reagent, gravimetric determination of scandium

S: 22-24/25

G.R.**Cat. No. 40064-AP0**

Assay $\geq 99\%$
Subst. insoluble in dilute HCl $\leq 0.005\%$
Sulfated ash $\leq 0.05\%$
Cl $\leq 0.001\%$
 SO_4 $\leq 0.005\%$
Fe $\leq 0.001\%$

Order number	Quantity
40064-AP0-G0500	500 g

pure**Cat. No. 40064-CP0**

Assay $\geq 98\%$
Subst. insoluble in dilute HCl $\leq 0.01\%$
Sulfated ash $\leq 0.15\%$
Cl $\leq 0.002\%$
 SO_4 $\leq 0.01\%$
Fe $\leq 0.002\%$

Order number	Quantity
40064-CP0-G0500	500 g

Ammonium hydroxide solution 25%

Ammonia aqueous

NH₄OH

M, 35.05

CAS: 1336-21-6

EINECS: 215-647-6

1l~0.91 kg

melting point -58 °C

boiling point 38 °C

clear, colourless liquid with characteristic odour

miscible with water and alcohol

Use: analytical reagent (e.g. for the determination of Pb, Ni and S), solvent, pH adjustment



R: 34-50

S: 1/2-26-36/37/39-45-61

RTECS: BQ9625000

ADR/RID 8/III

UN 2672

puriss ACS**Cat. No. 10001-E25**

Assay (NH₃) 28–30 %
 Heavy metals (j. Pb) ≤ 0.00005 %
 Cl ≤ 0.00005 %
 Residue after ignition ≤ 0.002 %
 KMnO₄ reducing subst. passes test
 PO₄ ≤ 0.0002 %
 Fe ≤ 0.00002 %
 SO₄ ≤ 0.0002 %
 NO₃ ≤ 0.0002 %
 CO₂ ≤ 0.002 %

Order number	Quantity
10001-E25-M0500	500 ml
10001-E25-M2500	2500 ml

G.R.**Cat. No. 10001-A25**

Assay (NH₃) 26 ± 1 %
 Non-volatile substances ≤ 0.003 %
 Cl ≤ 0.0001 %
 Total S (as SO₄) ≤ 0.0003 %
 CO₃ ≤ 0.002 %
 Fe ≤ 0.000025 %

Order number	Quantity
10001-A25-M1000	1000 ml

pure**Cat. No. 10001-C25**

Assay (NH₃) 27 ± 2 %
 Non-volatile substances ≤ 0.005 %
 Cl ≤ 0.0002 %
 Total S (as SO₄) ≤ 0.001 %
 CO₃ ≤ 0.003 %
 Fe ≤ 0.0001 %

Order number	Quantity
10001-C25-M1000	1000 ml

Ammonium iodide

NH₄I

M, 144.94

CAS: 12027-06-4

EINECS: 234-717-7

melting point 405 °C

colourless crystals or white powder, may tend to become slightly yellow with storage readily soluble in water

Use: pharmaceutical productions, photographic purposes

S: 22-24/25

G.R.**Cat. No. 30114-APO**

Assay ≥ 99 %
 pH (5 %, H₂O) 4.5–6.5
 Cl ≤ 0.02 %
 SO₄ ≤ 0.01 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30114-APO-G0500	500 g

Ammonium iron(III) citrate brown

Ammonium ferric citrate brown

CAS: 1185-57-5

EINECS: 214-686-6

brown powder

soluble in water

Use: biological source of Fe, blueprint, food supplement

S: 22-24/25

RTECS: GE7540000

pure**Cat. No. 30010-CPO**

Assay (Fe) 20.5–23 %

Order number	Quantity
30010-CPO-G0100	100 g

Ammonium iron(III) citrate green

Ammonium ferric citrate green
CAS: 1185-57-5
EINECS: 214-686-6
green powder
soluble in water

Use: biological source of Fe, blueprint,
photographic purposes, food supplement

S: 22-24/25
RTECS: GE7540000

pure**Cat. No. 30011-CP0**

Assay (Fe) 14.5–16 %

Order number	Quantity
30011-CP0-G0100	100 g

Ammonium iron(II) sulfate hexahydrate

Ammonium ferrous sulfate hexahydrate
(NH₄)₂Fe(SO₄)₂·6H₂O
M_r 392.14
CAS: 7783-85-9
EINECS: 233-151-8
melting point 100–140 °C
blue-green crystals
easily soluble in water

Use: analytical reagent (volumetric
analysis)



R: 36/37/38
S: 2-26-36-46
RTECS: BR6500000

G.R.**Cat. No. 30164-AP0**

Assay ≥ 99 %
Subst. insoluble in H₂O ≤ 0.01 %
Cl ≤ 0.002 %
PO₄ ≤ 0.005 %
Fe³⁺ ≤ 0.01 %
Mn ≤ 0.05 %

Order number	Quantity
30164-AP0-G0500	500 g
30164-AP0-G1000	1000 g

pure**Cat. No. 30164-CP0**

Assay ≥ 98 %
Subst. insoluble in H₂O ≤ 0.015 %
Fe³⁺ ≤ 0.02 %

Order number	Quantity
30164-CP0-G1000	1000 g

Ammonium iron(III) sulfate dodecahydrate

Ammonium ferric sulfate dodecahydrate
NH₄Fe(SO₄)₂·12H₂O
M_r 482.19
CAS: 7783-83-7
EINECS: 233-382-4
melting point 39–41 °C
boiling point 230 °C
pink crystals
easily soluble in water

Use: analytical reagent



R: 36/37/38
S: 2-26-36-46
RTECS: WS5900000

G.R.**Cat. No. 30163-AP0**

Assay ≥ 99 %
Cl ≤ 0.0005 %
PO₄ ≤ 0.003 %
Fe²⁺ ≤ 0.001 %

Order number	Quantity
30163-AP0-G0500	500 g

pure**Cat. No. 30163-CP0**

Assay ≥ 98.5 %
Fe²⁺ ≤ 0.002 %

Order number	Quantity
30163-CP0-G0500	500 g

Ammonium metavanadate

NH₄VO₃
M_r 116.98
CAS: 7803-55-6
EINECS: 232-261-3
melting point 200 °C
white to light yellow crystalline powder,
hygroscopic
easily soluble in water

G.R.**Cat. No. 30124-AP0**

Assay ≥ 99 %
Cl ≤ 0.005 %
SO₄ ≤ 0.05 %
PO₄ ≤ 0.005 %
Fe ≤ 0.005 %
Pb ≤ 0.005 %

Order number	Quantity
30124-AP0-G0100	100 g

Ammonium metavanadate

Use: analytical reagent, e.g. analysis of combustion of carbon, hydrogen and nitrogen



R: 25-33-36/37/38
S: 1/2-26-36/37/39-45
RTECS: YW0875000
UN 2859

ADR/RID 6.1/II

pure**Cat. No. 30124-CP0**

Assay ≥ 95 %
Cl ≤ 0.2 %
SO₄ ≤ 0.05 %

Order number	Quantity
30124-CP0-G0250	250 g

Ammonium molybdate tetrahydrate



M, 1235.86

CAS: 12054-85-2

EINECS: 234-320-9

melting point 190 °C (decomposition)

colourless, light yellow or light green

crystals

easily soluble in water, insoluble in alcohol

Use: analytical reagent, e.g. for the determination of phosphates, arsenates and lead, preparation of catalysts



R: 36/37/38-52/53
S: 2-26-36-46-61
RTECS: QA4900000

puriss ACS**Cat. No. 30126-EPO**

Assay (MoO₃) 81–83 %
Heavy metals (as Pb) ≤ 0.001 %
Subst. insoluble in H₂O ≤ 0.005 %
NO₃ passes test
AsO₄, PO₄, SiO₂ (as SiO₂) ≤ 0.001 %
Cl ≤ 0.002 %
PO₄ ≤ 0.0005 %
SO₄ ≤ 0.02 %
Mg ≤ 0.005 %
K ≤ 0.01 %
Na ≤ 0.01 %

Order number	Quantity
30126-EPO-G0100	100 g

G.R.**Cat. No. 30126-APO**

Assay ≥ 99 %
Subst. insoluble in H₂O ≤ 0.005 %
Cl ≤ 0.002 %
SO₄ ≤ 0.02 %
Pb ≤ 0.001 %

Order number	Quantity
30126-APO-G0500	500 g
30126-APO-G1000	1000 g

pure**Cat. No. 30126-CP0**

Assay ≥ 98 %

Order number	Quantity
30126-CP0-G0500	500 g
30126-CP0-G1000	1000 g

Ammonium nitrate



M, 80.04

CAS: 6484-52-2

EINECS: 229-347-8

melting point 170 °C

boiling point 302 °C

white crystals or powder, hygroscopic

easily soluble in water

Use: analytical reagent, oxidizer



R: 8-36/37/38
S: 2-15-17-26-36-46
RTECS: BR9050000
UN 1942

ADR/RID 5.1/III

G.R.**Cat. No. 30025-APO**

Assay ≥ 99 %
pH (5 %, H₂O) 4.5–6
Sulfated ash ≤ 0.01 %
Cl ≤ 0.0005 %
SO₄ ≤ 0.002 %
Fe ≤ 0.0002 %
Subst. insoluble in H₂O ≤ 0.005 %

Order number	Quantity
30025-APO-G0500	500 g
30025-APO-G1000	1000 g

pure**Cat. No. 30025-CP0**

Assay ≥ 98 %
Sulfated ash ≤ 0.1 %
Cl ≤ 0.005 %
SO₄ ≤ 0.01 %
Subst. insoluble in H₂O ≤ 0.01 %

Order number	Quantity
30025-CP0-G0500	500 g
30025-CP0-G1000	1000 g

Ammonium oxalate monohydrate

$C_7H_8N_2O_4 \cdot H_2O$
 $(COONH_4)_2 \cdot H_2O$
 M_r 142.12
 CAS: 6009-70-7
 EINECS: 238-135-4
 melting point 70 °C
 colourless crystals or white powder
 soluble in water

Use: analytical reagent for the determination of alkaline earth metals, lead, NMR, catalyst for the study of DNA



R: 21/22
 S: 2-24/25-46
 ADR/RID 8/III UN 3263

G.R.

Cat. No. 40141-AP0

Assay $\geq 98\%$
 pH (2.5%, H_2O) 6-7
 Cl $\leq 0.005\%$
 SO_4 $\leq 0.005\%$
 Fe $\leq 0.005\%$
 Pb $\leq 0.005\%$

Order number	Quantity
40141-AP0-G0500	500 g

Ammonium peroxodisulfate

$(NH_4)_2S_2O_8$
 M_r 228.20
 CAS: 7727-54-0
 EINECS: 231-786-5
 melting point 120 °C
 spec. stor. cond. < 15 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical oxidizer for cerium(III), chromium(III), iron(III) and manganese(II) ions, food industry, catalyst of polymerization



R: 8-22-36/37/38-42/43
 S: 2-22-24-26-37-46
 RTECS: SE0350000
 ADR/RID 5.1/III UN 1444

G.R.

Cat. No. 30154-AP0

Assay $\geq 98\%$
 Sulfated ash $\leq 0.05\%$
 Free acids (as H_2SO_4) $\leq 0.2\%$
 Fe $\leq 0.001\%$
 Heavy metals (as Pb) $\leq 0.001\%$
 Cl $\leq 0.0005\%$

Order number	Quantity
30154-AP0-G0500	500 g
30154-AP0-G1000	1000 g

pure

Cat. No. 30154-CP0

Assay $\geq 97\%$

Order number	Quantity
30154-CP0-G0500	500 g

Ammonium sulfamate

$H_6N_2O_3S$
 $NH_2SO_3NH_4$
 M_r 114.12
 CAS: 7773-06-0
 EINECS: 231-871-7
 melting point 132-134 °C
 white powder or crystals, hygroscopic
 readily soluble in water, hardly in alcohol

Use: colorimetric determinations, detection of sulphonamides

S: 24/25
 RTECS: W06125000

puriss ACS

Cat. No. 40005-EPO

Assay $\geq 98\%$
 Melting point 132-134 °C
 Heavy metals (as Pb) $\leq 0.0005\%$
 Insoluble matter in water $\leq 0.02\%$
 Residue after ignition $\leq 0.1\%$

Order number	Quantity
40005-EPO-G0100	100 g
40005-EPO-G0500	500 g

G.R.

Cat. No. 40005-AP0

Assay $\geq 98\%$
 Cl $\leq 0.005\%$
 SO_4 $\leq 0.2\%$
 Fe $\leq 0.005\%$
 Pb $\leq 0.005\%$
 Ash $\leq 0.1\%$

Order number	Quantity
40005-AP0-G0500	100 g

Ammonium sulfate

$(\text{NH}_4)_2\text{SO}_4$
 M, 132.14
 CAS: 7783-20-2
 EINECS: 231-984-1
 melting point 350 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, e.g. preparation and purification of enzymes and proteins

S: 22-24/25
 RTECS: BS4500000

G.R.**Cat. No. 30165-APO**

Assay ≥ 99 %
 pH (5 %, H₂O) 5–6
 Cl ≤ 0.005 %
 Fe ≤ 0.005 %
 Heavy metals (as Pb) ≤ 0.005 %

Order number	Quantity
30165-APO-G0500	500 g
30165-APO-G1000	1000 g

pure**Cat. No. 30165-CPO**

Assay ≥ 98 %
 Subst. insoluble in H₂O ≤ 0.01 %

Order number	Quantity
30165-CPO-G1000	1000 g

Ammonium thiocyanate

NH_4SCN
 M, 76.12
 CAS: 1762-95-4
 EINECS: 217-175-6
 melting point 150 °C
 boiling point 170 °C
 colourless crystals or white powder,
 hygroscopic
 easily soluble in water and alcohol

Use: analytical reagent for the determination of trivalent Fe, Ag, Au, Hg, separation of hafnium from zirconium, thin layer chromatography



R: 20/21/22-32-52/53
 S: 2-13-46-61
 RTECS: XK7875000

G.R.**Cat. No. 30202-APO**

Assay ≥ 98.5 %
 Subst. insoluble in H₂O ≤ 0.01 %
 Ash ≤ 0.02 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30202-APO-G0500	500 g
30202-APO-G1000	1000 g

pure**Cat. No. 30202-CPO**

Assay ≥ 98 %
 Subst. insoluble in H₂O ≤ 0.02 %

Order number	Quantity
30202-CPO-G1000	1000 g

n-Amyl acetate

$\text{C}_7\text{H}_{14}\text{O}_2$
 $\text{CH}_3\text{COO}(\text{CH}_2)_4\text{CH}_3$
 M, 130.19
 CAS: 628-63-7
 EINECS: 211-047-3
 1l~0.87 kg
 melting point -71 °C
 boiling point 149 °C
 flash point 25 °C
 clear, colourless liquid
 miscible with alcohol and ether

Use: solvent, organic syntheses

R: 10-66
 S: 2-23-25-46
 RTECS: AJ1925000
 ADR/RID 3/III UN 1104

G.R.**Cat. No. 20005-ATO**

Assay ~99 %
 n_D^{20} 1.4018–1.4038

Order number	Quantity
20005-ATO-M1000	1000 ml

pure**Cat. No. 20005-CTO**

Assay ~98 %

Order number	Quantity
20005-CTO-M1000	1000 ml

n-Amyl alcohol

$C_5H_{12}O$
 $CH_3(CH_2)_4OH$
 M_r 88.15
 CAS: 71-41-0
 EINECS: 200-752-1
 l ~0.81 kg
 melting point $-79^\circ C$
 boiling point $138^\circ C$
 flash point $40^\circ C$
 clear, colourless liquid with slight characteristic odour
 soluble in water, miscible with alcohol and ether

Use: analytical solvent, determination of fat in milk, organic syntheses, extraction solvent



R: 10-20-37-66
 S: 2-46
 RTECS: SB9800000
 UN 1105

ADR/RID 3/III

G.R.

Cat. No. 20004-ATO

Assay $\geq 98.5\%$
 Free acids (as $CH_3(CH_2)_3COOH$) $\leq 0.01\%$
 Non-volatile substances $\leq 0.005\%$
 H_2O (K.F.) $\leq 0.1\%$

Order number	Quantity
20004-ATO-M1000	1000 ml

pure

Cat. No. 20004-CTO

Assay $\geq 98\%$

Order number	Quantity
20004-CTO-M1000	1000 ml

Aniline

C_6H_7N
 $C_6H_5NH_2$
 M_r 93.13
 CAS: 62-53-3
 EINECS: 200-539-3
 l ~1.02 kg
 melting point -5 to $-7^\circ C$
 boiling point 181 – $185^\circ C$
 clear, colourless or light yellow to light brown oily liquid (darkens with storage)
 soluble in water, miscible with alcohol and ether

Use: solvent, analytical reagent, e.g. for coupling reactions (phenols and dyes), pharmacy



R: 23/24/25-40-41-43-48/23/24/25-50-68
 S: 1/2-26-27-36/37/39-45-61-63
 RTECS: BW6650000
 ADR/RID 6.1/II UN 1547

G.R.

Cat. No. 40007-ATO

Assay $\geq 99\%$
 H_2O $\leq 0.1\%$
 Ash $\leq 0.005\%$

Order number	Quantity
40007-ATO-M1000	1000 ml

pure

Cat. No. 40007-CTO

Assay $\geq 98\%$

Order number	Quantity
40007-CTO-M1000	1000 ml

Aniline hydrochloride

$C_6H_7N.HCl$
 $C_6H_5NH_2.HCl$
 M_r 129.59
 CAS: 142-04-1
 EINECS: 205-519-8
 melting point 197 – $200^\circ C$
 boiling point $245^\circ C$

G.R.

Cat. No. 40008-ATO

Assay $\geq 99\%$
 SO_4 $\leq 0.02\%$
 Ash $\leq 0.05\%$
 Melting point 197 – $200^\circ C$

Order number	Quantity
40008-ATO-G0100	100 g

Aniline hydrochloride

white to off-white crystals or powder,
hygroscopic
readily soluble in water, soluble in alcohol,
insoluble in ether

Use: organic syntheses, e.g. preparation of
aromatic amines



R: 23/24/25-40-41-43-48/23/24/25-50-68
S: 1/2-26-27-36/37/39-45-61-63
RTECS: CY0875000
ADR/RID 6.1/III UN 1548

pure**Cat. No. 40008-CTO**

Assay ≥ 98 %
Melting point 196–200 °C

Order number	Quantity
40008-CTO-G0100	100 g

Anthranilic acid

$C_7H_7NO_2$
 $NH_2C_6H_4COOH$
M, 137.14
CAS: 118-92-3
EINECS: 204-287-5
melting point 144–148 °C
light yellow crystalline powder
readily soluble in hot water and alcohol

Use: analytical reagent, organic syntheses



R: 22-36/37/38
S: 2-26-36/37/39-46
RTECS: CB2450000

G.R.**Cat. No. 10013-APO**

Assay ≥ 99.5 %
Cl ≤ 0.05 %
SO₄ ≤ 0.01 %
Pb ≤ 0.0005 %
Sulfated ash ≤ 0.03 %

Order number	Quantity
10013-APO-G0100	100 g

pure**Cat. No. 10013-CPO**

Assay ≥ 98 %
Melting point 144–147 °C

Order number	Quantity
10013-CPO-G0100	100 g

Antimony(III) chloride

$SbCl_3$
M, 228.11
CAS: 10025-91-9
EINECS: 233-047-2
melting point 73 °C
boiling point 223 °C
colourless crystals or white powder,
hygroscopic
readily soluble in water, hydrolyzes

Use: analytical reagent for the determina-
tion of chloral, vitamin A, microscopy



ADR/RID 8/II

R: 34-51/53
S: 1/2-26-45-61
RTECS: CC4900000
UN 1733

G.R.**Cat. No. 30071-APO**

Assay ≥ 99 %
SO₄ ≤ 0.005 %
As ≤ 0.005 %
Ca ≤ 0.001 %
Fe ≤ 0.0005 %
Pb ≤ 0.002 %

Order number	Quantity
30071-APO-G0100	100 g


pure**Cat. No. 30071-CPO**

Assay ≥ 98 %

Order number	Quantity
30071-CPO-G0100	100 g

Antimony(III) oxide

Sb₂O₃
 M_r 291.50
 CAS: 1309-64-4
 EINECS: 215-175-0
 melting point 656 °C
 boiling point 1550 °C (partly sublimates)
 white powder
 hardly soluble in water, soluble in hydrochloric acid

 R: 40
 S: 2-22-36/37-46
 RTECS: CC5650000
 ADR/RID 6.1/III UN 1549

G.R.

Cat. No. 30128-AP0

Assay ≥ 99 %
 Cl ≤ 0.05 %
 SO₄ ≤ 0.01 %
 Fe ≤ 0.003 %
 Pb ≤ 0.002 %

Order number	Quantity
30128-AP0-G0100	100 g

pure


Cat. No. 30128-CP0

Assay ≥ 98 %

Order number	Quantity
30128-CP0-G0100	100 g

Antimony(III) sulfide

Sb₂S₃
 M_r 339.70
 CAS: 1345-04-6
 EINECS: 215-713-4
 melting point 550 °C
 boiling point 1150 °C
 grey or grey-black powder
 insoluble in water

 R: 20/22-31-36/37/38
 S: 2-26-36-46
 RTECS: CC9450000

pure

Cat. No. 30196-CP0

Assay ~97 %

Order number	Quantity
30196-CP0-G0250	250 g

Arsenic trioxide

As₂O₃
 M_r 197.84
 CAS: 1327-53-3
 EINECS: 215-481-4
 melting point >274 °C
 boiling point >450 °C
 white powder
 hardly soluble in water

Use: analytical reagent, e.g. in volumetric analysis (standard for oxidimetric titrations)

  R: 45-28-34-50/53
 S: 1/2-53-45-60-61
 RTECS: CG3325000
 ADR/RID 6.1/II UN 1561

G.R.

Cat. No. 30129-AP0

Assay ≥ 99 %
 Cl ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30129-AP0-G0010	10 g
30129-AP0-G0250	250 g

Ascorbic acid

C₆H₈O₆
 M_r 176.13
 CAS: 50-81-7
 EINECS: 200-066-7
 melting point 187–189 °C
 colourless crystals or white powder
 readily soluble in water, soluble in alcohol

puriss ACS, ISO

Cat. No. 10014-ZP0

Assay ≥ 99.7 %
 Loss on drying (at 105 °C) ≤ 0.1 %
 [α]_D²⁰ (c = 10 in water) +20.5 to +21.5°
 Residue after ignition ≤ 0.05 %
 Fe ≤ 0.0002 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.002 %
 Heavy metals (as Pb) ≤ 0.001 %

Order number	Quantity
10014-ZP0-G0500	500 g
10014-ZP0-G1000	1000 g

Ascorbic acid

Use: analytical reagent, e.g. masking agent for some metals, reducing agent, pharmaceutical productions (vitamin C), food industry (antioxidant)

RTECS: CI7650000

G.R.**Cat. No. 10014-AP0**

Assay $\geq 99\%$
 Loss on drying (105 °C) $\leq 0.1\%$
 $[\alpha]_D^{20}$ (c = 10 in water) +20.5 to +21.5°
 Residue after ignition $\leq 0.1\%$
 pH (5 %, H₂O) 2.1–2.6

Order number	Quantity
10014-AP0-G0500	500 g
10014-AP0-G1000	1000 g

pharm.**Cat. No. 10014-FP0**

Acidum ascorbicum

Order number	Quantity
10014-FP0-G0500	500 g
10014-FP0-G1000	1000 g

D-Aspartic acid

C₄H₇NO₄
 HOOCCH₂CH(NH₂)COOH
 M, 133.11
 CAS: 1783-96-6
 EINECS: 217-234-6
 colourless crystals or white powder
 hardly soluble in water

Use: component of culture media for microbiological purposes

S: 22-24/25

RTECS: CI9097500

pure**Cat. No. 10021-CP0**

Assay $\geq 99\%$
 $[\alpha]_D^{20}$ (c = 5 in 5M HCl) $-24.7^\circ \pm 1^\circ$

Order number	Quantity
10021-CP0-G0100	100 g

Azure II

CAS: 37247-10-2
 dark green powder
 soluble in water

Use: dye for staining blood cells



R: 36/37/38-41

S: 2-16-26-39-46

for microscopy**Cat. No. 40010-DP0**

Order number	Quantity
40010-DP0-G0050	50 g
40010-DP0-G0100	100 g

Barbituric acid

$C_4H_4N_2O_3$
 $N:C(OH)N:C(OH)CH:C(OH)$
 M_r 128.09
 CAS: 67-52-7
 EINECS: 200-658-0
 melting point 250–253 °C
 colourless crystals or white to yellowish powder
 readily soluble in hot water

Use: analytical reagent, e.g. for the determination of cyanides, pharmaceutical productions



R: 36/37/38
 S: 2-26-36-46
 RTECS: CP8000000

G.R.

Cat. No. 10015-AP0

Assay ≥ 99 %
 Melting point 250–253 °C

Order number	Quantity
10015-AP0-G0100	100 g

Barium carbonate

$BaCO_3$
 M_r 197.37
 CAS: 513-77-9
 EINECS: 208-167-3
 melting point 1400–1740 °C
 white powder
 insoluble in water

Use: analytical reagent, preparation of other barium compounds



R: 22
 S: 2-24/25-46
 RTECS: CQ8600000
 ADR/RID 6.1/II UN 1564

G.R.

Cat. No. 30208-AP0

Assay ≥ 98.5 %
 Cl ≤ 0.03 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %
 Ca, Sr (as SO₄) ≤ 0.25 %

Order number	Quantity
30208-AP0-G0500	500 g
30208-AP0-G1000	1000 g

Barium chloride dihydrate

$BaCl_2 \cdot 2H_2O$
 M_r 244.28
 CAS: 10326-27-9
 EINECS: 233-788-1
 melting point 960 °C (anhydrous subst.)
 boiling point 1560 °C
 colourless crystals or white powder
 readily soluble in water

puriss ACS

Cat. No. 30072-EPO

Assay ≥ 99 %
 Heavy metals (as Pb) ≤ 0.0005 %
 pH (5 %, H₂O) 5.2–8.2
 Insoluble matter in water ≤ 0.005 %
 Oxidizing subst. (as NO₃) ≤ 0.005 %
 Loss on drying (150 °C) 14–16 %
 Fe ≤ 0.0002 %
 K ≤ 0.0025 %
 Na ≤ 0.005 %
 Ca ≤ 0.05 %
 Sr ≤ 0.1 %

Order number	Quantity
30072-EPO-G0500	500 g

Barium

Barium chloride dihydrate

B

Use: analytical reagent, e.g. evidence and determination of sulphates, pharmaceutical productions



R: 20-25
S: 1/2-45
RTECS: CQ8751000
UN 1564

ADR/RID 6.1/II

G.R.

Cat. No. 30072-AP0

Assay ≥ 99 %
Fe ≤ 0.005 %
Pb ≤ 0.005 %
pH (5 %, H₂O) 5–8

Order number	Quantity
30072-AP0-G0500	500 g
30072-AP0-G1000	1000 g

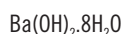
pure

Cat. No. 30072-CPO

Assay ≥ 99 %
pH (5 %, H₂O) 5–8

Order number	Quantity
30072-CPO-G1000	1000 g

Barium hydroxide octahydrate



M, 315.48

CAS: 12230-71-6

EINECS: 241-234-5

melting point 78 °C (decomposition)

boiling point > 95 °C

colourless crystals or white powder absorbing carbon dioxide
soluble in alcohol

Use: analytical reagent, organic syntheses, detection of CO₂, corrosion inhibitor



R: 20/22-34
S: 1/2-26-36/37/39-45

ADR/RID 6.1/III

UN 1564

G.R.

Cat. No. 10002-AP0

Assay ≥ 98 %
Cl ≤ 0.005 %
Fe ≤ 0.005 %
Pb ≤ 0.005 %

Order number	Quantity
10002-AP0-G0500	500 g

pure

Cat. No. 10002-CPO

Assay ≥ 98 %

Order number	Quantity
10002-CPO-G0500	500 g

Barium nitrate



M, 261.35

CAS: 10022-31-8

EINECS: 233-020-5

melting point 592–595 °C

white crystals

soluble in water

Use: analytical reagent, e.g. determination of sulphates



R: 8-20/22
S: 2-17-28-46
RTECS: CQ9625000
UN 1446

ADR/RID 5.1/II

G.R.

Cat. No. 30026-AP0

Assay ≥ 99 %
Subst. insoluble in H₂O ≤ 0.01 %
pH (5 %, H₂O) 5–7
Cl ≤ 0.005 %

Order number	Quantity
30026-AP0-G0500	500 g

pure

Cat. No. 30026-CPO

Assay ≥ 98 %
Subst. insoluble in H₂O ≤ 0.02 %

Order number	Quantity
30026-CPO-G0500	500 g

Barium oxide

BaO
 M_r 153.34
 CAS: 1304-28-5
 EINECS: 215-127-9
 melting point 1923 °C
 boiling point 2000 °C
 white powder
 reacts exothermically with water

Use: organic syntheses (oxidizer, bleaching agent)



R: 20/22
 S: 2-28-46
 RTECS: CQ9800000

ADR/RID 6.1/III UN 1884

pure

Cat. No. 30130-CPO

Assay ~95 %

Order number	Quantity
30130-CPO-G0100	100 g

Barium perchlorate anhydrous

Ba(ClO₄)₂
 M_r 336.24
 CAS: 13465-95-7
 EINECS: 236-710-4
 melting point 505 °C
 colourless crystals or white powder
 readily soluble in water

Use: analytical reagent, drinking water treatment



R: 9-20/22
 S: 2-27-46
 RTECS: SC7550000

ADR/RID 5.1/II UN 1447

G.R.

Cat. No. 30103-AP0

Assay ≥ 98 %
 H₂O ≤ 2 %
 Cl, ClO₃ (as Cl) ≤ 0.02 %
 Fe ≤ 0.0005 %
 Pb ≤ 0.0005 %

Order number	Quantity
30103-AP0-G0100	100 g

Barium sulfate

BaSO₄
 M_r 233.40
 CAS: 7727-43-7
 EINECS: 231-784-4
 melting point 1380 °C
 colourless crystals or white powder
 insoluble in water

Use: analytical reagent, pharmaceutical productions (protective coatings against X-rays), medicine

S: 22-24/25
 RTECS: CR0600000

G.R.

Cat. No. 30166-AP0

Loss on ignition (at 600 °C) ≤ 2 %
 Cl ≤ 0.1 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30166-AP0-G0500	500 g
30166-AP0-G1000	1000 g

Bathophenanthroline

B

$C_{24}H_{16}N_2$
 $(C_6H_5)_2C_{12}H_6N_2$
 M, 332.41

CAS: 1662-01-7

EINECS: 216-767-1

melting point 218–220 °C

white to yellowish crystalline powder

insoluble in water, soluble in alcohol and chloroform

Use: analytical reagent for colorimetric or spectrometric determination of trace amounts of iron, e.g. in biochemical materials, indirect photometric determination of hydrogen peroxide

S: 22-24/25

RTECS: SF8427000

G.R.

Cat. No. 40011-APO

Assay ≥ 99 %

Melting point 218–220 °C

Order number	Quantity
40011-APO-G0010	10 g

Benzaldehyde

 C_7H_6O C_6H_5CHO

M, 106.12

CAS: 100-52-7

EINECS: 202-860-4

1l~1.05 kg

melting point -26 °C

boiling point 177–179 °C

clear, colourless or light yellowish liquid

hardly soluble in water, miscible with alcohol and ether

Use: solvent, organic syntheses – blocking of amine groups, pharmaceutical productions



R: 22

S: 2-24-46

RTECS: CU4375000

ADR/RID 9/III

UN 1990

G.R.

Cat. No. 40012-ATO

Assay ≥ 99 %

Free acid (as benzoic acid) ≤ 1 %

 n_D^{20} 1.544–1.546

Order number	Quantity
40012-ATO-M1000	1000 ml

pure

Cat. No. 40012-CTO

Assay ≥ 98 %

 n_D^{20} 1.544–1.547

Order number	Quantity
40012-CTO-M1000	1000 ml

Benzene

 C_6H_6

M, 78.12

CAS: 71-43-2

EINECS: 200-753-7

1l~0.88 kg

melting point 6 °C

boiling point 80 °C

flash point -11 °C

clear, colourless liquid

insoluble in water, miscible with alcohol and ether

G.R.

Cat. No. 20007-ATO

Assay ≥ 99.8 %

Crystalliz. temp. ≥ +5.4 °C

Cloud temp. ≤ +10 °C

Total S ≤ 0.0001 %

Thiophene ≤ 0.0001 %

Order number	Quantity
20007-ATO-M1000	1000 ml

Benzene

Use: solvent, electronics industry



R: 45-46-11-36/38-48/23/24/25-65

S: 1/2-53-45

RTECS: CY1400000

ADR/RID 3/II UN 1114

pure

Cat. No. 20007-CTO

Assay $\geq 99.7\%$
 Crystalliz. temp. $\geq +5.4\text{ }^\circ\text{C}$
 Cloud temp. $\leq +10\text{ }^\circ\text{C}$
 Total S $\leq 0.0003\%$
 Thiophene $\leq 0.0002\%$

Order number	Quantity
20007-CTO-M1000	1000 ml

Benzoic acid

$\text{C}_7\text{H}_6\text{O}_2$

$\text{C}_6\text{H}_5\text{COOH}$

M, 122.12

CAS: 65-85-0

EINECS: 200-618-2

melting point $122\text{ }^\circ\text{C}$

boiling point $249\text{ }^\circ\text{C}$

colourless crystals or white powder
soluble in hot water and alcohol

Use: analytical reagent, e.g. volumetric standard, colorimetric analyses, food industry (preservation), pharmaceutical productions



R: 22-36/37/38-42/43

S: 2-22-26-36/37-46

RTECS: DG0875000

ADR/RID 9/III

UN 3077

G.R.

Cat. No. 10016-AP0

Assay $\geq 99.5\%$
 Sulfated ash $\leq 0.005\%$
 Halogenated comp. (as Cl) $\leq 0.1\%$

Order number	Quantity
10016-AP0-G0500	500 g
10016-AP0-G1000	1000 g

pure

Cat. No. 10016-CP0

Assay $\geq 99\%$
 Sulfated ash $\leq 0.01\%$

Order number	Quantity
10016-CP0-G0500	500 g

pharm.

Cat. No. 10016-FP0

Acidum benzoicum

Order number	Quantity
10016-FP0-G0500	500 g

Benzoïn oxime, see Cuprone – page 55

1,4-Benzoquinone

$\text{C}_6\text{H}_4\text{O}_2$

$\text{O}=\text{C}(\text{H})=\text{C}(\text{H})=\text{C}(\text{H})=\text{C}(\text{H})=\text{O}$

M, 108.10

CAS: 106-51-4

EINECS: 203-405-2

melting point $111\text{--}113\text{ }^\circ\text{C}$

boiling point $\sim 180\text{ }^\circ\text{C}$

spec. stor. cond. $1\text{--}5\text{ }^\circ\text{C}$

yellowish white to yellow-green powder
soluble in alcohol and ether

Use: organic syntheses, inhibitor of free radicals, Diels-Alder syntheses



R: 23/25-36/37/38-50

S: 1/2-26-28-45-61

RTECS: DK2625000

ADR/RID 6.1/II

UN 2587

pure

Cat. No. 40014-CP0

Assay $\geq 98\%$
 Melting point $111\text{--}113\text{ }^\circ\text{C}$
 Non-volatile substances $\leq 1\%$

Order number	Quantity
40014-CP0-G0500	500 g

Benzyl alcohol

B

C₇H₈O
 C₆H₅CH₂OH
 M, 108.14
 CAS: 100-51-6
 EINECS: 202-859-9
 1l~1.04 kg
 melting point -15 °C
 boiling point 205 °C
 clear, colourless syrupy liquid
 miscible with water, alcohol and acetone

Use: analytical reagent, e.g. for microscopy, organic syntheses, antimicrobial preparation, solvent



R: 20/22
 S: 2-26-46
 RTECS: DN315000

G.R.**Cat. No. 20009-ATO**

Assay ≥ 99 %
 Benzaldehyde ≤ 0.5 %
 Free acids (as benzoic acid) ≤ 0.03 %
 Halogen compounds (as Cl) ≤ 0.025 %
 Pb ≤ 0.00001 %
 Evaporation residue ≤ 0.005 %

Order number	Quantity
20009-ATO-M1000	1000 ml

pure**Cat. No. 20009-CTO**

Assay ≥ 98 %

Order number	Quantity
20009-CTO-M1000	1000 ml

Benzyl chloride

C₇H₇Cl
 C₆H₅CH₂Cl
 M, 126.59
 CAS: 100-44-7
 EINECS: 202-853-6
 1l~1.10 kg
 melting point -39 °C
 boiling point 179 °C
 clear, colourless to yellowish fuming liquid
 with acrid smell
 practically insoluble in water, miscible
 with alcohol, ether and chloroform

Use: analytical reagent, synthesis of benzyl compounds



R: 45-22-23-37/38-41-48/22
 S: 1/2-53-45
 RTECS: XS8925000
 ADR/RID 6.1/II UN 1738

G.R.**Cat. No. 40015-ATO**

Assay ≥ 99.5 %

Order number	Quantity
40015-ATO-M1000	1000 ml

pure**Cat. No. 40015-CTO**

Assay ≥ 98.5 %

Order number	Quantity
40015-CTO-M1000	1000 ml

Bis(cyclohexanone)oxaldihydrazone, see Cuprizon – page 55

Bismuth(III) carbonate basic

Bi₂CO₃
 (BiO)₂CO₃
 M, 509.97
 CAS: 5892-10-4
 EINECS: 227-567-9
 white powder
 insoluble in water

Use: pharmaceutical productions

S: 22-24/25

pharm.**Cat. No. 30209-FPO**

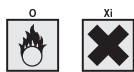
Bismuthi subcarbonas

Order number	Quantity
30209-FPO-G1000	1000 g

Bismuth(III) nitrate basic

~ 4BiNO₃(OH)₂·BiO(OH)
 CAS: 10361-46-3
 EINECS: 233-792-3
 melting point 260 °C
 white powder, hygroscopic
 practically insoluble in water and alcohol,
 soluble in mineral acids

Use: analytical reagent, production of cosmetics, pharmaceutical productions



ADR/RID 5.1/II

R: 8-36/37/38
 S: 2-17-26-36-46
 UN 1477

G.R.**Cat. No. 30028-AP0**

Assay of Bi 70.5–72 %
 Subst. insoluble in HNO₃ ≤0.005 %
 Cl ≤0.01 %
 SO₄ ≤0.01 %
 Alkali and alkaline earth metals (as SO₄) ≤0.25 %
 Pb ≤0.01 %

Order number	Quantity
30028-AP0-G1000	1000 g

pure**Cat. No. 30028-CP0**

Assay of Bi 69.5–72.5 %
 Subst. insoluble in HNO₃ ≤0.05 %
 Cl ≤0.1 %
 SO₄ ≤0.1 %
 Alkali and alkaline earth metals (as SO₄) ≤2 %

Order number	Quantity
30028-CP0-G1000	1000 g

Bismuth(III) nitrate pentahydrate

Bi(NO₃)₃·5H₂O
 M, 485.07
 CAS: 10035-06-0
 EINECS: 233-791-8
 melting point 75–80 °C
 colourless or white crystals, hygroscopic
 hydrolyzes in water

Use: analytical reagent, e.g. trace analysis of metals, pharmaceutical productions



ADR/RID 5.1/II

R: 8-36/37/38
 S: 2-17-26-36-46
 RTECS: EB2984430
 UN 1477

G.R.**Cat. No. 30027-AP0**

Assay ≥99 %
 Subst. insoluble in HNO₃ ≤0.005 %
 Cl ≤0.005 %
 SO₄ ≤0.02 %
 Fe ≤0.001 %
 Pb ≤0.01 %

Order number	Quantity
30027-AP0-G0500	500 g

pure**Cat. No. 30027-CP0**

Assay ≥97 %
 Subst. insoluble in HNO₃ ≤0.05 %
 Cl ≤0.05 %
 SO₄ ≤0.05 %
 Fe ≤0.005 %

Order number	Quantity
30027-CP0-G0500	500 g

Bismuth(III) oxide

Bi₂O₃
 M, 465.96
 CAS: 1304-76-3
 EINECS: 215-134-7
 melting point 817 °C
 boiling point 1890 °C
 yellow powder
 insoluble in water

Use: catalyst, colouring of ceramic and porcelain, pharmaceutical productions

S: 22-24/25
 RTECS: EB2984460

pure**Cat. No. 30131-CP0**

Assay ≥98 %

Order number	Quantity
30131-CP0-G0100	100 g

Boric acid

B

H_2BO_3
 M, 61.83
 CAS: 10043-35-3
 EINECS: 233-139-2
 melting point 185 °C
 colourless crystals or white powder
 soluble in water and alcohol

Use: analytical reagent, preparation of buffers, oxidation catalyst, decarboxylation reactions, pharmaceutical productions (eye waters)

S: 22-24/25
 RTECS: ED4550000

G.R.**Cat. No. 10017-AP0**

Assay ≥ 99.5 %
 Subst. insoluble in H_2O ≤ 0.005 %
 Non-volatiles with ethanol ≤ 0.3 %
 Cl ≤ 0.001 %
 SO_4 ≤ 0.015 %

Order number	Quantity
10017-AP0-G0500	500 g
10017-AP0-G1000	1000 g

pure**Cat. No. 10017-CP0**

Assay ≥ 98.5 %
 Subst. insoluble in H_2O ≤ 0.02 %
 Cl ≤ 0.002 %
 SO_4 ≤ 0.02 %

Order number	Quantity
10017-CP0-G1000	1000 g

pharm.**Cat. No. 10017-FP0**

Acidum boricum

Order number	Quantity
10017-FP0-G1000	1000 g

Brilliant Green

$C_{27}H_{34}N_2O_4S$
 M, 482.65
 CAS: 633-03-4
 EINECS: 211-190-1
 melting point 210 °C
 yellow-green to green crystalline powder,
 hygroscopic
 soluble in water

Use: stain for microscopy



R: 22-36/38
 S: 2-22-24/25-46
 RTECS: BP6825000

ADR/RID 6.1/II UN 3143

indicator**Cat. No. 40173-IP0**

Order number	Quantity
40173-IP0-G0050	50 g

Bromobenzene

C_6H_5Br
 M, 157.02
 CAS: 108-86-1
 EINECS: 203-623-8
 1l~1.49 kg
 melting point -30 °C
 boiling point 156 °C
 flash point 51 °C
 clear, colourless liquid
 miscible with alcohol, ether, chloroform

Use: analytical reagent, e.g. for the determination of copper, for Grignard reactions, solvent, organic syntheses



R: 10-38-51/53
 S: 2-46-61
 RTECS: CY9000000

ADR/RID 3/III UN 2514

pure**Cat. No. 40016-CT0**

Assay ≥ 98 %
 n_D^{20} 1.558–1.560

Order number	Quantity
40016-CT0-M0100	100 ml

Bromophenol Blue

$C_{19}H_{10}Br_4O_5S$
 M_r 669.99
 CAS: 115-39-9
 EINECS: 204-086-2
 melting point 273 °C
 light orange-yellow powder
 hardly soluble in water and alcohol

Use: acid-base indicator

S: 22-24/25
 RTECS: SJ7453000

indicator

Cat. No. 40097-IPO

Order number	Quantity
40097-IPO-G0050	50 g
40097-IPO-G0100	100 g

Bromothymol Blue

$C_{27}H_{28}Br_2O_5S$
 M_r 624.41
 CAS: 76-59-5
 EINECS: 200-971-2
 reddish pink or brownish powder
 practically insoluble in water, soluble in alcohol

Use: acid-base indicator

S: 22-24/25

indicator

Cat. No. 40098-IPO

Order number	Quantity
40098-IPO-G0025	25 g

Butan-1-ol

$C_4H_{10}O$
 $CH_3(CH_2)_3OH$
 M_r 74.12
 CAS: 71-36-3
 EINECS: 200-751-6
 1l~0.81 kg
 melting point -89 °C
 boiling point 117 °C
 flash point 34 °C
 clear, colourless liquid
 miscible with alcohol

Use: analytical and extraction reagent



ADR/RID 3/III

R: 10-22-37/38-41-67
 S: 2-7/9-13-26-37/39-46
 RTECS: E01400000
 UN 1120

puriss ACS

Cat. No. 20010-ETO

Assay ≥ 99.4 %
 Color ≤ 10 APHA
 H_2O (K.F.) ≤ 0.1 %
 Non-volatile substances ≤ 0.005 %
 Acidity ≤ 0.0008 mEq/g
 Carbonyl compounds (as butyraldehyde) ≤ 0.01 %
 Butylether ≤ 0.2 %

Order number	Quantity
20010-ETO-M0500	500 ml
20010-ETO-M1000	1000 ml

G.R.

Cat. No. 20010-ATO

Assay ≥ 99 %
 Non-volatile substances ≤ 0.003 %
 Free acids (as CH_3COOH) ≤ 0.005 %
 H_2O (K.F.) ≤ 0.2 %

Order number	Quantity
20010-ATO-M1000	1000 ml

pure

Cat. No. 20010-CTO

Assay ≥ 98 %
 H_2O (K.F.) ≤ 0.5 %
 n_D^{20} 1.399–1.401

Order number	Quantity
20010-CTO-M1000	1000 ml

Butan-2-ol

B

C₄H₁₀O
 CH₃CH₂CH(OH)CH₃
 M, 74.12
 CAS: 78-92-2
 EINECS: 201-158-5
 1l~0.81 kg
 melting point -114 °C
 boiling point 100 °C
 flash point 23 °C
 clear, colourless liquid
 easily soluble in water, miscible with
 alcohol and ether

Use: analytical reagent, solvent, organic
 syntheses



R: 10-36/37-67
 S: 2-7/9-13-24/25-26-46
 RTECS: E01750000
 UN 1120

ADR/RID 3/III

G.R.

Cat. No. 20011-ATO

Assay ≥ 99 %
 H₂O (K.F.) ≤ 0.1 %
 n_D²⁰ 1.396–1.398
 Non-volatile substances ≤ 0.005 %
 Free acids (as C₃H₇COOH) ≤ 0.01 %

Order number	Quantity
20011-ATO-M1000	1000 ml

pure

Cat. No. 20011-CTO

Assay ≥ 98 %
 n_D²⁰ 1.396–1.398

Order number	Quantity
20011-CTO-M1000	1000 ml

tert-Butanol

tert-Butyl alcohol
 C₄H₁₀O
 (CH₃)₃COH
 M, 74.12
 CAS: 75-65-0
 EINECS: 200-889-7
 1l~0.79 kg
 melting point 26 °C
 boiling point 83 °C
 flash point 11 °C
 clear, colourless liquid or crystalline
 substance
 easily soluble in water, miscible with
 alcohol and ether

Use: analytical reagent, solvent, alkali-
 catalysed condensations



R: 11-20
 S: 2-9-16-46
 RTECS: E01925000
 UN 1120

ADR/RID 3/II

G.R.

Cat. No. 20012-ATO

Assay ≥ 99.5 %
 H₂O (K.F.) ≤ 0.1 %
 Non-volatile substances ≤ 0.002 %
 Free acids (as C₃H₇COOH) ≤ 0.005 %

Order number	Quantity
20012-ATO-M1000	1000 ml

pure

Cat. No. 20012-CTO

Assay ≥ 99 %

Order number	Quantity
20012-CTO-M1000	1000 ml

2-Butanone, see Ethyl methyl ketone – page 73

Butyl acetate

C₆H₁₂O₂
 CH₃COO(CH₂)₃CH₃
 M, 116.16
 CAS: 123-86-4
 EINECS: 204-658-1
 1l~0.88 kg
 melting point -77 °C
 boiling point 126 °C
 flash point 22 °C

G.R.

Cat. No. 20013-ATO

Assay ≥ 98 %
 Non-volatile substances ≤ 0.002 %
 Free acids (as CH₃COOH) ≤ 0.03 %
 H₂O (K.F.) ≤ 0.2 %
 Distillation range 123.5–127.5 °C

Order number	Quantity
20013-ATO-M1000	1000 ml

Butyl acetate

clear, colourless liquid
hardly soluble in water, miscible with
alcohol and ether

Use: solvent, pharmaceutical productions

R: 10-66-67

S: 2-25-46

RTECS: AF7350000

ADR/RID 3/II UN 1123

pure

Cat. No. 20013-CT0

Assay $\geq 98\%$
Non-volatile substances $\leq 0.004\%$
Free acids (as CH_3COOH) $\leq 0.03\%$
 H_2O (K.F.) $\leq 0.3\%$
Distillation range $123\text{--}128\text{ }^\circ\text{C}$

Order number	Quantity
20013-CT0-M1000	1000 ml

B

tert-Butyl alcohol, see tert-Butanol – page 34

Cadmium acetate dihydrate

$C_2H_5CdO_4 \cdot 2H_2O$
 $(CH_3COO)_2Cd \cdot 2H_2O$
 M, 266.52
 CAS: 5743-04-4
 EINECS: 208-853-2
 melting point 256 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent for the determination of sulphur, selen and tellurium



R: 20/21/22-50/53
 S: 2-46-60-61
 RTECS: AF7505000
 UN 2570

ADR/RID 6.1/III

G.R.**Cat. No. 40115-AP0**

Assay ≥ 98 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %
 Subst. insoluble in H₂O ≤ 0.005 %

Order number	Quantity
40115-AP0-G0100	100 g
40115-AP0-G1000	1000 g

Cadmium chloride dihydrate

$CdCl_2 \cdot 2H_2O$
 M, 219.34
 CAS: 10108-64-2
 EINECS: 233-296-7
 melting point 568 °C
 boiling point 960 °C
 colourless crystals or white powder,
 hygroscopic
 readily soluble in water

Use: analytical reagent for pyridine bases and hydrogen sulphide



R: 45-46-60-61-25-26-48/23/25-50/53
 S: 1/2-53-45-60-61
 ADR/RID 6.1/III UN 2570

pure**Cat. No. 30083-CP0**

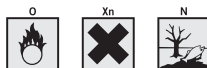
Assay ≥ 96 %

Order number	Quantity
30083-CP0-G0500	500 g

Cadmium nitrate tetrahydrate

$\text{Cd}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$
 M, 308.47
 CAS: 10022-68-1
 EINECS: 232-146-8
 melting point 59 °C
 boiling point 132 °C
 white crystals, hygroscopic
 easily soluble in water

Use: analytical reagent, production of Ni-Cd batteries, colouring of glass and porcelain



R: 8-20/21/22-50/53
 S: 2-17-46-60-61
 RTECS: EV1850000
 ADR/RID 5.1/II UN 1477

G.R.

Cat. No. 30032-AP0

Assay ≥ 99 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30032-AP0-G0500	500 g

Cadmium oxide

CdO
 M, 128.40
 CAS: 1306-19-0
 EINECS: 215-146-2
 melting point < 1426 °C
 boiling point 1559 °C
 red-brown powder
 insoluble in water

Use: oxidation and dehydrogenation catalyst for organic syntheses



R: 45-26-48/23/25-50/53-62-63-68
 S: 1/2-53-45-60-61
 RTECS: EV1925000
 ADR/RID 6.1/III UN 2570

G.R.

Cat. No. 30138-AP0

Assay ≥ 99 %
 Subst. insoluble in dilute HCl ≤ 0.01 %
 Cl ≤ 0.002 %
 SO₄ ≤ 0.005 %
 Pb ≤ 0.02 %
 Zn ≤ 0.02 %

Order number	Quantity
30138-AP0-G0500	500 g

pure

Cat. No. 30138-CP0

Assay ≥ 98.5 %
 Subst. insoluble in dilute HCl ≤ 0.02 %
 Cl ≤ 0.01 %
 SO₄ ≤ 0.02 %
 Pb ≤ 0.03 %
 Zn ≤ 0.02 %

Order number	Quantity
30138-CP0-G0500	500 g

Cadmium sulfate hydrate

$3\text{CdSO}_4 \cdot 8\text{H}_2\text{O}$
 M, 769.52
 CAS: 7790-84-3
 EINECS: 233-331-6
 melting point 41 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent for the determination of arsenic, sulphides and fumaric acid



R: 45-46-60-61-25-26-48/23/25-50/53
 S: 1/2-53-45-60-61
 RTECS: EV2700000
 ADR/RID 6.1/III UN 2570

G.R.

Cat. No. 30177-AP0

Assay ≥ 99 %
 pH (5 %, H₂O) 4-6
 Cl ≤ 0.001 %
 Fe ≤ 0.0005 %

Order number	Quantity
30177-AP0-G0500	500 g

pure

Cat. No. 30177-CP0

Assay ≥ 98 %
 Cl ≤ 0.005 %
 Fe ≤ 0.001 %

Order number	Quantity
30177-CP0-G0500	500 g

Cadmium

Cadmium sulfide

CdS
 M, 144.46
 CAS: 1306-23-6
 EINECS: 215-147-8
 melting point 1750 °C
 red or orange powder
 insoluble in water



R: 45-22-48/23/25-53-62-63-68
 S: 1/2-53-45-61
 ADR/RID 6.1/III UN 2570

pure

Cat. No. 30197-CP0

Assay ≥ 98 %

Order number	Quantity
30197-CP0-G0050	50 g

C

Caffeine

C₈H₁₀N₄O₂
 M, 194.19
 CAS: 58-08-2
 EINECS: 200-362-1
 melting point 234–239 °C
 white powder
 readily soluble in water, hardly in alcohol
 and ether

Use: pharmaceutical productions



ADR/RID 6.1/III

R: 22
 S: 2-46
 RTECS: EV6475000
 UN 1544

pharm.

Cat. No. 40083-FP0

Coffeinum

Order number	Quantity
40083-FP0-G0100	100 g
40083-FP0-G0250	250 g

Calcium carbonate

CaCO₃
 M, 100.09
 CAS: 471-34-1
 EINECS: 207-439-9
 melting point 825 °C
 white powder
 insoluble in water

Use: analytical reagent, e.g. for determination of halogens in organic substances, chelatometric standard, component of culture media for microbiological purposes, pharmaceutical productions



R: 37/38-41
 S: 2-26-36/37/39-46
 RTECS: FF9335000

G.R. precipitated

Cat. No. 30219-AP0

Assay ≥ 99 %
 Cl ≤ 0.03 %
 SO₄ ≤ 0.05 %
 Fe ≤ 0.01 %
 Pb ≤ 0.005 %

Order number	Quantity
30219-AP0-G0500	500 g
30219-AP0-G1000	1000 g

pure

Cat. No. 30219-CP0

Assay ≥ 95 %

Order number	Quantity
30219-CP0-G1000	1000 g

pharm.

Cat. No. 30219-FP0

Calcii carbonas

Order number	Quantity
30219-FP0-G1000	1000 g

Calcium chloride anhydrous

CaCl₂
 M, 110.99
 CAS: 10043-52-4
 EINECS: 233-140-8

G.R. granulated

Cat. No. 30096-AP4

Assay ≥ 96 %
 MgCl₂ ≤ 1.5 %

Order number	Quantity
30096-AP4-G0500	500 g
30096-AP4-G1000	1000 g

Calcium chloride anhydrous

melting point 772 °C
 boiling point > 1600 °C
 white or off-white powder or granulate,
 hygroscopic
 readily soluble in water

Use: desiccant



R: 36
 S: 2-22-24-46
 RTECS: EV9800000

G.R. powder

Cat. No. 30096-AP1

Assay ≥ 96 %
 MgCl₂ ≤ 1.5 %

Order number	Quantity
30096-AP1-G0500	500 g
30096-AP1-G1000	1000 g

pure powder

Cat. No. 30096-CP1

Assay ≥ 90 %

Order number	Quantity
30096-CP1-G0500	500 g
30096-CP1-G1000	1000 g

Calcium chloride dihydrate

CaCl₂·2H₂O
 M, 147.02
 CAS: 10035-04-8
 EINECS: 233-140-8
 melting point 260 °C
 boiling point 1600 °C
 spec. stor. cond. < 20 °C
 colourless crystals or white powder,
 hygroscopic
 readily soluble in water

Use: analytical reagent, biochemistry



R: 36
 S: 2-26-36-46
 RTECS: EV9810000

G.R.

Cat. No. 30097-AP0

Assay ≥ 99.5 %
 pH (5 %, H₂O) 4.5–7
 N total ≤ 0.002 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.001 %
 Pb ≤ 0.002 %

Order number	Quantity
30097-AP0-G0500	500 g
30097-AP0-G1000	1000 g

pure

Cat. No. 30097-CP0

Assay ≥ 99 %

Order number	Quantity
30097-CP0-G0500	500 g

Calcium chloride hexahydrate

CaCl₂·6H₂O
 M, 219.08
 CAS: 7774-34-7
 EINECS: 233-140-8
 melting point 30 °C
 spec. stor. cond. < 20 °C
 colourless crystals or white powder,
 hygroscopic
 readily soluble in water

Use: analytical reagent, pharmaceutical productions



R: 36
 S: 2-26-36-46
 RTECS: EV9830000

G.R.

Cat. No. 30098-AP0

Assay 97–102 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Free acid (as HCl) ≤ 0.01 %
 SO₄ ≤ 0.005 %
 NH₄ ≤ 0.02 %
 Mg and alk. metals (as SO₄) ≤ 0.2 %
 Pb ≤ 0.002 %
 Fe ≤ 0.001 %

Order number	Quantity
30098-AP0-G0500	500 g
30098-AP0-G1000	1000 g

pure

Cat. No. 30098-CP0

Assay 95–102 %
 Subst. insoluble in H₂O ≤ 0.01 %
 Free acid (as HCl) ≤ 0.02 %
 SO₄ ≤ 0.02 %
 NH₄ ≤ 0.05 %
 Mg and alk. metals (as SO₄) ≤ 0.5 %
 Pb ≤ 0.003 %

Order number	Quantity
30098-CP0-G0500	500 g

pharm.

Cat. No. 30098-FP0

Calcii chloridum hexahydricum

Order number	Quantity
30098-FP0-G1000	1000 g

Calcium dihydrogen phosphate monohydrate

Ca(H₂PO₄)₂·H₂O
 M, 252.07
 CAS: 7758-23-8
 EINECS: 231-837-1
 white crystals
 easily soluble in water

Use: pharmaceutical productions, food industry

S: 22-24/25
 RTECS: TB8527000

G.R.**Cat. No. 30018-APO**

Assay ≥ 85 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.1 %

Order number	Quantity
30018-APO-G0100	100 g

Calcium hydrogen phosphate dihydrate

CaHPO₄·2H₂O
 M, 172.09
 CAS: 7789-77-7
 EINECS: 231-826-1
 colourless crystals or white powder
 readily soluble in water

Use: analytical reagent, pharmaceutical productions, food industry

S: 22-24/25

pure**Cat. No. 30062-CPO**

Assay ≥ 98 %

Order number	Quantity
30062-CPO-G1000	1000 g

pharm.**Cat. No. 30062-FPO**

Calcii hydrogenophosphas dihydricus

Order number	Quantity
30062-FPO-G0100	100 g

Calcium hydroxide

Ca(OH)₂
 M, 74.10
 CAS: 1305-62-0
 EINECS: 215-137-3
 melting point 580 °C
 boiling point 2850 °C
 white powder
 practically insoluble in water

Use: analytical neutralizing agent, preparation of buffers, water treatment, absorbent of CO₂



ADR/RID 8/II

R: 34
 S: 1/2-26-36/37/39-45
 RTECS: EV2800000
 UN 3262

G.R.**Cat. No. 10007-APO**

Assay ≥ 96 %
 Subst. insoluble in HCl ≤ 0.03 %
 Subst. not precipit. by C₂H₆N₂O₄·H₂O ≤ 2.5 %
 Pb ≤ 0.0002 %

Order number	Quantity
10007-APO-G0500	500 g
10007-APO-G1000	1000 g

pure**Cat. No. 10007-CPO**

Assay ≥ 80 %

Order number	Quantity
10007-CPO-G0500	500 g
10007-CPO-G1000	1000 g

Calcium lactate pentahydrate

$C_6H_{10}CaO_6 \cdot 5H_2O$
 $[CH_3CH(OH)COO]_2Ca \cdot 5H_2O$
 M, 308.30
 CAS: 63690-56-2
 EINECS: 212-406-7
 melting point 240 °C
 white powder
 easily soluble in boiling water

Use: pharmaceutical productions

S: 22-24/25

pharm.

Cat. No. 40095-FPO

Calcii lactas pentahydricus

Order number	Quantity
40095-FPO-G0100	100 g

Calcium nitrate tetrahydrate

$Ca(NO_3)_2 \cdot 4H_2O$
 M, 236.15
 CAS: 13477-34-4
 EINECS: 233-332-1
 melting point 43 °C
 boiling point 132 °C
 white crystals, hygroscopic
 easily soluble in water

Use: analytical reagent



R: 8-36/37/38
 S: 2-17-26-36-46
 RTECS: EW3000000
 UN 1454

ADR/RID 5.1/III

G.R.

Cat. No. 30043-AP0

Assay ≥ 99 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.02 %

pure

Cat. No. 30043-CP0

Assay ≥ 99 %
 Subst. insoluble in H₂O ≤ 0.01 %
 Cl ≤ 0.01 %
 SO₄ ≤ 0.05 %

Order number	Quantity
30043-AP0-G1000	1000 g

Order number	Quantity
30043-CP0-G0500	500 g
30043-CP0-G1000	1000 g

Calcium oxide

CaO
 M, 56.08
 CAS: 1305-78-8
 EINECS: 215-138-9
 melting point 2600 °C
 boiling point 2850 °C
 white powder, hygroscopic
 insoluble in water

Use: neutralization of acids, calcification agent and absorbent of CO₂, desiccant, water treatment, pharmaceutical productions



R: 14-34
 S: 1/2-22-26-36/37/39-45

G.R.

Cat. No. 30149-AP0

Assay (on ignit. subst.) ≥ 96 %
 Subst. insoluble in HCl ≤ 0.5 %
 Loss on ignition (at 1000 °C) ≤ 3.5 %

pure

Cat. No. 30149-CP0

Assay (on ignit. subst.) ≥ 96 %

Order number	Quantity
30149-AP0-G0500	500 g
30149-AP0-G1000	1000 g

Order number	Quantity
30149-CP0-G1000	1000 g

pharm.

Cat. No. 30149-FPO

Calcii oxidum

Order number	Quantity
30149-FPO-G1000	1000 g

Calcium sulfate

Calcium sulfate precipitated dihydrate

CaSO₄·2H₂O
 M, 172.17
 CAS: 10101-41-4
 EINECS: 231-900-3
 white powder
 hardly soluble in water

Use: analytical reagent, e.g. determination of oxalates

S: 22-24/25
 RTECS: EW4150000

G.R.

Cat. No. 30190-AP0

Assay ≥ 99 %
 Cl ≤ 0.005 %
 Pb ≤ 0.005 %
 Fe ≤ 0.005 %

Order number	Quantity
30190-AP0-G1000	1000 g

C

Camphor racemic

C₁₀H₁₆O
 M, 152.24
 CAS: 21368-68-3
 EINECS: 244-350-4
 melting point 173–178 °C
 boiling point 209 °C
 flash point 65 °C
 colourless crystals or white powder
 readily soluble in alcohol and ether

Use: analytical reagent, pharmaceutical productions



R: 11-20/21/22-36/37/38
 S: 2-13-16-26-36-46
 RTECS: EX1260000
 UN 2717

ADR/RID 4.1/III

pure

Cat. No. 40081-CPO

Melting point 173–178 °C
 [α]_D²⁰(c = 10, alcohol) +0.15° to –0.15°
 Non-volatile subst. ≤ 0.05 %

Order number	Quantity
40081-CPO-G0100	100 g

pharm.

Cat. No. 40081-FPO

Camphora racemica

Order number	Quantity
40081-FPO-G0100	100 g

Carbon disulfide

CS₂
 M, 76.14
 CAS: 75-15-0
 EINECS: 200-843-6
 1l~1.26 kg
 melting point –112 °C
 boiling point 47 °C
 flash point –30 °C
 clear, colourless liquid
 miscible with alcohol and ether

Use: non-polar solvent, extraction reagent



R: 11-36/38-48/23-62-63
 S: 1/2-16-33-36/37-45
 RTECS: FF6650000
 UN 1131

ADR/RID 3/I

G.R.

Cat. No. 20051-ATO

Assay ≥ 99.5 %
 H₂O ≤ 0.05 %
 Non-volatile subst. ≤ 0.002 %
 SO₄ ≤ 0.00025 %
 SO₃ ≤ 0.001 %
 Fe ≤ 0.00001 %
 Pb ≤ 0.00001 %

Order number	Quantity
20051-ATO-M1000	1000 ml

Carboxymethylcellulose sodium salt

CAS: 9004-32-4
white, off-white to yellowish powder
soluble in water to the colloidal solution

Use: pharmaceutical productions, food industry

S: 22-24/25
RTECS: FJ5950000

pure low viscosity**Cat. No. 40082-CPX**

Loss on drying (110 °C) ≤ 15 %
pH (1 %, H₂O) 6.5–8
Viscosity of dry subst. (4 % in H₂O, 25 °C) 500–2500 mPa.s

Order number	Quantity
40082-CPX-G0500	500 g

pure high viscosity**Cat. No. 40082-CPY**

Loss on drying (110 °C) ≤ 15 %
pH (1 %, H₂O) 6.5–8
Viscosity of dry subst. (1 % in H₂O, 25 °C) 700–1500 mPa.s

Order number	Quantity
40082-CPY-G0500	500 g

pharm.**Cat. No. 40082-FP0**

Carmellosum natricum (Carboxymethylcellulosum natricum)

Order number	Quantity
40082-FP0-G0500	500 g

Cedar oil

CAS: 13393-93-6
EINECS: 236-476-3
1l–0.98 kg
clear, colourless to yellow viscous liquid
soluble in alcohol

Use: for microbiological purposes



R: 43-51/53
S: 2-24-37-46-61
RTECS: FJ1520050
UN 3082

ADR/RID 9/III

for microscopy**Cat. No. 40124-DT0**

n_D^{20} 1.515–1.520
 d_4^{20} 0.97–0.99

Order number	Quantity
40124-DT0-G0100	100 g

Cellulose microcrystalline

CAS: 9004-34-6
EINECS: 232-674-9
white or almost white fine or granular powder
insoluble in water and alcohol

Use: thin layer chromatography (TLC)

Cat. No. 40017-XP0

Particle size ~50 µm

Order number	Quantity
40017-XP0-G0250	250 g

Cerium(III) chloride heptahydrate

Cerous chloride heptahydrate
CeCl₃·7H₂O
M, 372.58
CAS: 18618-55-8
EINECS: 232-227-8
colourless crystals or white powder
readily soluble in water

Use: analytical reagent

S: 22-24/25
RTECS: FK5075000

G.R.**Cat. No. 30073-AP0**

Assay ≥ 99 %
SO₄ ≤ 0.005 %
Subst. insoluble in H₂O ≤ 0.05 %

Order number	Quantity
30073-AP0-G0500	500 g

Cerous chloride heptahydrate, see Cerium(III) chloride heptahydrate – page 43

Cesium chloride

CsCl
 M, 168.36
 CAS: 7647-17-8
 EINECS: 231-600-2
 melting point 646 °C
 boiling point 1382 °C
 colourless crystals or white powder
 readily soluble in water

Use: analytical reagent

S: 22-24/25
 RTECS: FK9625000

G.R.

Cat. No. 30074-AP0

Assay ≥ 98 %
 SO₄ ≤ 0.0005 %
 Heavy metals (as Pb) ≤ 0.0005 %
 Mg ≤ 0.0005 %
 Fe ≤ 0.0005 %

Order number	Quantity
30074-AP0-G0100	100 g

Cetyl alcohol

C₁₆H₃₄O
 CH₃(CH₂)₁₅OH
 M, 242.45
 CAS: 36653-82-4
 EINECS: 253-149-0
 melting point 47–49 °C
 boiling point 355 °C
 white oily mass or powder
 practically insoluble in water, soluble in alcohol

Use: pharmaceutical productions, production of cosmetics



R: 38
 S: 2-22-24/25-46
 RTECS: MM0225000

pure

Cat. No. 40019-CP0

Assay ~97 %
 Melting point 47–49 °C

Order number	Quantity
40019-CP0-G0500	500 g

pharm.

Cat. No. 40019-FP0

Alcohol cetylicus

Order number	Quantity
40019-FP0-G0100	100 g
40019-FP0-G0500	500 g

Cetylstearyl alcohol

CAS: 8005-44-5
 melting point 49–56 °C
 white or light yellow waxy mass
 practically insoluble in water, soluble in alcohol, ether

Use: pharmaceutical productions, production of cosmetics



R: 36/37/38
 S: 2-26-46

pharm.

Cat. No. 40176-FP0

Alcohol cetylstearylicus

Order number	Quantity
40176-FP0-G0500	500 g

Cetyltrimethylammonium bromide

$C_{19}H_{42}BrN$
 $[CH_3(CH_2)_{15}N^+(CH_3)_3]Br^-$
 M, 364.46
 CAS: 57-09-0
 EINECS: 200-311-3
 melting point > 237 °C
 white powder, hygroscopic
 easily soluble in water

Use: precipitant for nucleic acids and mucopoly-saccharides, surfactant – determination for cationic tensides



R: 22-37/38-41-50
 S: 2-26-36-46-60-61
 RTECS: BQ7875000
 UN 3077

ADR/RID 9/III

G.R.

Cat. No. 40018-ATO

Assay ≥ 99 %
 Melting point 248–251 °C

Order number	Quantity
40018-ATO-G0100	100 g
40018-ATO-G0500	500 g

pure

Cat. No. 40018-CTO

Assay ~98 %

Order number	Quantity
40018-CTO-G0100	100 g
40018-CTO-G0500	500 g

Chloral hydrate

Trichloroacetaldehyde hydrate
 $C_2H_3Cl_3O_2$
 $Cl_3CCH(OH)_2$
 M, 165.40
 CAS: 302-17-0
 EINECS: 206-117-5
 melting point 52–55 °C
 boiling point 97 °C
 colourless crystals or white powder,
 hygroscopic
 very readily soluble in water and alcohol

Use: medicine



R: 25-36/38
 S: 1/2-25-45
 RTECS: FM8750000
 UN 2811

ADR/RID 6.1/II

pure

Cat. No. 40078-CP0

Assay ≥ 98 %
 pH (10 %, H₂O) 3.5–5.5

Order number	Quantity
40078-CP0-G0250	250 g

Chloroacetic acid

$C_2H_3ClO_2$
 $ClCH_2COOH$
 M, 94.50
 CAS: 79-11-8
 EINECS: 201-178-4
 melting point 60–63 °C
 boiling point 189 °C
 colourless or light brownish melting
 crystals
 soluble in water and alcohol

Use: analytical reagent, e.g. for the determination of zircon, intermediate for the preparation of other organic compounds



R: 25-34-50
 S: 1/2-23-37-45-61
 RTECS: AF8575000
 UN 1751

ADR/RID 6.1/II

G.R.

Cat. No. 10044-AP0

Assay ≥ 99 %
 Ash ≤ 0.05 %
 Melting point 60–63 °C

Order number	Quantity
10044-AP0-G1000	1000 g

pure

Cat. No. 10044-CP0

Assay ≥ 97 %
 Ash ≤ 0.1 %
 Melting point 61–64 °C

Order number	Quantity
10044-CP0-G0500	500 g
10044-CP0-G1000	1000 g

Chlorobenzene

C₆H₅Cl
 M, 112.56
 CAS: 108-90-7
 EINECS: 203-628-5
 1l~1.10 kg
 melting point -45 °C
 boiling point 132 °C
 flash point 29 °C
 clear, colourless liquid
 soluble in alcohol and ether

Use: solvent, organic syntheses



R: 10-20-51/53
 S: 2-24/25-46-61
 RTECS: CZ0175000
 ADR/RID 3/III UN 1134

pure

Cat. No. 40079-CTO

Assay ≥ 98 %

Order number	Quantity
40079-CTO-M1000	1000 ml

Chloroform

Trichloromethane
 CHCl₃
 M, 119.38
 CAS: 67-66-3
 EINECS: 200-663-8
 1l~1.49 kg
 melting point -63 °C
 boiling point 61 °C
 clear, colourless liquid
 miscible with alcohol and ether

Use: solvent, e.g. for HPLC, organic syntheses, pharmaceutical productions



R: 22-38-40-48/20/22
 S: 2-36/37-46
 RTECS: FS9100000
 ADR/RID 6.1/III UN 1888

G.R. stabilized

Cat. No. 20034-AT1

Assay ≥ 99.5 %
 d₄²⁰ 1.486-1.494
 Distillation range 59.5-62 °C
 Non-volatile substances ≤ 0.001 %
 Free chlorine ≤ 0.00009 %
 Free acids (as HCl) ≤ 0.0015 %
 Cl ≤ 0.00015 %
 Stab. amylene < 55 ppm

Order number	Quantity
20034-AT1-M1000	1000 ml
20034-AT1-M5000	5000 ml

pure stabilized

Cat. No. 20034-CT1

Assay ≥ 99 %
 Distillation range 59-62 °C
 Non-volatile substances ≤ 0.001 %
 Free acids (as HCl) ≤ 0.002 %
 Cl ≤ 0.0002 %
 Stab. amylene < 55 ppm

Order number	Quantity
20034-CT1-M1000	1000 ml
20034-CT1-M5000	5000 ml

for HPLC stabilized

Cat. No. 20034-LT1

Assay ≥ 99.8 %
 Water ≤ 0.01 %
 Acidity (mEq./g) ≤ 0.0005
 Evaporation residue ≤ 0.0005 %
 UV transmission levels
 Wavelength Transmission
 250 nm ≥ 50 %
 260 nm ≥ 85 %
 270 nm ≥ 98 %
 280 nm ≥ 99 %
 Stab. amylene < 55 ppm

Order number	Quantity
20034-LT1-M2500	2500 ml

Chromium(III) chloride hexahydrate

CrCl₃·6H₂O
 M, 266.45
 CAS: 10060-12-5
 EINECS: 233-038-3
 melting point 83 °C
 boiling point 1300 °C
 dark green crystalline powder, hygroscopic
 soluble in water

Use: corrosion inhibitor



R: 22-36/37/38
 S: 2-26-36/37/39-46
 RTECS: GB5450000

G.R.

Cat. No. 30081-AP0

Assay ≥ 98 %
 SO₄ ≤ 0.05 %
 Fe ≤ 0.01 %
 Pb ≤ 0.005 %

Order number	Quantity
30081-AP0-G0100	100 g

Chromium(III) oxide

Cr₂O₃
 M, 151.99
 CAS: 1308-38-9
 EINECS: 215-160-9
 melting point 2435 °C
 boiling point 3000 °C
 green powder
 insoluble in water

Use: preparation of chromium, pigment

S: 22-24/25
 RTECS: GB6475000

pure

Cat. No. 30136-CP0

Assay ≥ 98 %

Order number	Quantity
30136-CP0-G0100	100 g
30136-CP0-G0500	500 g

Chromium(VI) oxide

CrO₃
 M, 99.99
 CAS: 1333-82-0
 EINECS: 215-607-8
 melting point 196 °C
 boiling point > 230 °C
 ruby crystals, hygroscopic
 soluble in water

Use: oxidizer for organic syntheses,
 hardening agent in microscopy



R: 45-46-9-24/25-26-35-42/43-48/23-50/53-62
 S: 1/2-53-45-60-61
 RTECS: GB6650000
 ADR/RID 5.1/II UN 1463

G.R.

Cat. No. 30137-AP0

Assay ≥ 99 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.1 %
 Subst. precipit. by NH₃ ≤ 0.02 %
 Subst. insoluble in H₂O ≤ 0.015 %

Order number	Quantity
30137-AP0-G0100	100 g

pure

Cat. No. 30137-CP0

Assay ≥ 99 %

Order number	Quantity
30137-CP0-G0500	500 g
30137-CP0-G1000	1000 g

Cinnamic acid

$C_9H_8O_2$
 $C_6H_5CH:CHCOOH$
 M, 148.16
 CAS: 140-10-3
 EINECS: 205-398-1
 melting point 131–136 °C
 boiling point 300 °C
 white or light beige crystalline powder
 easily soluble in alcohol

Use: production of esters



R: 36/37/38
 S: 2-26-36-46
 RTECS: GD7850000

pure

Cat. No. 10056-CPO

Assay ≥ 98 %

Order number	Quantity
10056-CPO-G0250	250 g

Citric acid anhydrous

$C_6H_8O_7$
 $HO(COOH)(CH_2COOH)_2$
 M, 192.13
 CAS: 77-92-9
 EINECS: 201-069-1
 melting point 153 °C
 colourless crystals or white powder
 very readily soluble in water, readily
 soluble in alcohol

Use: preparation of buffers, masking agent
 for some metals, preparation of citrates,
 antioxidant, anti-coagulant, pharmaceuti-
 cal productions



R: 36/37/38
 S: 2-22-24/25-46
 RTECS: GE7350000

G.R.

Cat. No. 10019-AP0

Assay ≥ 99.5 %
 Sulfated ash ≤ 0.02 %
 Cl ≤ 0.0005 %
 SO₄ ≤ 0.002 %
 C₂O₄ ≤ 0.05 %

Order number	Quantity
10019-AP0-G0500	500 g
10019-AP0-G1000	1000 g

pure

Cat. No. 10019-CPO

Assay ≥ 98.5 %
 Sulfated ash ≤ 0.05 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.01 %

Order number	Quantity
10019-CPO-G1000	1000 g

pharm.

Cat. No. 10019-FPO

Acidum citricum

Order number	Quantity
10019-FPO-G1000	1000 g

Citric acid monohydrate

$C_6H_8O_7 \cdot H_2O$
 $HO(COOH)(CH_2COOH)_2 \cdot H_2O$
 M, 210.14
 CAS: 5949-29-1
 EINECS: 201-069-1
 melting point > 100 °C
 boiling point 135–153 °C
 colourless crystals or white powder
 very readily soluble in water, readily
 soluble in alcohol

Use: analytical reagent, e.g. masking
 agent for some metals, preparation of
 buffers, food industry, pharmaceutical
 productions



R: 36/37/38
 S: 2-22-24/25-46
 RTECS: GE7350000

G.R.

Cat. No. 10020-AP0

Assay ≥ 99.8 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Sulfated ash ≤ 0.01 %
 Cl ≤ 0.001 %
 SO₄ ≤ 0.002 %
 C₂O₄ ≤ 0.05 %

Order number	Quantity
10020-AP0-G0500	500 g
10020-AP0-G1000	1000 g

pure

Cat. No. 10020-CPO

Assay ≥ 99.5 %
 Subst. insoluble in H₂O ≤ 0.01 %
 Sulfated ash ≤ 0.02 %
 Cl ≤ 0.002 %
 SO₄ ≤ 0.01 %

Order number	Quantity
10020-CPO-G0500	500 g
10020-CPO-G1000	1000 g

pharm.

Cat. No. 10020-FPO

Acidum citricum monohydricum

Order number	Quantity
10020-FPO-G1000	1000 g

Coal filter material FU-1

black powder
insoluble in water

Use: filtration material for multistage filtration

Cat. No. 40033-BPO

Particle size 1–2 mm
Loss on drying (at 120 °C) ≤11.5 %

Order number	Quantity
40033-BPO-G0500	500 g

Cobalt(II) acetate tetrahydrate

Cobaltous acetate tetrahydrate

$C_4H_6CoO_4 \cdot 4H_2O$
 $(CH_3COO)_2Co \cdot 4H_2O$

M_r 249.09

CAS: 6147-53-1

EINECS: 200-755-8

melting point 140 °C

red-violet crystals

easily soluble in water and alcohol

Use: oxidation and esterification catalyst



R: 22-40-42/43

S: 2-22-36/37-46

RTECS: AG3325000

G.R.**Cat. No. 40116-AP0**

Assay ≥99 %
Cl ≤0.005 %
 SO_4 ≤0.005 %
Fe ≤0.005 %

Order number	Quantity
40116-AP0-G0500	500 g

pure**Cat. No. 40116-CP0**

Assay ≥99 %
Fe ≤0.01 %
Cl ≤0.005 %
 SO_4 ≤0.05 %

Order number	Quantity
40116-CP0-G0500	500 g

Cobalt(II) chloride hexahydrate

Cobaltous chloride hexahydrate

$CoCl_2 \cdot 6H_2O$

M_r 237.93

CAS: 7791-13-1

EINECS: 231-589-4

melting point 56 °C

boiling point 110 °C

red to red-violet crystals, hygroscopic

soluble in water

Use: analytical reagent, e.g. preparation of colour APHA standards, preparation of Ziegler catalyst



R: 49-22-42/43-50/53

S: 1/2-53-45-22-60-61

RTECS: GG0200000

ADR/RID 6.1/III

UN 3288

G.R.**Cat. No. 30084-AP0**

Assay ≥99 %
 SO_4 ≤0.005 %
Subst. insoluble in H_2O ≤0.01 %

Order number	Quantity
30084-AP0-G0500	500 g

pure**Cat. No. 30084-CP0**

Assay ≥98 %

Order number	Quantity
30084-CP0-G0500	500 g

Cobalt(II) nitrate hexahydrate

Cobaltous nitrate hexahydrate

$Co(NO_3)_2 \cdot 6H_2O$

M_r 291.03

CAS: 10026-22-9

EINECS: 233-402-1

melting point 56 °C

red-brown crystals

easily soluble in water

G.R.**Cat. No. 30033-AP0**

Assay ≥99 %
Subst. insoluble in H_2O ≤0.01 %
Cl ≤0.005 %
 SO_4 ≤0.01 %
Ni ≤0.1 %
 NH_4 ≤0.05 %

Order number	Quantity
30033-AP0-G0500	500 g

Cobalt(II)

Cobalt(II) nitrate hexahydrate

Use: analytical reagent, catalyst, colouring of porcelain



R: 8-22-40-43-50/53
S: 2-17-36/37-46-60-61
RTECS: QU7355500
ADR/RID 5.1/II UN 1477

Cobalt(II) sulfate heptahydrate

Cobaltous sulfate heptahydrate
 $\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$
M, 281.10
CAS: 10026-24-1
EINECS: 233-334-2
melting point 98 °C
boiling point 420 °C
red to red-brown crystals, hygroscopic
easily soluble in water

Use: analytical reagent



R: 49-22-42/43-50/53
S: 1/2-53-45-22-60-61
RTECS: GG3200000
UN 3077
ADR/RID 9/III

G.R.

Cat. No. 30178-AP0

Assay ≥ 99 %
Subst. insoluble in H_2O ≤ 0.01 %
Cl ≤ 0.003 %
Fe ≤ 0.01 %
Cu ≤ 0.005 %

Order number	Quantity
30178-AP0-G0100	100 g
30178-AP0-G0500	500 g

pure

Cat. No. 30178-CP0

Assay ≥ 97 %
Cl ≤ 0.05 %
Fe ≤ 0.05 %

Order number	Quantity
30178-CP0-G0500	500 g

Cobaltous acetate tetrahydrate, see Cobalt(II) acetate tetrahydrate – page 49

Cobaltous chloride hexahydrate, see Cobalt(II) chloride hexahydrate – page 49

Cobaltous nitrate hexahydrate, see Cobalt(II) nitrate hexahydrate – page 49

Cobaltous sulfate heptahydrate, see Cobalt(II) sulfate heptahydrate – page 50

Complexone I, see Nitrilotriacetic acid – page 123

Complexone II, see Ethylenediaminetetraacetic acid – page 72

Complexone III, see Ethylenediaminetetraacetic acid disodium salt dihydrate – page 72

Congo Red

$\text{C}_{32}\text{H}_{22}\text{N}_6\text{O}_6\text{S}_2\text{Na}_2$
(1-NH₂C₁₀H₅-4-SO₃Na-2-N:N-C₆H₄-4)₂
M, 696.68
CAS: 573-58-0
EINECS: 209-358-4
melting point > 360 °C
red-brown powder
soluble in water, easily soluble in alcohol

Use: acid-base indicator



R: 45-63
S: 1/2-53-45
RTECS: QK1400000
UN 2811
ADR/RID 6.1/III

indicator

Cat. No. 40021-IP0

Order number	Quantity
40021-IP0-G0010	10 g

Copper(II) acetate monohydrate

Cupric acetate monohydrate

 $C_4H_6CuO_4 \cdot H_2O$ $(CH_3COO)_2Cu \cdot H_2O$

M, 199.65

CAS: 6046-93-1

EINECS: 205-553-3

melting point 115 °C

boiling point 240 °C

blue-green crystalline powder

easily soluble in water

Use: analytical reagent, chemical industry, preparation of Fehling's reagent for sugar analysis



R: 22-36/37/38-50/53

S: 2-26-36/37/39-46-60-61

RTECS: AG3500000

UN 3077

ADR/RID 9/III

G.R.

Cat. No. 40117-AP0

Assay $\geq 99\%$
 Cl $\leq 0.005\%$
 SO₄ $\leq 0.01\%$
 Fe $\leq 0.005\%$
 Pb $\leq 0.005\%$

Order number	Quantity
40117-AP0-G0500	500 g

Copper(I) chloride

Cuprous chloride

CuCl

M, 98.99

CAS: 7758-89-6

EINECS: 231-842-9

melting point 430 °C

boiling point 1490 °C

off-white or grey-green powder

insoluble in water, soluble in acids

Use: analytical reagent, organic syntheses, absorption of CO₂, detection of arsine and stibine



R: 22-50/53

S: 2-22-46-60-61

RTECS: GL6990000

UN 3260

ADR/RID 8/III

G.R.

Cat. No. 30089-AP0

Assay $\geq 97\%$
 SO₄ $\leq 0.05\%$
 Fe $\leq 0.005\%$
 As $\leq 0.0001\%$

Order number	Quantity
30089-AP0-G0100	100 g

Copper(II) chloride dihydrate

Cupric chloride dihydrate

CuCl₂·2H₂O

M, 170.48

CAS: 10125-13-0

EINECS: 231-210-2

melting point 100 °C

boiling point 993 °C

blue or blue-green crystals, hygroscopic

readily soluble in water

Use: analytical reagent, isomerization and cracking catalyst, medicine



R: 22-36/37/38-50/53

S: 2-26-36/37/39-46-60-61

RTECS: GL7030000

UN 2802

ADR/RID 8/III

G.R.

Cat. No. 30088-AP0

Assay $\geq 99\%$
 pH (5%, H₂O) 3–3.8
 SO₄ $\leq 0.005\%$
 Fe $\leq 0.001\%$

Order number	Quantity
30088-AP0-G1000	1000 g

pure

Cat. No. 30088-CP0

Assay $\geq 98\%$

Order number	Quantity
30088-CP0-G0500	500 g
30088-CP0-G1000	1000 g

Copper(II) nitrate trihydrate

Cupric nitrate trihydrate
 $\text{Cu}(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$
 M, 241.60
 CAS: 10031-43-3
 EINECS: 221-838-5
 melting point 114 °C
 boiling point 170 °C (decomposition)
 blue crystals, hygroscopic
 easily soluble in water

Use: analytical reagent, catalyst, colouring
 of ceramic and porcelain



R: 8-22-36/38
 S: 2-17-26-36/37/39-46
 RTECS: GL7875000
 UN 1477

ADR/RID 5.1/II

G.R.

Cat. No. 30036-APO

Assay ≥ 98 %
 Cl ≤ 0.005 %
 SO_4 ≤ 0.005 %
 Subst. insoluble in H_2O ≤ 0.01 %

Order number	Quantity
30036-APO-G0500	500 g

pure

Cat. No. 30036-CPO

Assay ≥ 97 %

Order number	Quantity
30036-CPO-G0500	500 g

Copper(I) oxide

Cuprous oxide
 Cu_2O
 M, 143.08
 CAS: 1317-39-1
 EINECS: 215-270-7
 melting point 1232 °C
 boiling point 1800 °C
 red or red-brown powder
 insoluble in water

Use: organic syntheses



R: 22-50/53
 S: 2-22-46-60-61
 RTECS: GL8050000

pure

Cat. No. 30144-CPO

Assay of Cu ≥ 86 %
 Fe ≤ 0.01 %
 Ag ≤ 0.005 %
 Ni ≤ 0.005 %

Order number	Quantity
30144-CPO-G0100	100 g

Copper(II) oxide

Cupric oxide
 CuO
 M, 79.54
 CAS: 1317-38-0
 EINECS: 215-269-1
 melting point 1326 °C
 black powder
 insoluble in water

Use: organic syntheses, e.g. decarboxylation, oxidation catalyst



R: 20/22
 S: 2-24/25-46
 RTECS: GL7900000

puriss ACS

Cat. No. 30143-EPO

Assay ≥ 99 %
 Total N ≤ 0.002 %
 Insoluble matter in HCl ≤ 0.02 %
 Cl ≤ 0.005 %
 SO_4 ≤ 0.02 %
 Fe ≤ 0.05 %
 Ca ≤ 0.01 %
 K ≤ 0.02 %
 Na ≤ 0.05 %
 Carbon compounds (as C) ≤ 0.01 %

Order number	Quantity
30143-EPO-G0025	25 g
30143-EPO-G0250	250 g

Copper(II) oxide

G.R.

Cat. No. 30143-AP0

Assay	≥ 99 %
Subst. insoluble in HCl	≤ 0.02 %
Subst. not precipit. by H ₂ S (as SO ₄)	≤ 0.2 %
Total S (as SO ₄)	≤ 0.01 %
Total N	≤ 0.002 %
Cl	≤ 0.005 %
Fe	≤ 0.05 %
Pb	≤ 0.05 %

Order number	Quantity
30143-AP0-G0500	500 g
30143-AP0-G1000	1000 g

pure

Cat. No. 30143-CP0

Assay	≥ 97 %
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Order number	Quantity
30143-CP0-G1000	1000 g

Copper(II) sulfate anhydrous

Cupric sulfate anhydrous

CuSO₄

M, 159.60

CAS: 7758-98-7

EINECS: 231-847-6

melting point 200 °C

white to grey-green powder, hygroscopic

easily soluble in water

Use: evidence of moisture in organic solvents, desiccant



R: 22-36/38-50/53

S: 2-22-46-60-61

RTECS: GL8800000

UN 3077

ADR/RID 9/III

G.R.

Cat. No. 30181-AP0

Assay	≥ 99 %
Loss on drying (at 250 °C)	≤ 0.5 %
Subst. not precipit. by H ₂ S (as SO ₄)	≤ 0.2 %
Total N	≤ 0.005 %
Cl	≤ 0.002 %
Fe	≤ 0.005 %

Order number	Quantity
30181-AP0-G1000	1000 g

pure

Cat. No. 30181-CP0

Assay	≥ 98 %
Loss on drying (at 250 °C)	≤ 2 %

Order number	Quantity
30181-CP0-G1000	1000 g

Copper(II) sulfate pentahydrate

Cupric sulfate pentahydrate

CuSO₄·5H₂O

M, 249.68

CAS: 7758-99-8

EINECS: 231-847-6

melting point 200 °C

blue crystals

easily soluble in water

Use: analytical reagent, e.g. determination of dextrose, proteins, pharmaceutical productions



R: 22-36/38-50/53

S: 2-22-46-60-61

RTECS: GL8900000

UN 3077

ADR/RID 9/III

G.R.

Cat. No. 30182-AP0

Assay	≥ 99 %
Subst. insoluble in H ₂ O	≤ 0.005 %
Total N	≤ 0.004 %
Cl	≤ 0.001 %
Fe	≤ 0.01 %
Subst. not precipit. by H ₂ S (as SO ₄)	≤ 0.1 %

Order number	Quantity
30182-AP0-G0500	500 g
30182-AP0-G1000	1000 g

pure

Cat. No. 30182-CP0

Assay	≥ 99 %
Subst. insoluble in H ₂ O	≤ 0.01 %
Cl	≤ 0.01 %
Fe	≤ 0.03 %
Subst. not precipit. by H ₂ S (as SO ₄)	≤ 0.2 %

Order number	Quantity
30182-CP0-G0500	500 g
30182-CP0-G1000	1000 g

pharm.

Cat. No. 30182-FP0

Cupri sulfas pentahydricus

Order number	Quantity
30182-FP0-G1000	1000 g

m-Cresol

C₇H₈O
 M, 108.14
 CAS: 108-39-4
 EINECS: 203-577-9
 1l~1.03 kg
 melting point 11–12 °C
 boiling point 202–203 °C
 colourless, yellow or pink liquid
 slightly miscible with water

Use: disinfecting agent



R: 24/25-34
 S: 1/2-36/37/39-45
 RTECS: G06125000

ADR/RID 6.1/II UN 2076

pure

Cat. No. 40084-CTO

Assay ~98 %
 n_D²⁰ 1.535–1.545

Order number	Quantity
40084-CTO-M1000	1000 ml

o-Cresol

C₇H₈O
 M, 108.14
 CAS: 95-48-7
 EINECS: 202-423-8
 1l~1.04 kg
 melting point 30–34 °C
 boiling point 191–192 °C
 crystals or liquid, tends to darken in the air
 miscible with alcohol and ether

Use: disinfecting agent



R: 24/25-34
 S: 1/2-36/37/39-45
 RTECS: G06300000

ADR/RID 6.1/II UN 2076

pure

Cat. No. 40085-CTO

Assay ~98 %

Order number	Quantity
40085-CTO-M1000	1000 ml

Crystal Violet

C₂₅H₃₀ClN₃
 [4-(CH₃)₂NC₆H₄]₂C₆H₄-4-:N(Cl)(CH₃)₂
 M, 407.99
 CAS: 548-62-9
 EINECS: 208-953-6
 melting point 189–215 °C
 dark green powder or crystals
 easily soluble in water and alcohol

Use: laboratory reagent, e.g. for microbiological purposes, indicator for copper salts



R: 22-40-41-50/53
 S: 2-26-36/37/39-46-60-61
 RTECS: B09000000

ADR/RID 9/III UN 3077

for microscopy
Cat. No. 40170-DPO

Order number	Quantity
40170-DPO-G0010	10 g
40170-DPO-G0025	25 g
40170-DPO-G0100	100 g

Cupric acetate monohydrate, see Copper(II) acetate monohydrate – page 51

Cupric chloride dihydrate, see Copper(II) chloride dihydrate – page 51

Cupric nitrate trihydrate, see Copper(II) nitrate trihydrate – page 52

Cupric oxide, see Copper(II) oxide – page 52

Cupric sulfate anhydrous, see Copper(II) sulfate anhydrous – page 53

Cupric sulfate pentahydrate, see Copper(II) sulfate pentahydrate – page 53

Cuprizon

Bis(cyclohexanone)oxaldihydrazone

$C_{14}H_{22}N_4O_2$

$C_6H_{10}:NNHCOCONHN:C_6H_{10}$

M_r 278.36

CAS: 370-81-0

EINECS: 206-729-2

melting point 210–214 °C

white powder

easily soluble in alcohol

Use: analytical reagent (spectrophotometric determination of Cu^{2+})

S: 22-24/25

RTECS: R02520000

G.R.

Cat. No. 40086-AP0

Sulfated ash ≤ 0.1 %

Loss on drying (at 105–110 °C) ≤ 0.5 %

Sensitivity to Cu passes test

Order number	Quantity
40086-AP0-G0025	25 g

Cuprone

α-Benzoin oxime

$C_{14}H_{13}NO_2$

$C_6H_5CH(OH)C(:NOH)C_6H_5$

M_r 227.27

CAS: 441-38-3

EINECS: 207-127-2

melting point 154–156 °C

white or light yellow crystalline powder

slightly soluble in alcohol

Use: analytical reagent for the determination of copper, molybdenum, palladium, platinum, rhodium, vanadium, tungsten

S: 22-24/25

RTECS: DI1750000

G.R.

Cat. No. 40087-AP0

Melting point 154–156 °C

Order number	Quantity
40087-AP0-G0025	25 g

Cuprous chloride, see Copper(I) chloride – page 51

Cuprous oxide, see Copper(I) oxide – page 52

Cyclohexane

C_6H_{12}

$CH_2(CH_2)_4CH_2$

M_r 84.16

CAS: 110-82-7

EINECS: 203-806-2

1l~0.78 kg

melting point 6 °C

boiling point 80 °C

flash point –18 °C

clear, colourless liquid

insoluble in water, soluble in organic solvents

G.R.

Cat. No. 20014-AT0

Assay ≥ 99 %

H_2O (K.F.) ≤ 0.02 %

Non-volatile substances ≤ 0.005 %

Free acids (as CH_3COOH) ≤ 0.001 %

pure

Cat. No. 20014-CT0

Assay ≥ 98 %

Order number	Quantity
20014-AT0-M1000	1000 ml

Order number	Quantity
20014-CT0-M1000	1000 ml

Cyclohexane

Cyclohexane

Use: solvent, e.g. for spectrophotometric measurements in UV region, HPLC, analysis residual of pesticides



R: 11-38-50/53-65-67
S: 2-9-16-25-33-60-61-62
RTECS: GU6300000
ADR/RID 3/II UN 1145

for UV spectroscopy

Cat. No. 20014-UTO

Assay	≥ 99.5 %
Water	≤ 0.01 %
Evaporation residue	≤ 0.0005 %
UV transmission levels	
Wavelength	Transmission
220 nm	≥ 50 %
230 nm	≥ 80 %
240 nm	≥ 90 %
250 nm	≥ 98 %

Order number	Quantity
20014-UTO-M2500	2500 ml

for HPLC

Cat. No. 20014-LTO

Assay	≥ 99.5 %
Water	≤ 0.01 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
UV transmission levels	
Wavelength	Transmission
210 nm	≥ 60 %
220 nm	≥ 80 %
230 nm	≥ 95 %
240 nm	≥ 98 %
250 nm	≥ 99 %

Order number	Quantity
20014-LTO-M2500	2500 ml

for pesticide residue analysis

Cat. No. 20014-RTO

Assay	≥ 99.5 %
Water	≤ 0.02 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
Halogenated residue	≤ 5 ng/l

Order number	Quantity
20014-RTO-M2500	2500 ml

Cyclohexanol

$C_6H_{12}O$
 $CH_2(CH_2)_4CHOH$
M, 100.16
CAS: 108-93-0
EINECS: 203-630-6
1l~0.94 kg
melting point 24 °C
boiling point 161 °C
clear, colourless liquid or acicular crystals,
hygroscopic
slightly soluble in water, miscible with
alcohol and ether

Use: analytical reagent, e.g. for the determination of molybdenum, bismuth, rhenium, solvent, organic syntheses



ADR/RID 3/II

R: 20/22-37/38
S: 2-24/25-46
RTECS: GV7875000
UN 1987

G.R.

Cat. No. 20015-ATO

Assay	≥ 99 %
Cyclohexanone	≤ 0.5 %

Order number	Quantity
20015-ATO-M1000	1000 ml

pure

Cat. No. 20015-CTO

Assay	≥ 98 %
Cyclohexanone	≤ 1 %

Order number	Quantity
20015-CTO-M1000	1000 ml

Cyclohexanone

$C_6H_{10}O$
 $CH_2(CH_2)_4CO$
 $M, 98.15$
 CAS: 108-94-1
 EINECS: 203-631-1
 $1l \sim 0.95 \text{ kg}$
 melting point $-31^\circ C$
 boiling point $155^\circ C$
 flash point $44^\circ C$
 clear, colourless to light yellow liquid
 slightly soluble in water, soluble in alcohol
 and ether

Use: solvent, analytical reagent, e.g. for the determination of bismuth, organic syntheses



ADR/RID 3/III

R: 10-20
 S: 2-25-46
 RTECS: GW1050000
 UN 1915

G.R.**Cat. No. 20016-ATO**

Assay $\geq 99\%$
 Non-volatile substances $\leq 0.05\%$
 H_2O $\leq 0.5\%$

Order number	Quantity
20016-ATO-M1000	1000 ml

pure**Cat. No. 20016-CTO**

Assay $\geq 98\%$
 n_D^{20} 1.449–1.452

Order number	Quantity
20016-CTO-M1000	1000 ml

Diacetone alcohol

$C_6H_{12}O_2$
 $(CH_3)_2C(OH)CH_2COCH_3$
 M, 116.16
 CAS: 123-42-2
 EINECS: 204-626-7
 1l~0.94 kg
 melting point $-47\text{ }^\circ\text{C}$
 boiling point $166\text{ }^\circ\text{C}$
 clear, colourless liquid
 easily soluble in water and alcohol

Use: solvent, pharmaceutical productions



R: 36
 S: 2-24/25-46
 RTECS: SA9100000
 UN 1148

ADR/RID 3/III

pure

Cat. No. 40024-CTO

Assay $\geq 95\%$
 n_D^{20} 1.423–1.424

Order number	Quantity
40024-CTO-M1000	1000 ml

1,2-Diaminocyclohexane-N,N',N'-tetraacetic acid monohydrate

$C_{14}H_{22}N_2O_8 \cdot H_2O$
 $(HOOCCH_2)_2NCH(CH_2)_4CHN(CH_2COOH)_2$
 M, 364.35
 CAS: 13291-61-7
 EINECS: 236-308-9
 melting point $> 210\text{ }^\circ\text{C}$
 colourless crystals or white powder
 slightly soluble in water

Use: chelating agent, production of cosmetics



R: 36/37/38
 S: 2-26-36-46
 RTECS: AG5000000

G.R.

Cat. No. 40071-APO

Assay $\geq 99\%$
 Sulfated ash $\leq 0.2\%$

Order number	Quantity
40071-APO-G0100	100 g

Dibutyl phthalate

DBP
 $C_{16}H_{22}O_4$
 $C_6H_4[COO(CH_2)_3CH_3]_2$
 M, 278.35
 CAS: 84-74-2
 EINECS: 201-557-4
 1l~1.05 kg
 melting point $-35\text{ }^\circ\text{C}$
 boiling point $340\text{ }^\circ\text{C}$
 clear, colourless or light yellow oily liquid
 insoluble in water, miscible with alcohol
 and ether

pure

Cat. No. 40025-CTO

Assay $\geq 98\%$

Order number	Quantity
40025-CTO-M1000	1000 ml

Dibutyl phthalate

Use: organic syntheses, solvent, production of cosmetics



R: 61-50-62
S: 1/2-53-45-61
RTECS: T10875000
UN 3082

ADR/RID 9/III

1,2-Dichloroethane

$C_2H_4Cl_2$
 $ClCH_2CH_2Cl$
 M_r 98.96
CAS: 107-06-2
EINECS: 203-458-1
1l~1.25 kg

melting point $-36\text{ }^\circ\text{C}$
boiling point $84\text{ }^\circ\text{C}$
flash point $13\text{ }^\circ\text{C}$
clear, colourless liquid
soluble in alcohol, chloroform and ether

Use: analytical reagent, solvent



R: 45-11-22-36/37/38
S: 1/2-53-45
RTECS: KJ0525000
UN 1184

ADR/RID 3/II

G.R.**Cat. No. 20019-AT0**

Assay $\geq 99\%$
 H_2O (K.F.) $\leq 0.1\%$
Free acids (as HCl) $\leq 0.002\%$

Order number	Quantity
20019-AT0-M1000	1000 ml

pure**Cat. No. 20019-CT0**

Assay $\geq 98\%$

Order number	Quantity
20019-CT0-M1000	1000 ml

Dichloromethane

CH_2Cl_2
 M_r 84.93
CAS: 75-09-2
EINECS: 200-838-9
1l~1.32 kg

melting point $-97\text{ }^\circ\text{C}$
boiling point $40\text{ }^\circ\text{C}$
clear, colourless liquid
slightly soluble in water, miscible with alcohol and ether

Use: analytical reagent, solvent, e.g. for HPLC, analysis residual of pesticides



R: 40
S: 2-23-24/25-36/37-46
RTECS: PA8050000
UN 1593

ADR/RID 6.1/III

puriss ACS stabilized**Cat. No. 20020-ET1**

Assay $\geq 99.5\%$
Color ≤ 10 APHA
 H_2O (K.F.) $\leq 0.02\%$
Non-volatile substances $\leq 0.002\%$
Free halogens passes test
Acidity ≤ 0.0003 mEq/g
Stab. with amylene max. 60 ppm

Order number	Quantity
20020-ET1-M0500	500 ml
20020-ET1-M1000	1000 ml

G.R. stabilized**Cat. No. 20020-AT1**

Assay $\geq 99.5\%$
 H_2O (K.F.) $\leq 0.05\%$
Non-volatile substances $\leq 0.002\%$
Free acids (as HCl) $\leq 0.001\%$
Stab. with amylene max. 60 ppm

Order number	Quantity
20020-AT1-M1000	1000 ml

pure stabilized**Cat. No. 20020-CT1**

Assay $\geq 99\%$
 H_2O (K.F.) $\leq 0.05\%$
Free acids (as HCl) $\leq 0.001\%$
Stab. with amylene max. 60 ppm

Order number	Quantity
20020-CT1-M1000	1000 ml

Dichloromethane

D

for HPLC stabilized

Cat. No. 20020-LT1

Assay	≥ 99.8 %
Water	≤ 0.01 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
UV transmission levels	
Wavelength	Transmission
235 nm	≥ 40 %
240 nm	≥ 75 %
250 nm	≥ 98 %
260 nm	≥ 99 %
Stab. with about 50 ppm amylene	

Order number	Quantity
20020-LT1-M2500	2500 ml

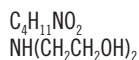
for pesticide residue analysis stabilized

Cat. No. 20020-RT1

Assay	≥ 99.8 %
Water	≤ 0.05 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
Halogenated residue	≤ 5 ng/l
Stab. with about 50 ppm amylene	

Order number	Quantity
20020-RT1-M2500	2500 ml

Diethanolamine



M, 105.14

CAS: 111-42-2

EINECS: 203-868-0

1l~1.09 kg

melting point 27 °C

boiling point 269–271 °C

clear, viscous liquid or melting crystals,

hygroscopic

easily soluble in water and alcohol

Use: preparation of buffers, emulsifying and dispersing agent in cosmetics and pharmaceutical industry



R: 22-38-41-48/22

S: 2-26-36/37/39-46

RTECS: KL2975000

pure

Cat. No. 40026-CP0

Assay	≥ 97 %
H ₂ O (K.F.)	≤ 0.5 %

Order number	Quantity
40026-CP0-M1000	1000 ml

Diethylamine



M, 73.14

CAS: 109-89-7

EINECS: 203-716-3

1l~0.70 kg

melting point -39 °C

boiling point 56 °C

flash point -36 °C

clear, colourless liquid

miscible with water and alcohol

G.R.

Cat. No. 40027-AT0

Assay	≥ 99 %
H ₂ O	≤ 0.3 %
Non-volatile substances	≤ 0.001 %

Order number	Quantity
40027-AT0-M1000	1000 ml

Diethylamine

Use: analytical reagent, preparation of buffers



R: 11-20/21/22-35
S: 1/2-3-16-26-29-36/37/39-45
RTECS: HZ8750000
UN 1154

ADR/RID 3/I

Diethylene glycol

$C_4H_{10}O_3$
($HOCH_2CH_2$)₂O
M, 106.12
CAS: 111-46-6
EINECS: 203-872-2
1l~1.11 kg
melting point -6 °C
boiling point 244 °C
clear, colourless liquid, hygroscopic
miscible with water, alcohol and ether

Use: analytical reagent, polar solvent for organic syntheses



R: 22
S: 2-46
RTECS: ID5950000

pure

Cat. No. 20017-CT0

Assay ≥ 95 %
 n_D^{20} 1.446–1.448

Order number	Quantity
20017-CT0-M1000	1000 ml

Diethyl ether

Ethyl ether; Ether

$C_4H_{10}O$
(C_2H_5)₂O
M, 74.12
CAS: 60-29-7
EINECS: 200-467-2
1l~0.71 kg
melting point -117 °C
boiling point 35 °C
flash point -40 °C
spec. stor. cond. < 15 °C
clear, colourless liquid
miscible with alcohol, easily soluble in water, hygroscopic

Use: solvent, e.g. for analysis residual of pesticides, organic syntheses, pharmaceutical productions



R: 12-19-22-66-67
S: 2-9-16-29-33-46
RTECS: KI5775000
UN 1155

ADR/RID 3/I

puriss ACS stabilized

Cat. No. 20018-ET4

Assay ≥ 99 %
Color ≤ 10 APHA
 H_2O (K.F.) ≤ 0.03 %
Peroxides (as H_2O_2) ≤ 0.0001 %
Non-volatile substances ≤ 0.001 %
Acidity ≤ 0.0002 mEq/g
Carbonyl compounds (as CH_2O) ≤ 0.001 %
Ethanol passes test
Stab. cca 10 ppm BHT

Order number	Quantity
20018-ET4-G0500	500 g
20018-ET4-G2500	2500 g

G.R. nonstabilized

Cat. No. 20018-AT0

Assay ≥ 99 %
 d_4^{20} 0.7135–0.7145
Acidity (as CH_3COOH) ≤ 0.0002 %
Non-volatile substances ≤ 0.001 %
Ethanol ≤ 0.1 %
Methanol ≤ 0.02 %
 H_2O (K.F.) ≤ 0.15 %

Order number	Quantity
20018-AT0-M1000	1000 ml

G.R. stabilized**Cat. No. 20018-AT3**

Assay	≥ 99 %
Acids	passes test
d_4^{20}	0.714–0.716
Distillation range	34.0–35.0 °C
Non-volatile substances	≤ 0.002 %
Subs. with foreign odour	passes test
Carbonyl compounds	passes test
Peroxides	passes test
H ₂ O (K.F.)	≤ 0.2 %
Stab. with about 0.001 % phenidone	

Order number	Quantity
20018-AT3-M1000	1000 ml

pharm. stabilized**Cat. No. 20018-FT3**

Ether solvens
Stab. with about 0.001 % phenidone

Order number	Quantity
20018-FT3-M1000	1000 ml

for pesticide residue analysis stabilized**Cat. No. 20018-RT2**

Assay	≥ 99.5 %
Water	≤ 0.1 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
Halogenated residue	≤ 5 ng/l
Stab. with about 1 % ethanol	

Order number	Quantity
20018-RT2-M2500	2500 ml

4-(Dimethylamino)benzaldehyde

C₉H₁₁NO
(CH₃)₂NC₆H₄CHO
M, 149.19
CAS: 100-10-7
EINECS: 202-819-0
melting point 72–74 °C
boiling point 176–177 °C (at 2.3 kPa)
white, yellow-white or pinkish crystals
easily soluble in alcohol and in diluted acids

Use: determination of amino acids, peptides, amines, indoles and other nitrogen compounds, organic syntheses



R: 22-36/37/38
S: 2-26-36-46
RTECS: CU5775000

G.R.**Cat. No. 40034-AP0**

Assay	~99 %
Melting point	72–74 °C
Sulfated ash	≤ 0.1 %

Order number	Quantity
40034-AP0-G0050	50 g
40034-AP0-G0100	100 g
40034-AP0-G0500	500 g

pure**Cat. No. 40034-CP0**

Assay	~98 %
Melting point	70–74 °C

Order number	Quantity
40034-CP0-G0500	500 g

N,N-Dimethylaniline

$C_8H_{11}N$
 $C_6H_5N(CH_3)_2$
 M_r 121.18
 CAS: 121-69-7
 EINECS: 204-493-5
 1l~0.96 kg
 melting point 3 °C
 boiling point 192–195 °C
 flash point 61 °C
 clear, colourless to yellow oily liquid,
 darkens with storage
 miscible with alcohol and ether

Use: solvent, acylation reagent



R: 23/24/25-40-51/53
 S: 1/2-28-36/37-45-61
 RTECS: BX4725000
 UN 2253

ADR/RID 6.1/II

pure

Cat. No. 40035-CTO

Assay ≥ 98 %
 n_D^{20} 1.557–1.559

Order number	Quantity
40035-CTO-M1000	1000 ml

N,N-Dimethylformamide

C_3H_7NO
 $HCON(CH_3)_2$
 M_r 73.10
 CAS: 68-12-2
 EINECS: 200-679-5
 1l~0.95 kg
 melting point –61 °C
 boiling point 153 °C
 clear, colourless to light yellowish liquid,
 hygroscopic
 miscible with water and alcohol

Use: reductant, solvent



R: 61-20/21-36
 S: 1/2-53-45
 RTECS: LQ2100000
 UN 2265

ADR/RID 3/III

puriss ACS

Cat. No. 20021-ETO

Assay ≥ 99.8 %
 Color ≤ 15 APHA
 H_2O (K.F.) ≤ 0.15 %
 Non-volatile substances ≤ 0.005 %
 Alkalinity ≤ 0.003 mEq/g
 Acidity ≤ 0.0005 mEq/g

Order number	Quantity
20021-ETO-M0500	500 ml
20021-ETO-M1000	1000 ml

pure

Cat. No. 20021-CTO

Assay ≥ 98 %

Order number	Quantity
20021-CTO-M1000	1000 ml

Dimethylglyoxime

$C_4H_8N_2O_2$
 $CH_3C(:NOH)C(:NOH)CH_3$
 M_r 116.12
 CAS: 95-45-4
 EINECS: 202-420-1
 melting point 240–241 °C
 spec. stor. cond. 1–5 °C
 white crystalline powder or crystals
 practically insoluble in cold water, very
 hardly in alcohol and acetone

Use: analytical reagent, e.g. for nickel,
 cobalt, iron, palladium, separation of
 nickel from cobalt, separation of palladium
 from tin and other metals

S: 22-24/25
 RTECS: EK2975000

G.R.

Cat. No. 40036-AP0

Assay ≥ 99 %
 Sulfated ash ≤ 0.05 %
 Subst. insoluble in ethanol ≤ 0.02 %

Order number	Quantity
40036-AP0-G0100	100 g
40036-AP0-G0500	500 g

Dimethyl sulfoxide

C₂H₆OS
(CH₃)₂SO
M, 78.13
CAS: 67-68-5
EINECS: 200-664-3
1l~1.1 kg
melting point 17–20 °C
boiling point 189 °C
clear, colourless, oily liquid, hygroscopic
miscible with water and alcohol

Use: analytical reagent, e.g. determination of volatile organic impurities, solvent, e.g. for spectrophotometric measurements in UV region



R: 36/37/38
S: 2-26-36-46
RTECS: PV6210000

puriss ACS

Cat. No. 20022-ETO

Assay ≥ 99.9 %
H₂O (K.F.) ≤ 0.1 %
Non-volatile substances ≤ 0.01 %
Acidity ≤ 0.001 mEq/g

Order number	Quantity
20022-ETO-M0500	500 ml
20022-ETO-M1000	1000 ml

pure

Cat. No. 20022-CPO

Assay ≥ 99 %
H₂O (K.F.) ≤ 0.5 %
n_D²⁰ 1.478–1.479

Order number	Quantity
20022-CPO-M1000	1000 ml

for UV spectroscopy

Cat. No. 20022-UPO

Assay ≥ 99.5 %
Water ≤ 0.05 %
Evaporation residue ≤ 0.0005 %
UV transmission levels
Wavelength Transmission
300 nm ≥ 80 %
330 nm ≥ 90 %
340 nm ≥ 95 %
350 nm ≥ 98 %

Order number	Quantity
20022-UPO-M1000	1000 ml

1,4-Dioxane

C₈H₁₆O₂
OCH₂CH₂OCH₂CH₂
M, 88.11
CAS: 123-91-1
EINECS: 204-661-8
1l~1.03 kg
melting point 11 °C
boiling point 101 °C
flash point 11 °C
spec. stor. cond. > +12 °C
clear, colourless liquid
miscible with water and most of organic solvents

Use: analytical solvent, e.g. for separation of aminoacids, proteins, carbohydrates and fats, for the determination of isocyanates, isothiocyanates, separation of lithium from potassium and sodium, spectrophotometric measurements in UV region, HPLC, pharmaceutical productions



R: 11-19-36/37-40-66
S: 2-9-16-36/37-46
RTECS: JG8225000
UN 1165

ADR/RID 3/II

puriss ACS nonstabilized

Cat. No. 20023-ETO

Assay ≥ 99 %
Color ≤ 20 APHA
Freezing point ≥ 11.0 °C
H₂O (K.F.) ≤ 0.05 %
Non-volatile substances ≤ 0.005 %
Carbonyl compounds (as CH₂O) ≤ 0.01 %
Peroxides (as H₂O₂) ≤ 0.005 %
Acidity ≤ 0.0016 mEq/g

Order number	Quantity
20023-ETO-M0500	500 ml
20023-ETO-M1000	1000 ml
20023-ETO-M2500	2500 ml

G.R. stabilized

Cat. No. 20023-AT4

Assay ≥ 99 %
Free acid (as CH₃COOH) ≤ 0.01 %
Non-volatile substances ≤ 0.01 %
H₂O (K.F.) ≤ 0.05 %
Stab. BHT – cca 25 ppm

Order number	Quantity
20023-AT4-M1000	1000 ml

1,4-Dioxane

for UV spectroscopy stabilized

Cat. No. 20023-UT4

Assay	≥ 99.8 %
Water	≤ 0.02 %
Evaporation residue	≤ 0.0005 %
UV transmission levels	
Wavelength	Transmission
270 nm	≥ 70 %
280 nm	≥ 85 %
290 nm	≥ 95 %
300 nm	≥ 97 %
310 nm	≥ 98 %
Stab. BHT – cca 25 ppm	

Order number	Quantity
20023-UT4-M1000	1000 ml

for HPLC stabilized

Cat. No. 20023-LT4

Assay	≥ 99.8 %
Water	≤ 0.02 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
UV transmission levels	
Wavelength	Transmission
250 nm	≥ 80 %
260 nm	≥ 85 %
270 nm	≥ 90 %
280 nm	≥ 95 %
290 nm	≥ 99 %
Stab. BHT – cca 25 ppm	

Order number	Quantity
20023-LT4-M2500	2500 ml

Diphenylamine

C₁₂H₁₁N(C₆H₅)₂NH

M, 169.23

CAS: 122-39-4

EINECS: 204-539-4

melting point 52–55 °C

boiling point 302 °C

white or off-white crystals (may discolour to brown on storage)

hardly soluble in water, easily in alcohol and ether

Use: analytical reagent for the determination of nitrites, nitrates, oxygen, nitrogen, phosgene, iron, vanadium, zirconium, chromium, manganese, chlorine, redox indicator, oxidizer



R: 23/24/25-33-50/53

S: 1/2-28-36/37-45-60-61

RTECS: JJ7800000

UN 3077

ADR/RID 9/III

G.R.

Cat. No. 40029-AP0

Assay	≥ 99 %
Melting point	min. 52 °C
Sulfated ash	≤ 0.05 %

Order number	Quantity
40029-AP0-G0100	100 g

pure

Cat. No. 40029-CP0

Assay	≥ 98 %
-------------	--------

Order number	Quantity
40029-CP0-G0100	100 g

Diphenylcarbazine

Diphenylcarbazine

$C_{13}H_{14}N_4O$

M, 242.28

CAS: 140-22-7

EINECS: 205-403-7

melting point 170–173 °C

white crystals, tends to become pink in the air

hardly soluble in water, easily in alcohol and acetone

Use: analytical reagent for the determination of cadmium, chromium, magnesium and sulphate contents

S: 22-24/25

RTECS: FF2750000

G.R.

Cat. No. 40030-APO

Melting point 170–173 °C

Sulfated ash ≤0.05 %

Order number	Quantity
40030-APO-G0025	25 g
40030-APO-G0100	100 g

D

Diphenylcarbazone

$C_{13}H_{12}N_4O$

$C_6H_5NHNHCON:NC_6H_5$

M, 240.27

CAS: 538-62-5

EINECS: 208-698-0

melting point 152–155 °C

orange-yellow crystalline powder

insoluble in water, readily soluble in alcohol

Use: analytical reagent for the colorimetric determination of mercury, silver, lead, germanium, chromium, copper, molybdenum, absorption indicator in mercurimetry during the determination of halides and cyanides

S: 22-24/25

RTECS: LQ9420000

G.R.

Cat. No. 40031-APO

Melting point 152–155 °C

Sulfated ash ≤0.1 %

Order number	Quantity
40031-APO-G0010	10 g
40031-APO-G0100	100 g

Diphenylthiocarbazon

Dithizone

$C_{13}H_{12}N_4S$

$C_6H_5NHNHCSN:NC_6H_5$

M, 256.33

CAS: 60-10-6

EINECS: 200-454-1

melting point 168 °C (decomposition)

black-brown fine powder

insoluble in water

Use: analytical reagent for the determination of mercury, palladium, copper, cobalt, gold, cadmium, lead, silver, thallium, bismuth, zinc, iron, thorium, tin, cyanides, chlorides, creatinine



R: 22

S: 2-22-24/25-46

RTECS: LQ9450000

G.R.

Cat. No. 40032-APO

Assay ≥98 %

Order number	Quantity
40032-APO-G0010	10 g

2,2'-Dipyridyl

$C_{10}H_8N_2$
 $N:CHCH:CHCH:CC:CHCH:CHCH:N$
 M, 156.19
 CAS: 366-18-7
 EINECS: 206-674-4
 melting point 69–71 °C
 boiling point 273 °C
 white to yellowish pink crystalline powder
 soluble in alcohol, ether, chloroform

Use: analytical reagent for qualitative and quantitative determination of iron(II) salts



R: 21-25
 S: 1/2-22-36/37-45
 RTECS: DW1750000
 ADR/RID 6.1/III UN 2811

G.R.**Cat. No. 40037-AP0**

Assay ≥ 99 %
 Melting point 69–71 °C
 Ash ≤ 0.05 %

Order number	Quantity
40037-AP0-G0005	5 g
40037-AP0-G0025	25 g

D

Dithizone, see Diphenylthiocarbazone – page 66



EDTA, see Ethylenediaminetetraacetic acid – page 72

Eosin Methylene Blue

green powder
slightly soluble in water

Use: stain for microbiological purposes
(May-Grünwald's solution)



R: 20/21-33
S: 2-36/37-46

for microscopy

Cat. No. 40099-DPO

Order number	Quantity
40099-DPO-G0025	25 g

Eriochrome Black T

$C_{20}H_{12}N_3NaO_7S$
1-HOC₁₀H₆-2-N:N-1-C₁₀H₄-2-OH-4-SO₃Na-
-6-NO₂
M, 461.39
CAS: 1787-61-7
EINECS: 217-250-3
brown-black powder
easily soluble in water and alcohol

Use: analytical reagent – chelatometric
indicator



R: 36-51/53
S: 2-26-46-61
ADR/RID 9/III UN 3077

indicator

Cat. No. 40020-IP0

Order number	Quantity
40020-IP0-G0010	10 g
40020-IP0-G0050	50 g
40020-IP0-G0100	100 g

Ethanolamine

2-Aminoethanol
 C_2H_7NO
M, 61.08
CAS: 141-43-5
EINECS: 205-483-3

1l~1.02 kg
melting point 10 °C
boiling point 170 °C
flash point 85 °C
clear, colourless, viscous, hygroscopic
liquid with ammoniacal smell
miscible with water, alcohol, chloroform

Use: analytical reagent – buffer, removal
of carbon dioxide and hydrogen sulphides
from gaseous mixtures



R: 20/21/22-34
S: 1/2-26-36/37/39-45
RTECS: KJ5775000
UN 2491
ADR/RID 8/III

G.R.

Cat. No. 40038-ATO

Assay ≥ 99 %
H₂O ≤ 0.5 %
Residue on ignition (as SO₄) ≤ 0.05 %

Order number	Quantity
40038-ATO-M1000	1000 ml

pure

Cat. No. 40038-CTO

Assay ≥ 98 %

Order number	Quantity
40038-CTO-M1000	1000 ml

Ethyl acetate

$C_4H_8O_2$
 $CH_3COOC_2H_5$
 M_r 88.11
 CAS: 141-78-6
 EINECS: 205-500-4
 $1l \sim 0.90$ kg
 melting point $-83^\circ C$
 boiling point $75-79^\circ C$
 flash point $-2^\circ C$
 clear, colourless liquid
 miscible with alcohol, acetone and ether

Use: solvent and extraction reagent (HPLC, chemical industry, medicine, pharmaceutical production)



R: 11-36-66-67
 S: 2-16-26-33-46
 RTECS: AH5425000
 UN 1173

ADR/RID 3/II

puriss ACS

Cat. No. 20028-ETO

Assay $\geq 99.5\%$
 Color ≤ 10 APHA
 H_2O (K.F.) $\leq 0.2\%$
 Non-volatile substances $\leq 0.003\%$
 Acidity ≤ 0.0009 mEq/g
 Subst. darkened by H_2SO_4 passes test

Order number	Quantity
20028-ETO-M0500	500 ml
20028-ETO-M1000	1000 ml

G.R.

Cat. No. 20028-ATO

Assay $\geq 99.7\%$
 Organic impurities $\leq 0.25\%$
 Acidity (as CH_3COOH) $\leq 0.005\%$
 H_2O (K.F.) $\leq 0.05\%$
 Non-volatile substances $\leq 0.0015\%$

Order number	Quantity
20028-ATO-M1000	1000 ml

pure

Cat. No. 20028-CTO

Assay $\geq 99.5\%$
 Organic impurities $\leq 0.3\%$
 Acidity (as CH_3COOH) $\leq 0.01\%$
 H_2O (K.F.) $\leq 0.1\%$
 Non-volatile substances $\leq 0.005\%$

Order number	Quantity
20028-CTO-M1000	1000 ml

for HPLC

Cat. No. 20028-LTO

Assay $\geq 99.8\%$
 Water $\leq 0.02\%$
 Acidity (mEq./g) ≤ 0.0005
 Evaporation residue $\leq 0.0005\%$
 UV transmission levels
 Wavelength Transmission
 260 nm $\geq 70\%$
 270 nm $\geq 90\%$
 280 nm $\geq 95\%$
 300 nm $\geq 99\%$

Order number	Quantity
20028-LTO-M2500	2500 ml

pharm.

Cat. No. 20028-FTO

Ethylis acetas

Order number	Quantity
20028-FTO-M1000	1000 ml

Ethyl acetoacetate

$C_6H_{10}O_3$
 $CH_3COCH_2COOC_2H_5$
 M_r 130.14
 CAS: 141-97-9
 EINECS: 205-516-1
 $1l \sim 1.03$ kg
 melting point $-40^\circ C$
 boiling point $82-86^\circ C$ (2.6 kPa)
 flash point $85^\circ C$
 clear, colourless liquid
 miscible with alcohol and ether

Use: solvent and extraction reagent (medicine, pharmaceutical production)

S: 24/25
 RTECS: AK5250000

pure

Cat. No. 20027-CTO

Assay $\geq 98\%$

Order number	Quantity
20027-CTO-M0500	500 ml
20027-CTO-M1000	1000 ml

Ethyl alcohol 99.8%; 96 %

Ethanol
 C_2H_6O
 CH_3CH_2OH
 M, 46.07
 CAS: 64-17-5
 EINECS: 200-578-6
 1l~0.81 kg
 melting point $-117\text{ }^\circ\text{C}$
 boiling point $78\text{ }^\circ\text{C}$
 flash point $14\text{ }^\circ\text{C}$
 clear, colourless liquid
 miscible with water, ether and chloroform

Use: solvent, e.g. for spectrophotometric measurements in UV region, extraction reagent, preparation of indicator solutions, pharmaceutical productions, biochemical applications, production of cosmetics



R: 11
 S: 2-7-16-46
 RTECS: KQ6300000
 UN 1170

ADR/RID 3/II

for UV spectroscopy 99.8 %

Cat. No. 20025-U99

Assay $\geq 99.8\%$
 H_2O $\leq 0.2\%$
 UV transmission levels
 Wavelength Transmission
 205 nm $\geq 10\%$
 210 nm $\geq 20\%$
 220 nm $\geq 45\%$
 255 nm $\geq 90\%$
 300–400 nm $\geq 98\%$

Order number	Quantity
20025-U99-M1000	1000 ml

G.R. 96 %

Cat. No. 20025-A96

Assay (V/V) $\sim 96\%$
 d_4^{20} 0.8013–0.8070
 Non-volatile substances $\leq 0.001\%$
 Free acids (as CH_3COOH) $\leq 0.002\%$
 Free alkaline (as NH_3) $\leq 0.0001\%$
 Subst. reducing $KMnO_4$ $\leq 0.002\%$
 Reaction with H_2SO_4 passes test
 Fe $\leq 0.00001\%$

Order number	Quantity
20025-A96-M1000	1000 ml

pharm. 96 %

Cat. No. 20025-F96

Ethanolum 96 % (V/V)

Order number	Quantity
20025-F96-M1000	1000 ml

Ethylene glycol

$C_2H_4O_2$
 $HOCH_2CH_2OH$
 M, 62.07
 CAS: 107-21-1
 EINECS: 203-473-3
 1l~1.11 kg
 melting point $-12\text{ }^\circ\text{C}$
 boiling point $198\text{ }^\circ\text{C}$
 clear, colourless, viscous, hygroscopic liquid
 miscible with water and alcohol

Use: analytical reagent

R: 22
 S: 2-46
 RTECS: KW2975000

G.R.

Cat. No. 20026-A70

Assay $\geq 99.5\%$
 H_2O (K.F.) $\leq 0.5\%$
 Cl $\leq 0.0002\%$
 Fe $\leq 0.0002\%$

Order number	Quantity
20026-A70-M1000	1000 ml

pure

Cat. No. 20026-CT0

Assay $\geq 98\%$

Order number	Quantity
20026-CT0-M1000	1000 ml

Ethylene glycol monoethyl ether

$C_4H_{10}O_2$
 $C_2H_5OCH_2CH_2OH$
 M, 90.12
 CAS: 110-80-5
 EINECS: 203-804-1
 1l~0.93 kg
 melting point $-100\text{ }^\circ\text{C}$
 boiling point $135\text{ }^\circ\text{C}$
 flash point $42\text{ }^\circ\text{C}$
 clear, colourless liquid
 easily soluble in water

pure

Cat. No. 20029-CT0

Assay $\geq 98\%$

Order number	Quantity
20029-CT0-M1000	1000 ml

Ethylene glycol monoethyl ether

Use: solvent, organic syntheses

ADR/RID 3/III

R: 60-61-10-20/21/22

S: 1/2-53-45

RTECS: KK8050000

UN 1171

Ethylene glycol monomethyl ether

 $C_3H_8O_2$ $CH_3OCH_2CH_2OH$ M_r 76.10

CAS: 109-86-4

EINECS: 203-713-7

1l~0.96 kg

melting point -85 °C

boiling point 125 °C

flash point 52 °C

clear, colourless liquid

miscible with water, alcohol, ether and acetone

Use: solvent, organic syntheses

ADR/RID 3/III

R: 60-61-10-20/21/22

S: 1/2-53-45

RTECS: KL5775000

UN 1188

pure**Cat. No. 20039-CT0**

Assay ≥ 98 %

Order number	Quantity
20039-CT0-M1000	1000 ml

Ethylenediamine

 $C_2H_8N_2$ $NH_2CH_2CH_2NH_2$ M_r 60.10

CAS: 107-15-3

EINECS: 203-468-6

1l~0.90 kg

melting point 8 °C

boiling point 116 °C

flash point 34 °C

clear, colourless to light yellowish fuming liquid

miscible with water and alcohol

Use: isomerization of allyl alcohols, aldehydes, reduction of azo compounds, pharmaceutical productions

ADR/RID 8/II

R: 10-21/22-34-42/43

S: 1/2-23-26-36/37/39-45

UN 1604

pure**Cat. No. 40039-CT0**

Assay ≥ 98 %

 n_D^{20} 1.456–1.458

Order number	Quantity
40039-CT0-M1000	1000 ml

Ethylenediaminetetraacetic acid

EDTA; Complexone II

 $C_{10}H_{16}N_2O_8$
($HOOCCH_2$)₂NCH₂CH₂N(CH₂COOH)₂M_r 292.25

CAS: 60-00-4

EINECS: 200-449-4

melting point 250 °C (decomposition)

white crystalline powder

practically insoluble in water

Use: analytical reagent for chelatometric titrations, production of chelates

R: 36-52/53

S: 2-26-36-46

RTECS: AH4025000

UN 3077

ADR/RID 9/III

G.R.**Cat. No. 40073-AP0**Assay ≥ 99 %
Sulfated ash ≤ 0.2 %
Fe ≤ 0.005 %
Heavy metals (as Pb) ≤ 0.001 %

Order number	Quantity
40073-AP0-G0500	500 g

Ethylenediaminetetraacetic acid disodium salt dihydrate

Complexone III

 $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$ $HOOCCH_2(NaOOCCH_2)NCH_2CH_2N(CH_2COONa)CH_2COOH \cdot 2H_2O$ M_r 372.24

CAS: 6381-92-6

EINECS: 205-358-3

melting point 248 °C (decomposition)

colourless crystals or white powder

easily soluble in water, slightly in alcohol

Use: analytical reagent for chelatometric titrations, e.g. for Ca and Mg, masking agent, food industry, pharmaceutical productions

R: 22-36/37/38

S: 2-26-36-46

RTECS: AH4375000

G.R.**Cat. No. 40074-AP0**Assay 99–100.5 %
Subst. insoluble in H₂O ≤ 0.005 %
pH (5 %, H₂O) 4–5
Cu ≤ 0.001 %
Fe ≤ 0.002 %

Order number	Quantity
40074-AP0-G0500	500 g
40074-AP0-G1000	1000 g

pure**Cat. No. 40074-CP0**Assay ≥ 98 %
Subst. insoluble in H₂O ≤ 0.02 %
pH (5 %, H₂O) 4–5

Order number	Quantity
40074-CP0-G1000	1000 g

pharm.**Cat. No. 40074-FP0**

Dinatrii edetas dihydricus

Order number	Quantity
40074-FP0-G1000	1000 g

Ethylenediaminetetraacetic acid magnesium disodium salt hydrate

 $C_{10}H_{12}Na_2MgN_2O_8 \cdot aq$ $(NaOOCCH_2)_2NCH_2CH_2N(CH_2COO)_2Mg \cdot aq$ M_r 358.51 + aq

CAS: 14402-88-1

EINECS: 238-372-3

colourless crystals or white powder

readily soluble in water

Use: analytical reagent for chelatometric titrations

S: 22-24/25

G.R.**Cat. No. 40075-AP0**Assay (on dried subst.) ≥ 99 %
H₂O 15–20 %

Order number	Quantity
40075-AP0-G0010	10 g
40075-AP0-G0100	100 g

pure**Cat. No. 40075-CP0**Assay (on dried subst.) ≥ 98 %
H₂O 15–20 %

Order number	Quantity
40075-CP0-G0010	10 g

Ethylenediaminetetraacetic acid tetrasodium salt hydrate

$C_{10}H_{12}N_2Na_4O_8 \cdot aq$
 $(NaOOCCH_2)_2NCH_2CH_2N(CH_2COONa)_2 \cdot aq$
 M_r 380.18
 CAS: 64-02-8
 EINECS: 200-573-9
 colourless crystals or white powder
 readily soluble in water

Use: analytical reagent for chelatometric titrations, masking agent for some metals, determination of Ca and Mg in waters



R: 36/37/38
 S: 2-26-36/37-46

pure**Cat. No. 40076-CPO**

Assay (anhydrous) ≥ 98 %
 H₂O 5–10 %

Order number	Quantity
40076-CPO-G0250	250 g

Ethyl methyl ketone

2-Butanone
 C_4H_8O
 $C_2H_5COCH_3$
 M_r 72.11
 CAS: 78-93-3
 EINECS: 201-159-0
 1l~0.80 kg
 melting point −86 °C
 boiling point 79 °C
 flash point −4 °C
 clear, colourless liquid
 miscible with alcohol and ether

Use: solvent, extraction reagent



R: 11-36-66-67
 S: 2-9-16-46
 RTECS: EL6475000
 UN 1193

puriss ACS**Cat. No. 20024-ETO**

Assay ≥ 99 %
 Color ≤ 15 APHA
 Non-volatile substances ≤ 0.0025 %
 Acidity ≤ 0.0005 mEq/g
 H₂O (K.F.) ≤ 0.2 %

Order number	Quantity
20024-ETO-M1000	1000 ml
20024-ETO-M2500	2500 ml

G.R.**Cat. No. 20024-ATO**

Assay ≥ 99 %
 H₂O (K.F.) ≤ 0.2 %
 Non-volatile substances ≤ 0.005 %

Order number	Quantity
20024-ATO-M1000	1000 ml

pure**Cat. No. 20024-CTO**

Assay ≥ 98 %

Order number	Quantity
20024-CTO-M1000	1000 ml

Ferric chloride anhydrous, see Iron(III) chloride anhydrous – page 92

Ferric chloride hexahydrate, see Iron(III) chloride hexahydrate – page 92

Ferric citrate monohydrate, see Iron(III) citrate monohydrate – page 93

Ferric oxide, see Iron(III) oxide – page 93

Ferric sulfate hydrate, see Iron(III) sulfate hydrate – page 94

Ferroun solution cca 1/40 M (0.025 mol/l)

$C_{36}H_{24}FeN_6O_4S$
 $[Fe(C_{12}H_8N_2)_3]SO_4$
 M, 692.54
 CAS: 14634-91-4
 EINECS: 238-676-6
 1l~1.0 kg
 vinaceous to red-brown solution
 miscible with water

Use: redox indicator, analytical reagent,
 e.g. for the determination of iron, nickel,
 ruthenium, silver

indicator
Cat. No. 40046-ITO

Order number	Quantity
40046-ITO-M0250	250 ml

Ferrous chloride anhydrous, see Iron(II) chloride anhydrous – page 92

Ferrous sulfate heptahydrate, see Iron(II) sulfate heptahydrate – page 94

Ferrous sulfide, see Iron(II) sulfide – page 94

Fluorescein free acid

$C_{20}H_{12}O_5$
 M, 332.32
 CAS: 2321-07-5
 EINECS: 219-031-8
 melting point 315 °C
 orange-red powder
 practically insoluble in water, soluble in
 warm alcohol

Use: adsorption indicator for argentometric
 determination of halides and rhodanides,
 fluorescent indicator and indicator for
 the determination of bromides, stain for
 microscopy

S: 22-24/25
 RTECS: LM5075000

indicator
Cat. No. 40051-IP0

Order number	Quantity
40051-IP0-G0100	100 g

Fluorescein sodium

$C_{20}H_{10}Na_2O_5$
 M_r 376.28
 CAS: 518-47-8
 EINECS: 208-253-0
 melting point > 360 °C
 red-orange powder
 readily soluble in water

Use: adsorption indicator for argentometric determination of halides and rhodanides, fluorescent indicator and indicator for the determination of bromides

S: 22-24/25
 RTECS: LM5425000

pharm.

Cat. No. 40050-FP0
 Fluoresceinum natrium

Order number	Quantity
40050-FP0-G0500	500 g
40050-FP0-G1000	1000 g

Formaldehyde

CH_2O
 $HCHO$
 M_r 30.03
 CAS: 50-00-0
 EINECS: 200-001-8
 1l~1.09 kg
 melting point < -15 °C
 boiling point 93–96 °C
 flash point ~56 °C
 spec. stor. cond. > +8 °C
 colourless liquid
 miscible with water and alcohol

Use: reductant



R: 23/24/25-34-40-43
 S: 1/2-26-36/37/39-45-51
 RTECS: LP8925000
 UN 1198

ADR/RID 3/III

puriss ACS stabilized

Cat. No. 40052-E38

Assay 36.5–38 %
 Color ≤ 10 APHA
 Heavy metals (as Pb) ≤ 0.0005 %
 Residue after ignition ≤ 0.005 %
 Cl ≤ 0.0005 %
 Fe ≤ 0.0005 %
 SO_4 ≤ 0.002 %
 Acidity ≤ 0.006 mEq/g
 Stab. methanol ~10 %

Order number	Quantity
40052-E38-G0100	100 g
40052-E38-G1000	1000 g

G.R. stabilized

Cat. No. 40052-A38

Assay 36–38 %
 d_4^{20} 1.073–1.092
 Free acids (as HCOOH) ≤ 0.04 %
 Sulfated ash ≤ 0.002 %
 Cl ≤ 0.0001 %
 SO_4 ≤ 0.002 %
 Heavy metals (as Pb) ≤ 0.0004 %
 Fe ≤ 0.0001 %
 Stab. methanol ~10 %

Order number	Quantity
40052-A38-M1000	1000 ml
40052-A38-M2500	2500 ml
40052-A38-M5000	5000 ml

pure stabilized

Cat. No. 40052-C38

Assay 36–38 %
 Sulfated ash ≤ 0.01 %
 Fe ≤ 0.001 %
 Stab. methanol ~10 %

Order number	Quantity
40052-C38-M1000	1000 ml

pharm. stabilized

Cat. No. 40052-F35

Formaldehydi solutio 35 %
 Stab. methanol 9–15 %

Order number	Quantity
40052-F35-M1000	1000 ml

Formamide

CH₃NO
HCONH₂
M, 45.04
CAS: 75-12-7
EINECS: 200-842-0
1l~1.13 kg
melting point 1–3 °C
boiling point 210–216 °C
clear, colourless, oily, hygroscopic liquid
miscible with water and alcohol, hydrolyzes
in water

Use: analytical reagent/solvent, ionic
solvent



R: 61
S: 1/2-53-45
RTECS: LQ0525000

puriss ACS**Cat. No. 40003-ETO**

Color ≤ 10 APHA
Assay ≥ 99.5 %
Freezing point 2–3 °C
n_D²⁰ 1.446–1.448

Order number	Quantity
40003-ETO-M1000	1000 ml

G.R.**Cat. No. 40003-ATO**

Assay ≥ 99 %
H₂O (K.F.) ≤ 0.5 %
Fe ≤ 0.0001 %
Pb ≤ 0.0001 %

Order number	Quantity
40003-ATO-M1000	1000 ml

pure**Cat. No. 40003-CTO**

Assay ≥ 98 %
H₂O (K.F.) ≤ 1 %

Order number	Quantity
40003-CTO-M1000	1000 ml

Formic acid 98 %; 96 %

CH₂O₂
HCOOH
M, 46.03
CAS: 64-18-6
EINECS: 200-579-1
1l~1.22 kg
melting point 8 °C
boiling point 101 °C
flash point 48 °C
clear, colourless liquid
miscible with water and alcohol

Use: analytical reagent and reductant,
organic syntheses



ADR/RID 8/II

R: 35
S: 1/2-23-26-45
RTECS: LQ4900000
UN 1779

G.R. 98 %**Cat. No. 10045-A98**

Assay ~98 %
Non-volatile substances ≤ 0.002 %
CH₃COOH ≤ 0.5 %
Cl ≤ 0.001 %
SO₄ ≤ 0.002 %
SO₃ ≤ 0.002 %

Order number	Quantity
10045-A98-M1000	1000 ml

pure 96 %**Cat. No. 10045-C96**

Assay ~96 %

Order number	Quantity
10045-C96-M1000	1000 ml

Formic acid 88 %; 85 %

CH₂O₂
HCOOH
M, 46.03
CAS: 64-18-6
EINECS: 200-579-1
1l~1.19 kg
melting point 8 °C
boiling point 101 °C
flash point 68 °C
clear, colourless liquid
miscible with water, alcohol

puriss ACS 88 %**Cat. No. 10045-E88**

Assay ≥ 88 %
Color ≤ 15 APHA
Heavy metals (as Pb) ≤ 0.0005 %
NH₄ ≤ 0.005 %
Cl ≤ 0.001 %
SO₄ ≤ 0.002 %
Fe ≤ 0.0005 %
Dilution test passes test
SO₃ passes test
Non-volatile substances ≤ 0.002 %
Acidity (as CH₃COOH) ≤ 0.4 %

Order number	Quantity
10045-E88-M0500	500 ml
10045-E88-M2500	2500 ml

Formic acid

Use: analytical reagent and reductant, organic syntheses



ADR/RID 8/II

R: 34
S: 1/2-23-26-45
RTECS: LQ4900000
UN 1779

pure 85 %**Cat. No. 10045-C85**

Assay 85–87 %

Order number	Quantity
10045-C85-M1000	1000 ml

D-Fructose

$C_6H_{12}O_6$
 $OCH_2(CHOH)_3C(OH)CH_2OH$

 M_r 180.16

CAS: 57-48-7

EINECS: 200-333-3

melting point 100–110 °C

white crystalline powder with sweet taste

readily soluble in water, easily in alcohol

Use: food industry, medicine

S: 22-24/25

RTECS: LS7000000

G.R.**Cat. No. 40053-AP0**

Ash ≤ 0.1 %

 $[\alpha]_D^{20}$ (c = 10, H₂O) -92° ± 2°

Free acids (as HCl) ≤ 0.01 %

Order number	Quantity
40053-AP0-G0500	500 g
40053-AP0-G1000	1000 g

Fuchsin basic

 $C_{20}H_{20}ClN_3$ M_r 337.85

CAS: 632-99-5

EINECS: 211-189-6

melting point 235 °C (decomposition)

crystals with aquamarine shine

easily soluble in water and alcohol

Use: analytical reagent, stain in microbiology

R: 40
S: 2-53-22-46

indicator**Cat. No. 40054-IP0**

Order number	Quantity
40054-IP0-G0100	100 g

Fumaric acid

 $C_4H_4O_4$ $HOOCCH=CHCOOH$ M_r 116.08

CAS: 110-17-8

EINECS: 203-743-0

melting point 287–290 °C

boiling point 165 °C

colourless crystals or white powder

slightly soluble in water

Use: analytical reagent, food industry

R: 36
S: 2-26-46
RTECS: LS9625000

G.R.**Cat. No. 10028-AP0**

Assay ≥ 99.5 %

Order number	Quantity
10028-AP0-G0500	500 g

Gelatine

CAS: 9000-70-8
 EINECS: 232-554-6
 boiling point 100 °C
 yellowish to light brown powder
 practically insoluble in common organic
 solvents, swells in water

Use: analytical reagent, pharmaceutical
 productions

RTECS: LX8580000

G.R.

Cat. No. 40174-APO

Loss on drying ≤ 15 %
 Ash ≤ 2 %
 Heavy metals (as Pb) ≤ 0.002 %

Order number	Quantity
40174-APO-G0500	500 g

D-Glucose anhydrous

$C_6H_{12}O_6$
 $HOCH_2CH(CHOH)_4O$
 M, 180.16
 CAS: 492-62-6
 EINECS: 207-757-8
 white crystalline powder with sweet taste
 readily soluble in water, slightly in alcohol

Use: biochemistry, microbiology, food
 industry, medicine

G.R.

Cat. No. 40055-APO

$[\alpha]_D^{20}$ (c = 10 in H_2O + traces of NH_4OH) +53.0° ± 0.5°
 Sulfated ash ≤ 0.1 %
 Heavy metals (as Pb) ≤ 0.0005 %

Order number	Quantity
40055-APO-G0500	500 g
40055-APO-G1000	1000 g

D-Glucose monohydrate

$C_6H_{12}O_6 \cdot H_2O$
 $HOCH_2CH(CHOH)_4O \cdot H_2O$
 M, 198.17
 CAS: 5996-10-1
 EINECS: 200-075-1
 melting point 83 °C
 white crystalline powder with sweet taste
 readily soluble in water, slightly in alcohol

Use: biochemistry, microbiology, food
 industry, medicine

G.R.

Cat. No. 40056-APO

$[\alpha]_D^{20}$ (c = 10 in H_2O on dried subst.) +52.5° to +53.3°
 Loss on drying 7–9.5 %
 Sulfated ash ≤ 0.1 %
 Heavy metals (as Pb) ≤ 0.0005 %

Order number	Quantity
40056-APO-G0500	500 g
40056-APO-G1000	1000 g

L-Glutamic acid

$C_5H_9NO_4$
 $HOOC(CH_2)_2CH(NH_2)COOH$
 M, 147.13
 CAS: 56-86-0
 EINECS: 200-293-7
 colourless crystals or white powder
 readily soluble in hot water

Use: biochemistry – crystallization of
 proteins

RTECS: LZ9700000

G.R.

Cat. No. 10041-APO

Assay ≥ 99 %

Order number	Quantity
10041-APO-G0100	100 g

Glutaric acid

$C_5H_8O_4$
 $HOOC(CH_2)_3COOH$
 M_r 132.12
 CAS: 110-94-1
 EINECS: 203-817-2
 melting point 96–99 °C
 boiling point 302–304 °C
 (at 101 kPa, slow decomposition)
 white powder
 readily soluble in water and alcohol

Use: organic syntheses, polymerization intermediates, biochemistry



R: 36/37/38
 S: 2-26-36-46
 RTECS: MA3740000

pure

Cat. No. 10029-CP0

Assay ~98 %
 Melting point 96–99 °C

Order number	Quantity
10029-CP0-G0500	500 g

Glycerol 85 %

$C_3H_8O_3$
 $HOCH_2CH(OH)CH_2OH$
 M_r 92.10
 CAS: 56-81-5
 EINECS: 200-289-5
 $1l \sim 1.22$ kg
 melting point -10 °C
 boiling point > 130 °C
 clear, syrupy, oily felt hygroscopic liquid
 miscible with water and alcohol

Use: analytical reagent, pharmaceutical productions, production of cosmetics

S: 23-24/25
 RTECS: MA8050000

pharm.

Cat. No. 40057-F85

Glycerolum 85 %
 Assay 83.5–88.5 %

Order number	Quantity
40057-F85-G1000	1000 g

Glycerol anhydrous

$C_3H_8O_3$
 $HOCH_2CH(OH)CH_2OH$
 M_r 92.10
 CAS: 56-81-5
 EINECS: 200-289-5
 $1l \sim 1.26$ kg
 melting point -18 °C
 boiling point > 290 °C
 clear, syrupy, oily felt hygroscopic liquid
 miscible with water and alcohol

Use: analytical reagent, pharmaceutical productions, production of cosmetics

S: 23-24/25
 RTECS: MA8050000

puriss ACS

Cat. No. 40058-ET0

Assay ≥ 99.5 %
 Color ≤ 10 APHA
 H_2O (K.F.) ≤ 0.5 %
 Heavy metals (as Pb) ≤ 0.0002 %
 SO_4 ≤ 0.001 %
 Residue after ignition ≤ 0.005 %
 Neutrality passes test
 Chlorinated compounds (as Cl) ≤ 0.003 %
 Fatty acid esters (as butyric acid) ≤ 0.05 %
 Subst. darkened by H_2SO_4 passes test
 Acrolein and glucose passes test

Order number	Quantity
40058-ET0-M0500	500 ml

G.R.

Cat. No. 40058-AT0

Assay ≥ 99 %
 Sulfated ash ≤ 0.01 %
 Cl ≤ 0.0005 %
 Heavy metals (as Pb) ≤ 0.0005 %

Order number	Quantity
40058-AT0-M1000	1000 ml

Glycerol

Glycerol anhydrous

pharm.

Cat. No. 40058-FT0

Glycerolum

Assay 98–101 %

Order number	Quantity
40058-FT0-M1000	1000 ml

Glycine

$C_2H_5NO_2$

NH_2CH_2COOH

M, 75.07

CAS: 56-40-6

EINECS: 200-272-2

melting point 232–236 °C

white crystalline powder

readily soluble in water, slightly in alcohol

Use: microbiology, preparation of buffers,
food industry

S: 22-24/25

RTECS: MB7600000

G.R.

Cat. No. 40059-AP0

Assay $\geq 99\%$

Sulfated ash $\leq 0.1\%$

Order number	Quantity
40059-AP0-G0500	500 g

pure

Cat. No. 40059-CP0

Assay $\geq 98.5\%$

Sulfated ash $\leq 0.1\%$

Order number	Quantity
40059-CP0-G0500	500 g

Glycolic acid

$C_2H_4O_3$

$HOCH_2COOH$

M, 76.05

CAS: 79-14-1

EINECS: 201-180-5

melting point 75–80 °C

boiling point 100 °C

colourless crystals or white powder

soluble in water, alcohol, ether

Use: pH control, production of cosmetics



ADR/RID 8/II

R: 22-34

S: 1/2-26-36/37/39-45

RTECS: MC5250000

UN 3261

pure

Cat. No. 10030-CP0

Assay $\geq 99\%$

H_2O $\sim 1\%$

Ash $\leq 0.05\%$

Melting point 75–80 °C

Order number	Quantity
10030-CP0-G0100	100 g

n-Heptane

C₇H₁₆CH₃(CH₂)₅CH₃M_r 100.21

CAS: 142-82-5

EINECS: 205-563-8

1l~0.68 kg

melting point -90 °C

boiling point 98 °C

flash point -4 °C

clear, colourless liquid

insoluble in water, miscible with alcohol
and acetone

Use: solvent, e.g. for HPLC, spectrophotometric measurements in UV region, organic syntheses



R: 11-38-50/53-65-67

S: 2-9-16-29-33-60-61-62

RTECS: MI7700000

ADR/RID 3/II UN 1206

G.R.**Cat. No. 20030-ATO**

Assay ≥ 99 %
 H₂O (K.F.) ≤ 0.01 %
 Non-volatile substances ≤ 0.001 %
 Free acid (as CH₃COOH) ≤ 0.002 %

Order number	Quantity
20030-ATO-M1000	1000 ml

pure**Cat. No. 20030-CTO**

Assay ≥ 95 %

Order number	Quantity
20030-CTO-M1000	1000 ml

for UV spectroscopy**Cat. No. 20030-UTO**

Assay ≥ 99.0 %
 Water ≤ 0.01 %
 Evaporation residue ≤ 0.0005 %

UV transmission levels

Wavelength	Transmission
200 nm	≥ 10 %
210 nm	≥ 50 %
220 nm	≥ 80 %
230 nm	≥ 90 %
250 nm	≥ 98 %

Order number	Quantity
20030-UTO-M2500	2500 ml

for HPLC 99.5 %**Cat. No. 20030-L9X**

Assay ≥ 99.5 %
 Water ≤ 0.01 %
 Acidity (mEq./g) ≤ 0.0005
 Evaporation residue ≤ 0.0005 %

UV transmission levels

Wavelength	Transmission
210 nm	≥ 60 %
220 nm	≥ 80 %
230 nm	≥ 95 %
240 nm	≥ 98 %
250 nm	≥ 99 %

Order number	Quantity
20030-L9X-M2500	2500 ml

for HPLC 99 %**Cat. No. 20030-L99**

Assay ≥ 99 %
 Water ≤ 0.01 %
 Acidity (mEq./g) ≤ 0.0005
 Evaporation residue ≤ 0.0005 %

UV transmission levels

Wavelength	Transmission
210 nm	≥ 60 %
220 nm	≥ 80 %
230 nm	≥ 95 %
240 nm	≥ 98 %
250 nm	≥ 99 %

Order number	Quantity
20030-L99-M2500	2500 ml

n-Heptane

for HPLC 95 %

Cat. No. 20030-L95

Assay	≥ 95 %
Water	≤ 0.01 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
UV transmission levels	
Wavelength	Transmission
210 nm	≥ 60 %
220 nm	≥ 80 %
230 nm	≥ 95 %
240 nm	≥ 98 %
250 nm	≥ 99 %

Order number	Quantity
20030-L95-M2500	2500 ml

H

Hexamethylenetetramine

Methenamine



M, 140.19

CAS: 100-97-0

EINECS: 202-905-8

flash point 250 °C

colourless crystals or white powder

readily soluble in water, easily soluble in alcohol

Use: analytical reagent, e.g. determination of metals, food industry (antimicrobial additive), corrosion inhibitor



R: 11-42/43

S: 2-16-22-24-37-46

RTECS: MN4725000

UN 1328

ADR/RID 4.1/III

G.R.

Cat. No. 40060-APO

Assay	≥ 99.5 %
pH (10 %, H ₂ O)	8.5–9.5
Cl	≤ 0.005 %
SO ₄	≤ 0.005 %
NH ₄	≤ 0.01 %
Ash	≤ 0.05 %

Order number	Quantity
40060-APO-G0500	500 g

pure

Cat. No. 40060-CP0

Assay	≥ 98 %
-------------	--------

Order number	Quantity
40060-CP0-G0500	500 g

Hexane



M, 86.18

CAS: 110-54-3

EINECS: 203-777-6

1l~0.66 kg

boiling point 66–70 °C

flash point –26 °C

clear, colourless liquid

insoluble in water, miscible with alcohol and acetone

Use: solvent for spectrophotometric measurements in UV region, HPLC, analysis residual of pesticides



R: 11-38-48/20-51/53-62-65-67

S: 2-9-16-29-33-36/37-61-62

RTECS: MN9275000

ADR/RID 3/II UN 1208

G.R.

Cat. No. 20031-ATO

Assay of C ₆ H ₁₄ isomers	≥ 80 %
H ₂ O (K.F.)	≤ 0.01 %
Non-volatile substances	≤ 0.001 %
Free acid (as CH ₃ COOH)	≤ 0.002 %

Order number	Quantity
20031-ATO-M1000	1000 ml

pure

Cat. No. 20031-CT0

Assay of C ₆ H ₁₄ isomers	≥ 80 %
---	--------

Order number	Quantity
20031-CT0-M1000	1000 ml
20031-CT0-M5000	5000 ml

n-Hexane

C₆H₁₄

M, 86.18

CAS: 110-54-3

EINECS: 203-777-6

1l~0.66 kg

boiling point 66–70 °C

flash point –26 °C

clear, colourless liquid

insoluble in water, miscible with alcohol
and acetone

Use: solvent for spectrophotometric
measurements in UV region, HPLC, analy-
sis residual of pesticides



R: 11-38-48/20-51/53-62-65-67

S: 2-9-16-29-33-36/37-61-62

RTECS: MN9275000

ADR/RID 3/II UN 1208

G.R.**Cat. No. 20032-ATO**

Assay	≥ 99 %
H ₂ O (K.F.)	≤ 0.01 %
Acidity (as CH ₃ COOH)	≤ 0.002 %
Non-volatile substances	≤ 0.001 %

Order number	Quantity
20032-ATO-M1000	1000 ml

pure**Cat. No. 20032-CTO**

Assay	≥ 95 %
Non-volatile substances	≤ 0.005 %

Order number	Quantity
20032-CTO-M1000	1000 ml

for UV spectroscopy**Cat. No. 20032-UTO**

Assay	≥ 99.0 %
Water	≤ 0.01 %
Evaporation residue	≤ 0.0005 %
UV transmission levels	
Wavelength	Transmission
210 nm	≥ 60 %
220 nm	≥ 85 %
240 nm	≥ 95 %
250 nm	≥ 98 %

Order number	Quantity
20032-UTO-M2500	2500 ml

for HPLC 99 %**Cat. No. 20032-L99**

Assay	≥ 99 %
Water	≤ 0.01 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
UV transmission levels	
Wavelength	Transmission
200 nm	≥ 50 %
210 nm	≥ 70 %
220 nm	≥ 90 %
230 nm	≥ 98 %
240 nm	≥ 99 %

Order number	Quantity
20032-L99-M2500	2500 ml

for HPLC 95 %**Cat. No. 20032-L95**

Assay	≥ 95 %
Water	≤ 0.01 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
UV transmission levels	
Wavelength	Transmission
200 nm	≥ 50 %
210 nm	≥ 70 %
220 nm	≥ 90 %
230 nm	≥ 98 %
240 nm	≥ 99 %

Order number	Quantity
20032-L95-M2500	2500 ml

for pesticide residue analysis 99 %**Cat. No. 20032-R99**

Assay	≥ 99 %
Water	≤ 0.02 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
Halogenated residue	≤ 5 ng/l

Order number	Quantity
20032-R99-M2500	2500 ml

H

n-Hexane

for pesticide residue analysis 95 %

Cat. No. 20032-R95

Assay	≥ 95 %
Water	≤ 0.02 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
Halogenated residue	≤ 5 ng/l

Order number	Quantity
20032-R95-M2500	2500 ml

1-Hexanol

Hexyl alcohol

 $C_6H_{14}O$ $CH_3(CH_2)_5OH$

M, 102.18

CAS: 111-27-3

EINECS: 203-852-3

1l~0.82 kg

melting point -52 °C

boiling point 156–158 °C

flash point 59 °C

clear, colourless liquid

soluble in alcohol

Use: pharmaceutical productions

R: 22

S: 2-24/25-46

RTECS: MQ4025000

ADR/RID 3/III

UN 2282

pure

Cat. No. 20033-CTO

Assay
 ≥ 98 % |

Order number	Quantity
20033-CTO-M1000	1000 ml

Hexyl alcohol, see 1-Hexanol – page 84

Hippuric acid

 $C_9H_9NO_3$ $C_6H_5CONHCH_2COOH$

M, 179.18

CAS: 495-69-2

EINECS: 207-806-3

melting point 190 °C

almost white crystalline powder

slightly soluble in water

Use: organic syntheses, biochemistry

S: 22-24/25

RTECS: MR8150000

pure

Cat. No. 10031-CPO

Assay
 ≥ 97 % |

Order number	Quantity
10031-CPO-G0100	100 g

L-Histidine

 $C_6H_9N_3O_2$ $NHCH_2NHC\dot{C}H_2CH(NH_2)COOH$

M, 155.16

CAS: 71-00-1

EINECS: 200-745-3

melting point 285 °C

colourless crystals or white powder

readily soluble in water

Use: biochemistry

RTECS: MS3070000

G.R.

Cat. No. 40061-ATO

Assay
 ≥ 99 % | $[\alpha]_D^{20}(c = 5, H_2O)$
 $-39^\circ \pm 1^\circ$ |

Order number	Quantity
40061-ATO-G0100	100 g

Hydrazine dihydrochloride

$N_2H_4 \cdot 2HCl$
 $NH_2NH_2 \cdot 2HCl$
 M_r 104.97
 CAS: 5341-61-7
 EINECS: 226-283-2
 melting point 198 °C
 colourless crystals or white powder
 readily soluble in water

Use: reductant



R: 45-23/24/25-43-50/53
 S: 1/2-53-45-60-61
 RTECS: MV2298000
 UN 3290

ADR/RID 6.1/II

G.R.

Cat. No. 40062-AP0

Assay $\geq 99\%$
 SO_4 $\leq 0.005\%$
 Pb $\leq 0.0005\%$
 Fe $\leq 0.0005\%$
 Sulfated ash $\leq 0.05\%$

Order number	Quantity
40062-AP0-G0250	250 g

pure

Cat. No. 40062-CP0

Assay $\geq 97\%$

Order number	Quantity
40062-CP0-G0250	250 g

Hydrazine sulfate

$N_2H_4 \cdot H_2SO_4$
 $NH_2NH_2 \cdot H_2SO_4$
 M_r 130.12
 CAS: 10034-93-2
 EINECS: 233-110-4
 melting point 254 °C
 colourless crystals or white powder
 soluble in water

Use: analytical reductant, organic syntheses, e.g. production of azides



R: 45-23/24/25-43-50/53
 S: 1/2-53-45-60-61
 RTECS: MV9625000
 UN 3288

ADR/RID 6.1/III

G.R.

Cat. No. 40139-AP0

Assay $\geq 99\%$
 Sulfated ash $\leq 0.05\%$
 Cl $\leq 0.001\%$
 Fe $\leq 0.001\%$
 Heavy metals (as Pb) $\leq 0.001\%$

Order number	Quantity
40139-AP0-G0100	100 g
40139-AP0-G0250	250 g

pure

Cat. No. 40139-CP0

Assay $\geq 98\%$
 Sulfated ash $\leq 0.01\%$
 Cl $\leq 0.005\%$
 Fe $\leq 0.002\%$
 Heavy metals (as Pb) $\leq 0.0025\%$

Order number	Quantity
40139-CP0-G0500	500 g

Hydrobromic acid 48 %

HBr
 M_r 80.92
 CAS: 10035-10-6
 EINECS: 233-113-0
 1l~1.50 kg
 melting point $-11\text{ }^\circ\text{C}$
 boiling point $126\text{ }^\circ\text{C}$
 colourless or yellowish to brown fuming liquid, darkens with storage
 miscible with water and alcohol

Use: analytical reagent, organic syntheses, e.g. production of bromides



R: 34-37
 S: 1/2-7/9-26-45
 RTECS: MW3850000
 UN 1788

ADR/RID 8/II

G.R.

Cat. No. 10018-A48

Assay $\geq 48\%$
 Cl $\leq 0.02\%$
 $SO_4 + SO_3$ (as SO_4) $\leq 0.003\%$

Order number	Quantity
10018-A48-M1000	1000 ml

pure

Cat. No. 10018-C48

Assay $\geq 48\%$
 $SO_4 + SO_3$ (as SO_4) $\leq 0.005\%$

Order number	Quantity
10018-C48-M1000	1000 ml

Hydrochloric acid 37%; 35%

HCl
 M, 36.46
 CAS: 7647-01-0
 EINECS: 231-595-7
 1l~1.19 kg
 melting point -25 to -40 °C
 boiling point 50 to 85 °C
 clear, colourless or light yellow fuming
 liquid
 miscible with water

Use: analytical reagent, e.g. in volumetric analysis, samples treatment before metals analysis, inorganic syntheses, pharmaceutical productions



R: 34-37
 S: 1/2-26-45
 RTECS: MW4025000
 UN 1789

ADR/RID 8/II

puriss ACS 37 %**Cat. No. 10033-E37**

Assay 36.5–38 %
 Color ≤ 10 APHA
 Heavy metals (as Pb) ≤ 0.0001 %
 Residue after ignition ≤ 0.0005 %
 Br ≤ 0.005 %
 SO₄ ≤ 0.0001 %
 SO₃ ≤ 0.0001 %
 Fe ≤ 0.00002 %
 NH₄ ≤ 0.0003 %
 As ≤ 0.000001 %
 Extractable organic subst. passes test
 Free Cl₂ ≤ 0.0001 %

Order number	Quantity
10033-E37-M0500	500 ml
10033-E37-M2500	2500 ml

selectipur 37 %**Cat. No. 10033-P37**

Assay ≥ 37 %
 Sulfated ash ≤ 0.0005 %
 Free Cl₂ ≤ 0.00005 %
 SO₄ ≤ 0.0001 %
 SO₃ ≤ 0.0001 %
 Fe ≤ 0.0001 %
 Heavy metals (as Pb) ≤ 0.0001 %
 As ≤ 0.00001 %

Order number	Quantity
10033-P37-M1000	1000 ml

G.R. 37 %**Cat. No. 10033-A37**

Assay ≥ 37 %
 SO₄ ≤ 0.0002 %
 Sulfated ash ≤ 0.001 %
 H₂SO₃ (as SO₃) ≤ 0.001 %
 Free Cl₂ ≤ 0.0002 %
 Heavy metals (as Pb) ≤ 0.0003 %
 Fe ≤ 0.0001 %
 As ≤ 0.00001 %

Order number	Quantity
10033-A37-M1000	1000 ml

G.R. 35 %**Cat. No. 10033-A35**

Assay ≥ 35 %
 SO₄ ≤ 0.0002 %
 Sulfated ash ≤ 0.001 %
 H₂SO₃ (as SO₃) ≤ 0.001 %
 Free Cl₂ ≤ 0.0002 %
 Heavy metals (as Pb) ≤ 0.0003 %
 Fe ≤ 0.0001 %
 As ≤ 0.00001 %

Order number	Quantity
10033-A35-M1000	1000 ml
10033-A35-M5000	5000 ml

G.R. 35 % (As max. 0.000001 %)**Cat. No. 10033-ATX**

Assay ≥ 35 %
 SO₄ ≤ 0.0002 %
 Sulfated ash ≤ 0.001 %
 H₂SO₃ (as SO₃) ≤ 0.001 %
 Free Cl₂ ≤ 0.0002 %
 Heavy metals (as Pb) ≤ 0.0003 %
 Fe ≤ 0.0001 %
 As ≤ 0.000001 %

Order number	Quantity
10033-ATX-M1000	1000 ml

Hydrochloric acid 37%; 35%

pure 35%

Cat. No. 10033-C35

Assay	≥ 35 %
Fe	≤ 0.0005 %
Free Cl ₂	≤ 0.0008 %
SO ₄	≤ 0.001 %
Sulfated ash	≤ 0.005 %
Heavy metals (as Pb)	≤ 0.001 %

Order number	Quantity
10033-C35-M1000	1000 ml
10033-C35-M2500	2500 ml

pharm. 35%

Cat. No. 10033-F35

Acidum hydrochloricum 35 %

Order number	Quantity
10033-F35-M1000	1000 ml

Hydrofluoric acid 50%

HF

M, 20.01

CAS: 7664-39-3

EINECS: 231-634-8

1l~1.16 kg

melting point -35 °C

boiling point 106 °C

clear, colourless fuming liquid

miscible with water

Use: analytical reagent (elimination of silica compounds), synthesis of fluorocarbons, food industry, electrical industry



R: 26/27/28-35

S: 1/2-7/9-26-36/37-45

RTECS: MW7875000

UN 1790

ADR/RID 8/II

puriss ACS

Cat. No. 10024-E50

Assay	48–51 %
Heavy metals (as Pb)	≤ 0.00005 %
Residue after ignition	≤ 0.0005 %
SO ₄ , SO ₃ (as SO ₄)	≤ 0.0005 %
PO ₄	≤ 0.0001 %
As	≤ 0.000005 %
Cu	≤ 0.00001 %
Fe	≤ 0.0001 %
Cl	≤ 0.0005 %
H ₂ SiF ₆	≤ 0.01 %

Order number	Quantity
10024-E50-G0500	500 g

selectipur

Cat. No. 10024-P50

Assay	49–51 %
Sulfated ash	≤ 0.001 %
H ₂ SiF ₆	≤ 0.09 %
Cl	≤ 0.001 %
SO ₄	≤ 0.001 %
SO ₃	≤ 0.001 %
Cu	≤ 0.000005 %
Heavy metals (as Pb)	≤ 0.0004 %

Order number	Quantity
10024-P50-M1000	1000 ml

Hydrofluoric acid 40%

HF

M, 20.01

CAS: 7664-39-3

EINECS: 231-634-8

1l~1.13 kg

melting point -44 °C

boiling point 112 °C

clear, colourless liquid

miscible with water

Use: analytical reagent (elimination of silica compounds), synthesis of fluorocarbons, food industry, electrical industry



R: 26/27/28-35

S: 1/2-7/9-26-36/37-45

RTECS: MW7875000

UN 1790

ADR/RID 8/II

selectipur

Cat. No. 10024-P40

Assay	39–40 %
Sulfated ash	≤ 0.001 %
H ₂ SiF ₆	≤ 0.09 %
Cl	≤ 0.001 %
SO ₄	≤ 0.001 %
SO ₃	≤ 0.001 %
Cu	≤ 0.000005 %
Heavy metals (as Pb)	≤ 0.0004 %

Order number	Quantity
10024-P40-M1000	1000 ml

G.R.

Cat. No. 10024-A40

Assay	38–40 %
H ₂ SiF ₆	≤ 0.1 %
Sulfated ash	≤ 0.001 %
Cl	≤ 0.001 %
SO ₄	≤ 0.001 %
SO ₃	≤ 0.005 %
Fe	≤ 0.0005 %
Heavy metals (as Pb)	≤ 0.0005 %

Order number	Quantity
10024-A40-M1000	1000 ml

Hydrofluoric acid 40 %

pure

Cat. No. 10024-C40

Assay	38–40 %
H ₂ SiF ₆	≤ 0.1 %
Sulfated ash	≤ 0.005 %
Cl	≤ 0.005 %
SO ₄	≤ 0.01 %
Fe	≤ 0.0005 %
Heavy metals (as Pb)	≤ 0.0005 %

Order number	Quantity
10024-C40-M1000	1000 ml

Hydrogen peroxide 30 %

H₂O₂
 M, 34.02
 CAS: 7722-84-1
 EINECS: 231-765-0
 1l~1.11 kg
 melting point –30 °C
 boiling point 106 °C
 clear, colourless liquid
 miscible with water

Use: analytical oxidizer, bleaching and disinfecting agent, pharmaceutical productions

puriss ACS stabilized

Cat. No. 10064-ET5

Assay	29–32 %
Color	≤ 10 APHA
Heavy metals (as Pb)	≤ 0.0001 %
Cl	≤ 0.0003 %
NO ₃	≤ 0.0002 %
PO ₄	≤ 0.0002 %
SO ₄	≤ 0.0005 %
NH ₄	≤ 0.0005 %
Fe	≤ 0.00005 %
Non-volatile substances	≤ 0.002 %
Acidity	≤ 0.0006 mEq/g

Order number	Quantity
10064-ET5-G0100	100 g
10064-ET5-G0500	500 g

G.R. nonstabilized

Cat. No. 10064-A30

Assay	29–32 %
Non-volatile subst.	≤ 0.005 %
Free acids (as H ₂ SO ₄)	≤ 0.005 %
Cl	≤ 0.0005 %
SO ₄	≤ 0.0005 %
PO ₄	≤ 0.0005 %
Heavy metals (as Pb)	≤ 0.00002 %
Fe	≤ 0.00005 %
Total N	≤ 0.002 %

Order number	Quantity
10064-A30-M0500	500 ml
10064-A30-M1000	1000 ml

pharm. stabilized

Cat. No. 10064-FT5

Hydrogenii peroxidum 30 %

Order number	Quantity
10064-FT5-M1000	1000 ml

Hydrogen tetrachloroaurate(III) trihydrate

Chloroauric acid trihydrate; Gold chloride acid trihydrate
 HAuCl₄·3H₂O
 M, 393.83
 CAS: 16961-25-4
 orange glistening powder or lumps
 readily soluble in water, soluble in alcohol and ether

Use: analytical reagent (AAS)

puriss ACS

Cat. No. 10061-EPO

Assay (Au)	≥ 49 %
Insoluble matter in ether	≤ 0.1 %
Alkalies and other metals (SO ₄)	≤ 0.2 %

Order number	Quantity
10061-EPO-G0001	1 g



R: 22-41
 S: 2-17-26-28-36/37/39-45
 RTECS: MX0899000
 UN 2014

ADR/RID 5.1/II



R: 22-34
 S: 1/2-26-36/37/39-45
 UN 3260

ADR/RID 8/III

Hydroiodic acid 57 %

HI
 M_r 127.92
 CAS: 10034-85-2
 EINECS: 233-109-9
 1l~1.70 kg
 boiling point 127 °C
 colourless or yellow to red-brown fuming
 liquid, darkens with storage
 miscible with water

Use: analytical reductant, determination of methoxyl groups



R: 34
 S: 1/2-26-45
 RTECS: MW3760000
 UN 1787

ADR/RID 8/II

G.R.**Cat. No. 10037-A57**

Assay 55–58 %
 Br, Cl (as Cl) ≤0.02 %
 SO₄ ≤0.005 %
 Ca ≤0.001 %
 Fe ≤0.0005 %
 Pb ≤0.0005 %

Order number	Quantity
10037-A57-M0500	500 ml

pure**Cat. No. 10037-C57**

Assay ≥57 %
 Non-volatile substances ≤0.5 %
 Fe ≤0.001 %
 Heavy metals (as Pb) ≤0.001 %

Order number	Quantity
10037-C57-M0500	500 ml

Hydroquinone

C₆H₆O₂
 HO-C₆H₄-OH
 M_r 110.11
 CAS: 123-31-9
 EINECS: 204-617-8
 melting point 171–175 °C
 boiling point 285–287 °C
 white to off-white powder
 readily soluble in alcohol and acetone

Use: photographic purposes, antioxidant, polymerization inhibitor, stabilizer in ether



R: 22-40-41-43-50-68
 S: 2-26-36/37/39-46-61
 RTECS: MX3500000

ADR/RID 8/II

G.R.**Cat. No. 40067-AP0**

Assay ≥99 %
 Melting point 171–175 °C
 Sulfated ash ≤0.1 %
 Fe ≤0.002 %

Order number	Quantity
40067-AP0-G0500	500 g

pure**Cat. No. 40067-CP0**

Melting point 171–175 °C

Order number	Quantity
40067-CP0-G0500	500 g

Hydroxylamine hydrochloride

NH₂OH.HCl
 M_r 69.49
 CAS: 5470-11-1
 EINECS: 226-798-2
 melting point 157 °C
 colourless crystals or white to light yellowish powder, hygroscopic
 readily soluble in water

Use: analytical reductant, e.g. for the determination of mercury, iron, vanadium, preparation of oximes, catalyst and copolymerization inhibitor



R: 22-36/38-43-48/22-50
 S: 2-22-24-37-46-61
 RTECS: NC3675000
 UN 2923

ADR/RID 8/II

G.R.**Cat. No. 40069-AP0**

Assay ≥98 %
 Loss on drying (at 110 °C) ≤2 %
 Fe ≤0.005 %
 Pb ≤0.005 %
 SO₄ ≤0.005 %

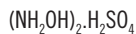
Order number	Quantity
40069-AP0-G0500	500 g
40069-AP0-G1000	1000 g

pure**Cat. No. 40069-CP0**

Assay ~98 %
 pH (5 %, H₂O) 2.5–3.5

Order number	Quantity
40069-CP0-G1000	1000 g

Hydroxylamine sulfate



M, 164.14

CAS: 10039-54-0

EINECS: 233-118-8

melting point 170 °C

colourless crystals or white powder,

hygroscopic

readily soluble in hot water

Use: analytical reductant, e.g. for the determination of mercury and silver in water, organic syntheses



R: 22-36/38-43-48/22-50

S: 2-22-24-37-46-61

RTECS: NC5425000

ADR/RID 8/III

UN 2865

pure**Cat. No. 40070-CP0**

Assay ≥ 96 %

Subst. insoluble in H₂O ≤ 0.01 %

Sulfated ash ≤ 0.05 %

NH₄ ≤ 0.8 %

Fe ≤ 0.002 %

Order number	Quantity
40070-CP0-G0500	500 g

H

8-Hydroxyquinoline

8-Quinolinol

C₉H₇NOHOC₈H₆N:CHCH:CH

M, 145.16

CAS: 148-24-3

EINECS: 205-711-1

melting point 72–76 °C

boiling point 267 °C

white or light yellowish to light brown powder

hardly soluble in water, easily in alcohol and ether

Use: analytical reagent for the determination of arsenic, barium, aluminium, cadmium, cerium, iron, gallium, germanium, indium, copper, lithium, magnesium, chelating agent, biochemistry, pharmaceutical productions



R: 22-36/37/38-68

S: 2-26-36/37/39-46

RTECS: VC4200000

G.R.**Cat. No. 40068-AP0**

Assay ≥ 99 %

Sulfated ash ≤ 0.05 %

Cl ≤ 0.002 %

SO₄ ≤ 0.01 %

Order number	Quantity
40068-AP0-G0050	50 g



Indicator paper strips, see part II. Other Products – page 231

Iodine

I_2
 M, 253.81
 CAS: 7553-56-2
 EINECS: 231-442-4
 melting point 114 °C
 boiling point 183 °C
 grey-violet plates or crystals
 very hardly soluble in water, readily in alcohol

Use: analytical reagent, e.g. in volumetric analysis (iodometry), in preparative organic chemistry, pharmaceutical productions



R: 20/21-50
 S: 2-23-25-46-61
 RTECS: NN1575000
 UN 3077

ADR/RID 9/III

puriss ACS

Cat. No. 30111-EPO

Assay $\geq 99.8\%$
 Cl, Br (as Cl) $\leq 0.005\%$
 Residue on evaporation $\leq 0.01\%$

Order number	Quantity
30111-EPO-G0500	500 g

G.R.

Cat. No. 30111-AP0

Assay $\geq 99.5\%$
 Cl, Br (as Cl) $\leq 0.005\%$
 Residue on evaporation $\leq 0.02\%$

Order number	Quantity
30111-AP0-G0500	500 g
30111-AP0-G1000	1000 g

pure

Cat. No. 30111-CP0

Assay $\geq 99.5\%$
 Cl, Br (as Cl) $\leq 0.015\%$
 Residue on evaporation $\leq 0.05\%$

Order number	Quantity
30111-CP0-G0500	500 g
30111-CP0-G1000	1000 g

pharm.

Cat. No. 30111-FP0

Iodum

Order number	Quantity
30111-FP0-G0500	500 g
30111-FP0-G1000	1000 g

Iodine trichloride

ICl_3
 M, 233.26
 CAS: 865-44-1
 EINECS: 212-739-8
 melting point 33 °C
 boiling point 77 °C (decomposition)
 spec. stor. cond. -18 °C
 dark brown liquid or solid, hygroscopic
 rapidly decomposes with water

Use: analytical reagent for the determination of oil's iodine value, iodinating agent in organic chemistry



R: 34
 S: 1/2-26-36/37/39-45
 UN 3260

ADR/RID 8/II

pure

Cat. No. 30082-CP0

Assay $\geq 97\%$

Order number	Quantity
30082-CP0-G0500	500 g

Iron(II) chloride anhydrous

Ferrous chloride anhydrous



M, 126.75

CAS: 7758-94-3

EINECS: 231-843-4

melting point 673 °C

dark grey-yellow or light brown crystalline powder

readily soluble in water and in alcohol

Use: source of Fe(II) for industrial oxidations/reductions

R: 22-36/38

S: 2-26-46

ADR/RID 8/III

UN 3260

pure**Cat. No. 30102-CPO**

Assay ≥ 99 %

Order number	Quantity
30102-CPO-G0050	50 g

Iron(III) chloride anhydrous

Ferric chloride anhydrous



M, 162.21

CAS: 7705-08-0

EINECS: 231-729-4

melting point 300 °C

boiling point 316 °C

red-brown to brown crystals, hygroscopic

readily soluble in water

Use: oxidizer, chlorinating and condensing agent

R: 22-34-41

S: 1/2-7/8-26-45

RTECS: LI9100000

ADR/RID 8/III

UN 1773

pure**Cat. No. 30100-CPO**

Assay ≥ 98 %

Order number	Quantity
30100-CPO-G0500	500 g
30100-CPO-G1000	1000 g

Iron(III) chloride hexahydrate

Ferric chloride hexahydrate



M, 270.30

CAS: 10025-77-1

EINECS: 231-729-4

melting point 37 °C

boiling point 280–285 °C

spec. stor. cond. < 20 °C

rusty yellowish material, hygroscopic

readily soluble in water

Use: analytical reagent for phenol compounds, determination of aminoacids, production of salbutamol

R: 22-34-41

S: 1/2-7/8-26-45

RTECS: N05425000

ADR/RID 8/III

UN 3260

G.R.**Cat. No. 30101-APO**

Assay 99–102 %

SO₄ ≤ 0.005 %

Pb ≤ 0.002 %

As ≤ 0.0005 %

Fe²⁺ ≤ 0.005 %

Order number	Quantity
30101-APO-G0500	500 g
30101-APO-G1000	1000 g

pure**Cat. No. 30101-CPO**

Assay ~97 %

Order number	Quantity
30101-CPO-G0500	500 g
30101-CPO-G1000	1000 g

Iron(III) citrate monohydrate

Ferric citrate monohydrate
 $C_6H_5FeO_7 \cdot H_2O$
 M, 269.97
 CAS: 2338-05-8
 EINECS: 219-045-4
 red-brown crystalline powder
 soluble in water

Use: biological source of Fe, organic syntheses, medium for tissue cultures, blueprint

S: 22-24/25

G.R.**Cat. No. 30012-AP0**

Assay (Fe) 18–20 %
 Cl ≤0.05 %
 Ca ≤0.01 %
 Ni ≤0.01 %

Order number	Quantity
30012-AP0-G0100	100 g

Iron(III) oxide

Ferric oxide
 Fe_2O_3
 M, 159.68
 CAS: 1309-37-1
 EINECS: 215-168-2
 melting point 1562 °C
 red-brown powder
 insoluble in water

Use: catalyst, paper and glass industry (dye), carrier of magnetic recording (e.g. magnetic tapes)

S: 22-24/25
 RTECS: N07400000

G.R.**Cat. No. 30151-AP0**

Assay ≥99 %
 Subst. insoluble in HCl ≤0.01 %
 Total N ≤0.005 %
 Cl ≤0.01 %
 SO_4 ≤0.01 %
 Pb ≤0.005 %

Order number	Quantity
30151-AP0-G1000	1000 g

pure**Cat. No. 30151-CP0**

Assay ≥97 %
 Subst. insoluble in HCl ≤2.5 %

Order number	Quantity
30151-CP0-G1000	1000 g

Iron powder

Fe
 M, 55.85
 CAS: 7439-89-6
 EINECS: 231-096-4
 melting point 1535 °C
 boiling point 2730–3000 °C
 grey powder
 insoluble in water

Use: preparation of other compounds



ADR/RID 4.1/III

R: 11
 S: 2-16-33-46
 RTECS: N04565500
 UN 3089

G.R.**Cat. No. 30223-AP0**

Assay ≥99 %
 Subst. insoluble in HCl ≤0.5 %
 Cl ≤0.002 %
 As ≤0.0005 %

Order number	Quantity
30223-AP0-G1000	1000 g

Iron powder FeSi 15

grey powder
 insoluble in water

Use: reductant, catalyst for ultrasonic reactions, catalyst in organic syntheses, magnetic separation of materials

Cat. No. 30224-BP0

Si 14–16 %
 P ≤0.1 %
 S ≤0.05 %
 C ≤0.8 %

Order number	Quantity
30224-BP0-G1000	1000 g

Iron(II) sulfate heptahydrate

Ferrous sulfate heptahydrate

 $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$

M, 278.02

CAS: 7782-63-0

EINECS: 231-753-5

melting point 65 °C

boiling point 300 °C

green crystals

easily soluble in water

Use: analytical reagent, e.g. reductant for the determination of phosphorus, polymerization catalyst



R: 22-36/37/38

S: 2-26-36-46

RTECS: N08510000

G.R.**Cat. No. 30193-AP0**

Assay ≥ 99 %

Cl ≤ 0.005 %

Subst. insoluble in H_2O ≤ 0.005 % Fe^{3+} ≤ 0.2 %

Order number	Quantity
30193-AP0-G0500	500 g
30193-AP0-G1000	1000 g

pure**Cat. No. 30193-CP0**

Assay ≥ 98 %

Order number	Quantity
30193-CP0-G0500	500 g
30193-CP0-G1000	1000 g

Iron(III) sulfate hydrate

Ferric sulfate hydrate

 $\text{Fe}_2(\text{SO}_4)_3 \cdot \text{aq}$

M, 399.88 + aq

CAS: 10028-22-5

EINECS: 233-072-9

melting point 480 °C

off-white powder, hygroscopic

easily soluble in water

Use: treatment of drinking water



R: 22-36/37/38

S: 2-26-36-46

RTECS: N08505000

G.R.**Cat. No. 30192-AP0**

Assay of Fe 21–23 %

Subst. insoluble in HCl ≤ 0.01 %

Cl ≤ 0.005 %

Subst. not precipit. by NH_4OH (as SO_4) ≤ 0.05 %

Order number	Quantity
30192-AP0-G0500	500 g

pure**Cat. No. 30192-CP0**

Assay of Fe 21–23 %

Order number	Quantity
30192-CP0-G0500	500 g

Iron(II) sulfide

Ferrous sulfide

FeS

M, 87.91

CAS: 1317-37-9

EINECS: 215-268-6

melting point 1194 °C

grey to brown-black powder

insoluble in water

Use: analytical reagent for laboratory preparation of hydrogen sulphide



R: 32-36/37/38

S: 2-26-36-46

for Kipp's apparatus**Cat. No. 30199-KP0**

Order number	Quantity
30199-KP0-G1000	1000 g

Isobutanol, see 2-Methyl-1-propanol – page 116

Isobutyric acid

C₄H₈O₂
 (CH₃)₂CHCOOH
 M, 88.11
 CAS: 79-31-2
 EINECS: 201-195-7
 1l~0.95 kg
 melting point -46 °C
 boiling point 154 °C
 flash point 55 °C
 clear, colourless liquid
 miscible with water, soluble in alcohol

Use: production of esters



ADR/RID 3/III

R: 21/22
 S: 2-46
 RTECS: NQ4375000
 UN 2529

G.R.**Cat. No. 10034-ATO**

Assay ≥ 99.5 %
 H₂O ≤ 0.2 %
 Fe ≤ 0.00001 %
 Pb ≤ 0.00001 %

Order number	Quantity
10034-ATO-M1000	1000 ml

pure**Cat. No. 10034-CTO**

Assay ~98 %
 Butyric acid ≤ 1.5 %
 2-Methylbutyric acid ≤ 0.5 %

Order number	Quantity
10034-CTO-M1000	1000 ml

Isooctane

2,2,4-Trimethylpentane
 C₈H₁₈
 (CH₃)₂CHCH₂C(CH₃)₃
 M, 114.23
 CAS: 540-84-1
 EINECS: 208-759-1
 1l~0.69 kg
 melting point -107 °C
 boiling point 98–99 °C
 flash point -12 °C
 clear, colourless liquid
 miscible with alcohol and ether

Use: solvent, e.g. for spectrophotometric measurements in UV region, HPLC



R: 11-38-50/53-65-67
 S: 2-9-16-29-33-60-61-62
 RTECS: SA3320000
 ADR/RID 3/II UN 1262

puriss ACS**Cat. No. 20036-ETO**

Assay ≥ 99 %
 Color ≤ 10 APHA
 Non-volatile substances ≤ 0.001 %
 Acidity (in water soluble) ≤ 0.0003 mEq/g
 Sulfur compounds (as S) ≤ 0.005 %

Order number	Quantity
20036-ETO-M0500	500 ml
20036-ETO-M1000	1000 ml

G.R.**Cat. No. 20036-ATO**

Assay ≥ 99 %
 H₂O (K.F.) ≤ 0.05 %
 Non-volatile substances ≤ 0.002 %
 Free acids (as CH₃COOH) ≤ 0.003 %

Order number	Quantity
20036-ATO-M1000	1000 ml

for UV spectroscopy**Cat. No. 20036-UTO**

Assay ≥ 99.5 %
 Water ≤ 0.01 %
 Evaporation residue ≤ 0.0005 %
 UV transmission levels
 Wavelength Transmission
 230 nm ≥ 90 %
 240 nm ≥ 95 %
 250 nm ≥ 98 %

Order number	Quantity
20036-UTO-M1000	1000 ml

for HPLC**Cat. No. 20036-LTO**

Assay ≥ 99.5 %
 Water ≤ 0.01 %
 Acidity (mEq./g) ≤ 0.0005
 Evaporation residue ≤ 0.0005 %
 UV transmission levels
 Wavelength Transmission
 220 nm ≥ 80 %
 230 nm ≥ 95 %
 240 nm ≥ 98 %
 250 nm ≥ 99 %

Order number	Quantity
20036-LTO-M2500	2500 ml

Isopentyl alcohol, see 3-Methyl-1-butanol – page 116

Isopropanol

Isopropyl alcohol

C₃H₈O(CH₃)₂CHOH

M. 60.10

CAS: 67-63-0

EINECS: 200-661-7

1l~0.78 kg

melting point -88 °C

boiling point 82 °C

flash point 12 °C

clear, colourless liquid

miscible with water, alcohol, ether

Use: solvent in laboratories and industry, e.g. for spectrophotometric measurements in UV region, HPLC, organic syntheses, production of cosmetic



R: 11-36-67

S: 2-7-16-24/25-26-46

RTECS: NT8050000

ADR/RID 3/II

UN 1219

puriss ACS**Cat. No. 20037-ETO**

Assay ≥ 99.5 %
 Color ≤ 10 APHA
 H₂O (K.F.) ≤ 0.2 %
 Solubility in water passes test
 Non-volatile substances ≤ 0.001 %
 Carbonyl compounds
 (as acetone or propionaldehyde) ≤ 0.002 %
 Acidity ≤ 0.0001 mEq/g
 Alkalinity ≤ 0.0001 mEq/g

Order number	Quantity
20037-ETO-M0500	500 ml
20037-ETO-M1000	1000 ml

G.R.**Cat. No. 20037-ATO**

Assay ≥ 99.7 %
 Non-volatile substances ≤ 0.005 %
 Acidity (as HCl) ≤ 0.001 %
 H₂O (K.F.) ≤ 0.1 %

Order number	Quantity
20037-ATO-M1000	1000 ml
20037-ATO-M5000	5000 ml

pure**Cat. No. 20037-CTO**

Assay ≥ 99.5 %
 Non-volatile substances ≤ 0.01 %
 Acidity (as HCl) ≤ 0.002 %
 H₂O (K.F.) ≤ 0.3 %

Order number	Quantity
20037-CTO-M1000	1000 ml
20037-CTO-M5000	5000 ml

for UV spectroscopy**Cat. No. 20037-UTO**

Assay ≥ 99.8 %
 Water ≤ 0.1 %
 Evaporation residue ≤ 0.0005 %
 UV transmission levels
 Wavelength Transmission
 210 nm ≥ 25 %
 220 nm ≥ 55 %
 230 nm ≥ 75 %
 250 nm ≥ 95 %
 260 nm ≥ 98 %

Order number	Quantity
20037-UTO-M1000	1000 ml

for HPLC**Cat. No. 20037-LTO**

Assay ≥ 99.8 %
 Water ≤ 0.1 %
 Acidity (mEq./g) ≤ 0.0005
 Evaporation residue ≤ 0.0005 %
 UV transmission levels
 Wavelength Transmission
 210 nm ≥ 40 %
 220 nm ≥ 60 %
 230 nm ≥ 80 %
 240 nm ≥ 98 %
 250 nm ≥ 99 %

Order number	Quantity
20037-LTO-M2500	2500 ml

Isopropyl alcohol, see Isopropanol – page 96

Karl Fischer Reagent – solution A – methanolic iodine

1l~0.93 kg
flash point 8 °C
dark brown liquid
completely miscible with water

Use: analytical reagent for the determination of water in organic and inorganic compounds by K-F titration



R: 11-23/24/25-39/23/24/25
S: 1/2-7-16-36/37-45
ADR/RID 3/II UN 1992

Cat. No. 40047-XT0

Reagent titre after mixing
A 100 g + B 54 g (in 24 hours) 3.5–4.5 mg H₂O/ml

Order number	Quantity
40047-XT0-G0800	800 g

Karl Fischer Reagent – solution B – methanolic pyridine – sulfur dioxide solution

1l~0.93 kg
flash point 12 °C
colourless or light yellow liquid
completely miscible with water

Use: analytical reagent for the determination of water in organic and inorganic compounds by K-F titration



R: 11-23/24/25-39/23/24/25
S: 1/2-7-16-36/37-45
ADR/RID 3/II UN 1992

Cat. No. 40048-XT0

Reagent titre after mixing
A 100 g + B 54 g (in 24 hours) 3.5–4.5 mg H₂O/ml

Order number	Quantity
40048-XT0-G0800	800 g



DL-Lactic acid 90 %

$C_3H_6O_3$
 $CH_3CH(OH)COOH$
 M, 90.08
 CAS: 598-82-3
 EINECS: 209-954-4
 1~1.21 kg
 melting point 16–26 °C
 boiling point 122 °C
 colourless or yellowish syrupy liquid,
 hygroscopic
 soluble in water and alcohol

Use: analytical reagent, food industry
(baking industry, brewing industry)



R: 36/38
 S: 2-26-36-46
 RTECS: OD2800000
 ADR/RID 8/II UN 3265

pure**Cat. No. 10022-C90**

Assay ~90 %

Order number	Quantity
10022-C90-M1000	1000 ml

L

L-(+)-Lactic acid 80 %

$C_3H_6O_3$
 $CH_3CH(OH)COOH$
 M, 90.08
 CAS: 79-33-4
 EINECS: 201-196-2
 1~1.20 kg
 melting point 16–26 °C
 boiling point 119 °C
 colourless or yellowish syrupy liquid,
 hygroscopic
 soluble in water and alcohol

Use: food industry (baking industry,
brewing industry)



R: 36/38
 S: 2-26-36-46
 RTECS: OD3100000
 ADR/RID 8/II UN 3265

pure**Cat. No. 10022-C80**

Assay ≥79 %

Order number	Quantity
10022-C80-M1000	1000 ml

Lactose monohydrate

$C_{12}H_{22}O_{11} \cdot H_2O$
 M, 360.32
 CAS: 5989-81-1
 EINECS: 200-559-2
 melting point 223 °C
 colourless crystals or white powder
 easily soluble in water

Use: pharmaceutical productions, compo-
nent of culture media for microbiological
purposes, chromatographic adsorbent

G.R.**Cat. No. 40088-APO**

Sulfated ash ≤0.1 %
 $[\alpha]_D^{20}$ (c = 10 in H_2O) +52.5° ± 0.5°
 As ≤0.0002 %
 Fe ≤0.002 %
 Heavy metals (as Pb) ≤0.002 %

Order number	Quantity
40088-APO-G0500	500 g
40088-APO-G1000	1000 g

Lanolin anhydrous

CAS: 8006-54-0
 EINECS: 232-348-6
 light yellow oily mass
 insoluble in water, easily soluble in ether

Use: pharmaceutical productions

pharm.
Cat. No. 40160-FPO
 Adeps lanae

Order number	Quantity
40160-FPO-G0500	500 g

Lanthanum oxide

La₂O₃
 M, 325.82
 CAS: 1312-81-8
 EINECS: 215-200-5
 melting point 2315 °C
 boiling point 2400 °C
 white powder
 insoluble in water

Use: analytical reagent, glass industry
 (sodium lamps, optical glass), cores of
 carbon electrodes for arc lamps

S: 22-24/25
 RTECS: DE5330000

G.R.
Cat. No. 30140-AP0
 Assay (on ignit. subst.) ≥ 99.9 %

Order number	Quantity
30140-AP0-G0100	100 g
30140-AP0-G0500	500 g

Lead(II) acetate basic

C₄H₈O₆Pb₂
 (CH₃COO)₂Pb.Pb(OH)₂
 M, 566.50
 CAS: 1335-32-6
 EINECS: 215-630-3
 melting point 844 °C
 white powder
 soluble in water

Use: sugar analysis according to Horn's
 method



R: 61-33-40-48/22-
 -50/53-62
 S: 1/2-53-45-60-61
 RTECS: AI5250000
 UN 1616

ADR/RID 6.1/III

according to Horne
Cat. No. 40119-OP0
 Assay of total Pb ≥ 70 %
 Assay of basic Pb (as PbO) ≥ 30 %
 Subst. insoluble in H₂O ≤ 1 %
 Fe ≤ 0.01 %

Order number	Quantity
40119-OP0-G1000	1000 g

Lead(II) acetate trihydrate

C₄H₆PbO₄·3H₂O
 (CH₃COO)₂Pb·3H₂O
 M, 379.33
 CAS: 6080-56-4
 EINECS: 206-104-4
 melting point 75 °C
 boiling point 200 °C (decomposition)
 white crystalline powder or crystals
 readily soluble in water, slightly in alcohol

G.R.
Cat. No. 40118-AP0
 Assay ≥ 99.5 %
 Subst. insoluble in CH₃COOH ≤ 0.005 %
 Cl ≤ 0.0005 %
 Fe ≤ 0.001 %

Order number	Quantity
40118-AP0-G0250	250 g
40118-AP0-G1000	1000 g

Lead

Lead(II) acetate trihydrate

Use: analytical reagent, e.g. detection of sulphides, chromates, medicine



R: 61-33-48/22-50/53-62
S: 1/2-53-45-60-61
RTECS: OF8050000
UN 1616

ADR/RID 6.1/III

pure

Cat. No. 40118-CP0

Assay ≥ 98 %
Subst. insoluble in H₂O ≤ 0.01 %
Cl ≤ 0.002 %
Fe ≤ 0.002 %

Order number	Quantity
40118-CP0-G0250	250 g
40118-CP0-G1000	1000 g

Lead(II) carbonate

PbCO₃

M, 267.21

CAS: 598-63-0

EINECS: 209-943-4

melting point 315 °C

white powder

insoluble in water and alcohol

Use: analytical reagent



R: 61-20/22-33-50/53-62
S: 1/2-53-45-60-61
RTECS: OF9275000
UN 2291

ADR/RID 6.1/III

G.R.

Cat. No. 30216-APO

Assay ≥ 99 %
Subst. insoluble in CH₃COOH ≤ 0.02 %
Total N ≤ 0.02 %
Cl ≤ 0.002 %
Fe ≤ 0.005 %

Order number	Quantity
30216-APO-G1000	1000 g

Lead(II) chloride

PbCl₂

M, 278.10

CAS: 7758-95-4

EINECS: 231-845-5

melting point 500 °C

boiling point 950 °C

colourless crystals or white powder

slightly soluble in water

Use: analytical reagent, chemical industry



R: 61-20/22-33-50/53-62
S: 1/2-53-45-60-61
RTECS: OF9450000
UN 2291

ADR/RID 6.1/III

G.R.

Cat. No. 30091-APO

Assay ≥ 99 %
Subst. insoluble in H₂O ≤ 0.05 %
Fe ≤ 0.0005 %
Alkaline and earth alk. metals ≤ 0.01 %

Order number	Quantity
30091-APO-G0500	500 g
30091-APO-G1000	1000 g

Lead(II) chromate

PbCrO₄

M, 323.18

CAS: 7758-97-6

EINECS: 231-846-0

melting point 844 °C

yellow powder

insoluble in water, soluble in nitric acid

Use: analytical reagent, e.g. analysis of organic compounds



R: 61-33-40-50/53-62
S: 1/2-53-45-60-61
RTECS: GB2975000
UN 2291

ADR/RID 6.1/III

G.R.

Cat. No. 30109-APO

Assay ≥ 99 %

Order number	Quantity
30109-APO-G0100	100 g

Lead(II) nitrate

Pb(NO₃)₂
 M, 331.20
 CAS: 10099-74-8
 EINECS: 233-245-9
 melting point 470 °C
 white crystals
 easily soluble in water

Use: analytical reagent, e.g. in volumetric analysis



R: 61-8-20/22-33-50/53-62
 S: 1/2-53-45-17-60-61
 RTECS: OG2100000
 ADR/RID 5.1/II UN 1469

G.R.**Cat. No. 30038-AP0**

Assay ≥ 99 %
 Cl ≤ 0.0005 %
 Fe ≤ 0.0005 %
 Subst. insoluble in H₂O ≤ 0.005 %

Order number	Quantity
30038-AP0-G0500	500 g
30038-AP0-G1000	1000 g

pure**Cat. No. 30038-CP0**

Assay ≥ 98 %
 Subst. insoluble in H₂O ≤ 0.05 %

Order number	Quantity
30038-CP0-G0500	500 g
30038-CP0-G1000	1000 g

Lead(II) oxide yellow

PbO
 M, 223.19
 CAS: 1317-36-8
 EINECS: 215-267-0
 melting point 890 °C
 boiling point 1470 °C
 yellow powder
 insoluble in water

Use: analytical reagent



R: 61-20/22-33-50/53-62
 S: 1/2-53-45-60-61
 RTECS: OG1750000
 ADR/RID 6.1/III UN 2291

G.R.**Cat. No. 30145-AP0**

Assay (on dried subst. 150 °C) ≥ 99 %
 Total N ≤ 0.001 %
 Cl ≤ 0.002 %
 Fe ≤ 0.001 %

Order number	Quantity
30145-AP0-G1000	1000 g

pure**Cat. No. 30145-CP0**

Assay ≥ 98 %
 Subst. insoluble in CH₃COOH ≤ 0.2 %
 Loss on ignition (at 600 °C) ≤ 2 %
 Cl ≤ 0.05 %

Order number	Quantity
30145-CP0-G1000	1000 g

Lead(II) sulfate

PbSO₄
 M, 303.25
 CAS: 7446-14-2
 EINECS: 231-198-9
 melting point 1170 °C
 white powder
 practically insoluble in water, soluble in acids

Use: analytical reagent, e.g. for the separation of other substances insoluble in water



R: 61-20/22-33-50/53-62
 S: 1/2-53-45-60-61
 RTECS: OG4375000
 ADR/RID 9/III UN 3077

pure**Cat. No. 30185-CP0**

Assay ≥ 98 %

Order number	Quantity
30185-CP0-G0500	500 g

L

Lithium

Lithium carbonate

Li₂CO₃
 M, 73.89
 CAS: 554-13-2
 EINECS: 209-062-5
 melting point 618–723 °C
 boiling point 1310 °C
 white powder
 hardly soluble in water

Use: analytical reagent, production of other lithium compounds, pharmaceutical productions



R: 22-36-52/53
 S: 2-24-26-36/37-46-61
 RTECS: OJ5800000

G.R.**Cat. No. 30214-AP0**

Assay ≥ 99 %
 Cl ≤ 0.002 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.0005 %
 Pb ≤ 0.0005 %

Order number	Quantity
30214-AP0-G0050	50 g
30214-AP0-G0100	100 g

pure**Cat. No. 30214-CP0**

Assay ≥ 98 %

Order number	Quantity
30214-CP0-G0500	500 g

pharm.**Cat. No. 30214-FP0**

Lithii carbonas

Order number	Quantity
30214-FP0-G1000	1000 g

Lithium chloride anhydrous

LiCl
 M, 42.39
 CAS: 7447-41-8
 EINECS: 231-212-3
 melting point 605 °C
 boiling point 1325 °C
 spec. stor. cond. < 25 °C
 colourless crystals or white powder,
 hygroscopic
 slightly soluble in water, very hardly
 soluble in alcohol

Use: production of ion-selective electrodes (elektrolyt)



R: 22-36/37/38
 S: 2-26-36-46
 RTECS: OJ5950000

G.R.**Cat. No. 30085-AP0**

Assay ≥ 98 %
 Loss on drying (at 110 °C) ≤ 2 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30085-AP0-G0250	250 g

pure**Cat. No. 30085-CP0**

Assay ~98 %

Order number	Quantity
30085-CP0-G0250	250 g

Lithium chloride monohydrate

LiCl·H₂O
 M, 60.41
 CAS: 16712-20-2
 EINECS: 231-212-3
 melting point 614 °C
 boiling point 1360 °C
 spec. stor. cond. < 25 °C
 colourless crystals or white powder,
 hygroscopic
 readily soluble in water



R: 22-36/37/38
 S: 2-26-36-46

G.R.**Cat. No. 30086-AP0**

Assay ≥ 97 %
 Subst. insoluble in H₂O ≤ 0.005 %
 SO₄ ≤ 0.005 %
 Ba ≤ 0.005 %

Order number	Quantity
30086-AP0-G0500	500 g

pure**Cat. No. 30086-CP0**

Assay ≥ 95 %

Order number	Quantity
30086-CP0-G0100	100 g

tri-Lithium citrate tetrahydrate

$C_6H_5Li_3O_7 \cdot 4H_2O$
 $HO_2C(COOLi)(CH_2COOLi)_2 \cdot 4H_2O$
 M, 281.98
 CAS: 919-16-4
 EINECS: 213-045-8
 melting point 105 °C
 white crystals or powder
 soluble in water

Use: analytical reagent, pharmaceutical productions, food industry, dispersion stabilizer

S: 22-24/25
 RTECS: GE8232000

G.R.**Cat. No. 30008-AP0**

Assay $\geq 99\%$
 Subst. insoluble in H_2O $\leq 0.01\%$
 Cl $\leq 0.002\%$
 SO_4 $\leq 0.01\%$

Order number	Quantity
30008-AP0-G1000	1000 g

Lithium hydroxide monohydrate

$LiOH \cdot H_2O$
 M, 41.96
 CAS: 1310-66-3
 EINECS: 215-183-4
 melting point 450–470 °C
 boiling point 924 °C
 white crystalline powder, hygroscopic
 soluble in water

Use: analytical reagent



ADR/RID 8/II

R: 22-35
 S: 1/2-26-36/37/39-45
 RTECS: OJ6307080
 UN 2680

pure**Cat. No. 10005-CP0**

Assay $\geq 98\%$

Order number	Quantity
10005-CP0-G0500	500 g
10005-CP0-G1000	1000 g

Lithium nitrate

$LiNO_3$
 M, 68.94
 CAS: 7790-69-4
 EINECS: 232-218-9
 melting point 255 °C
 boiling point 600 °C
 white crystals, hygroscopic
 easily soluble in water

Use: oxidizer



ADR/RID 5.1/III

R: 8-22
 S: 2-17-22-26-36-46
 RTECS: QU9200000
 UN 2722

pure**Cat. No. 30034-CP0**

Assay $\geq 98\%$
 Loss on drying (at 110 °C) $\leq 2\%$

Order number	Quantity
30034-CP0-G1000	1000 g

L

Lithium sulfate monohydrate

$\text{Li}_2\text{SO}_4 \cdot \text{H}_2\text{O}$
 M_r 127.90
 CAS: 10377-48-7
 EINECS: 233-820-4
 melting point 130 °C (loses water)
 colourless crystals or white powder,
 hygroscopic
 easily soluble in water

Use: analytical reagent, pharmaceutical productions



R: 22
 S: 2-22-24/25-46
 RTECS: OJ6419000

G.R.**Cat. No. 30179-AP0**

Assay ≥ 99 %
 Cl ≤ 0.002 %
 Pb ≤ 0.0005 %
 Fe ≤ 0.0005 %

Order number	Quantity
30179-AP0-G1000	1000 g

pure**Cat. No. 30179-CP0**

Assay ≥ 98 %
 Cl ≤ 0.002 %
 Pb ≤ 0.001 %
 Fe ≤ 0.002 %

Order number	Quantity
30179-CP0-G1000	1000 g

Magnesium acetate tetrahydrate

$C_4H_6MgO_4 \cdot 4H_2O$
 $(CH_3COO)_2Mg \cdot 4H_2O$
 M_r 214.40
 CAS: 16674-78-5
 EINECS: 205-554-9
 melting point 80 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, e.g. detection of sodium, disinfection and antiseptic, buffer

G.R.**Cat. No. 40114-AP0**

Assay ≥ 99 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.02 %
 Ca ≤ 0.3 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
40114-AP0-G0500	500 g

Magnesium carbonate basic

CAS: 39409-82-0
 EINECS: 235-192-7
 white powder
 insoluble in water and alcohol

Use: pharmaceutical productions

S: 22-24/25

pharm. light**Cat. No. 30213-FP7**

Magnesii subcarbonas levis

Order number	Quantity
30213-FP7-G1000	1000 g

pharm. heavy**Cat. No. 30213-FP8**

Magnesii subcarbonas ponderosus

Order number	Quantity
30213-FP8-G1000	1000 g

Magnesium chloride hexahydrate

$MgCl_2 \cdot 6H_2O$
 M_r 203.31
 CAS: 7791-18-6
 EINECS: 232-094-6
 melting point 117 °C
 colourless crystals or white powder
 readily soluble in water

Use: analytical reagent, adjustment of ionic strength, pharmaceutical productions

RTECS: OM2975000

G.R.**Cat. No. 30080-AP0**

Assay 99–102 %
 SO₄ ≤ 0.002 %
 Ba ≤ 0.002 %
 Fe ≤ 0.0005 %

Order number	Quantity
30080-AP0-G0500	500 g
30080-AP0-G1000	1000 g

pharm.**Cat. No. 30080-FP0**

Magnesii chloridum hexahydricum

Order number	Quantity
30080-FP0-G1000	1000 g

Magnesium nitrate hexahydrate

$Mg(NO_3)_2 \cdot 6H_2O$
 M_r 256.41
 CAS: 13446-18-9
 EINECS: 233-826-7
 melting point > 95 °C
 white crystals
 easily soluble in water

G.R.**Cat. No. 30031-AP0**

Assay ≥ 99 %
 pH (5 %, H₂O) 5–7
 Cl ≤ 0.01 %
 SO₄ ≤ 0.01 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30031-AP0-G0250	250 g

Magnesium

Magnesium nitrate hexahydrate

Use: dehydrating agent, catalyst



R: 8-36/37/38
S: 2-17-26-36-46
RTECS: OM3756000
UN 1474

ADR/RID 5.1/III

pure

Cat. No. 30031-CP0

Assay ≥ 98 %

Order number	Quantity
30031-CP0-G0250	250 g

Magnesium oxide

MgO

M, 40.31

CAS: 1309-48-4

EINECS: 215-171-9

melting point 2800 °C

boiling point 3600 °C

white powder

insoluble in water and alcohol

Use: analytical reagent, pharmaceutical productions



R: 20/22-36/37/38
S: 2-26-36-46
RTECS: OM3850000

G.R.

Cat. No. 30135-AP0

Assay (on ignit. subst.) ≥ 98 %

Cl ≤ 0.1 %

SO₄ ≤ 0.2 %

Ca ≤ 1 %

Fe ≤ 0.01 %

Pb ≤ 0.005 %

Order number	Quantity
30135-AP0-G0500	500 g
30135-AP0-G1000	1000 g

Magnesium oxide light

MgO

M, 40.31

CAS: 1309-48-4

EINECS: 215-171-9

melting point 2800 °C

boiling point 3600 °C

white powder

insoluble in water and alcohol

Use: analytical reagent, pharmaceutical productions



R: 20/22-36/37/38
S: 2-26-36-46
RTECS: OM3850000

pharm.

Cat. No. 30135-FP7

Magnesii oxidum leve

Order number	Quantity
30135-FP7-G0500	500 g

Magnesium perchlorate

Mg(ClO₄)₂

M, 223.21

CAS: 10034-81-8

melting point 251 °C

colourless crystals or white powder

readily soluble in water

Use: desiccant



R: 9-36/37/38
S: 2-17-26-27-36-46
ADR/RID 5.1/II UN 1475

puriss ACS

Cat. No. 30105-EPO

Suitability for moisture absorption passes test

Alkalinity ≤ 0.025 mEq/g

Acidity ≤ 0.005 mEq/g

Loss on drying (190 °C) ≤ 8 %

Order number	Quantity
30105-EPO-G0250	250 g

Magnesium perchlorate hydrate

Mg(ClO₄)₂·aq
 M_r 223.21 + aq
 CAS: 64010-42-0
 EINECS: 233-108-3
 melting point 146 °C
 colourless crystals or white powder
 readily soluble in water

Use: desiccant



R: 9-36/37/38
 S: 2-17-26-27-36-46
 ADR/RID 5.1/II UN 1475

G.R.

Cat. No. 30106-AP0

Assay (on ignit. subst.) ≥ 99 %
 H₂O ≤ 34 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.0005 %
 Pb ≤ 0.0005 %

Order number	Quantity
30106-AP0-G0500	500 g

Magnesium sulfate anhydrous

MgSO₄
 M_r 120.37
 CAS: 7487-88-9
 EINECS: 231-298-2
 melting point 1124 °C
 colourless crystals or white powder
 easily soluble in water

Use: desiccant

S: 22-24/25
 RTECS: OM4500000

pure

Cat. No. 30174-CP0

Assay ≥ 98 %
 Cl ≤ 0.05 %
 Fe ≤ 0.002 %
 Pb ≤ 0.001 %

Order number	Quantity
30174-CP0-G1000	1000 g

Magnesium sulfate heptahydrate

MgSO₄·7H₂O
 M_r 246.48
 CAS: 10034-99-8
 EINECS: 231-299-8
 melting point 150 °C
 boiling point 200 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, supplement of mineral waters, pharmaceutical productions

S: 22-24/25
 RTECS: OM4500000

G.R.

Cat. No. 30175-AP0

Assay ≥ 99 %
 pH (5 %, H₂O) 5–8
 Subst. insoluble in H₂O ≤ 0.005 %
 Cl ≤ 0.01 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30175-AP0-G0500	500 g
30175-AP0-G1000	1000 g

pure

Cat. No. 30175-CP0

Assay ≥ 99 %
 Subst. insoluble in H₂O ≤ 0.01 %
 Cl ≤ 0.02 %

Order number	Quantity
30175-CP0-G1000	1000 g

pharm.

Cat. No. 30175-FP0

Magnesii sulfas heptahydricus

Order number	Quantity
30175-FP0-G1000	1000 g

Maleic acid

$C_4H_4O_4$
 $HOOCCH:CHCOOH$
 M, 116.08
 CAS: 110-16-7
 EINECS: 203-742-5
 melting point 134–136 °C
 colourless crystals or white powder
 readily soluble in water and alcohol

Use: synthesis of sodium dioctyl sulpho-succinate



ADR/RID 8/III

R: 22-36/37/38
 S: 2-26-28-37-46
 RTECS: OM9625000
 UN 3261

G.R.

Cat. No. 10043-AP0

Assay ≥ 99 %
 Melting point 134–136 °C

Order number	Quantity
10043-AP0-G0100	100 g

pure

Cat. No. 10043-CP0

Assay ≥ 98 %

Order number	Quantity
10043-CP0-G0100	100 g

L-(-)-Malic acid

$C_4H_6O_5$
 M, 134.09
 CAS: 97-67-6
 EINECS: 202-601-5
 melting point 103–106 °C
 boiling point 140 °C (decomposition)
 colourless crystals or white powder
 readily soluble in water

Use: chelating agent, food industry



R: 36/37/38
 S: 2-26-36-46

pure

Cat. No. 10039-CP0

Assay ≥ 99 %
 Melting point 103–106 °C
 $[\alpha]_D^{20}$ (c = 5.5 in pyridine) $-30^\circ \pm 2^\circ$

Order number	Quantity
10039-CP0-G0100	100 g

D-(+)-Maltose monohydrate

$C_{12}H_{22}O_{11} \cdot H_2O$
 M, 360.32
 CAS: 6363-53-7
 EINECS: 200-716-5
 melting point 160–165 °C
 white powder
 easily soluble in water

Use: component of culture media for microbiological purposes, stabilizer of polysulphides, pharmaceutical productions

RTECS: 005250000

pure

Cat. No. 40091-CP0

$[\alpha]_D^{20}$ (c = 4 in H_2O) $+129^\circ \pm 2^\circ$

Order number	Quantity
40091-CP0-G0250	250 g

Manganese(II) chloride tetrahydrate

MnCl₂·4H₂O
 M_r 197.91
 CAS: 13446-34-9
 EINECS: 231-869-6
 melting point 58 °C
 boiling point 1190 °C
 pinkish crystals, hygroscopic
 readily soluble in water

Use: analytical reagent, organic syntheses – chlorination catalyst, pharmaceutical productions



R: 22-52
 S: 2-22-36-46-61
 RTECS: 009650000

G.R.

Cat. No. 30087-AP0

Assay ≥ 99 %
 pH (5 %, H₂O) 4–6
 SO₄ ≤ 0.005 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30087-AP0-G0500	500 g
30087-AP0-G1000	1000 g

pure

Cat. No. 30087-CP0

Assay ≥ 98 %

Order number	Quantity
30087-CP0-G1000	1000 g

Manganese(II) nitrate tetrahydrate

Mn(NO₃)₂·4H₂O
 M_r 251.01
 CAS: 20694-39-7
 EINECS: 236-196-1
 melting point 37 °C
 boiling point 129 °C
 light pink crystals, hygroscopic
 easily soluble in water

Use: analytical reagent, catalyst, colouring of glass and porcelain



R: 8-36/37/38
 S: 2-17-26-36-46
 ADR/RID 5.1/III UN 2724

G.R.

Cat. No. 30035-AP0

Assay ≥ 97 %
 Pb ≤ 0.005 %
 Fe ≤ 0.005 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %

Order number	Quantity
30035-AP0-G0500	500 g

Manganese(IV) oxide 90 %

MnO₂
 M_r 86.94
 CAS: 1313-13-9
 EINECS: 215-202-6
 melting point 535 °C (decomposition)
 grey-black powder
 insoluble in water

Use: oxidizer, catalyst, production of batteries, glass industry



R: 20/22
 S: 2-25-46
 RTECS: OP0350000
 ADR/RID 5.1/III UN 1479

pure

Cat. No. 30142-CP0

Assay ≥ 90 %
 Fe ≤ 0.5 %
 SiO₂ ≤ 3 %
 Loss on drying (at 105 °C) ≤ 0.3 %
 Subst. insoluble in HCl ≤ 3.5 %

Order number	Quantity
30142-CP0-G0100	100 g
30142-CP0-G0500	500 g

Manganese(IV) oxide 80 %

MnO₂
 M, 86.94
 CAS: 1313-13-9
 EINECS: 215-202-6
 melting point 535 °C (decomposition)
 grey-black powder
 insoluble in water

Use: oxidizer, catalyst, production of batteries, glass industry



R: 20/22
 S: 2-25-46
 RTECS: OP0350000
 UN 1479

ADR/RID 5.1/III

pure**Cat. No. 30141-CPO**

Assay ≥ 80 %
 Fe ≤ 1 %
 SiO₂ ≤ 7 %
 Loss on drying (at 105 °C) ≤ 0.5 %
 Subst. insoluble in HCl ≤ 10 %

Order number	Quantity
30141-CPO-G0500	500 g

Manganese(II) sulfate monohydrate

MnSO₄·H₂O
 M, 169.00
 CAS: 10034-96-5
 EINECS: 232-089-9
 melting point 700 °C
 boiling point 850 °C (decomposition)
 pink crystals, hygroscopic
 easily soluble in water

Use: analytical reagent (volumetric analysis)



R: 48/20/22-51/53
 S: 2-22-46-61
 RTECS: OP0893500
 UN 3077

ADR/RID 9/III

G.R.**Cat. No. 30180-APO**

Assay ≥ 99 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Cl ≤ 0.005 %
 Fe ≤ 0.001 %
 Heavy metals (as Pb) ≤ 0.001 %

Order number	Quantity
30180-APO-G0500	500 g
30180-APO-G1000	1000 g

pure**Cat. No. 30180-CPO**

Assay ≥ 97 %

Order number	Quantity
30180-CPO-G1000	1000 g

D-Mannitol

C₆H₁₄O₆
 M, 182.18
 CAS: 69-65-8
 EINECS: 200-711-8
 melting point 165–170 °C
 white acicular crystals
 readily soluble in water, insoluble in ether

Use: analytical reagent, e.g. for the determination of boron, component of culture media for microbiological purposes, food industry

RTECS: OP2060000

G.R.**Cat. No. 40092-APO**

Melting point 165–170 °C
 [α]_D²⁰(c = 10 in borax solut. 20 %) +24° ± 1°
 pH (10 %, H₂O) 5–8

Order number	Quantity
40092-APO-G0500	500 g
40092-APO-G1000	1000 g

Mercuric acetate, see Mercury(II) acetate – page 111

Mercuric chloride, see Mercury(II) chloride – page 111

Mercuric iodide red, see Mercury(II) iodide red – page 112

Mercuric nitrate hydrate, see Mercury(II) nitrate hydrate – page 112

Mercuric oxide red, see Mercury(II) oxide red – page 113

Mercuric oxide yellow, see Mercury(II) oxide yellow – page 113

Mercuric sulfate, see Mercury(II) sulfate – page 113

Mercury

Hg
M, 200.59
CAS: 7439-97-6
EINECS: 231-106-7
melting point -39°C
boiling point 357°C
silver-white liquid metal
insoluble in water

Use: polarography, preparation of amalgams



ADR/RID 8/III

R: 23-33-50/53
S: 1/2-7-45-60-61
RTECS: OV4550000
UN 2809

G.R.

Cat. No. 30158-ATO

Assay $\geq 99.999\%$
Non-volatile subst. $\leq 0.001\%$

Order number	Quantity
30158-ATO-G0100	100 g
30158-ATO-G1000	1000 g

Mercury(II) acetate

Mercuric acetate
 $\text{C}_4\text{H}_8\text{HgO}_4$
 $(\text{CH}_3\text{COO})_2\text{Hg}$
M, 318.68
CAS: 1600-27-7
EINECS: 216-491-1
melting point $178-180^{\circ}\text{C}$
colourless crystals or white powder
easily soluble in water and alcohol

Use: analytical reagent, e.g. determination of nitrates in chromium compounds, organic syntheses – e.g. acetylation of hydrocarbon compounds



ADR/RID 6.1/II

R: 26/27/28-33-50/53
S: 1/2-13-28-36-45-60-61
RTECS: AI8575000
UN 1629

G.R.

Cat. No. 40120-AP0

Assay $\geq 98\%$
Cl $\leq 0.05\%$
 SO_4 $\leq 0.005\%$
Fe $\leq 0.005\%$
Pb $\leq 0.005\%$

Order number	Quantity
40120-AP0-G0100	100 g

Mercury(II) chloride

Mercuric chloride
 HgCl_2
M, 271.50
CAS: 7487-94-7
EINECS: 231-299-8
melting point 277°C
boiling point 300°C (sublimates from 300°C)
colourless crystals or white powder
easily soluble in water

puriss ACS

Cat. No. 30092-EPO

Assay $\geq 99.5\%$
Residue after reduction $\leq 0.02\%$
Fe $\leq 0.002\%$
Solution in ethyl ether passes test

Order number	Quantity
30092-EPO-G0100	100 g
30092-EPO-G0500	500 g

G.R.

Cat. No. 30092-AP0

Assay $\geq 99.5\%$
Sulfated ash $\leq 0.02\%$
Fe $\leq 0.002\%$

Order number	Quantity
30092-AP0-G0500	500 g

Mercury

Mercury(II) chloride

Use: analytical reagent, catalyst, production of calomel, mercury(II) salts, pharmaceutical productions



R: 28-34-48/24/25-50/53
S: 1/2-36/37/39-45-60-61
RTECS: OV9100000
ADR/RID 6.1/II UN 1624

pure

Cat. No. 30092-CP0

Assay ≥ 99 %
Fe ≤ 0.005 %

Order number	Quantity
30092-CP0-G0500	500 g

pharm.

Cat. No. 30092-FP0

Hydrargyri dichloridum

Order number	Quantity
30092-FP0-G0500	500 g

Mercury(II) iodide red

Mercuric iodide red

HgI₂

M, 454.40

CAS: 7774-29-0

EINECS: 231-873-8

melting point 259 °C

boiling point 354 °C

red powder

insoluble in water, slightly soluble in alcohol

G.R.

Cat. No. 30116-APO

Assay ≥ 99.5 %
Ash ≤ 0.04 %
Subst. insoluble in KI solution ≤ 0.02 %
Hg salts soluble in H₂O (as Hg²⁺) ≤ 0.05 %
Heavy metals (as Pb) ≤ 0.002 %
Salts Hg⁺ ≤ 0.1 %

Order number	Quantity
30116-APO-G0100	100 g

pure

Cat. No. 30116-CP0

Assay ≥ 99 %
Ash ≤ 0.1 %
Subst. insoluble in KI solution ≤ 0.05 %
Hg salts soluble in H₂O (as Hg²⁺) ≤ 0.1 %

Order number	Quantity
30116-CP0-G0100	100 g

Use: pharmaceutical productions, preparation of Nessler's and Mayer's reagent



R: 26/27/28-33-50/53
S: 1/2-13-28-45-60-61
RTECS: OW5250000
ADR/RID 6.1/II UN 1638

Mercury(II) nitrate hydrate

Mercuric nitrate hydrate

Hg(NO₃)₂·aq

M, 324.60 + aq

CAS: 7783-34-8

EINECS: 233-152-3

melting point 79 °C

spec. stor. cond. 1–5 °C

white melting crystals

easily soluble in water

G.R.

Cat. No. 30039-APO

Assay (as monohydrate) ≥ 97 %
Cl ≤ 0.005 %
SO₄ ≤ 0.005 %
Non-volatile substances ≤ 0.02 %

Order number	Quantity
30039-APO-G0100	100 g

Use: analytical reagent, nitration of aromatic compounds, medicine



R: 26/27/28-33-50/53
S: 1/2-13-28-45-60-61
RTECS: OW8222500
ADR/RID 6.1/II UN 1625

Mercury(II) oxide red

Mercuric oxide red
 HgO
 M, 216.59
 CAS: 21908-53-2
 EINECS: 244-654-7
 melting point > 400 °C (decomposition)
 red powder
 insoluble in water

Use: analytical reagent, catalyst for organic syntheses



R: 26/27/28-33-50/53
 S: 1/2-13-28-45-60-61
 RTECS: OW8750000

ADR/RID 6.1/II UN 1641

G.R.

Cat. No. 30146-AP0

Assay ≥ 99 %
 Cl ≤ 0.01 %
 SO₄ ≤ 0.005 %

Order number	Quantity
30146-AP0-G0100	100 g

Mercury(II) oxide yellow

Mercuric oxide yellow
 HgO
 M, 216.59
 CAS: 21908-53-2
 EINECS: 244-654-7
 melting point > 400 °C (decomposition)
 yellow powder
 insoluble in water

Use: analytical reagent for the detection of acetic acid in formic acid and CO in gaseous mixtures, pharmaceutical productions



R: 26/27/28-33-50/53
 S: 1/2-13-28-45-60-61
 RTECS: OW8750000

ADR/RID 6.1/II UN 1641

G.R.

Cat. No. 30147-AP0

Assay ≥ 99 %
 Cl ≤ 0.05 %
 SO₄ ≤ 0.005 %

Order number	Quantity
30147-AP0-G0025	25 g

Mercury(II) sulfate

Mercuric sulfate
 HgSO₄
 M, 296.65
 CAS: 7783-35-9
 EINECS: 231-992-5
 melting point > 450 °C (decomposition)
 colourless crystals or white powder
 hardly soluble in water

Use: analytical reagent for the determination of barbituric acid and cysteine, catalyst for organic syntheses



R: 26/27/28-33-50/53
 S: 1/2-13-28-45-60-61
 RTECS: OX0500000

ADR/RID 6.1/II UN 1645

puriss ACS

Cat. No. 30186-EPO

Assay ≥ 98 %
 Residue after reduction ≤ 0.02 %
 NO₃ passes test
 Hg⁺ (as Hg) ≤ 0.15 %
 Cl ≤ 0.003 %
 Fe ≤ 0.005 %

Order number	Quantity
30186-EPO-G0100	100 g
30186-EPO-G0500	500 g

G.R.

Cat. No. 30186-AP0

Assay ≥ 99 %
 Subst. insoluble in dilute HNO₃ ≤ 0.02 %
 Cl ≤ 0.01 %
 NO₃ ≤ 0.05 %
 Pb ≤ 0.002 %

Order number	Quantity
30186-AP0-G0100	100 g
30186-AP0-G0500	500 g

Methanol

CH₄O
 CH₃OH
 M, 32.04
 CAS: 67-56-1
 EINECS: 200-659-6
 1l~0.79 kg
 melting point -98 °C
 boiling point 65 °C
 flash point 11 °C
 clear, colourless liquid
 miscible with water, alcohol

Use: analytical reagent, solvent, e.g. for HPLC, analysis residual of pesticides, spectrophotometric measurements in UV region



R: 11-23/24/25-39/23/24/25
 S: 1/2-7-16-36/37-45
 RTECS: PC1400000
 ADR/RID 3/II UN 1230

puriss ACS

Cat. No. 20038-ETO

Assay ≥ 99.8 %
 Color ≤ 10 APHA
 H₂O (K.F.) ≤ 0.1 %
 Non-volatile substances ≤ 0.001 %
 Solubility in water passes test
 Carbonyl compounds
 (as CH₂O, C₃H₆O, C₂H₄O) ≤ 0.001 %
 Alkalinity ≤ 0.0002 mEq/g
 Acidity ≤ 0.0003 mEq/g
 Subst. darkened by H₂SO₄ passes test
 KMnO₄-reducing subst. passes test

Order number	Quantity
20038-ETO-M0500	500 ml
20038-ETO-M1000	1000 ml

G.R.

Cat. No. 20038-ATO

Assay ≥ 99.5 %
 Non-volatile substances ≤ 0.001 %
 Aldehyde and ketone (as CH₃COCH₃) ≤ 0.003 %
 Acidity (as HCOOH) ≤ 0.0025 %
 Alkalinity (as NH₃) ≤ 0.0003 %
 H₂O ≤ 0.1 %

Order number	Quantity
20038-ATO-M1000	1000 ml
20038-ATO-G7900	7900 g

for UV spectroscopy

Cat. No. 20038-UTO

Assay ≥ 99.5 %
 Water ≤ 0.05 %
 Evaporation residue ≤ 0.0005 %
 UV transmission levels
 Wavelength Transmission
 205 nm ≥ 10 %
 220 nm ≥ 40 %
 230 nm ≥ 60 %
 240 nm ≥ 80 %
 260–400 nm ≥ 98 %

Order number	Quantity
20038-UTO-M1000	1000 ml

for HPLC Super Gradient

Cat. No. 20038-STO

Assay ≥ 99.9 %
 Water ≤ 0.05 %
 Acidity (mEq./g) ≤ 0.0005
 Evaporation residue ≤ 0.0005 %
 UV transmission levels
 Wavelength Transmission
 210 nm ≥ 65 %
 220 nm ≥ 75 %
 230 nm ≥ 90 %
 240 nm ≥ 98 %
 250 nm ≥ 99 %

Order number	Quantity
20038-STO-M2500	2500 ml

for HPLC

Cat. No. 20038-LTO

Assay ≥ 99.9 %
 Water ≤ 0.05 %
 Acidity (mEq./g) ≤ 0.0005
 Evaporation residue ≤ 0.0005 %
 UV transmission levels
 Wavelength Transmission
 210 nm ≥ 60 %
 220 nm ≥ 70 %
 230 nm ≥ 80 %
 240 nm ≥ 98 %
 250 nm ≥ 99 %

Order number	Quantity
20038-LTO-M2500	2500 ml

Methanol

for pesticide residue analysis

Cat. No. 20038-RT0

Assay	≥ 99.9 %
Water	≤ 0.1 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
Halogenated residue	≤ 5 ng/l

Order number	Quantity
20038-RT0-M2500	2500 ml

4-(Methylamino)phenol sulfate, see Metol – page 117

Methyl Blue

Water Blue

CAS: 28983-56-4
EINECS: 249-352-9
brown crystalline powder
soluble in water

Use: acid-base indicator, stain for micro-biological purposes

S: 22-24/25
RTECS: DB4958000

indicator

Cat. No. 40101-IPO

Order number	Quantity
40101-IPO-G0100	100 g

Methyl Orange

Orange III

$C_{14}H_{14}N_2NaO_3S$
4-NaO₃SC₆H₄N:NC₆H₄-4-N(CH₃)₂
M, 327.34
CAS: 547-58-0
EINECS: 208-925-3
melting point > 300 °C
orange-yellow powder
hardly soluble in water and alcohol

Use: indicator



ADR/RID 6.1/III

R: 25
S: 1/2-36/37/39-45
RTECS: DB6327000
UN 2811

indicator

Cat. No. 40125-IPO

Order number	Quantity
40125-IPO-G0010	10 g
40125-IPO-G0025	25 g
40125-IPO-G0050	50 g
40125-IPO-G0100	100 g

Methyl Red

$C_{15}H_{15}N_3O_2$
4-(CH₃)₂NC₆H₄N:NC₆H₄-2-COOH
M, 269.31
CAS: 493-52-7
EINECS: 207-776-1
dark red powder or violet crystals
practically insoluble in water, soluble in alcohol

Use: acid-base indicator

S: 22-24/25

indicator

Cat. No. 40023-IPO

Order number	Quantity
40023-IPO-G0100	100 g

Methyl Red sodium salt

$C_{15}H_{14}N_2NaO_2$
 4-(CH₃)₂NC₆H₄N:NC₆H₄-2-COONa
 M, 291.29
 CAS: 845-10-3
 EINECS: 212-682-9
 dark red powder or violet crystals
 easily soluble in water

Use: acid-base indicator

S: 22-24/25

indicator

Cat. No. 40022-IP0

Order number	Quantity
40022-IP0-G0010	10 g

3-Methyl-1-butanol

Isopentyl alcohol
 $C_5H_{12}O$
 (CH₃)₂CHCH₂CH₂OH
 M, 88.15
 CAS: 123-51-3
 EINECS: 204-633-5
 1l~0.81 kg
 melting point -117 °C
 boiling point 132 °C
 flash point 43 °C
 clear, colourless liquid
 miscible with alcohol and ether

Use: analytical reagent for the determination of fat in milk, solvent



ADR/RID 3/III

R: 10-20/22
 S: 2-24/25-46
 RTECS: EL5425000
 UN 1105

G.R.

Cat. No. 20035-AT0

Assay ≥ 98.5 %
 H₂O (K.F.) ≤ 0.3 %
 Non-volatile substances ≤ 0.003 %
 Free acids (as CH₃COOH) ≤ 0.01 %

Order number	Quantity
20035-AT0-M1000	1000 ml

pure

Cat. No. 20035-CT0

Assay ≥ 98 %
 n_D^{20} 1.404–1.407

Order number	Quantity
20035-CT0-M1000	1000 ml

2-Methyl-1-propanol

Isobutanol
 $C_4H_{10}O$
 (CH₃)₂CHCH₂OH
 M, 74.12
 CAS: 78-83-1
 EINECS: 201-148-0
 1l~0.80 kg
 melting point -108 °C
 boiling point 108 °C
 flash point 28 °C
 clear, colourless liquid
 miscible with alcohol and ether

Use: solvent



ADR/RID 3/III

R: 10-37/38-41-67
 S: 2-7/9-13-26-37/39-46
 RTECS: NP9625000
 UN 1212

G.R.

Cat. No. 20061-AT0

Assay ≥ 99.5 %
 H₂O (K.F.) ≤ 0.05 %
 Non-volatile substances ≤ 0.0005 %
 Free acids (as C₃H₇COOH) ≤ 0.005 %
 Free alkaline (as NH₃) ≤ 0.005 %

Order number	Quantity
20061-AT0-M1000	1000 ml

pure

Cat. No. 20061-CT0

Assay ≥ 98 %
 H₂O (K.F.) ≤ 0.1 %

Order number	Quantity
20061-CT0-M1000	1000 ml

Methylene Blue

$C_{16}H_{18}ClN_3S.aq$
 M_r 319.86 + aq
 CAS: 122965-43-9
 EINECS: 200-515-2
 melting point 100–110 °C
 dark green or bronze colour powder
 soluble in water and alcohol

Use: oxidative reducing indicator, stain for microbiological purposes



R: 22
 S: 2-22-24/25-46
 RTECS: S05600000

indicator

Cat. No. 40100-IP0

Order number	Quantity
40100-IP0-G0025	25 g
40100-IP0-G0100	100 g

pharm.

Cat. No. 40100-FP0

Methylthioninii chloridum hydricum

Order number	Quantity
40100-FP0-G0025	25 g

4-Methylpentan-2-one

$C_6H_{12}O$
 $(CH_3)_2CHCH_2COCH_3$
 M_r 100.16
 CAS: 108-10-1
 EINECS: 203-550-1
 1l~0.80 kg
 melting point –84 °C
 boiling point 116 °C
 flash point 14 °C
 clear, colourless liquid
 miscible with alcohol

Use: organic syntheses, solvent



R: 11-20-36/37-66
 S: 2-9-16-29-46
 RTECS: SA9275000
 UN 1245

ADR/RID 3/II

pure

Cat. No. 20040-CT0

Assay ≥ 98 %

Order number	Quantity
20040-CT0-M1000	1000 ml

Metol

4-(Methylamino)phenol sulfate
 $C_{14}H_{18}N_2O_2 \cdot H_2SO_4$
 $(CH_3NHC_6H_4OH)_2 \cdot H_2SO_4$
 M_r 344.39
 CAS: 55-55-0
 EINECS: 200-237-1
 melting point 260 °C
 white or off-white powder
 soluble in water and alcohol

Use: analytical reagent



R: 22-43-48/22-50/53
 S: 2-36/37-46-60-61

ADR/RID 9/III

UN 3077

G.R.

Cat. No. 40094-AP0

Assay ≥ 99 %

Sulfated ash ≤ 0.1 %

Order number	Quantity
40094-AP0-G0500	500 g
40094-AP0-G1000	1000 g

pure

Cat. No. 40094-CP0

Assay ≥ 98 %

Order number	Quantity
40094-CP0-C0500	500 g

Molecular sieves

granulate
insoluble in water

Cat. No. 30125-BP0

Order number	Quantity
30125-BP0-G0500	500 g

Use: adsorbent, e.g. cleaning of gases

Murexide

$C_8H_8N_6O_6$
M, 284.19
CAS: 3051-09-0
EINECS: 221-266-6
brown-red crystalline powder
easily soluble in boiling water

indicator
Cat. No. 40103-IP0

Order number	Quantity
40103-IP0-G0100	100 g

Use: indicator for chelatometric titrations

S: 22-24/25

Naphthalene

$C_{10}H_8$
 M_r 128.18
 CAS: 91-20-3
 EINECS: 202-049-5
 melting point 80–82 °C
 boiling point 218 °C
 flash point 80 °C
 colourless crystals or white powder,
 hygroscopic
 readily soluble in ether

Use: organic syntheses



R: 22-40-50/53
 S: 2-36/37-46-60-61
 RTECS: QJ0525000
 ADR/RID 4.1/III UN 1334

G.R.**Cat. No. 40104-AP0**

Assay ≥ 99 %
 Temp. crystallization ≥ 79.7 °C
 H_2O ≤ 0.2 %
 Ash ≤ 0.003 %

Order number	Quantity
40104-AP0-G0500	500 g

1-Naphthol

$C_{10}H_8O$
 $C_{10}H_7OH$
 M_r 144.18
 CAS: 90-15-3
 EINECS: 201-969-4
 melting point 95–97 °C
 boiling point 288 °C
 white, or pink-violet beige, darkens with
 storage powder or scales
 readily soluble in ether and alcohol

Use: reagent for saccharides



R: 21/22-37/38-41
 S: 2-22-26-37/39-46
 RTECS: QL2800000
 ADR/RID 6.1/III UN 2811

G.R.**Cat. No. 40105-AP0**

Assay ≥ 99 %
 Sulfated ash ≤ 0.05 %
 Melting point 95–97 °C

Order number	Quantity
40105-AP0-G0050	50 g
40105-AP0-G0100	100 g

pure**Cat. No. 40105-CP0**

Assay ≥ 98 %

Order number	Quantity
40105-CP0-G0050	50 g
40105-CP0-G0100	100 g

2-Naphthol

$C_{10}H_8O$
 $C_{10}H_7OH$
 M_r 144.18
 CAS: 135-19-3
 EINECS: 205-182-7
 melting point 121–123 °C
 boiling point 285 °C
 white, or pink-violet beige, darkens with
 storage powder or scales
 readily soluble in ether and alcohol

Use: reagent for nitrous acid and cyclic
 aldehydes, pharmaceutical productions,
 production of cosmetics



R: 20/22-50
 S: 2-24/25-46-61
 RTECS: QL2975000
 ADR/RID 9/III UN 3077

pure**Cat. No. 40106-CP0**

Assay ≥ 99 %
 1-Naphthol ≤ 0.3 %
 Melting point 121–123 °C
 Sulfated ash ≤ 0.1 %

Order number	Quantity
40106-CP0-G0250	250 g

1-Naphthylamine

$C_{10}H_9N$
 $C_{10}H_7NH_2$
 M, 143.19
 CAS: 134-32-7
 EINECS: 205-138-7
 melting point 48–50 °C
 boiling point 301 °C
 colourless to grey-violet crystals or melt readily soluble in ether and alcohol

Use: analytical reagent for colorimetry, organic syntheses



R: 22-51/53
 S: 2-24-46-61
 RTECS: QM1400000
 UN 2077

ADR/RID 6.1/III

G.R.

Cat. No. 40108-APO

Assay ≥ 99 %
 Subst. insoluble in CH_3COOH ≤ 0.02 %
 Melting point 48–50 °C
 Heavy metals (as Pb) ≤ 0.001 %
 2-Naphthylamine ≤ 0.1 %
 H_2O (K.F.) ≤ 0.2 %

Order number	Quantity
40108-APO-G0100	100 g

pure

Cat. No. 40108-CPO

Melting point 47–50 °C

Order number	Quantity
40108-CPO-G0100	100 g

N-(1-Naphthyl)ethylenediamine dihydrochloride

$C_{12}H_{14}N_2 \cdot 2HCl$
 $C_{10}H_7NHCH_2CH_2NH_2 \cdot 2HCl$
 M, 259.18
 CAS: 1465-25-4
 EINECS: 215-981-2
 melting point 200 °C
 colourless crystals or white to yellowish powder, hygroscopic easily soluble in water

Use: determination of sulphonamides, nitrites and nitrates



R: 36/37/38
 S: 2-26-36-46
 RTECS: KV5330000

G.R.

Cat. No. 40107-APO

Assay (on dried subst.) ≥ 98 %
 H_2O (K.F.) ≤ 5 %
 Residue on ignition ≤ 0.1 %

Order number	Quantity
40107-APO-G0005	5 g
40107-APO-G0025	25 g

pure

Cat. No. 40107-CPO

Assay (on dried subst.) ≥ 97 %
 Ash ≤ 0.1 %

Order number	Quantity
40107-CPO-G0005	5 g
40107-CPO-G0025	25 g

Nickel(II) carbonate basic hydrate

$\sim NiCO_3 \cdot 2Ni(OH)_2 \cdot 4H_2O$
 CAS: 12607-70-4
 EINECS: 222-068-2
 green powder
 insoluble in water

Use: production of other nickel compounds



R: 22-40-43-50/53
 S: 2-22-36/37-46-60-61
 RTECS: QR6260000
 UN 3077

ADR/RID 9/III

pure

Cat. No. 30215-CPO

Assay of Ni ~46 %

Order number	Quantity
30215-CPO-G1000	1000 g

Nickel(II) chloride hexahydrate

NiCl₂·6H₂O
 M, 237.71
 CAS: 7791-20-0
 EINECS: 231-743-0
 melting point 140 °C
 boiling point 987 °C
 green crystals
 readily soluble in water

Use: organic syntheses – reduction of benzaldehydes, production of nickel boride



R: 25-40-43-50/53
 S: 1/2-53-36/37/39-45-60-61
 RTECS: QR6480000
 UN 3077

ADR/RID 9/III

G.R.

Cat. No. 30090-AP0

Assay ≥ 97 %
 SO₄ ≤ 0.02 %

Order number	Quantity
30090-AP0-G0500	500 g

pure

Cat. No. 30090-CP0

Assay ≥ 97 %

Order number	Quantity
30090-CP0-G0100	100 g

Nickel(II) nitrate hexahydrate

Ni(NO₃)₂·6H₂O
 M, 290.81
 CAS: 13478-00-7
 EINECS: 236-068-5
 melting point 57 °C
 boiling point 137 °C
 green crystals, hygroscopic
 easily soluble in water

Use: production of nickel catalysts, Ni-Cd accumulators, galvanization



R: 45-8-22-43
 S: 1/2-53-17-36/37/39-45
 RTECS: QR7300000
 UN 2725

ADR/RID 5.1/III

G.R.

Cat. No. 30037-AP0

Assay ≥ 98 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %

Order number	Quantity
30037-AP0-G0500	500 g

pure

Cat. No. 30037-CP0

Assay ≥ 98 %

Order number	Quantity
30037-CP0-G0500	500 g

Nickel(II) sulfate heptahydrate

NiSO₄·7H₂O
 M, 280.87
 CAS: 10101-98-1
 EINECS: 232-104-9
 green crystals
 easily soluble in water

Use: analytical reagent, e.g. for the determination of dimethyldioxime



R: 22-40-42/43-50/53
 S: 2-22-36/37-46-60-61
 RTECS: QR9600000
 UN 3077

ADR/RID 9/III

G.R.

Cat. No. 30183-AP0

Assay ≥ 99 %
 Cl ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30183-AP0-G0500	500 g

pure

Cat. No. 30183-CP0

Assay ≥ 97 %

Order number	Quantity
30183-CP0-G0500	500 g

N

Nickel(II) sulfate hexahydrate

$\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$
 M, 262.86
 CAS: 10101-97-0
 EINECS: 232-104-9
 melting point 53 °C
 green crystals
 easily soluble in water

Use: analytical reagent



R: 22-40-42/43-50/53
 S: 2-22-36/37-46-60-61
 RTECS: QR9600000
 UN 3077

ADR/RID 9/III

G.R.**Cat. No. 30184-AP0**

Assay ≥ 99 %
 Cl ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30184-AP0-G0500	500 g

pure**Cat. No. 30184-CP0**

Assay ≥ 95 %

Order number	Quantity
30184-CP0-G0500	500 g

Nitric acid 65 %

HNO_3
 M, 63.01
 CAS: 7697-37-2
 EINECS: 231-714-2
 1l~1.40 kg
 melting point -32 °C
 boiling point 121 °C
 clear, colourless fuming liquid
 miscible with water

Use: analytical reagent and oxidizer, solvent, samples treatment before metals analysis, electrical industry



R: 35
 S: 1/2-23-26-36-45
 RTECS: QU5775000
 UN 2031

ADR/RID 8/II

puriss ACS**Cat. No. 10023-ET0**

Assay 68–70 %
 Color ≤ 10 APHA
 Heavy metals (as Pb) ≤ 0.00002 %
 Residue after ignition ≤ 0.0005 %
 Cl ≤ 0.00005 %
 As ≤ 0.000001 %
 Fe ≤ 0.00002 %
 SO_4 ≤ 0.0001 %

Order number	Quantity
10023-ET0-M0500	500 ml
10023-ET0-M2500	2500 ml

selectipur**Cat. No. 10023-PT0**

Assay ≥ 65 %
 Sulfated ash ≤ 0.0005 %
 SO_4 ≤ 0.0002 %
 Cl ≤ 0.0001 %
 Heavy metals (as Pb) ≤ 0.00005 %
 Fe ≤ 0.00005 %

Order number	Quantity
10023-PT0-M1000	1000 ml

G.R.**Cat. No. 10023-AT0**

Assay ≥ 65 %
 Sulfated ash ≤ 0.0005 %
 SO_4 ≤ 0.0002 %
 Cl ≤ 0.0001 %
 Heavy metals (as Pb) ≤ 0.0001 %
 Fe ≤ 0.0001 %

Order number	Quantity
10023-AT0-M1000	1000 ml

pure**Cat. No. 10023-CT0**

Assay ≥ 65 %
 Sulfated ash ≤ 0.015 %
 SO_4 ≤ 0.002 %
 Cl ≤ 0.0005 %

Order number	Quantity
10023-CT0-M1000	1000 ml

Nitrilotriacetic acid

Complexone I; Trilon A

 $C_6H_9NO_6$ $N(CH_2COOH)_3$ M_r 191.14

CAS: 139-13-9

EINECS: 205-355-7

melting point 242–245 °C (decomposition)

colourless crystals or white powder

insoluble in water and in the majority of organic solvent

Use: analytical reagent for the determination of calcium, magnesium, iron, chemical syntheses, chelating agent



R: 22-36/37/38-40

S: 2-26-36/37/39-46

RTECS: AJ0175000

for spec. purp.**Cat. No. 40072-JPO**Assay $\geq 95\%$ Sulfated ash $\leq 0.2\%$ Fe $\leq 0.003\%$ Cl $\leq 0.001\%$

Order number	Quantity
40072-JPO-G0500	500 g

4-Nitroaniline

 $C_6H_6N_2O_2$ $NO_2C_6H_4NH_2$ M_r 138.13

CAS: 100-01-6

EINECS: 202-810-1

melting point 146–150 °C

boiling point 332 °C (decomposition)

yellow crystalline powder

readily soluble in ether and alcohol

Use: analytical reagent for the determination of phenols, organic syntheses, corrosion inhibitor



R: 23/24/25-33-52/53

S: 1/2-28-36/37-45-61

RTECS: BY7000000

ADR/RID 6.1/II

UN 1661

G.R.**Cat. No. 40109-AP0**Assay $\geq 99\%$

Melting point 146–150 °C

Sulfated ash $\leq 0.1\%$

Order number	Quantity
40109-AP0-G0050	50 g
40109-AP0-G0250	250 g
40109-AP0-G0500	500 g

pure**Cat. No. 40109-CP0**Assay $\geq 95\%$

Order number	Quantity
40109-CP0-G0100	100 g

Nitromethane

 CH_3NO_2 M_r 61.04

CAS: 75-52-5

EINECS: 200-876-6

1l~1.13 kg

melting point –29 °C

boiling point 101 °C

flash point 36 °C

clear, colourless oily liquid

miscible with alcohol and ether

Use: solvent for non-aqueous titrations



R: 5-10-22

S: 2-41-46

RTECS: PA9800000

ADR/RID 3/II

UN 1261

G.R.**Cat. No. 20042-AT0**Assay $\geq 98.5\%$ Non-volatile substances $\leq 0.002\%$ n_D^{20} 1.381–1.383 H_2O $\leq 0.5\%$

Order number	Quantity
20042-AT0-M1000	1000 ml

pure**Cat. No. 20042-CT0**Assay $\geq 95\%$ n_D^{20} 1.380–1.383

Order number	Quantity
20042-CT0-M1000	1000 ml

4-Nitrophenol

$C_6H_5NO_3$
 $O_2NC_6H_4OH$
 M, 139.11
 CAS: 100-02-7
 EINECS: 202-811-7
 melting point 112–115 °C
 boiling point 279 °C (at 101 kPa)
 yellow crystalline powder
 soluble in hot water, ether and alcohol

Use: analytical reagent for the determination of magnesium, potassium, nitrates, ammonia salts, indicator, organic syntheses, corrosion inhibitor



ADR/RID 6.1/III

R: 20/21/22-33
 S: 2-28-46
 RTECS: SM2275000
 UN 1663

G.R.**Cat. No. 40110-APO**

Assay ≥ 99.0 %
 Melting point (on dried subst.) 112–115 °C
 H₂O ≤ 7 %

Order number	Quantity
40110-APO-G0025	25 g
40110-APO-G0100	100 g
40110-APO-G0250	250 g

pure**Cat. No. 40110-CPO**

Assay ~97 %
 Melting point (on dried subst.) 110–115 °C

Order number	Quantity
40110-CPO-G0100	100 g

Oleic acid

$C_{18}H_{34}O_2$
 $CH_3(CH_2)_7CH:CH(CH_2)_7COOH$
 M_r 282.47
 CAS: 112-80-1
 EINECS: 204-007-1
 l_1 ~0.89 kg
 melting point 10–16 °C
 boiling point 360 °C
 spec. stor. cond. 1–5 °C
 clear, yellowish or brownish liquid
 insoluble in water, miscible with alcohol

Use: food industry, pharmaceutical productions



R: 36/37/38
 S: 2-26-36-46
 RTECS: RG2275000

pure**Cat. No. 10049-CTO**

Assay ≥ 97 %
 n_D^{20} 1.460–1.463

Order number	Quantity
10049-CTO-M1000	1000 ml

pharm.**Cat. No. 10049-FTO**

Acidum oleicum

Order number	Quantity
10049-FTO-M1000	1000 ml

Orange III, see Methyl Orange – page 115

Oxalic acid dihydrate

$C_2H_2O_4 \cdot 2H_2O$
 $HOOC-COOH \cdot 2H_2O$
 M_r 126.07
 CAS: 6153-56-6
 EINECS: 205-634-3
 melting point 101 °C
 boiling point > 150 °C (decomposition)
 colourless crystals or white powder
 soluble in water and alcohol

Use: analytical reagent, e.g. evidence and determination of calcium, extraction of rare metals, volumetric analysis (manganometry), elimination of Fe, water treatment by removal of Ca, reductant



ADR/RID 8/II

R: 21/22
 S: 2-24/25-46
 RTECS: R02450000
 UN 1759

puriss ACS**Cat. No. 10060-EPO**

Assay 99.5–102.5 %
 Heavy metals (as Pb) ≤ 0.0005 %
 Residue after ignition ≤ 0.01 %
 Total N ≤ 0.001 %
 Cl ≤ 0.002 %
 SO_4 ≤ 0.005 %
 Ca ≤ 0.001 %
 Fe ≤ 0.0002 %
 Insoluble matter in water ≤ 0.005 %
 Subst. darkened by H_2SO_4 passes test

Order number	Quantity
10060-EPO-G1000	1000 g

G.R.**Cat. No. 10060-AP0**

Assay ≥ 99 %
 Ash ≤ 0.05 %
 Fe ≤ 0.0005 %
 Heavy metals (as Pb) ≤ 0.0005 %
 Cl ≤ 0.0005 %

Order number	Quantity
10060-AP0-G1000	1000 g

pure**Cat. No. 10060-CP0**

Assay ≥ 98 %

Order number	Quantity
10060-CP0-G1000	1000 g

Paraffin fluid

CAS: 8012-95-1
 EINECS: 232-384-2
 1l~0.86 kg
 colourless oily liquid
 insoluble in water, hardly soluble in alcohol

Use: pharmaceutical productions, production of cosmetics, oil baths

RTECS: PY8030000

pharm.

Cat. No. 40126-FTO
 Paraffinum liquidum

Order number	Quantity
40126-FTO-G0500	500 g

Paraformaldehyde

$(\text{CH}_2\text{O})_n$
 CAS: 30525-89-4
 EINECS: 200-001-8
 melting point 120–170 °C
 spec. stor. cond. < 15 °C
 white powder
 soluble in hot water

Use: organic syntheses



R: 20/22-37/38-40-41-43
 S: 2-26-36/37/39-46
 RTECS: RV0540000

ADR/RID 4.1/III UN 2213

pure

Cat. No. 40127-CP0

Assay ≥ 95 %

Order number	Quantity
40127-CP0-G1000	1000 g

Pentane

C_5H_{12}
 $\text{CH}_3(\text{CH}_2)_3\text{CH}_3$
 M, 72.15
 CAS: 109-66-0
 EINECS: 203-692-4
 1l~0.63 kg
 melting point –129 °C
 boiling point 36 °C
 flash point –49 °C
 spec. stor. cond. < 15 °C
 clear, colourless liquid
 immiscible with water, miscible with alcohol and ether

Use: analytical reagent, e.g. for analysis residual of pesticides, for the determination of insoluble parts of oils, solvent for liquid and thin layer chromatography, extraction solvent, blowing agent



R: 12-51/53-65-66-67
 S: 2-9-16-29-33-61-62
 RTECS: RZ9450000
 ADR/RID 3/II UN 1265

G.R.

Cat. No. 20043-ATO

Assay of C_5H_{12} isomers ≥ 99 %
 H_2O (K.F.) ≤ 0.02 %
 Non-volatile subst. ≤ 0.05 %
 Free acids (as $\text{C}_4\text{H}_9\text{COOH}$) ≤ 0.001 %

Order number	Quantity
20043-ATO-M1000	1000 ml

pure

Cat. No. 20043-CT0

Assay of C_5H_{12} isomers ≥ 97 %

Order number	Quantity
20043-CT0-M1000	1000 ml

n-Pentane

C₅H₁₂
 CH₃(CH₂)₃CH₃
 M, 72.15
 CAS: 109-66-0
 EINECS: 203-692-4
 1l~0.63 kg
 melting point -129 °C
 boiling point 36 °C
 flash point -49 °C
 spec. stor. cond. < 15 °C
 clear, colourless liquid
 immiscible with water, miscible with
 alcohol and ether

Use: analytical reagent, e.g. for analysis
 residual of pesticides, for the determi-
 nation of insoluble parts of oils, solvent
 for liquid and thin layer chromatography,
 extraction solvent, blowing agent



R: 12-51/53-65-66-67
 S: 2-9-16-29-33-61-62
 RTECS: RZ9450000
 ADR/RID 3/II UN 1265

G.R.

Cat. No. 20044-ATO

Assay ≥ 99 %
 H₂O (K.F.) ≤ 0.02 %
 Non-volatile subst. ≤ 0.05 %
 Free acids (as C₄H₉COOH) ≤ 0.001 %

Order number	Quantity
20044-ATO-M1000	1000 ml

pure

Cat. No. 20044-CTO

Assay ≥ 95 %

Order number	Quantity
20044-CTO-M1000	1000 ml

for pesticide residue analysis

Cat. No. 20044-RTO

Assay ≥ 99 %
 Water ≤ 0.02 %
 Acidity (mEq./g) ≤ 0.0005
 Evaporation residue ≤ 0.0005 %
 Halogenated residue ≤ 5 ng/l

Order number	Quantity
20044-RTO-M2500	2500 ml

Perchloric acid 70%; 68 %

HClO₄
 M, 100.46
 CAS: 7601-90-3
 EINECS: 231-512-4
 1l~1.67 kg
 melting point -18 °C
 boiling point 199 °C
 clear, colourless liquid
 miscible with water

Use: analytical reagent for the determina-
 tion of potassium, silicon and phosphorus,
 strong oxidizer, solvent, separation of
 potassium from sodium



R: 5-8-35
 S: 1/2-23-26-36-45
 RTECS: SC7500000
 ADR/RID 5.1/II UN 1873

puriss ACS 70 %

Cat. No. 10032-E70

Assay 69–72 %
 Color ≤ 10 APHA
 Heavy metals (as Pb) ≤ 0.0001 %
 Total N ≤ 0.001 %
 PO₄, SiO₂ (as SiO₂) ≤ 0.0005 %
 Cl ≤ 0.001 %
 SO₄ ≤ 0.001 %
 Fe ≤ 0.0001 %
 Residue after ignition ≤ 0.003 %

Order number	Quantity
10032-E70-G0250	250 g
10032-E70-M1000	1000 ml

G.R. 70 %

Cat. No. 10032-A70

Assay ≥ 70 %
 Sulfated ash ≤ 0.003 %
 Total N ≤ 0.001 %
 SO₄ ≤ 0.001 %
 Free Cl₂ ≤ 0.00005 %
 Pb ≤ 0.000005 %
 Fe ≤ 0.0005 %

Order number	Quantity
10032-A70-M1000	1000 ml

G.R. 68 %

Cat. No. 10032-A68

Assay ≥ 68 %
 Residue on ignition (as SO₄) ≤ 0.003 %
 Total N ≤ 0.001 %
 SO₄ ≤ 0.001 %
 Free Cl₂ ≤ 0.00005 %
 Pb ≤ 0.000005 %
 Fe ≤ 0.0005 %

Order number	Quantity
10032-A68-M1000	1000 ml

Periodic acid



M, 227.94

CAS: 10450-60-9

EINECS: 233-937-0

melting point 122–127 °C

colourless crystals or white to light yellow powder, hygroscopic

readily soluble in water and alcohol

Use: analytical oxidizer, detection of polysaccharides

R: 8-34

S: 1/2-17-26-36/37/39-45

ADR/RID 5.1/II UN 3085

G.R.**Cat. No. 10036-AP0**

Assay ≥ 99 %

Br, BrO₃, Cl, ClO₃ (as Cl) ≤ 0.02 %SO₄ ≤ 0.02 %

Fe ≤ 0.005 %

Pb ≤ 0.005 %

Order number	Quantity
10036-AP0-G0100	100 g

Petrol medical R

1l~0.67 kg

melting point < -50 °C

boiling point 35–100 °C

flash point < -6 °C

clear, colourless liquid

insoluble in water, miscible with alcohol and ether

Use: solvent in pharmacy and medicine

R: 11-48/20-65

S: 2-23-24/25-43-62

ADR/RID 3/II UN 1268

pharm.**Cat. No. 20008-FT0**

Order number	Quantity
20008-FT0-M1000	1000 ml

Petroleum ether 40–60 °C

CAS: 101316-46-5

EINECS: 232-453-7

1l~0.65 kg

melting point < -50 °C

boiling point 40–60 °C

flash point -58 to -18 °C

clear, colourless liquid with characteristic odour

immiscible with water

Use: analytical reagent for determination of vitamin A, HPLC, mobile phase for TLC, solvent, extraction solvent

R: 11-48/20-65

S: 2-9-16-23-24-33-62

ADR/RID 3/II

UN 1268

puriss ACS**Cat. No. 20045-ETO**

Distillation range 35–60 °C

H₂O (K.F.) ≤ 0.01 %

Non-volatile substances ≤ 0.001 %

Color ≤ 10 APHA

Alkalinity ≤ 0.0001 mEq/g

Acidity ≤ 0.0001 mEq/g

Cu ≤ 0.00001 %

Fe ≤ 0.00001 %

Pb ≤ 0.00001 %

Zn ≤ 0.00001 %

Order number	Quantity
20045-ETO-M1000	1000 ml
20045-ETO-M2500	2500 ml

40/60 for HPLC**Cat. No. 20045-LT0**

Water ≤ 0.01 %

Acidity (mEq./g) ≤ 0.0005

Evaporation residue ≤ 0.0005 %

UV transmission levels

Wavelength Transmission

210 nm ≥ 60 %

220 nm ≥ 80 %

230 nm ≥ 90 %

240 nm ≥ 98 %

250 nm ≥ 99 %

Order number	Quantity
20045-LT0-M2500	2500 ml

Petroleum ether 40–65 °C

CAS: 101316-46-5
 EINECS: 232-453-7
 1l~0.65 kg
 melting point < -50 °C
 boiling point 40–65 °C
 flash point -58 to -18 °C
 clear, colourless liquid with characteristic odour
 immiscible with water

Use: analytical reagent for determination of vitamin A, HPLC, mobile phase for TLC, solvent, extraction solvent



R: 11-48/20-65
 S: 2-9-16-23-24-33-62
 UN 1268

ADR/RID 3/II

G.R.**Cat. No. 20045-ATO**

Distillation range 40–65 °C
 H₂O (K.F.) ≤ 0.01 %
 Non-volatile subst. ≤ 0.002 %
 Free acids (as CH₃COOH) ≤ 0.002 %
 Free alkaline (as NH₃) ≤ 0.001 %

Order number	Quantity
20045-ATO-M1000	1000 ml

pure**Cat. No. 20045-CTO**

Distillation range 40–65 °C
 Non-volatile subst. ≤ 0.01 %

Order number	Quantity
20045-CTO-M1000	1000 ml

Petroleum ether 60–80 °C

CAS: 101316-46-5
 EINECS: 232-453-7
 1l~0.65 kg
 melting point < -50 °C
 boiling point 60–80 °C
 flash point -58 to -18 °C
 clear, colourless liquid with characteristic odour
 immiscible with water

Use: analytical reagent for determination of vitamin A, HPLC, mobile phase for TLC, solvent, extraction solvent



R: 11-48/20-65
 S: 2-9-16-23-24-33-62
 UN 1268

ADR/RID 3/II

60/80 for HPLC**Cat. No. 20046-LTO**

Water ≤ 0.01 %
 Acidity (mEq./g) ≤ 0.0005
 Evaporation residue ≤ 0.0005 %
 UV transmission levels
 Wavelength Transmission
 210 nm ≥ 60 %
 220 nm ≥ 80 %
 230 nm ≥ 90 %
 240 nm ≥ 98 %
 250 nm ≥ 99 %

Order number	Quantity
20046-LTO-M2500	2500 ml

Petroleum ether 80–110 °C

CAS: 101316-46-5
 EINECS: 232-453-7
 1l~0.72 kg
 melting point < -50 °C
 boiling point 80–110 °C
 flash point -58 to -18 °C
 clear, colourless liquid with characteristic odour
 immiscible with water

Use: analytical reagent for determination of vitamin A, HPLC, mobile phase for TLC, solvent, extraction solvent



R: 11-48/20-65
 S: 2-9-16-23-24-33-62
 UN 1268

ADR/RID 3/II

pure**Cat. No. 20047-CTO**

Distillation range 80–110 °C
 Non-volatile subst. ≤ 0.01 %

Order number	Quantity
20047-CTO-M1000	1000 ml

Phenanthroline

o-Phenanthroline hydrochloride monohydrate

$C_{12}H_8N_2 \cdot HCl \cdot H_2O$

M, 234.69

CAS: 3829-86-5

EINECS: 223-325-1

melting point 215–220 °C (decomposition)

white to light yellow crystalline powder

readily soluble in water and alcohol

Use: analytical reagent, e.g. for the determination of chromium, cerium, iron, copper, tellurium



R: 25-50/53

S: 1/2-45-60-61

ADR/RID 6.1/II

UN 2811

G.R.

Cat. No. 40040-APO

Assay ≥ 99 %

Order number	Quantity
40040-APO-G0010	10 g

o-Phenanthroline monohydrate

$C_{12}H_8N_2 \cdot H_2O$

M, 198.23

CAS: 5144-89-8

EINECS: 200-629-2

melting point cca 95 °C

boiling point > 300 °C

white to light yellow crystalline powder

easily soluble in water, alcohol and in diluted acids

Use: analytical reagent for colorimetric determination of iron



R: 25-50/53

S: 1/2-45-60-61

RTECS: SF8300000

ADR/RID 6.1/II

UN 2811

puriss ACS

Cat. No. 40041-EPO

Suitability as redox ind. passes test

Suitability for determination of Fe passes test

Order number	Quantity
40041-EPO-G0005	5 g

G.R.

Cat. No. 40041-APO

Assay ≥ 99 %

Sulfated ash ≤ 0.1 %

Melting point (in anhydrous subst.) 117–120 °C

Order number	Quantity
40041-APO-G0010	10 g

Phenol

C_6H_6O

C_6H_5OH

M, 94.11

CAS: 108-95-2

EINECS: 203-632-7

melting point 40–42 °C

boiling point 182 °C

colourless or pinkish crystals or melt,

hygroscopic

easily soluble in alcohol and ether, soluble

in warm water

puriss ACS

Cat. No. 40042-EPO

Assay ≥ 99 %

H_2O (K.F.) ≤ 0.5 %

Non-volatile substances ≤ 0.05 %

Clarity of solution passes test

Freezing point (on dry subst.) ≥ 40.5 °C

Order number	Quantity
40042-EPO-G0025	25 g
40042-EPO-G0500	500 g

Phenol

Use: analytical reagent for the determination of nitro compounds, ammonium, chlorine and bromine, pharmaceutical productions



R: 23/24/25-34-48/20/21/22-68
S: 1/2-24/25-26-28-36/37/39-45
RTECS: SI3325000
ADR/RID 6.1/II UN 1671

G.R.**Cat. No. 40042-AP0**

Assay $\geq 99\%$
Non-volatile substances $\leq 0.02\%$
Free acids (as CH_3COOH) $\leq 0.01\%$
Cl $\leq 0.001\%$
Fe $\leq 0.0001\%$
Congealing point $39-41^\circ\text{C}$

Order number	Quantity
40042-AP0-G1000	1000 g

Phenolphthalein

$\text{C}_{20}\text{H}_{14}\text{O}_4$
M, 318.33
CAS: 77-09-8
EINECS: 201-004-7
melting point $258-263^\circ\text{C}$
white or yellowish powder
insoluble in water, soluble in alcohol

Use: acid-base indicator



R: 40
S: 2-36/37-46
RTECS: SM8380000

indicator**Cat. No. 40043-IP0**

Sulfated ash $\leq 0.1\%$
Colour change pH 8.2-10
Melting point $258-263^\circ\text{C}$

Order number	Quantity
40043-IP0-G0050	50 g
40043-IP0-G0100	100 g
40043-IP0-G1000	1000 g

N-Phenylanthranilic acid

$\text{C}_{13}\text{H}_{11}\text{NO}_2$
 $\text{C}_6\text{H}_5\text{NHC}_6\text{H}_4\text{-2-COOH}$
M, 213.24
CAS: 91-40-7
EINECS: 202-066-8
melting point $182-185^\circ\text{C}$
colourless to creamy grey crystalline
powder or needles
soluble in alcohol

Use: analytical reagent (redox indicator),
detection of vanadium in steel

S: 22-24/25
RTECS: CB3730000

G.R.**Cat. No. 10046-AP0**

Assay $\geq 99\%$
Melting point $182-185^\circ\text{C}$
Ash $\leq 0.05\%$

Order number	Quantity
10046-AP0-G0025	25 g
10046-AP0-G0050	50 g

1,2-Phenylenediamine

$C_6H_8N_2$
 $C_6H_4(NH_2)_2$
 M, 108.14
 CAS: 95-54-5
 EINECS: 202-430-6
 melting point 98–102 °C
 boiling point 258 °C
 spec. stor. cond. 1–8 °C
 white, yellow-brown or red-brown crystals
 slightly soluble in water, easily soluble in
 alcohol and ether

Use: organic syntheses, e.g. synthesis of benzotriazole, 1,10-phenanthroline



R: 20/21-25-36-40-43-50/53-68
 S: 1/2-28-36/37-45-60-61
 RTECS: SS7875000
 ADR/RID 6.1/III UN 1673

pure

Cat. No. 40044-CP0

Assay ≥ 98 %
 Melting point 98–102 °C

Order number	Quantity
40044-CP0-G0100	100 g

1,4-Phenylenediamine

$C_6H_8N_2$
 $C_6H_4(NH_2)_2$
 M, 108.14
 CAS: 106-50-3
 EINECS: 203-404-7
 melting point 142 °C
 boiling point 267 °C
 colourless to reddish crystals
 easily soluble in water, very slightly soluble
 in alcohol and ether

Use: analytical reagent, organic syntheses, photographic purposes



R: 23/24/25-36-43-50/53
 S: 1/2-28-36/37-45-60-61
 RTECS: SS8050000
 ADR/RID 6.1/III UN 1673

G.R.

Cat. No. 40045-AP0

Assay ≥ 99 %

Order number	Quantity
40045-AP0-G0025	25 g

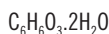
pure

Cat. No. 40045-CP0

Assay ≥ 98 %

Order number	Quantity
40045-CP0-G0050	50 g

Phloroglucinol dihydrate



M, 162.15

CAS: 6099-90-7

EINECS: 203-611-2

melting point 215–220 °C

white or yellowish crystals, hygroscopic
hardly soluble in water, easily in alcohol**Use:** analytical reagent

R: 36/37/38

S: 2-26-36-46

RTECS: DC4662500

G.R.**Cat. No. 40049-AP0**

Melting point 215–220 °C

Sulfated ash ≤0.1 %

Order number	Quantity
40049-AP0-G0050	50 g
40049-AP0-G0100	100 g

Phosphomolybdic acid hydrate



M, 1825.25 + aq

CAS: 51429-74-4

EINECS: 234-713-5

melting point 78–90 °C

(anhydr.)

orange-yellow crystals
easily soluble in water and alcohol**Use:** analytical reagent for the determination of alkaloids, potassium, thallium, silicon, detection of cesium, vanadium, cerium, tin, antimony, palladium, reagent for uric acid, caffeine, xantine, microscopy

R: 34

S: 1/2-26-36/37/39-45

ADR/RID 8/II

UN 3260

G.R.**Cat. No. 10025-AP0**

Loss on drying (at 120 °C) ≤23 %

SO₄ ≤0.01 %

Cl ≤0.005 %

Order number	Quantity
10025-AP0-G0100	100 g

pure**Cat. No. 10025-CP0**SO₄ ≤0.05 %

Cl ≤0.05 %

Order number	Quantity
10025-CP0-G0100	100 g

ortho-Phosphoric acid 85 %



M, 98.00

CAS: 7664-38-2

EINECS: 231-633-2

1l–1.70 kg

melting point 21 °C

boiling point 158 °C

clear, colourless to yellowish syrupy liquid
miscible with water**Use:** analytical reagent, chemical and food industry (antioxidant, acidifier), production of special catalysts, multilateral buffer

R: 34

S: 1/2-26-45

RTECS: TB6300000

ADR/RID 8/III

UN 1805

puriss ACS**Cat. No. 10048-E85**

Assay ≥85 %

Color ≤10 APHA

Heavy metals (as Pb) ≤0.001 %

Cl ≤0.0003 %

NO₃ ≤0.0005 %

Fe ≤0.003 %

Mn ≤0.00005 %

SO₄ ≤0.003 %

K ≤0.005 %

Na ≤0.025 %

Sb ≤0.002 %

As ≤0.0001 %

Ca ≤0.002 %

Mg ≤0.002 %

Volatile acids (as CH₃COOH) ≤0.001 %

Reducing substances passes test

Insoluble substances ≤0.001 %

Order number	Quantity
10048-E85-M0500	500 ml
10048-E85-M2500	2500 ml

ortho-Phosphoric acid 85 %

G.R.**Cat. No. 10048-A85**

Assay	84–87 %
SO ₄	≤ 0.01 %
Heavy metals (as Pb)	≤ 0.002 %
Fe	≤ 0.002 %

Order number	Quantity
10048-A85-M1000	1000 ml

pure**Cat. No. 10048-C85**

Assay	84–87 %
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Order number	Quantity
10048-C85-M1000	1000 ml

Phosphorus pentachloride

PCl₅

M, 208.24

CAS: 10026-13-8

EINECS: 233-060-3

melting point 162 °C

boiling point 167 °C (decomposition)

yellowish crystals

rapidly decomposes with water

Use: analytical reagent, organic syntheses,
e.g. chlorination



R: 14-22-26-34-48/20

S: 1/2-7/8-26-36/37/39-45

RTECS: TB6125000

ADR/RID 8/II

UN 1806

G.R.**Cat. No. 30077-APO**

Assay	≥ 99 %
Fe	≤ 0.0002 %
Pb	≤ 0.0001 %

Order number	Quantity
30077-APO-G0250	250 g

Phosphorus pentoxide

P₂O₅

M, 141.94

CAS: 1314-56-3

EINECS: 215-236-1

melting point 580–585 °C

boiling point 591 °C

white or off-white powder, hygroscopic

reacts exothermically with water

Use: drying of gases, liquids and solids,
organic syntheses (cyclization agent,
condensing agent)



R: 35

S: 1/2-22-26-45

RTECS: TH3945000

ADR/RID 8/II

UN 1807

G.R.**Cat. No. 30133-APO**

Assay	≥ 98 %
Cl	≤ 0.001 %
Reducing subst. (as P ₂ O ₃)	≤ 0.02 %
As	≤ 0.005 %

Order number	Quantity
30133-APO-G0500	500 g

pure**Cat. No. 30133-CPO**

Assay	≥ 97 %
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Order number	Quantity
30133-CPO-G0500	500 g

Phosphorus red

P
 M_r 30.97
 CAS: 7723-14-0
 EINECS: 231-768-7
 melting point 416 °C
 boiling point 280 °C
 dark red powder
 insoluble in water

Use: organic syntheses, e.g. for reductions



ADR/RID 4.1/III

R: 11-16-52/53
 S: 2-7-43-46-61
 RTECS: TH3495000
 UN 1338

pure

Cat. No. 30050-CPO

Assay ≥ 97 %

Order number	Quantity
30050-CPO-G0100	100 g

Phosphotungstic acid hydrate

H₇[P(W₂O₇)₆].aq
 M_r 2916.20 + aq
 CAS: 12067-99-1
 EINECS: 235-087-6
 melting point 107 °C
 white or light yellow-green powder
 soluble in water and alcohol

Use: analytical reagent for the determination of alkaloids



ADR/RID 8/III

R: 34
 S: 1/2-26-36/37/39-45
 RTECS: TH5650000
 UN 3260

G.R.

Cat. No. 10026-AP0

Subst. insoluble in H₂O ≤ 0.02 %
 Cl ≤ 0.03 %
 SO₄ ≤ 0.02 %
 Heavy metals and Fe ≤ 0.005 %

Order number	Quantity
10026-AP0-G0100	100 g

Phthalic acid

C₈H₆O₄
 C₆H₄(COOH)₂
 M_r 166.14
 CAS: 88-99-3
 EINECS: 201-873-2
 melting point 206–210 °C
 colourless crystals or white powder
 soluble in water and alcohol

Use: preparation of buffers, organic syntheses



R: 36/37/38
 S: 2-26-36/37/39-46
 RTECS: TH9625000

G.R.

Cat. No. 10027-AP0

Assay ≥ 99.5 %
 Sulfated ash ≤ 0.02 %
 Cl ≤ 0.001 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.001 %
 Heavy metals (as Pb) ≤ 0.001 %

Order number	Quantity
10027-AP0-G0500	500 g

P

Picric acid

$C_6H_3N_3O_7$
 M, 229.11
 CAS: 88-89-1
 EINECS: 201-865-9
 melting point 121–122 °C
 yellow moist crystals
 soluble in alcohol

Use: preparation of dyes, reagent for TLC,
 detection of hydrocarbons – picrates



R: 2-4-23/24/25
 S: 1/2-28-35-37-45
 RTECS: TJ7875000
 UN 1344

ADR/RID 4.1/I

G.R.

Cat. No. 10050-APO

Assay (on dried subst.) ≥ 99 %
 Sulfated ash ≤ 0.02 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.0005 %
 Pb ≤ 0.0005 %
 moistened with water (H₂O ~40 %)

Order number	Quantity
10050-APO-G0100	100 g

Potassium acetate

$C_2H_3KO_2$
 CH_3COOK
 M, 98.14
 CAS: 127-08-2
 EINECS: 204-822-2
 melting point 292 °C
 colourless crystals or white powder
 easily soluble in water

Use: catalyst for condensations, dehydrat-
 ing agent, preparation of buffers

RTECS: AJ3325000

G.R.

Cat. No. 40113-APO

Assay (on dried subst.) ≥ 99 %
 Loss on drying (at 150 °C) ≤ 8 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Acidity (as CH₃COOH) ≤ 0.1 %
 Alkalinity (as K₂CO₃) ≤ 0.03 %
 Cl ≤ 0.002 %
 SO₄ ≤ 0.002 %

Order number	Quantity
40113-APO-G1000	1000 g

pure

Cat. No. 40113-CPO

Assay (on dried subst.) ≥ 98 %
 Loss on drying (at 150 °C) ≤ 15 %
 Subst. insoluble in H₂O ≤ 0.01 %
 Acidity (as CH₃COOH) ≤ 0.2 %
 Alkalinity (as K₂CO₃) ≤ 0.05 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %

Order number	Quantity
40113-CPO-G1000	1000 g

Potassium aluminum sulfate dodecahydrate

$KAl(SO_4)_2 \cdot 12H_2O$
 M, 474.39
 CAS: 7784-24-9
 EINECS: 233-141-3
 melting point 92 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, hardening agent
 in microscopy, pharmaceutical produc-
 tions, buffer

S: 22-24/25
 RTECS: WS5690000

G.R.

Cat. No. 30168-APO

Assay ≥ 99 %
 Cl ≤ 0.001 %
 Pb ≤ 0.001 %
 Fe ≤ 0.0005 %
 NH₄ ≤ 0.005 %
 As ≤ 0.0002 %

Order number	Quantity
30168-APO-G0500	500 g
30168-APO-G1000	1000 g

pure

Cat. No. 30168-CPO

Assay ≥ 99 %
 Cl ≤ 0.005 %
 Pb ≤ 0.002 %
 Fe ≤ 0.002 %

Order number	Quantity
30168-CPO-G1000	1000 g

pharm.

Cat. No. 30168-FPO

Kalii aluminii sulfas dodecahydricus

Order number	Quantity
30168-FPO-G1000	1000 g

Potassium antimonyl tartrate hemihydrate

$C_4H_4KO_7Sb \cdot 0.5H_2O$
 $K(SbO)C_4H_4O_6 \cdot 0.5H_2O$
 M_r 333.93
 CAS: 28300-74-5
 EINECS: 234-293-3
 colourless crystals or white powder
 easily soluble in water

Use: pharmaceutical productions



R: 20/22-51/53
 S: 2-46-61
 ADR/RID 6.1/III UN 1551

G.R.**Cat. No. 40167-AP0**

Assay $\geq 99\%$
 Cl $\leq 0.01\%$
 SO_4 $\leq 0.05\%$
 Fe $\leq 0.005\%$

Order number	Quantity
40167-AP0-G0250	250 g
40167-AP0-G0500	500 g

Potassium bromate

$KBrO_3$
 M_r 167.01
 CAS: 7758-01-2
 EINECS: 231-829-8
 melting point $434^\circ C$
 white granular powder or crystals
 easily soluble in water, hardly in alcohol

Use: analytical reagent, e.g. in volumetric analysis, oxidizer, food industry



R: 45-9-25
 S: 1/2-53-45
 RTECS: EF8725000
 ADR/RID 5.1/II UN 1484

G.R.**Cat. No. 30002-AP0**

Assay $\geq 99\%$
 pH (5%, H_2O) 5.0–9.0
 Br $\leq 0.05\%$
 SO_4 $\leq 0.01\%$
 Fe $\leq 0.005\%$

Order number	Quantity
30002-AP0-G0250	250 g

pure**Cat. No. 30002-CP0**

Assay $\geq 98\%$

Order number	Quantity
30002-CP0-G0250	250 g

Potassium bromide

KBr
 M_r 119.01
 CAS: 7758-02-3
 EINECS: 231-830-3
 melting point $730^\circ C$
 boiling point $1380^\circ C$
 white granular powder or colourless crystals
 easily soluble in water, hardly in alcohol

Use: analytical reagent, IR spectroscopy, bromating reagent in organic syntheses, photographic purposes, pharmaceutical productions



R: 36/37/38
 S: 2-26-36-46
 RTECS: TS7650000

G.R.**Cat. No. 30005-AP0**

Assay $\geq 99\%$
 pH (5%, H_2O) 5.0–8.0
 Cl $\leq 0.2\%$
 SO_4 $\leq 0.005\%$
 Fe $\leq 0.005\%$
 Pb $\leq 0.005\%$

Order number	Quantity
30005-AP0-G0500	500 g
30005-AP0-G1000	1000 g

pure**Cat. No. 30005-CP0**

Assay $\geq 98\%$

Order number	Quantity
30005-CP0-G0500	500 g
30005-CP0-G1000	1000 g

pharm.**Cat. No. 30005-FP0**

Kalii bromidum

Order number	Quantity
30005-FP0-G1000	1000 g

Potassium carbonate

Potassium carbonate anhydrous

K_2CO_3
 M, 138.21
 CAS: 584-08-7
 EINECS: 209-529-3
 melting point 891 °C
 colourless crystals or white powder,
 hygroscopic
 easily soluble in water

Use: desiccant, e.g. for organic solvents,
 pharmaceutical productions



R: 22-36/37/38
 S: 2-26-36-46
 RTECS: TS7750000

G.R.

Cat. No. 30212-AP0

Assay (on dried subst.) ≥ 99 %
 Loss on ignition (at 300 °C) ≤ 1 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Cl ≤ 0.003 %
 SO₄ ≤ 0.004 %
 Heavy metals (as Pb) ≤ 0.001 %
 Fe ≤ 0.0005 %

Order number	Quantity
30212-AP0-G0500	500 g
30212-AP0-G1000	1000 g

pure

Cat. No. 30212-CPO

Assay ~98 %

Order number	Quantity
30212-CPO-G1000	1000 g

pharm.

Cat. No. 30212-FPO

Kalii carbonas

Order number	Quantity
30212-FPO-G1000	1000 g

Potassium carbonate sesquihydrate

$K_2CO_3 \cdot 1.5H_2O$
 M, 165.24
 CAS: 6381-79-9
 EINECS: 209-529-3
 melting point 891 °C
 white powder, hygroscopic
 easily soluble in water

Use: analytical reagent – e.g. test of
 inverted sugars, buffers component



R: 22-36/37/38
 S: 2-26-36-46

G.R.

Cat. No. 30211-AP0

Assay ≥ 99 %
 Total S (as SO₄) ≤ 0.004 %
 Total N ≤ 0.001 %
 Cl ≤ 0.003 %
 PO₄ ≤ 0.001 %
 SiO₂ ≤ 0.005 %

Order number	Quantity
30211-AP0-G1000	1000 g

Potassium chlorate

KClO₃
 M, 122.55
 CAS: 3811-04-9
 EINECS: 223-289-7
 melting point 370 °C
 boiling point 400 °C
 colourless crystals or white powder
 soluble in water

Use: analytical oxidizer



R: 9-20/22-51/53
 S: 2-13-16-27-46-61
 RTECS: FO0350000
 ADR/RID 5.1/II UN 1485

G.R.

Cat. No. 30068-AP0

Assay ≥ 99 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %
 Pb ≤ 0.005 %
 Fe ≤ 0.005 %

Order number	Quantity
30068-AP0-G0500	500 g

Potassium chloride

KCl

M_r 74.56

CAS: 7447-40-7

EINECS: 231-211-8

melting point 773 °C

boiling point 1413 °C

colourless crystals or white powder

readily soluble in water

Use: analytical reagent, preparation of buffers, biochemistry – purification of proteins, isolation of ribosomes, pharmaceutical productions

S: 22-24/25

RTECS: TS8050000

puriss ACS

Cat. No. 30076-EPO

Assay	99–100.5 %
Heavy metals (as Pb)	≤0.0005 %
Insoluble matter in water	≤0.005 %
ClO ₃ , NO ₃ (as NO ₃)	≤0.003 %
Br	≤0.01 %
Ba	passes test
pH (5 %, H ₂ O)	5.4–8.6
I	≤0.002 %
Na	≤0.005 %
PO ₄	≤0.0005 %
SO ₄	≤0.001 %
Fe	≤0.0003 %
Ca	≤0.002 %
Mg	≤0.001 %

Order number	Quantity
30076-EPO-G1000	1000 g

G.R.

Cat. No. 30076-AP0

Assay (on ignit. subst.)	≥99.5 %
Loss on ignition (at 500–600 °C)	≤1 %
N total	≤0.001 %
Fe	≤0.0002 %
SO ₄	≤0.003 %
Pb	≤0.0005 %

Order number	Quantity
30076-AP0-G0500	500 g
30076-AP0-G1000	1000 g

pure

Cat. No. 30076-CPO

Assay (on ignit. subst.)	≥99 %
Loss on ignition (at 500–600 °C)	≤1.5 %
Subst. insoluble in H ₂ O	≤0.02 %
SO ₄	≤0.01 %

Order number	Quantity
30076-CPO-G1000	1000 g

pharm.

Cat. No. 30076-FPO

Kalii chloridum

Order number	Quantity
30076-FPO-G1000	1000 g

Potassium chromate

K₂CrO₄M_r 194.20

CAS: 7789-00-6

EINECS: 232-140-5

melting point 968–985 °C

boiling point 1000 °C

yellow crystalline powder

readily soluble in water

Use: analytical reagent (argentometric indicator)



R: 49-46-36/37/38-43-50/53

S: 1/2-53-45-60-61

RTECS: GB2940000

ADR/RID 6.1/III

UN 3288

G.R.

Cat. No. 30108-AP0

Assay	≥99 %
Subst. insoluble in H ₂ O	≤0.005 %
Cl	≤0.005 %
SO ₄	≤0.005 %

Order number	Quantity
30108-AP0-G0250	250 g
30108-AP0-G0500	500 g
30108-AP0-G1000	1000 g

pure

Cat. No. 30108-CPO

Assay	≥98 %
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Order number	Quantity
30108-CPO-G0500	500 g

Potassium chromium

Potassium chromium(III) sulfate dodecahydrate

KCr(SO₄)₂·12H₂O
 M, 499.41
 CAS: 7788-99-0
 EINECS: 233-401-6
 melting point 89 °C
 violet crystals
 easily soluble in water

Use: analytical reagent, microscopy



R: 36/37/38
 S: 2-26-36-46
 RTECS: GB6850000

G.R.

Cat. No. 30169-AP0

Assay ≥ 98.5 %
 Cl ≤ 0.02 %
 Fe ≤ 0.02 %
 Pb ≤ 0.005 %

Order number	Quantity
30169-AP0-G0500	500 g

pure

Cat. No. 30169-CP0

Assay ~97 %

Order number	Quantity
30169-CP0-G0500	500 g

tri-Potassium citrate monohydrate

C₆H₅K₃O₇·H₂O
 HOC(COOK)(CH₂COOK)₂·H₂O
 M, 324.42
 CAS: 6100-05-6
 EINECS: 231-905-0
 melting point 230 °C
 white crystals or powder
 soluble in water

Use: analytical reagent, e.g. masking of some metals, stabilizer, pharmaceutical productions, food industry

S: 22-24/25

G.R.

Cat. No. 30007-AP0

Assay ≥ 99.5 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %

Order number	Quantity
30007-AP0-G1000	1000 g

pure

Cat. No. 30007-CP0

Assay ≥ 99 %
 Subst. insoluble in H₂O ≤ 0.01 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.01 %

Order number	Quantity
30007-CP0-G1000	1000 g

Potassium cyanide

KCN
 M, 65.12
 CAS: 151-50-8
 EINECS: 205-792-3
 melting point 635 °C
 boiling point 1625 °C
 white crystalline powder or little pieces,
 hygroscopic
 easily soluble in water, hardly in alcohol

Use: analytical reagent, e.g. complexing agent in alkaline solutions, organic syntheses – cyanation



R: 26/27/28-32-50/53
 S: 1/2-7-28-29-45-60-61
 RTECS: TS8750000
 UN 1680

ADR/RID 6.1/I

pure granules

Cat. No. 30121-CP4

Assay ≥ 97 %

Order number	Quantity
30121-CP4-G0500	500 g
30121-CP4-G1000	1000 g

pure powder

Cat. No. 30121-CPO

Assay ≥ 97 %

Order number	Quantity
30121-CPO-G0500	500 g
30121-CPO-G1000	1000 g

Potassium dichromate

$K_2Cr_2O_7$
 M, 294.19
 CAS: 7778-50-9
 EINECS: 231-906-6
 melting point 398 °C
 boiling point > 500 °C
 orange-red crystals
 easily soluble in water

Use: analytical reagent, e.g. in volumetric analysis (iodometry, oxidimetry), oxidizer



R: 45-46-60-61-8-21-25-26-34-42/43-48/23-50/53

S: 1/2-53-45-60-61

RTECS: HX7680000

ADR/RID 6.1/II UN 3086

G.R.**Cat. No. 30020-AP0**

Assay ≥ 99.5 %
 Cl ≤ 0.002 %
 SO₄ ≤ 0.01 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Subst. precipit. by NH₄OH (Fe, Al) ≤ 0.005 %

Order number	Quantity
30020-AP0-G0500	500 g
30020-AP0-G1000	1000 g

pure**Cat. No. 30020-CP0**

Assay ≥ 95 %

Order number	Quantity
30020-CP0-G1000	1000 g

Potassium dihydrogen phosphate

KH_2PO_4
 M, 136.09
 CAS: 7778-77-0
 EINECS: 231-913-4
 melting point 253 °C
 white crystals
 easily soluble in water

Use: analytical reagent, preparation of buffers, food industry (acidity controller, stabilizer and source of phosphorus), pharmaceutical industry, drinking water treatment

puriss ACS**Cat. No. 30016-EP0**

Assay ≥ 99 %
 Loss on drying (105 °C, 2 h) ≤ 0.2 %
 Heavy metals (as Pb) ≤ 0.001 %
 Insoluble matter in water ≤ 0.01 %
 pH (5 %, H₂O) 4.1–4.5
 Cl ≤ 0.001 %
 SO₄ ≤ 0.003 %
 Fe ≤ 0.002 %
 Na ≤ 0.005 %

Order number	Quantity
30016-EP0-G0025	25 g
30016-EP0-G0500	500 g

G.R.**Cat. No. 30016-AP0**

Assay ≥ 99 %
 SO₄ ≤ 0.02 %
 Cl ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %
 pH (5 %, H₂O) 4.1–4.5

Order number	Quantity
30016-AP0-G0500	500 g
30016-AP0-G1000	1000 g

pure**Cat. No. 30016-CP0**

Assay ≥ 98 %
 SO₄ ≤ 0.02 %

Order number	Quantity
30016-CP0-G0500	500 g

pharm.**Cat. No. 30016-FP0**

Kalii dihydrogenophosphas

Order number	Quantity
30016-FP0-G1000	1000 g

Potassium disulfate

Potassium disulfate

$K_2S_2O_7$
 M, 254.33
 CAS: 7790-62-7
 EINECS: 232-216-8
 melting point 325 °C
 white crystals or powder
 easily soluble in water

Use: melting agent, e.g. for Al and Fe (redox reactions in molten salts), photographic purposes



R: 34
 S: 1/2-26-36/37/39-45
 RTECS: TS7200000

ADR/RID 8/II UN 3260

G.R.

Cat. No. 30022-AP0

Assay ≥ 97.5 %
 Cl ≤ 0.0005 %
 Heavy metals (as Pb) ≤ 0.001 %
 Fe ≤ 0.0005 %
 Mg ≤ 0.0005 %

Order number	Quantity
30022-AP0-G0500	500 g

Potassium disulfite

$K_2S_2O_5$
 M, 222.33
 CAS: 16731-55-8
 EINECS: 240-795-3
 melting point 190 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, reductant, anti-fermentation agent, preservative



R: 31-36/37/38
 S: 2-26-36-46
 RTECS: TT4920000

G.R.

Cat. No. 30023-AP0

Assay ≥ 95 %
 Cl ≤ 0.005 %
 Heavy metals (as Pb) ≤ 0.001 %
 Fe ≤ 0.0005 %
 As ≤ 0.0001 %

Order number	Quantity
30023-AP0-G0500	500 g
30023-AP0-G1000	1000 g

pure

Cat. No. 30023-CP0

Assay ≥ 95 %

Order number	Quantity
30023-CP0-G1000	1000 g

Potassium fluoride

KF
 M, 58.10
 CAS: 7789-23-3
 EINECS: 232-151-5
 melting point 855 °C
 boiling point 1500 °C
 white crystalline powder, very hygroscopic
 readily soluble in water, practically insoluble in alcohol

Use: analytical reagent, e.g. complexing agent, fluorination of organic compounds



R: 23/24/25
 S: 1/2-26-45
 RTECS: TT0700000

ADR/RID 6.1/III UN 1812

G.R.

Cat. No. 30048-AP0

Assay ≥ 99 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.1 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30048-AP0-G1000	1000 g

pure

Cat. No. 30048-CP0

Assay ≥ 98 %

Order number	Quantity
30048-CP0-G1000	1000 g

Potassium hexacyanoferrate(II) trihydrate

$K_4[Fe(CN)_6] \cdot 3H_2O$
 M, 422.41
 CAS: 14459-95-1
 EINECS: 237-722-2
 melting point 70 °C
 yellow crystals
 readily soluble in water

Use: analytical reagent, e.g. evidence of iron(III) ions, production of blue pigment (Berlin blue)

R: 32
 S: 2-22-24/25-46

G.R.**Cat. No. 30054-AP0**

Assay $\geq 99.5\%$
 Cl $\leq 0.005\%$
 SO₄ $\leq 0.005\%$

Order number	Quantity
30054-AP0-G0500	500 g
30054-AP0-G1000	1000 g

pure**Cat. No. 30054-CP0**

Assay $\geq 99\%$
 Cl $\leq 0.05\%$
 SO₄ $\leq 0.05\%$

Order number	Quantity
30054-CP0-G0500	500 g

Potassium hexacyanoferrate(III)

$K_3[Fe(CN)_6]$
 M, 329.26
 CAS: 13746-66-2
 EINECS: 237-323-3
 dark red crystals
 readily soluble in water

Use: analytical reagent, e.g. evidence of iron(II) ions, determination of phenols, mild oxidizer, identification of salbutamol

R: 32
 S: 2-22-24/25-46
 RTECS: LI8225000

puriss ACS**Cat. No. 30053-EPO**

Assay $\geq 99\%$
 Insoluble matter in water $\leq 0.005\%$
 $[Fe(CN)_6]^{4-}$ $\leq 0.05\%$
 Cl $\leq 0.01\%$
 SO₄ $\leq 0.01\%$

Order number	Quantity
30053-EPO-G0500	500 g
30053-EPO-G0005	5 g

G.R.**Cat. No. 30053-AP0**

Assay $\geq 99\%$
 Subst. insoluble in H₂O $\leq 0.01\%$
 Cl $\leq 0.02\%$
 SO₄ $\leq 0.01\%$
 $[Fe(CN)_6]^{4-}$ $\leq 0.05\%$

Order number	Quantity
30053-AP0-G0500	500 g
30053-AP0-G1000	1000 g

pure**Cat. No. 30053-CP0**

Assay $\geq 98\%$

Order number	Quantity
30053-CP0-G0500	500 g

Potassium hydrogen carbonate

KHCO₃
 M, 100.12
 CAS: 298-14-6
 EINECS: 206-059-0
 melting point 292 °C
 colourless crystals or white powder
 readily soluble in water

Use: analytical neutralizing agent, medicine, food industry

G.R.**Cat. No. 30066-AP0**

Assay $\geq 99\%$
 Cl $\leq 0.005\%$
 SO₄ $\leq 0.01\%$
 Fe $\leq 0.005\%$
 Pb $\leq 0.005\%$

Order number	Quantity
30066-AP0-G1000	1000 g

pure**Cat. No. 30066-CP0**

Assay $\geq 98\%$
 Cl $\leq 0.1\%$
 SO₄ $\leq 0.1\%$

Order number	Quantity
30066-CP0-G1000	1000 g

Potassium hydrogen

di-Potassium hydrogen phosphate

K_2HPO_4
M, 174.18
CAS: 7758-11-4
EINECS: 231-834-5
colourless crystals or white powder
readily soluble in water

Use: analytical reagent, component of culture media for microbiological purposes, preparation of buffers, pharmaceutical productions, food industry (acidity controller, stabilizer and source of phosphorus)

S: 22-24/25

G.R.

Cat. No. 30060-APO

Assay $\geq 99\%$
Loss on drying (at 130 °C) $\leq 1\%$
Cl $\leq 0.002\%$
SO₄ $\leq 0.01\%$
Fe $\leq 0.001\%$

Order number	Quantity
30060-APO-G0500	500 g
30060-APO-G1000	1000 g

pure

Cat. No. 30060-CPO

Assay $\geq 98\%$
Cl $\leq 0.005\%$
SO₄ $\leq 0.01\%$
Fe $\leq 0.005\%$

Order number	Quantity
30060-CPO-G1000	1000 g

pharm.

Cat. No. 30060-FPO

Kalii hydrogenophosphas

Order number	Quantity
30060-FPO-G1000	1000 g

Potassium hydrogen phthalate

$C_8H_5KO_4$
HOOC₂H₄COOK
M, 204.23
CAS: 877-24-7
EINECS: 212-889-4
colourless crystals or white powder
readily soluble in water

Use: analytical reagent in volumetric analysis

S: 22-24/25

G.R.

Cat. No. 40063-APO

Assay $\geq 99\%$
Fe $\leq 0.0005\%$
Heavy metals (as Pb) $\leq 0.001\%$
Cl $\leq 0.002\%$
SO₄ $\leq 0.005\%$

Order number	Quantity
40063-APO-G0500	500 g
40063-APO-G1000	1000 g

P

Potassium hydrogen sulfate

$KHSO_4$
M, 136.17
CAS: 7646-93-7
EINECS: 231-594-1
melting point 215 °C
spec. stor. cond. 5–15 °C
colourless crystals or white powder,
hygroscopic
readily soluble in water

Use: analytical reagent, decomposition of hardly soluble compounds



ADR/RID 8/II

R: 34-37
S: 1/2-26-36/37/39-45
RTECS: TS7200000
UN 2509

G.R.

Cat. No. 30063-APO

Assay $\geq 99\%$
Cl $\leq 0.0005\%$
Fe $\leq 0.0005\%$
Pb $\leq 0.0005\%$

Order number	Quantity
30063-APO-G1000	1000 g

pure

Cat. No. 30063-CPO

Assay $\geq 98\%$
Cl $\leq 0.005\%$
Fe $\leq 0.005\%$
Pb $\leq 0.005\%$

Order number	Quantity
30063-CPO-G1000	1000 g

Potassium hydrogen tartrate

$C_4H_5KO_6$
 $HOOCCH(OH)CH(OH)COOK$
 M, 188.18
 CAS: 868-14-4
 EINECS: 212-769-1
 colourless crystals or white powder
 readily soluble in water

Use: analytical reagent, preparation of buffers, food industry

S: 22-24/25
 RTECS: WW8223000

G.R.**Cat. No. 40065-AP0**

Assay $\geq 99\%$
 Subst. insoluble in dilute HCl $\leq 0.005\%$
 Cl $\leq 0.002\%$
 SO_4 $\leq 0.005\%$
 NH_4 $\leq 0.005\%$
 Fe $\leq 0.002\%$

Order number	Quantity
40065-AP0-G0500	500 g
40065-AP0-G1000	1000 g

pure**Cat. No. 40065-CP0**

Assay $\geq 99\%$
 Subst. insoluble in dilute HCl $\leq 0.01\%$
 Cl $\leq 0.005\%$
 SO_4 $\leq 0.01\%$
 NH_4 $\leq 0.01\%$
 Fe $\leq 0.003\%$

Order number	Quantity
40065-CP0-G0500	500 g

Potassium hydroxide

KOH
 M, 56.11
 CAS: 1310-58-3
 EINECS: 215-181-3
 melting point 360 °C
 boiling point 1320 °C
 white crystalline material of different shapes, hygroscopic
 readily soluble in water and alcohol

Use: analytical reagent, e.g. for determination of saponification number, absorption of CO_2 , pharmaceutical productions



ADR/RID 8/II

R: 22-35
 S: 1/2-26-36/37/39-45
 RTECS: TT2100000
 UN 1813

puriss ACS**Cat. No. 10003-EP0**

Assay $\geq 85\%$
 K_2CO_3 $\leq 2\%$
 Heavy metals (as Ag) $\leq 0.001\%$
 Cl $\leq 0.01\%$
 Fe $\leq 0.001\%$
 Ni $\leq 0.001\%$
 Na $\leq 0.05\%$
 PO_4 $\leq 0.0005\%$
 Ca $\leq 0.005\%$
 SO_4 $\leq 0.003\%$
 Mg $\leq 0.002\%$
 N total $\leq 0.001\%$

Order number	Quantity
10003-EP0-G0500	500 g
10003-EP0-G2500	2500 g

chem. pure scales**Cat. No. 10003-HP3**

Assay $\geq 86\%$
 K_2CO_3 $\leq 0.6\%$
 Cl $\leq 0.002\%$
 SO_4 $\leq 0.0005\%$
 SiO_2 $\leq 0.002\%$
 Heavy metals (as Ag) $\leq 0.0005\%$
 Fe $\leq 0.0005\%$
 N total $\leq 0.0005\%$

Order number	Quantity
10003-HP3-G1000	1000 g

G.R. scales**Cat. No. 10003-AP3**

Assay $\geq 85\%$
 K_2CO_3 $\leq 1\%$
 Cl $\leq 0.004\%$
 SO_4 $\leq 0.002\%$
 Heavy metals (as Ag) $\leq 0.0005\%$
 Fe $\leq 0.0005\%$
 N total $\leq 0.0005\%$

Order number	Quantity
10003-AP3-G1000	1000 g

P

Potassium hydroxide

pure scales

Cat. No. 10003-CP3

Assay	≥ 84.5 %
K ₂ CO ₃	≤ 1.5 %
Heavy metals (as Ag)	≤ 0.001 %
Fe	≤ 0.001 %
N total	≤ 0.001 %

Order number	Quantity
10003-CP3-G1000	1000 g

pharm. scales

Cat. No. 10003-FP3

Kalii hydroxidum

Order number	Quantity
10003-FP3-G1000	1000 g

Potassium iodate

KIO₃

M, 214.00

CAS: 7758-05-6

EINECS: 231-831-9

melting point 560 °C

colourless crystals or white powder

soluble in water

Use: analytical reagent, oxidizer, chemical industry, food industry (acidity controller, source of iodine)



R: 8-22-42/43

S: 2-17-36/37/39-46

RTECS: NN1350000

UN 1479

ADR/RID 5.1/II

G.R.

Cat. No. 30112-AP0

Assay	≥ 99.5 %
Loss on drying (at 110 °C)	≤ 0.05 %
I	≤ 0.001 %
SO ₄	≤ 0.005 %
Cl, ClO ₃ (as Cl)	≤ 0.02 %

Order number	Quantity
30112-AP0-G0100	100 g
30112-AP0-G0500	500 g

pure

Cat. No. 30112-CP0

Assay	≥ 98 %
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Order number	Quantity
30112-CP0-G0100	100 g

Potassium iodide

KI

M, 166.01

CAS: 7681-11-0

EINECS: 231-659-4

melting point 560 °C

boiling point 1420 °C

colourless crystals or white powder, tends

to become yellow with light and moisture readily soluble in water

Use: analytical reagent (iodometry), reduction effects, production of starch-iodide papers, food industry (additive), pharmaceutical productions

S: 22-24/25

RTECS: TT2975000

puriss ACS

Cat. No. 30115-EPO

Assay	≥ 99 %
Loss on drying (at 150 °C)	≤ 0.2 %
Heavy metals (as Pb)	≤ 0.0005 %
pH (5 %, H ₂ O)	6–9.2
Insoluble matter in water	≤ 0.005 %
Cl, Br (as Cl)	≤ 0.01 %
Ba	≤ 0.002 %
Fe	≤ 0.0003 %
PO ₄	≤ 0.001 %
IO ₃	≤ 0.0003 %
Na	≤ 0.005 %
SO ₄	≤ 0.005 %
Ca	≤ 0.002 %
Mg	≤ 0.001 %

Order number	Quantity
30115-EPO-G0100	100 g
30115-EPO-G0500	500 g

G.R.

Cat. No. 30115-AP0

Assay (on dried subst.)	≥ 99.5 %
H ₂ O (K.F.)	≤ 0.2 %
Subst. insoluble in H ₂ O	≤ 0.005 %
Cl + Br (as Cl)	≤ 0.01 %
SO ₄	≤ 0.005 %
pH (5 %, H ₂ O)	6–9.2

Order number	Quantity
30115-AP0-G0500	500 g
30115-AP0-G1000	1000 g

Potassium iodide

pure

Cat. No. 30115-CPO

Assay (on dried subst.)	≥ 99 %
H ₂ O (K.F.)	≤ 0.5 %
Subst. insoluble in H ₂ O	≤ 0.01 %
Cl + Br (as Cl)	≤ 0.02 %
SO ₄	≤ 0.02 %

Order number	Quantity
30115-CPO-G0500	500 g
30115-CPO-G1000	1000 g

pharm.

Cat. No. 30115-FPO

Kalii iodidum

Order number	Quantity
30115-FPO-G1000	1000 g

Potassium nitrate

KNO₃M_r 101.11

CAS: 7757-79-1

EINECS: 231-818-8

melting point 337 °C

(decomposition from 400 °C)

colourless or white crystals

easily soluble in water

Use: analytical reagent, oxidizer, pharmaceutical productions



R: 8

S: 2-16-41-46

RTECS: TT3700000

ADR/RID 5.1/III

UN 1486

G.R.

Cat. No. 30029-APO

Assay	≥ 99 %
Cl	≤ 0.001 %
SO ₄	≤ 0.01 %
Fe	≤ 0.001 %
Pb	≤ 0.0005 %

Order number	Quantity
30029-APO-G0500	500 g
30029-APO-G1000	1000 g

pure

Cat. No. 30029-CPO

Assay	≥ 98 %
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Order number	Quantity
30029-CPO-G1000	1000 g

pharm.

Cat. No. 30029-FPO

Kalii nitras

Order number	Quantity
30029-FPO-G1000	1000 g

Potassium nitrite

KNO₂M_r 85.11

CAS: 7758-09-0

EINECS: 231-832-4

melting point 387–440 °C

white to light yellow crystals, hygroscopic
easily soluble in water

Use: analytical reagent, e.g. for cobalt, iodine, urea, diazotation, precipitation of metal tungsten and molybdenum, complexing agent, medicine



R: 8-25-50

S: 1/2-45-61

RTECS: TT3750000

ADR/RID 5.1/II UN 1488

G.R.

Cat. No. 30045-APO

Assay	≥ 98 %
pH (5 %, H ₂ O)	7–10
Cl	≤ 0.005 %
SO ₄	≤ 0.005 %
Fe	≤ 0.0005 %
Pb	≤ 0.0005 %

Order number	Quantity
30045-APO-G0500	500 g
30045-APO-G1000	1000 g

pure

Cat. No. 30045-CPO

Assay	≥ 95 %
-------------	--------

Order number	Quantity
30045-CPO-G0500	500 g

P

Potassium oxalate

Potassium oxalate monohydrate

$C_2K_2O_4 \cdot H_2O$
 $(COOK)_2 \cdot H_2O$
 M, 184.24
 CAS: 6487-48-5
 EINECS: 209-506-8
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, reductant,
 pharmacy



R: 21/22
 S: 2-24/25-46
 UN 3263

ADR/RID 8/II

G.R.

Cat. No. 40142-AP0

Assay $\geq 99\%$
 pH (5 %, H_2O) 7–8.5
 Cl $\leq 0.005\%$
 SO_4 $\leq 0.02\%$
 Fe $\leq 0.005\%$
 Pb $\leq 0.005\%$

Order number	Quantity
40142-AP0-G0100	100 g

Potassium perchlorate

$KClO_4$
 M, 138.55
 CAS: 7778-74-7
 EINECS: 231-912-9
 melting point 610 °C
 colourless crystals or white powder
 slightly soluble in water

Use: analytical reagent and oxidizer



R: 9-22
 S: 2-13-22-27-46
 RTECS: SC9700000
 UN 1489

ADR/RID 5.1/II

G.R.

Cat. No. 30104-AP0

Assay $\geq 99\%$
 Cl, ClO_3 (as Cl) $\leq 0.05\%$
 SO_4 $\leq 0.005\%$
 Fe $\leq 0.005\%$
 Pb $\leq 0.005\%$

Order number	Quantity
30104-AP0-G0500	500 g

pure

Cat. No. 30104-CP0

Assay $\sim 99\%$

Order number	Quantity
30104-CP0-G1000	1000 g

Potassium periodate

KIO_4
 M, 230.00
 CAS: 7790-21-8
 EINECS: 232-196-0
 melting point 581–582 °C
 colourless crystals or white powder
 soluble in water

Use: analytical reagent and oxidizer
 (e.g. determination of manganese)



R: 8-36/37/38
 S: 2-17-26-36-46
 ADR/RID 5.1/II UN 1479

G.R.

Cat. No. 30118-AP0

Assay $\geq 98\%$
 Subst. insoluble in H_2O $\leq 0.01\%$
 Cl, ClO_3 (as Cl) $\leq 0.02\%$
 SO_4 $\leq 0.005\%$
 Fe $\leq 0.005\%$
 Pb $\leq 0.005\%$

Order number	Quantity
30118-AP0-G0100	100 g

Potassium permanganate

KMnO_4
 M_r 158.04
 CAS: 7722-64-7
 EINECS: 231-760-3
 melting point 240 °C
 dark violet crystals
 easily soluble in boiling water

Use: analytical reagent, e.g. in volumetric analysis (manganometry), oxidizer, cleaning of solvents and water purification, pharmaceutical productions, disinfecting agent



R: 8-22-50/53
 S: 2-46-60-61
 RTECS: SD6475000
 ADR/RID 5.1/II UN 1490

puriss ACS

Cat. No. 30123-EPO

Assay $\geq 99\%$
 Subst. insoluble in H_2O $\leq 0.2\%$
 Cl, ClO_3 (as Cl) $\leq 0.005\%$
 SO_4 $\leq 0.02\%$

Order number	Quantity
30123-EPO-G0500	500 g

G.R.

Cat. No. 30123-AP0

Assay $\geq 99.5\%$
 Subst. insoluble in H_2O $\leq 0.2\%$
 Cl $\leq 0.005\%$
 SO_4 $\leq 0.007\%$

Order number	Quantity
30123-AP0-G0500	500 g
30123-AP0-G1000	1000 g

pure

Cat. No. 30123-CP0

Assay $\geq 99\%$
 Subst. insoluble in H_2O $\leq 0.2\%$
 Cl $\leq 0.01\%$
 SO_4 $\leq 0.01\%$

Order number	Quantity
30123-CP0-G1000	1000 g

pharm.

Cat. No. 30123-FP0

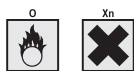
Kalii permanganas

Order number	Quantity
30123-FP0-G1000	1000 g

Potassium peroxodisulfate

$\text{K}_2\text{S}_2\text{O}_8$
 M_r 270.33
 CAS: 7727-21-1
 EINECS: 231-781-8
 melting point 100 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical oxidizer for cerium(III), chromium(III) and manganese(II) ions



R: 8-22-36/37/38-42/43
 S: 2-22-24-26-37-46
 RTECS: SE0400000
 ADR/RID 5.1/III UN 1492

G.R.

Cat. No. 30155-AP0

Assay $\geq 98\%$
 Fe $\leq 0.001\%$
 Mn $\leq 0.0001\%$
 Heavy metals (as Pb) $\leq 0.003\%$
 Cl $\leq 0.001\%$

Order number	Quantity
30155-AP0-G0500	500 g
30155-AP0-G1000	1000 g

Potassium polysulfide

K_2S_n
 CAS: 37199-66-9
 EINECS: 253-390-1
 melting point 200–250 °C
 yellow-brown pieces
 soluble in water



R: 31-34-50
 S: 1/2-26-45-61
 ADR/RID 8/II UN 1847

G.R.

Cat. No. 40128-AP0

Assay of K_2S $\geq 42\%$
 N $\leq 0.005\%$

Order number	Quantity
40128-AP0-G0500	500 g

pure

Cat. No. 40128-CP0

Assay of K_2S $\geq 42\%$

Order number	Quantity
40128-CP0-G0500	500 g

Potassium sodium carbonate

NaKCO₃
 M_r 122.10
 CAS: 10424-09-6
 colourless crystals or white powder
 easily soluble in water

Use: alkaline reagent, ion exchange



R: 36/37/38
 S: 2-22-26-36-46

G.R.**Cat. No. 30210-APO**

Cl ≤ 0.002 %
 Total S (as SO₄) ≤ 0.005 %
 Fe ≤ 0.0005 %
 Heavy metals (as Pb) ≤ 0.001 %
 Loss on ignition (at 600 °C) ≤ 1 %

Order number	Quantity
30210-APO-G0250	250 g
30210-APO-G1000	1000 g

Potassium sodium tartrate tetrahydrate

C₄H₄KNaO₆·4H₂O
 KOOCCH(OH)CH(OH)COONa·4H₂O
 M_r 282.23
 CAS: 6100-16-9
 EINECS: 206-156-8
 melting point 70–80 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, preparation of Fehling's solution for the detection of dextrose, food industry, pharmaceutical productions

S: 22-24/25

G.R.**Cat. No. 40169-APO**

Assay ≥ 99.5 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Cl ≤ 0.001 %
 SO₄ ≤ 0.008 %
 pH (5 %, H₂O) 7–8.5

Order number	Quantity
40169-APO-G0500	500 g
40169-APO-G1000	1000 g

pure**Cat. No. 40169-CPO**

Assay ≥ 99 %
 Subst. insoluble in H₂O ≤ 0.01 %
 Cl ≤ 0.002 %
 SO₄ ≤ 0.03 %
 pH (5 %, H₂O) 6–8.5

Order number	Quantity
40169-CPO-G0500	500 g
40169-CPO-G1000	1000 g

pharm.**Cat. No. 40169-FPO**

Kalii natrii tartras tetrahydricus

Order number	Quantity
40169-FPO-G1000	1000 g

Potassium sulfate

K₂SO₄
 M_r 174.27
 CAS: 7778-80-5
 EINECS: 231-915-5
 melting point 1069 °C
 boiling point 1689 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, e.g. analysis according to Kjeldahl, food and pharmaceutical industry

S: 22-24/25
 RECS: TT5900000

puriss ACS**Cat. No. 30170-EPO**

Assay ≥ 99 %
 Heavy metals (as Pb) ≤ 0.0005 %
 Subst. insoluble in H₂O ≤ 0.01 %
 Total N ≤ 0.0005 %
 pH (5 %, H₂O) 5.5–8.5
 Cl ≤ 0.001 %
 Fe ≤ 0.0005 %
 Na ≤ 0.02 %
 Ca ≤ 0.01 %
 Mg ≤ 0.005 %

Order number	Quantity
30170-EPO-G1000	1000 g

G.R.**Cat. No. 30170-APO**

Subst. insoluble in H₂O ≤ 0.005 %
 Cl ≤ 0.0005 %
 Ca ≤ 0.005 %
 Mg ≤ 0.002 %
 Heavy metals (as Pb) ≤ 0.001 %

Order number	Quantity
30170-APO-G0500	500 g
30170-APO-G1000	1000 g

Potassium sulfate

pure

Cat. No. 30170-CPO

Subst. insoluble in H ₂ O	≤ 0.025 %
Cl	≤ 0.005 %
Ca	≤ 0.025 %
Mg	≤ 0.01 %
Heavy metals (as Pb)	≤ 0.01 %

Order number	Quantity
30170-CPO-G1000	1000 g

Potassium sulfite



M, 158.27

CAS: 10117-38-1

EINECS: 233-321-1

melting point 471 °C

colourless crystals or white powder

easily soluble in water

Use: analytical reagent, food industry

R: 31-36/37/38

S: 2-22-26-36-46

pure

Cat. No. 30194-CPO

Assay	≥ 95 %
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Order number	Quantity
30194-CPO-G1000	1000 g

Potassium thiocyanate



M, 97.18

CAS: 333-20-0

EINECS: 206-370-1

melting point 175 °C

boiling point 500 °C

colourless crystals or white powder,

hygroscopic

easily soluble in water

Use: analytical reagent, e.g. for the evidence and determination of iron(III) ions, indirect determination of chlorides, bromides, iodides



R: 20/21/22-32-52/53

S: 2-13-46-61

RTECS: XL1925000

G.R.

Cat. No. 30203-AP0

Assay	≥ 99 %
Cl	≤ 0.005 %
SO ₄	≤ 0.005 %
Fe	≤ 0.0001 %
Heavy metals (as Pb)	≤ 0.0005 %
Subst. insoluble in H ₂ O	≤ 0.005 %

Order number	Quantity
30203-AP0-G0500	500 g
30203-AP0-G1000	1000 g

1,2-Propanediol

Propylene glycol



M, 76.10

CAS: 57-55-6

EINECS: 200-338-0

1l~1.04 kg

melting point -59 °C

boiling point 188 °C

clear, colourless syrupy liquid

miscible with water and alcohol

G.R.

Cat. No. 20048-AT0

Assay	≥ 99.5 %
H ₂ O (K.F.)	≤ 0.2 %
Acidity (as CH ₃ COOH)	≤ 0.01 %
Non-volatile substances	≤ 0.005 %

Order number	Quantity
20048-AT0-M1000	1000 ml

pure

Cat. No. 20048-CT0

Assay	≥ 99 %
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Order number	Quantity
20048-CT0-M1000	1000 ml

Propanediol

1,2-Propanediol

Use: pharmaceutical productions

RTECS: TY2000000

pharm.

Cat. No. 20048-FTO

Propylenglycolum

Order number	Quantity
20048-FTO-M1000	1000 ml

Propan-1-ol, see 1-Propanol – page 152

2-Propanol, see Isopropanol – page 96

1-Propanol

C_3H_8O

$CH_3CH_2CH_2OH$

M, 60.10

CAS: 71-23-8

EINECS: 200-746-9

1l~0.80 kg

melting point -126 °C

boiling point 97 °C

flash point 15 °C

clear, colourless liquid

miscible with water and alcohol

Use: solvent, e.g. for HPLC, organic syntheses



R: 11-41-67

S: 2-7-16-24-26-39-46

RTECS: UH8225000

ADR/RID 3/II

UN 1274

G.R.

Cat. No. 20049-ATO

Assay ≥ 99.5 %

H₂O (K.F.) ≤ 0.1 %

Non-volatile subst. ≤ 0.001 %

Free acids (as C₂H₃COOH) ≤ 0.01 %

Order number	Quantity
20049-ATO-M1000	1000 ml
20049-ATO-M5000	5000 ml

for HPLC

Cat. No. 20049-LTO

Assay ≥ 99.5 %

Water ≤ 0.05 %

Acidity (mEq./g) ≤ 0.0005

Evaporation residue ≤ 0.0005 %

UV transmission levels

Wavelength Transmission

250 nm ≥ 90 %

290 nm ≥ 98 %

300 nm ≥ 99 %

Order number	Quantity
20049-LTO-M2500	2500 ml

P

Propenoic acid, see Acrylic acid – page 6

Propionic acid

$C_3H_6O_2$

CH_3CH_2COOH

M, 74.08

CAS: 79-09-4

EINECS: 201-176-3

1l~0.99 kg

melting point -21 °C

boiling point 141 °C

flash point 54 °C

clear, oily colourless liquid

miscible with water, alcohol, ether

Use: pharmaceutical and food industry (acidifier)



R: 34

S: 1/2-23-36-45

RTECS: UE5950000

ADR/RID 8/III

UN 1848

pure

Cat. No. 10051-CTO

Assay ≥ 98 %

n_D^{20} 1.385–1.387

Order number	Quantity
10051-CTO-G0500	500 g

Propylene glycol, see 1,2-Propanediol – page 151

Pyridine

C_5H_5N
 $N:CHCH:CHCH:CH$
 M, 79.10
 CAS: 110-86-1
 EINECS: 203-809-9
 1l~0.98 kg
 melting point $-41\text{ }^\circ\text{C}$
 boiling point $115\text{ }^\circ\text{C}$
 flash point $17\text{ }^\circ\text{C}$
 colourless or yellowish liquid with characteristic odour
 miscible with water and alcohol

Use: analytical and complexing agent, solvent, acetylation of hydroxyl groups



R: 11-20/21/22
 S: 2-26-28-46
 RTECS: UR8400000
 UN 1282

ADR/RID 3/II

puriss ACS

Cat. No. 20050-ETO

Assay $\geq 99\%$
 H_2O (K.F.) $\leq 0.1\%$
 Solubility in water passes test
 Cl $\leq 0.001\%$
 SO_4 $\leq 0.001\%$
 NH_3 $\leq 0.002\%$
 Cu $\leq 0.0005\%$
 Reducing substances passes test
 Non-volatile substances $\leq 0.002\%$

Order number	Quantity
20050-ETO-M0500	500 ml
20050-ETO-M1000	1000 ml

G.R.

Cat. No. 20050-ATO

Assay $\geq 99.5\%$
 H_2O (K.F.) $\leq 0.1\%$
 Non-volatile subst. $\leq 0.005\%$
 Subst. reducing $KMnO_4$ (as O) $\leq 0.005\%$

Order number	Quantity
20050-ATO-M1000	1000 ml

1-(2-Pyridylazo)-2-naphthol

$C_{15}H_{11}N_3O$
 $N:CHCH:CHCH:CN:NC_{10}H_6OH$
 M, 249.27
 CAS: 85-85-8
 EINECS: 201-637-9
 melting point $137\text{--}140\text{ }^\circ\text{C}$
 red to brown powder
 slightly soluble in methanol

Use: complexometric indicator, spectrophotometric detection of Pb, Mn, Ca, Cu, Ni, Co, V cations



R: 36/37/38
 S: 2-26-36-46

indicator

Cat. No. 40130-IPO

Order number	Quantity
40130-IPO-G0005	5 g
40130-IPO-G0010	10 g

4-(2-Pyridylazo)resorcinol monosodium salt monohydrate

$C_{11}H_8N_2NaO_2 \cdot H_2O$
 $N:CHCH:CHCH:CN:N-4-C_6H_3-1,3-(OH)ONa \cdot H_2O$
 M, 255.21
 CAS: 16593-81-0
 EINECS: 236-339-8
 orange-red or red-brown crystalline powder
 soluble in water

Use: complexometric indicator, determination of Cr traces, reagent for the determination of Co, Pb, U



R: 36/37/38
 S: 2-26-36-46

indicator

Cat. No. 40131-IPO

Order number	Quantity
40131-IPO-G0005	5 g

Pyrogallol

$C_6H_3O_3$
 $C_6H_3(OH)_3$
 M, 126.11
 CAS: 87-66-1
 EINECS: 201-762-9
 melting point 130–135 °C
 boiling point 309 °C
 colourless or light yellow crystals, tends to become grey with light and air
 easily soluble in water and alcohol

Use: analytical reagent for the determination of antimony, bismuth, removal of oxygen from gases, reductant



^{xn}
 R: 20/21/22-52/53-68
 S: 2-36/37-46-61
 RTECS: UX2800000
 ADR/RID 6.1/III UN 2811

puriss ACS**Cat. No. 40132-EPO**

Melting point 131–135 °C
 Heavy metals (as Pb) ≤ 0.0005 %
 Residue after ignition ≤ 0.005 %
 Fe ≤ 0.001 %
 SO₄ ≤ 0.005 %
 Cl ≤ 0.001 %

Order number	Quantity
40132-EPO-G0100	100 g
40132-EPO-G0500	500 g

G.R.**Cat. No. 40132-APO**

Assay ≥ 99.5 %
 Melting point 130–133 °C
 Sulfated ash ≤ 0.05 %
 Free acid (as gallic acid) ≤ 0.02 %
 Cl ≤ 0.002 %
 SO₄ ≤ 0.02 %

Order number	Quantity
40132-APO-G0500	500 g

Pyruvic acid sodium salt

$C_3H_3NaO_3$
 $CH_3COCOONa$
 M, 110.04
 CAS: 113-24-6
 EINECS: 204-024-4
 melting point 220–230 °C
 colourless crystals or white powder
 easily soluble in water

Use: biochemistry, component of agar medium

S: 24/25

G.R.**Cat. No. 40133-APO**

Assay ≥ 98.5 %

Order number	Quantity
40133-APO-G0050	50 g
40133-APO-G0500	500 g



Quinoline

C_9H_7N

$C_6H_4CH:CHCH:N$

M, 129.16

CAS: 91-22-5

EINECS: 202-051-6

1l~1.09 kg

melting point $-15^{\circ}C$

boiling point $238^{\circ}C$

clear, colourless to yellow-brown liquid,

hygroscopic

slightly soluble in hot water, alcohol, ether

Use: analytical reagent for the determination of antimony, bismuth, arsenic, cadmium, cerium, chromium, cobalt, copper, gold, indium, iron, lanthanum, nickel, osmium, platinum, rhenium, silver, cyanides, phosphates



R: 21/22-37/38-41

S: 2-26-36/37/39-46

RTECS: VA9275000

ADR/RID 6.1/III

UN 2656

pure

Cat. No. 40077-CT0

Assay $\geq 97\%$

Order number	Quantity
40077-CT0-M1000	1000 ml

Quinolinol, see 8-Hydroxyquinoline – page 90

Reagent paper strips, see part II. Other Products – page 232

Resorcinol

 $C_6H_6O_2$ $C_6H_4(OH)_2$

M, 110.11

CAS: 108-46-3

EINECS: 203-585-2

melting point 107–110 °C

boiling point 281 °C

spec. stor. cond. < 20 °C

colourless, white or grey-pink powder,
tends to become pink with light and air
easily soluble in water and alcohol

Use: analytical reagent, e.g. for zinc, orga-
nic syntheses, production of cosmetics



R: 22-36/38-50

S: 2-26-46-61

RTECS: VG9625000

ADR/RID 6.1/III

UN 2876

pure**Cat. No. 40134-CP0**

Assay ≥ 98%

Melting point 107–110 °C

Order number	Quantity
40134-CP0-G0100	100 g
40134-CP0-G0500	500 g
40134-CP0-G1000	1000 g

Saccharose

$C_{12}H_{22}O_{11}$
 M, 342.30
 CAS: 57-50-1
 EINECS: 200-334-9
 melting point 169–170 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent (determination of proteins), calibration of refractometers

RTECS: WN6500000

G.R.**Cat. No. 40135-AP0**

Assay $\geq 99.8\%$
 Subst. insoluble in H_2O $\leq 0.003\%$
 Cl $\leq 0.001\%$
 SO_4 $\leq 0.005\%$
 Invert sugar $\leq 0.1\%$
 Residue on ignition $\leq 0.01\%$

Order number	Quantity
40135-AP0-G0500	500 g
40135-AP0-G1000	1000 g

pure**Cat. No. 40135-CPO**

Assay $\geq 99.7\%$
 Subst. insoluble in H_2O $\leq 0.006\%$
 Cl $\leq 0.002\%$
 SO_4 $\leq 0.01\%$
 Invert sugar $\leq 0.2\%$
 Residue on ignition $\leq 0.03\%$

Order number	Quantity
40135-CPO-G1000	1000 g

Salicylaldehyde

$C_7H_6O_2$
 HOC_6H_4CHO
 M, 122.12
 CAS: 90-02-8
 EINECS: 201-961-0
 1l–1.17 kg
 melting point –7 to +5 °C
 boiling point 194–197 °C
 clear, colourless to yellowish oily liquid
 soluble in alcohol and ether

Use: analytical reagent, production of cosmetics



R: 20/21/22-36/37/38
 S: 2-26-36/37-46
 RTECS: VN5250000
 ADR/RID 6.1/III UN 2810

G.R.**Cat. No. 40136-ATO**

Assay $\geq 99\%$
 n_D^{20} 1.572–1.574

Order number	Quantity
40136-ATO-M0100	100 ml

Salicylic acid

$C_7H_6O_3$
 HOC_6H_4COOH
 M, 138.12
 CAS: 69-72-7
 EINECS: 200-712-3
 melting point 158–161 °C
 boiling point 211 °C
 colourless crystals or white powder,
 hygroscopic
 easily soluble in alcohol

G.R.**Cat. No. 10053-AP0**

Assay $\geq 99\%$
 Sulfated ash $\leq 0.1\%$
 Heavy metals (as Pb) $\leq 0.002\%$
 Cl $\leq 0.01\%$
 SO_4 $\leq 0.02\%$

Order number	Quantity
10053-AP0-G0250	250 g

pure**Cat. No. 10053-CPO**

Assay $\geq 98\%$
 Melting point 158–161 °C

Order number	Quantity
10053-CPO-G0500	500 g

Salicylic

Salicylic acid

Use: analytical reagent for the photometric determination of iron, zircon, ammonium, pharmaceutical productions, preparation of buffers



R: 22-36/37/38
S: 2-26-36-46
RTECS: V05250000

pharm.

Cat. No. 10053-FPO
Acidum salicylicum

Order number	Quantity
10053-FPO-G1000	1000 g

Schiff's reagent

1l~1.0 kg
clear, colourless liquid
miscible with water

Use: analytical reagent for the detection of aldehydes



ADR/RID 8/II

R: 34-37
S: 1/2-26-39-45
UN 1760

Cat. No. 40138-BTO

Suitability for detection of aldehydes passes test

Order number	Quantity
40138-BTO-M0250	250 ml

Sea sand

yellow to yellow-brown grains

Use: filtration material (pharmaceutical productions, production of cosmetics, biochemistry), frequency standard in electrical engineering

Cat. No. 30157-BPO

Order number	Quantity
30157-BPO-G1000	1000 g

Selenious acid

Selenious acid

H_2SeO_3

M, 128.97

CAS: 7783-00-8

EINECS: 231-974-7

melting point 70 °C (decomposition)

colourless crystals or white powder

readily soluble in water

Use: oxidizer



R: 23/25-33-50/53
S: 1/2-20/21-28-45-60-61
RTECS: VS7175000
UN 3283

ADR/RID 6.1/II

pure

Cat. No. 10054-CPO

Assay ≥ 97 %

Order number	Quantity
10054-CPO-G0050	50 g

Selenious acid, see Selenious acid – page 158

Silica gel

white beads
insoluble in water

Use: desiccant

Cat. No. 30159-BPO

Particle size 3–8 mm
Loss on drying (at 150 °C) ≤ 2 %

Order number	Quantity
30159-BPO-G1000	1000 g

Silica gel with moisture indicator (orange)

orange beads
insoluble in water

Use: desiccant

S: 24/25

Cat. No. 30160-BPO

Particle size 3–6 mm
Indicator content ~1 %
Colour change orange – green
Loss on drying (at 150 °C) ≤ 2 %

Order number	Quantity
30160-BPO-G1000	1000 g

Silicic acid hydrate

SiO₂.aq
M_r 60.09 + aq
CAS: 1343-98-2
EINECS: 215-683-2
melting point 1710 °C
white powder
insoluble in water

Use: production of silica gel, analytical chemistry

S: 22-24/25

RTECS: VV8853000

G.R.**Cat. No. 10038-AP0**

Assay (on ignit. subst.) ≥ 99 %
Loss on ignition (at 900 °C) ≤ 8.5 %
Cl ≤ 0.02 %
SO₄ ≤ 0.02 %
Pb ≤ 0.001 %

Order number	Quantity
10038-AP0-G0250	250 g

Silicon dioxide

SiO₂
M_r 60.09
CAS: 7631-86-9
EINECS: 231-545-4
melting point 1726 °C
boiling point 2230 °C
white powder
insoluble in water

Use: sorbent in chromatography

S: 22-24/25

G.R.**Cat. No. 30139-AP0**

Assay ≥ 96.5 %
Loss on ignition (at 1000 °C) ≤ 3 %
Fe ≤ 0.005 %
Cl ≤ 0.005 %

Order number	Quantity
30139-AP0-G0100	100 g
30139-AP0-G0500	500 g

Silver nitrate

AgNO₃
M_r 169.88
CAS: 7761-88-8
EINECS: 231-853-9
melting point 212 °C
boiling point 444 °C (decomposition)
white or colourless crystals, may tend to become brown with light
easily soluble in water

puriss ACS**Cat. No. 30042-EPO**

Assay ≥ 99 %
Clarity of solution passes test
Acidity passes test
Subst. not pptd by HCl ≤ 0.01 %
Cl ≤ 0.0005 %
Fe ≤ 0.0002 %
Cu ≤ 0.0002 %
Pb ≤ 0.001 %
SO₄ ≤ 0.002 %

Order number	Quantity
30042-EPO-G0050	50 g
30042-EPO-G0100	100 g
30042-EPO-G0250	250 g
30042-EPO-G0500	500 g

Silver nitrate

Use: analytical reagent, e.g. for the detection of halides, volumetric analysis, preparation of Tollens reagent, photographic purposes



R: 34-50/53
S: 1/2-26-45-60-61
RTECS: VW4725000
UN 1493

ADR/RID 5.1/II

G.R.**Cat. No. 30042-APO**

Assay ≥ 99.8 %
Subst. insoluble in H₂O ≤ 0.005 %
Subst. not precipit. by HCl ≤ 0.04 %
SO₄ ≤ 0.005 %
Cl ≤ 0.0005 %
Fe ≤ 0.0005 %

Order number	Quantity
30042-APO-G0050	50 g
30042-APO-G0100	100 g

Silver sulfate

Ag₂SO₄
M, 311.80
CAS: 10294-26-5
EINECS: 233-653-7
melting point 652 °C
boiling point 1085 °C
white or colourless powder, may tend to darken with light
hardly soluble in water

Use: analytical reagent, e.g. for COD, medicine



R: 36/37/38
S: 2-26-36-46

puriss ACS**Cat. No. 30189-EPO**

Assay ≥ 98 %
Insoluble matter in H₂O and AgCl ≤ 0.02 %
NO₃ ≤ 0.001 %
Subst. not pptd by HCl ≤ 0.03 %
Fe ≤ 0.001 %

Order number	Quantity
30189-EPO-G0100	100 g

G.R.**Cat. No. 30189-APO**

Assay ≥ 99 %

Order number	Quantity
30189-APO-G0100	100 g

Sodium acetate anhydrous

C₂H₃NaO₂
CH₃COONa
M, 82.04
CAS: 127-09-3
EINECS: 204-823-8
melting point 324 °C
boiling point > 400 °C
white powder
easily soluble in water

Use: analytical reagent, organic syntheses, e.g. acetylation, esterification, Perkin's reaction, buffer

S: 22-24/25
RTECS: AJ4375000

G.R.**Cat. No. 40121-APO**

Assay ≥ 98.5 %
Loss on drying (at 120 °C) ≤ 1.5 %
SO₄ ≤ 0.005 %
Cl ≤ 0.01 %
Fe ≤ 0.005 %
Pb ≤ 0.005 %

Order number	Quantity
40121-APO-G0500	500 g
40121-APO-G1000	1000 g

pure**Cat. No. 40121-CPO**

Assay ≥ 98 %
Loss on drying (at 120 °C) ≤ 2 %
SO₄ ≤ 0.02 %
Cl ≤ 0.05 %

Order number	Quantity
40121-CPO-G1000	1000 g

Sodium acetate trihydrate

C₂H₃NaO₂·3H₂O
CH₃COONa·3H₂O
M, 136.08
CAS: 6131-90-4
EINECS: 204-823-8
melting point 58 °C
boiling point > 400 °C
colourless crystals or white powder
easily soluble in water

G.R.**Cat. No. 40122-APO**

Assay ≥ 99 %
Subst. insoluble in H₂O ≤ 0.005 %
Subst. reducing KMnO₄ (as HCOOH) ≤ 0.006 %
SO₄ ≤ 0.002 %
Cl ≤ 0.0005 %
pH (5 %, H₂O) 7.5–9

Order number	Quantity
40122-APO-G0500	500 g
40122-APO-G1000	1000 g

Sodium acetate trihydrate

Use: analytical reagent, preparation of buffers, neutralizing agent, pharmaceutical productions

S: 22-24/25
RTECS: AJ4375000

pure**Cat. No. 40122-CPO**

Assay $\geq 99\%$
Subst. insoluble in H₂O $\leq 0.01\%$
SO₄ $\leq 0.005\%$
pH (5%, H₂O) 7.5–9

Order number	Quantity
40122-CPO-G1000	1000 g

pharm.**Cat. No. 40122-FPO**

Natrii acetat trihydricus

Order number	Quantity
40122-FPO-G1000	1000 g

Sodium azide

NaN₃N₃NaM_r 65.01

CAS: 26628-22-8

EINECS: 247-852-1

melting point 275 °C

boiling point 300 °C

(explosive decomposition)

white crystals or powder

readily soluble in water, hardly in alcohol,

insoluble in ether and chloroform

Use: component of culture media for the detection of gram-positive bacteria, bacteriostatic agent, biochemical reagent, detection reagent for TLC, selective purification of methyldiphenylsilyl ethers



R: 28-32-50/53

S: 1/2-28-45-60-61

RTECS: VY8050000

ADR/RID 6.1/II

UN 1687

G.R.**Cat. No. 40009-APO**

Assay $\geq 99\%$
Cl $\leq 0.005\%$
SO₄ $\leq 0.005\%$
Fe $\leq 0.005\%$
Pb $\leq 0.005\%$

Order number	Quantity
40009-APO-G0100	100 g

pure**Cat. No. 40009-CPO**Assay $\geq 99\%$

Order number	Quantity
40009-CPO-G0100	100 g

Sodium benzoate

C₇H₅O₂NaC₆H₅COONaM_r 144.11

CAS: 532-32-1

EINECS: 208-534-8

melting point 410–430 °C

white powder

soluble in water

Use: food industry (preservative reagent), corrosion inhibitor

RTECS: DH6650000

G.R.**Cat. No. 40013-APO**

Assay (in dry matter) $\geq 99.8\%$
Loss on drying (100–105 °C) $\leq 1\%$
Cl $\leq 0.008\%$
SO₄ $\leq 0.02\%$
Heavy metals (as Pb) $\leq 0.001\%$
Ca $\leq 0.005\%$
Fe $\leq 0.001\%$
As $\leq 0.0002\%$

Order number	Quantity
40013-APO-G0500	500 g

pharm.**Cat. No. 40013-FPO**

Natrii benzoas

Order number	Quantity
40013-FPO-G0500	500 g

S

Sodium bromate

Sodium bromate

NaBrO₃
 M, 150.90
 CAS: 7789-38-0
 EINECS: 232-160-4
 melting point 381 °C (decomposition)
 white granular powder or crystals
 easily soluble in water, hardly in alcohol

Use: analytical reagent, strong oxidizer



R: 8-22-36/37/38
 S: 2-17-26-36-46
 RTECS: EF8750000
 UN 1494

ADR/RID 5.1/II

G.R.

Cat. No. 30003-AP0

Assay ≥ 99 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30003-AP0-G0500	500 g

pure

Cat. No. 30003-CP0

Assay ≥ 98 %

Order number	Quantity
30003-CP0-G0250	250 g

Sodium bromide

NaBr
 M, 102.90
 CAS: 7647-15-6
 EINECS: 231-599-9
 melting point 755 °C
 boiling point 1393 °C
 white granular powder or crystals
 easily soluble in water, hardly in alcohol

Use: production of other bromides, organic syntheses, photographic purposes, medicine, ion chromatography

S: 22-24/25
 RTECS: VZ3150000

G.R.

Cat. No. 30006-AP0

Assay ≥ 99 %
 Cl ≤ 0.2 %
 SO₄ ≤ 0.005 %
 Loss on drying (120 °C) ≤ 0.5 %

Order number	Quantity
30006-AP0-G0500	500 g

pure

Cat. No. 30006-CP0

Assay ≥ 98 %

Order number	Quantity
30006-CP0-G0500	500 g

Sodium carbonate anhydrous

Na₂CO₃
 M, 105.99
 CAS: 497-19-8
 EINECS: 207-838-8
 melting point 891 °C
 colourless crystals or white powder,
 hygroscopic
 easily soluble in water

Use: analytical reagent, e.g. in volumetric analysis, pharmaceutical productions, food industry, buffers component



R: 36
 S: 2-22-26-46
 RTECS: VZ4050000

G.R.

Cat. No. 30217-AP0

Assay (on ignit.) ≥ 99 %
 Loss on ignition (at 300 °C) ≤ 1 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.001 %
 Heavy metals (as Pb) ≤ 0.005 %

Order number	Quantity
30217-AP0-G0500	500 g
30217-AP0-G1000	1000 g

pure

Cat. No. 30217-CP0

Assay (on ignit.) ≥ 95 %
 Loss on ignition (at 300 °C) ≤ 5 %

Order number	Quantity
30217-CP0-G0500	500 g
30217-CP0-G1000	1000 g

pharm.

Cat. No. 30217-FP0

Natrii carbonas

Order number	Quantity
30217-FP0-G1000	1000 g

S

Sodium carbonate decahydrate

Na₂CO₃·10H₂O
 M, 286.14
 CAS: 6132-02-1
 EINECS: 207-838-8
 melting point 33 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, food industry



R: 36
 S: 2-22-26-46

G.R.

Cat. No. 30218-AP0

Assay ≥ 99 %
 Cl ≤ 0.002 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.0005 %
 Heavy metals (as Pb) ≤ 0.002 %

Order number	Quantity
30218-AP0-G1000	1000 g

pure

Cat. No. 30218-CP0

Assay ≥ 98 %

Order number	Quantity
30218-CP0-G1000	1000 g

Sodium chlorate

NaClO₃
 M, 106.44
 CAS: 7775-09-9
 EINECS: 231-887-4
 melting point 255 °C
 boiling point 300 °C
 colourless crystals or white powder
 readily soluble in water

Use: analytical reagent and oxidizer



R: 9-22-51/53
 S: 2-13-17-46-61
 RTECS: F00525000
 ADR/RID 5.1/II UN 1495

G.R.

Cat. No. 30069-AP0

Assay ≥ 99 %
 Cl ≤ 0.001 %
 SO₄ ≤ 0.003 %
 Fe ≤ 0.0005 %
 Pb ≤ 0.0005 %

Order number	Quantity
30069-AP0-G1000	1000 g

pure

Cat. No. 30069-CP0

Assay ≥ 95 %

Order number	Quantity
30069-CP0-G0500	500 g
30069-CP0-G1000	1000 g

Sodium chloride

NaCl
 M, 58.44
 CAS: 7647-14-5
 EINECS: 231-598-3
 melting point 801 °C
 boiling point 1461 °C
 colourless crystals or white powder
 readily soluble in water, practically insoluble in alcohol

Use: analytical reagent, preparation of buffers, component of culture media for microbiological purposes, food industry, pharmaceutical productions, biochemistry

RTECS: VZ4725000

puriss ACS

Cat. No. 30093-EPO

Assay ≥ 99 %
 Heavy metals (as Pb) ≤ 0.0005 %
 pH (5 %, H₂O) 5–9
 Insoluble matter in water ≤ 0.005 %
 ClO₃, NO₃ (as NO₃) ≤ 0.003 %
 Ba passes test
 I ≤ 0.002 %
 Br ≤ 0.01 %
 PO₄ ≤ 0.0005 %
 SO₄ ≤ 0.004 %
 Fe ≤ 0.0002 %
 K ≤ 0.005 %
 Ca ≤ 0.002 %
 Mg ≤ 0.001 %

Order number	Quantity
30093-EPO-G0500	500 g
30093-EPO-G1000	1000 g

Sodium chloride

G.R.**Cat. No. 30093-APO**

Assay (on dried subst.)	≥ 99.5 %
Loss on drying (at 105 °C)	≤ 0.5 %
Subst. insoluble in H ₂ O	≤ 0.005 %
pH (5 %, H ₂ O)	5–8
Br	≤ 0.01 %
I	≤ 0.008 %
SO ₄	≤ 0.005 %
Fe	≤ 0.0003 %
Heavy metals (as Pb)	≤ 0.0005 %
Ca	≤ 0.005 %
Mg	≤ 0.002 %

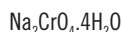
Order number	Quantity
30093-APO-G0500	500 g
30093-APO-G1000	1000 g

pharm.**Cat. No. 30093-FPO**

Natrii chloridum

Order number	Quantity
30093-FPO-G1000	1000 g

Sodium chromate tetrahydrate



M, 234.03

CAS: 10034-82-9

EINECS: 231-889-5

melting point 792 °C

yellow crystalline powder, hygroscopic
readily soluble in water**Use:** production of pigments, corrosion
inhibitorR: 45-46-60-61-21-25-26-34-42/43-
-48/23-50/53

S: 1/2-53-45-60-61

RTECS: GB2955000

ADR/RID 6.1/II UN 3288

G.R.**Cat. No. 30110-APO**

Assay	≥ 99.5 %
Cl	≤ 0.01 %
SO ₄	≤ 0.01 %

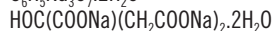
Order number	Quantity
30110-APO-G0100	100 g

pure**Cat. No. 30110-CPO**

Assay	≥ 98.5 %
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Order number	Quantity
30110-CPO-G0100	100 g

tri-Sodium citrate dihydrate



M, 294.10

CAS: 6132-04-3

EINECS: 200-675-3

melting point 150 °C

white crystals or powder

soluble in water

Use: analytical reagent, e.g. masking of
some metals, emulsifier, acidity controller,
production of cosmetics, pharmaceutical
productions, food industry, buffer**G.R.****Cat. No. 30009-APO**

Assay	≥ 99 %
Subst. insoluble in H ₂ O	≤ 0.005 %
Cl	≤ 0.001 %
SO ₄	≤ 0.002 %

Order number	Quantity
30009-APO-G0500	500 g
30009-APO-G1000	1000 g

pure**Cat. No. 30009-CPO**

Assay	≥ 98.5 %
Subst. insoluble in H ₂ O	≤ 0.01 %
Cl	≤ 0.005 %
SO ₄	≤ 0.005 %

Order number	Quantity
30009-CPO-G0250	250 g

pharm.**Cat. No. 30009-FPO**

Natrii citras dihydricus

Order number	Quantity
30009-FPO-G1000	1000 g

Sodium cyanide

NaCN
 M_r 49.01
 CAS: 143-33-9
 EINECS: 205-599-4
 melting point 563 °C
 boiling point 1496 °C
 white crystalline powder or little pieces,
 hygroscopic
 easily soluble in water, hardly in alcohol

Use: analytical reagent, e.g. complexing,
 organic syntheses – nitriles, cyanohydrins,
 benzoin condensations



R: 26/27/28-32-50/53
 S: 1/2-7-28-29-45-60-61
 RTECS: VZ7525000
 UN 1689

ADR/RID 6.1/I

G.R. powder

Cat. No. 30122-AP0

Assay ≥ 98 %
 Cl ≤ 0.1 %
 SO₄ ≤ 0.005 %
 [Fe(CN)₆]⁴⁻ ≤ 0.3 %
 Pb ≤ 0.005 %

Order number	Quantity
30122-AP0-G0500	500 g
30122-AP0-G1000	1000 g

G.R. tablets

Cat. No. 30122-AP5

Assay ≥ 98 %
 Cl ≤ 0.1 %
 SO₄ ≤ 0.005 %
 [Fe(CN)₆]⁴⁻ ≤ 0.3 %
 Pb ≤ 0.005 %

Order number	Quantity
30122-AP5-G0500	500 g
30122-AP5-G1000	1000 g

pure powder

Cat. No. 30122-CP0

Assay ≥ 97 %

Order number	Quantity
30122-CP0-G1000	1000 g

pure tablets

Cat. No. 30122-CP5

Assay ≥ 97 %

Order number	Quantity
30122-CP5-G1000	1000 g

Sodium dichromate dihydrate

Na₂Cr₂O₇·2H₂O
 M_r 298.00
 CAS: 7789-12-0
 EINECS: 234-190-3
 melting point 356 °C
 orange-red crystals
 easily soluble in water

Use: analytical reagent and oxidizer,
 corrosion inhibitor



R: 45-46-60-61-8-21-25-26-34-42/43-
 -48/23-50/53
 S: 1/2-53-45-60-61
 RTECS: HX7750000
 ADR/RID 6.1/II UN 3086

G.R.

Cat. No. 30021-AP0

Assay ≥ 99.5 %
 Cl ≤ 0.001 %
 SO₄ ≤ 0.01 %
 Subst. insoluble in H₂O ≤ 0.005 %

Order number	Quantity
30021-AP0-G1000	1000 g

pure

Cat. No. 30021-CP0

Assay ≥ 98 %

Order number	Quantity
30021-CP0-G0500	500 g
30021-CP0-G1000	1000 g

Sodium diethyldithiocarbamate trihydrate

$C_5H_{10}NNaS_2 \cdot 3H_2O$
 $(C_2H_5)_2NCSSNa \cdot 3H_2O$
 M, 225.31
 CAS: 20624-25-3
 EINECS: 205-710-6
 melting point 93–98 °C
 white, off-white or yellowish crystals,
 hygroscopic
 readily soluble in water and alcohol,
 insoluble in ether

Use: analytical reagent – e.g. for copper



R: 22
 S: 2-22-24/25-46
 RTECS: EZ6550000

G.R.**Cat. No. 40028-AP0**

Assay ≥ 98 %
 Sensitivity to Cu^{2+} passes test
 Solubility in H_2O passes test

Order number	Quantity
40028-AP0-G0100	100 g
40028-AP0-G0500	500 g

Sodium dihydrogen phosphate dihydrate

$NaH_2PO_4 \cdot 2H_2O$
 M, 156.01
 CAS: 13472-35-0
 EINECS: 231-449-2
 melting point 93 °C
 white crystals
 easily soluble in water

Use: analytical reagent, emulsifying agent,
 water softener, food industry

G.R.**Cat. No. 30017-AP0**

Assay ≥ 99 %
 pH (5 %, H_2O) 4–4.5
 SO_4 ≤ 0.005 %
 Cl ≤ 0.005 %
 Pb ≤ 0.005 %
 Fe ≤ 0.005 %

Order number	Quantity
30017-AP0-G0500	500 g
30017-AP0-G1000	1000 g

pure**Cat. No. 30017-CP0**

Assay ≥ 97 %
 pH (5 %, H_2O) 4–4.5
 Cl ≤ 0.2 %
 Heavy metals (as Pb) ≤ 0.005 %
 Fe ≤ 0.05 %

Order number	Quantity
30017-CP0-G1000	1000 g

Sodium disulfite

$Na_2S_2O_5$
 M, 190.10
 CAS: 7681-57-4
 EINECS: 231-673-0
 melting point 150 °C
 white to yellowish crystalline powder
 easily soluble in water, insoluble in alcohol

Use: analytical reagent, reductant, anti-
 fermentation agent, preservative



R: 22-31-41
 S: 2-26-39-46
 RTECS: UX8225000

G.R.**Cat. No. 30024-AP0**

Assay ≥ 98 %
 Cl ≤ 0.005 %
 Heavy metals (as Pb) ≤ 0.001 %
 Fe ≤ 0.0005 %
 As ≤ 0.0001 %

Order number	Quantity
30024-AP0-G0500	500 g
30024-AP0-G1000	1000 g

pure**Cat. No. 30024-CP0**

Assay ≥ 95 %

Order number	Quantity
30024-CP0-G1000	1000 g

Sodium dodecyl sulfate

$C_{12}H_{25}NaO_4S$
 $CH_3(CH_2)_{11}OSO_3Na$
 M, 288.38
 CAS: 151-21-3
 EINECS: 205-788-1
 melting point 204–207 °C
 white powder
 easily soluble in water

Use: detergent, separation of proteins and lipids, pharmaceutical productions



R: 22-36/38
 S: 2-26-36-46
 RTECS: WT1050000

G.R.**Cat. No. 40089-AP0**

Sulfated ash 23–27 %

Order number	Quantity
40089-AP0-G0500	500 g
40089-AP0-G1000	1000 g

Sodium fluoride

NaF
 M, 41.99
 CAS: 7681-49-4
 EINECS: 231-667-8
 melting point 992 °C
 boiling point 1700 °C
 white crystalline powder, hygroscopic
 readily soluble in water, practically insoluble in alcohol

Use: analytical reagent, e.g. masking agent, crystal for windows at UV/IR analyses



R: 25-32-36/38
 S: 1/2-22-36-45
 RTECS: WB0350000
 ADR/RID 6.1/III UN 1690

G.R.**Cat. No. 30049-AP0**

Assay ≥ 99 %
 SO_4 ≤ 0.02 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30049-AP0-G0500	500 g
30049-AP0-G1000	1000 g

pure**Cat. No. 30049-CP0**

Assay ≥ 96 %

Order number	Quantity
30049-CP0-G1000	1000 g

pharm.**Cat. No. 30049-FP0**

Natrii fluoridum

Order number	Quantity
30049-FP0-G1000	1000 g

Sodium formate

$CHNaO_2$
 $HCOONa$
 M, 68.01
 CAS: 141-53-7
 EINECS: 205-488-0
 melting point 255 °C
 colourless crystals or white powder,
 hygroscopic
 easily soluble in water

Use: analytical reagent and reductant, precipitating agent for noble metals, food industry



R: 36/37/38
 S: 2-26-36-46
 RTECS: LR0350000

G.R.**Cat. No. 40102-AP0**

Assay ≥ 98 %
 Cl ≤ 0.005 %
 SO_4 ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
40102-AP0-G0100	100 g

Sodium hexametaphosphate

Sodium hexametaphosphate

CAS: 68915-31-1
EINECS: 272-808-3
colourless crystals or white powder
readily soluble in water

Use: corrosion prevention, addition to water softeners

S: 22-24/25
RTECS: OY3675000

pure

Cat. No. 30055-CPD

Assay 60–70 % P₂O₅

Order number	Quantity
30055-CPD-G0500	500 g
30055-CPD-G1000	1000 g

Sodium hydrogen carbonate

NaHCO₃
M, 84.01
CAS: 144-55-8
EINECS: 205-633-8
melting point 270 °C
colourless crystals or white powder
readily soluble in water

Use: analytical reagent, food industry, pharmaceutical productions, preparation of buffers

S: 22-24/25
RTECS: VZ0950000

G.R.

Cat. No. 30067-APD

Assay ≥ 99 %
Cl ≤ 0.02 %
SO₄ ≤ 0.003 %
Fe ≤ 0.001 %
Heavy metals (as Pb) ≤ 0.001 %

Order number	Quantity
30067-APD-G0500	500 g
30067-APD-G1000	1000 g

pharm.

Cat. No. 30067-FPD

Natrii hydrogenocarbonas

Order number	Quantity
30067-FPD-G1000	1000 g

di-Sodium hydrogen citrate monohydrate

C₆H₆O₇Na₂·H₂O
HO₂C(COOH)(CH₂COONa)₂·H₂O
M, 254.11
EINECS: 205-623-3
colourless crystals or white powder
readily soluble in water

Use: anti-coagulant, food additive, component of buffers

pure

Cat. No. 30057-CPD

Assay ≥ 95 %
Subst. insoluble in H₂O ≤ 0.01 %
Cl ≤ 0.005 %
SO₄ ≤ 0.01 %
Pb ≤ 0.001 %
Fe ≤ 0.01 %

Order number	Quantity
30057-CPD-G0500	500 g

di-Sodium hydrogen phosphate dodecahydrate

Na₂HPO₄·12H₂O
M, 358.14
CAS: 10039-32-4
EINECS: 231-448-7
melting point 35 °C
colourless crystals or white powder
readily soluble in water

Use: analytical reagent, preparation of buffers, food industry, pharmaceutical productions

G.R.

Cat. No. 30061-APD

Assay ≥ 98 %
pH (5 %, H₂O) 8.7–9.3
Cl ≤ 0.003 %
SO₄ ≤ 0.02 %
Fe ≤ 0.001 %

Order number	Quantity
30061-APD-G0500	500 g
30061-APD-G1000	1000 g

pure

Cat. No. 30061-CPD

Assay ≥ 98 %
Cl ≤ 0.005 %
SO₄ ≤ 0.04 %
Fe ≤ 0.003 %

Order number	Quantity
30061-CPD-G0500	500 g
30061-CPD-G1000	1000 g

di-Sodium hydrogen phosphate dodecahydrate

pharm.

Cat. No. 30061-FPO

Natrii hydrogenophosphas dodecahydricus

Order number	Quantity
30061-FPO-G1000	1000 g

Sodium hydrogen sulfate monohydrate

NaHSO₄·H₂O
 M_r 138.08
 CAS: 10034-88-5
 EINECS: 231-665-7
 melting point 58 °C
 spec. stor. cond. 5–15 °C
 colourless crystals or white powder,
 hygroscopic
 readily soluble in water

Use: analytical reagent



ADR/RID 8/II

R: 41
 S: 2-24-26-46
 RTECS: VZ1870000
 UN 3260

G.R.

Cat. No. 30064-APO

Assay ≥ 99 %
 Cl ≤ 0.001 %
 Fe ≤ 0.0005 %
 Heavy metals (as Pb) ≤ 0.0005 %

Order number	Quantity
30064-APO-G0500	500 g
30064-APO-G1000	1000 g

pure

Cat. No. 30064-CPO

Assay ≥ 98 %

Order number	Quantity
30064-CPO-G0500	500 g

Sodium hydrogen tartrate monohydrate

C₄H₅NaO₆·H₂O
 HOOCCH(OH)CH(OH)COONa·H₂O
 M_r 190.09
 CAS: 526-94-3
 EINECS: 208-400-9
 colourless crystals or white powder
 readily soluble in water

Use: food additive

S: 22-24/25
 RTECS: WW8225000

G.R.

Cat. No. 40066-APO

Assay ≥ 99 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Cl ≤ 0.002 %
 SO₄ ≤ 0.005 %
 NH₄ ≤ 0.005 %
 Fe ≤ 0.001 %

Order number	Quantity
40066-APO-G0500	500 g

pure

Cat. No. 40066-CPO

Assay ≥ 99 %
 Subst. insoluble in H₂O ≤ 0.01 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.01 %
 NH₄ ≤ 0.01 %
 Fe ≤ 0.002 %

Order number	Quantity
40066-CPO-G0500	500 g

Sodium hydroxide

NaOH
 M_r 40.00
 CAS: 1310-73-2
 EINECS: 215-185-5
 melting point 320 °C
 boiling point 1390 °C
 white crystalline material of different
 shapes, hygroscopic
 readily soluble in water and alcohol

puriss ACS

Cat. No. 10006-EPO

Assay ≥ 97 %
 Na₂CO₃ ≤ 1 %
 Heavy metals (as Ag) ≤ 0.002 %
 N total ≤ 0.001 %
 Cl ≤ 0.005 %
 Fe ≤ 0.001 %
 Hg ≤ 0.00001 %
 Ni ≤ 0.001 %
 K ≤ 0.02 %
 PO₄ ≤ 0.001 %
 SO₄ ≤ 0.003 %
 Ca ≤ 0.005 %
 Mg ≤ 0.002 %

Order number	Quantity
10006-EPO-G0500	500 g
10006-EPO-G2500	2500 g
10006-EPO-K0010	10 kg

S

Use: analytical reagent, e.g. in volumetric analysis, neutralisation of acids, pH adjustment, pharmaceutical productions



ADR/RID 8/II

R: 35
S: 1/2-26-37/39-45
RTECS: WB4900000
UN 1823

chem. pure micropearls**Cat. No. 10006-HP1**

Assay	≥ 98.5 %
Na ₂ CO ₃	≤ 1 %
Cl	≤ 0.0008 %
SO ₄	≤ 0.0005 %
SiO ₂	≤ 0.002 %
N total	≤ 0.0005 %
Heavy metals (as Ag)	≤ 0.001 %
Fe	≤ 0.0008 %

Order number	Quantity
10006-HP1-G1000	1000 g

chem. pure pearls**Cat. No. 10006-HP2**

Assay	≥ 98.5 %
Na ₂ CO ₃	≤ 1 %
Cl	≤ 0.0008 %
SO ₄	≤ 0.0005 %
SiO ₂	≤ 0.002 %
N total	≤ 0.0005 %
Heavy metals (as Ag)	≤ 0.001 %
Fe	≤ 0.0008 %

Order number	Quantity
10006-HP2-G1000	1000 g

G.R. micropearls**Cat. No. 10006-AP1**

Assay	≥ 98 %
Na ₂ CO ₃	≤ 1.5 %
Cl	≤ 0.002 %
SO ₄	≤ 0.0008 %
SiO ₂	≤ 0.005 %
N total	≤ 0.0005 %
Heavy metals (as Ag)	≤ 0.002 %
Fe	≤ 0.001 %

Order number	Quantity
10006-AP1-G1000	1000 g

G.R. pearls**Cat. No. 10006-AP2**

Assay	≥ 98 %
Na ₂ CO ₃	≤ 1.5 %
Cl	≤ 0.002 %
SO ₄	≤ 0.0008 %
SiO ₂	≤ 0.005 %
N total	≤ 0.0005 %
Heavy metals (as Ag)	≤ 0.002 %
Fe	≤ 0.001 %

Order number	Quantity
10006-AP2-G1000	1000 g

pure micropearls**Cat. No. 10006-CP1**

Assay	≥ 97 %
Na ₂ CO ₃	≤ 2 %
Cl	≤ 0.008 %
SO ₄	≤ 0.003 %
SiO ₂	≤ 0.01 %
N total	≤ 0.001 %

Order number	Quantity
10006-CP1-G1000	1000 g

pure pearls**Cat. No. 10006-CP2**

Assay	≥ 97 %
Na ₂ CO ₃	≤ 2 %
Cl	≤ 0.008 %
SO ₄	≤ 0.003 %
SiO ₂	≤ 0.01 %
N total	≤ 0.001 %

Order number	Quantity
10006-CP2-G1000	1000 g

Sodium hydroxide

pharm. micropearls

Cat. No. 10006-FP1

Natrii hydroxidum

Order number	Quantity
10006-FP1-G1000	1000 g

Sodium hypophosphite monohydrate

 $\text{NaH}_2\text{PO}_2 \cdot \text{H}_2\text{O}$

M, 105.99

CAS: 10039-56-2

EINECS: 231-669-9

colourless or white crystals

readily soluble in water

Use: analytical reductant

S: 22-24/25

RTECS: WB5950000

G.R.

Cat. No. 30052-AP0

Assay	≥ 99 %
Heavy metals (as Pb)	≤ 0.001 %
Ca	≤ 0.02 %
Cl	≤ 0.02 %
Fe	≤ 0.001 %
SO ₄	≤ 0.02 %

Order number	Quantity
30052-AP0-G1000	1000 g

pure

Cat. No. 30052-CP0

Assay	≥ 98 %
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Order number	Quantity
30052-CP0-G1000	1000 g

Sodium iodate

 NaIO_3

M, 197.90

CAS: 7681-55-2

EINECS: 231-672-5

melting point 422 °C

colourless crystals or white powder

soluble in water

Use: analytical reagent, strong oxidizer, detection of sugars and polyalcohols

R: 8-22-42/43

S: 2-17-36/37/39-46

RTECS: NN1400000

UN 1479

ADR/RID 5.1/II

G.R.

Cat. No. 30113-AP0

Assay	≥ 98 %
SO ₄	≤ 0.005 %
Fe	≤ 0.005 %
Pb	≤ 0.005 %

Order number	Quantity
30113-AP0-G0100	100 g

Sodium iodide

NaI

M, 149.89

CAS: 7681-82-5

EINECS: 231-679-3

melting point 662 °C

boiling point 1304 °C

colourless crystals or white powder, may

tend to darken in the air

readily soluble in water

Use: analytical reagent, iodinating agent, chemical industry, for photographic purposes, food industry (additive), pharmaceutical productions

S: 22-24/25

RTECS: WB6475000

G.R.

Cat. No. 30117-AP0

Assay (on dried subst.)	≥ 99.5 %
Loss on drying (at 120 °C)	≤ 5 %
Subst. insoluble in H ₂ O	≤ 0.01 %
Free alkalinity (as Na ₂ CO ₃)	≤ 0.03 %
Cl + Br (as Cl)	≤ 0.05 %
SO ₄	≤ 0.01 %

Order number	Quantity
30117-AP0-G0100	100 g
30117-AP0-G0500	500 g

pure

Cat. No. 30117-CP0

Assay (on dried subst.)	≥ 99 %
Loss on drying (at 120 °C)	≤ 5 %
Subst. insoluble in H ₂ O	≤ 0.02 %
Free alkalinity (as Na ₂ CO ₃)	≤ 0.05 %
SO ₄	≤ 0.02 %

Order number	Quantity
30117-CP0-G1000	1000 g

pharm.

Cat. No. 30117-FP0

Natrii iodidum

Order number	Quantity
30117-FP0-G1000	1000 g

Sodium metaarsenite

NaAsO₂
 M, 129.91
 CAS: 7784-46-5
 EINECS: 232-070-5
 boiling point 160 °C
 white to off-white powder, hygroscopic
 readily soluble in water, hardly in alcohol

Use: analytical reagent, e.g. in volumetric analysis



R: 23/25-50/53
 S: 1/2-20/21-28-45-60-61
 RTECS: CG3675000
 UN 2027

ADR/RID 6.1/II

G.R.

Cat. No. 30001-APO

Assay ≥ 99 %
 Cl ≤ 0.05 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30001-APO-G0050	50 g

Sodium molybdate dihydrate

Na₂MoO₄·2H₂O
 M, 241.95
 CAS: 10102-40-6
 EINECS: 231-551-7
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, e.g. determination of phosphorus, preparation of other molybdenum compounds, corrosion inhibitor



R: 36/37/38-52/53
 S: 2-26-36-46-61
 RTECS: QA5085000

G.R.

Cat. No. 30127-APO

Assay 98–104 %
 Cl ≤ 0.01 %
 SO₄ ≤ 0.05 %
 Phosphate, Silicate, Arsenate (as PO₄) ≤ 0.001 %
 NH₄ ≤ 0.02 %
 Heavy metals (as Pb) ≤ 0.005 %

Order number	Quantity
30127-APO-G0500	500 g
30127-APO-G1000	1000 g

Sodium nitrate

NaNO₃
 M, 85.01
 CAS: 7631-99-4
 EINECS: 231-554-3
 melting point 309 °C
 boiling point 380 °C
 colourless or white crystals
 easily soluble in water

Use: analytical reagent and oxidizer, nitration of aromatic compounds



R: 8-22-36/37/38
 S: 2-17-26-36/37/39-46
 RTECS: WC5600000
 UN 1498

ADR/RID 5.1/III

G.R.

Cat. No. 30040-APO

Assay ≥ 99.5 %
 Cl ≤ 0.0005 %
 SO₄ ≤ 0.003 %
 Fe ≤ 0.0002 %
 Pb ≤ 0.0005 %

Order number	Quantity
30040-APO-G0500	500 g
30040-APO-G1000	1000 g

pure

Cat. No. 30040-CP0

Assay ≥ 98 %
 SO₄ ≤ 0.01 %

Order number	Quantity
30040-CP0-G1000	1000 g

Sodium nitrite

NaNO₂
 M_r 69.00
 CAS: 7632-00-0
 EINECS: 231-555-9
 melting point 271–281 °C
 boiling point 320 °C (decomposition)
 white to light yellow crystals, hygroscopic
 easily soluble in water

Use: analytical reagent and reductant, food industry, corrosion inhibitor



R: 8-25-50
 S: 1/2-45-61
 RTECS: RA1225000
 ADR/RID 5.1/III UN 1500

G.R.

Cat. No. 30046-AP0

Assay ≥ 98 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Cl ≤ 0.015 %
 SO₄ ≤ 0.015 %
 Fe ≤ 0.0004 %
 Heavy metals (as Pb) ≤ 0.0005 %

Order number	Quantity
30046-AP0-G0500	500 g
30046-AP0-G1000	1000 g

pure

Cat. No. 30046-CP0

Assay ≥ 95 %

Order number	Quantity
30046-CP0-G0500	500 g
30046-CP0-G1000	1000 g

Sodium nitroprusside dihydrate

C₅FeN₆Na₂O.2H₂O
 Na₂[Fe(CN)₅NO].2H₂O
 M_r 297.95
 CAS: 13755-38-9
 EINECS: 238-373-9
 boiling point 81–82 °C
 red-brown crystals
 easily soluble in water

Use: analytical reagent (determination of aliphatic amines, hydrogen sulphide, sulphites, glycerols, acrolein, indicator – mercurimetry), pharmacy



ADR/RID 6.1/II

R: 23/24/25
 S: 1/2-22-28-36/37/39-45
 RTECS: LI8925000
 UN 1588

G.R.

Cat. No. 40111-AP0

Assay ≥ 98 %
 Cl ≤ 0.01 %
 SO₄ ≤ 0.01 %
 [Fe(CN)₆]⁴⁻ ≤ 0.02 %
 [Fe(CN)₆]³⁻ ≤ 0.01 %

Order number	Quantity
40111-AP0-G0100	100 g

Sodium oxalate

C₂Na₂O₄
 (COONa)₂
 M_r 134.00
 CAS: 62-76-0
 EINECS: 200-550-3
 boiling point 250–270 °C
 colourless crystals or white powder
 soluble in water

Use: analytical reagent (volumetric analysis), e.g. for the determination of Ca



ADR/RID 8/III

R: 21/22
 S: 2-24/25-46
 RTECS: KI1750000
 UN 3263

G.R.

Cat. No. 40143-AP0

Assay ≥ 99 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.05 %
 Fe ≤ 0.005 %
 Heavy metals (as Pb) ≤ 0.005 %

Order number	Quantity
40143-AP0-G0500	500 g
40143-AP0-G1000	1000 g

Sodium perborate

Sodium perborate

$\text{NaBO}_3 \cdot 4\text{H}_2\text{O}$
 $\text{NaBO}_2 \cdot \text{H}_2\text{O}_2 \cdot 3\text{H}_2\text{O}$
 M, 153.86
 CAS: 10042-94-1
 EINECS: 239-172-9
 melting point 60 °C (decomposition)
 colourless crystals or white powder
 soluble in water

Use: pharmaceutical productions



R: 8-22-36
 S: 2-17-26-36-46
 RTECS: SC7320000
 UN 1479

ADR/RID 5.1/II

pharm.

Cat. No. 30153-FPO

Natrii perboras hydricus

Order number	Quantity
30153-FPO-G1000	1000 g

Sodium perchlorate monohydrate

$\text{NaClO}_4 \cdot \text{H}_2\text{O}$
 M, 140.46
 CAS: 7791-07-3
 EINECS: 231-511-9
 melting point 130 °C
 colourless crystals or white powder,
 hygroscopic
 readily soluble in water

Use: analytical reagent, electrolyte, oxidimetric standard



R: 9-22
 S: 2-13-22-27-46
 RTECS: SC9800000
 UN 1502

ADR/RID 5.1/II

G.R.

Cat. No. 30107-APO

Assay ≥ 98 %
 pH (5 %, H₂O) 4.5–7
 Cl, ClO₃ (as Cl) ≤ 0.05 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30107-APO-G0100	100 g

Sodium periodate

NaIO_4
 M, 213.89
 CAS: 7790-28-5
 EINECS: 232-197-6
 melting point 300 °C
 colourless crystals or white powder,
 hygroscopic
 soluble in water

Use: analytical reagent and oxidizer, e.g. determination of manganese, sugars, glycerols



R: 8-36/37/38
 S: 2-17-26-36-46
 RTECS: SD4550000
 UN 1479

ADR/RID 5.1/II

G.R.

Cat. No. 30119-APO

Assay ≥ 99 %

Order number	Quantity
30119-APO-G0500	500 g
30119-APO-G1000	1000 g

Sodium peroxide

Na₂O₂
 M_r 77.98
 CAS: 1313-60-6
 EINECS: 215-209-4
 melting point 460 °C
 boiling point 657 °C (decomposition)
 white or light yellow powder
 rapidly reacts with water

Use: analytical reagent and oxidizer,
 preparation of bleaching baths, source of
 oxygen



R: 8-35
 S: 1/2-8-27-39-45
 RTECS: WD3450000
 UN 1504

ADR/RID 5.1/I

G.R.**Cat. No. 30152-AP0**

Assay ≥ 95 %
 Total N ≤ 0.003 %
 Cl ≤ 0.002 %
 SO₄ ≤ 0.001 %

Order number	Quantity
30152-AP0-G0500	500 g

Sodium peroxodisulfate

Na₂S₂O₈
 M_r 238.10
 CAS: 7775-27-1
 EINECS: 231-892-1
 melting point 180 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical oxidizer for cerium(III),
 chromium(III) and manganese(II) ions,
 bleaching agent



R: 8-22-36/37/38-42/43
 S: 2-17-26-36-46
 RTECS: SE0525000
 UN 1505

ADR/RID 5.1/III

G.R.**Cat. No. 30156-AP0**

Assay ≥ 99 %
 Fe ≤ 0.002 %
 Heavy metals (as Pb) ≤ 0.003 %
 Cl ≤ 0.005 %

Order number	Quantity
30156-AP0-G0500	500 g
30156-AP0-G1000	1000 g

tri-Sodium phosphate dodecahydrate

Na₃PO₄·12H₂O
 M_r 380.12
 CAS: 10101-89-0
 EINECS: 231-509-8
 melting point 75 °C
 colourless or white crystals
 readily soluble in water

Use: analytical reagent, e.g. masking
 agent, buffer



R: 36/38
 S: 2-26-36/37/39-46
 RTECS: TC9575000

G.R.**Cat. No. 30051-AP0**

Assay ≥ 97 %
 Free alkaline (as NaOH) passes test
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %
 Pb ≤ 0.005 %
 Fe ≤ 0.005 %

Order number	Quantity
30051-AP0-G1000	1000 g

pure**Cat. No. 30051-CP0**

Assay ~95 %
 Free alkaline (as NaOH) passes test

Order number	Quantity
30051-CP0-G1000	1000 g

S

Sodium salicylate

$C_7H_5NaO_3$
 HOC_6H_4COONa
 M, 160.11
 CAS: 54-21-7
 EINECS: 200-198-0
 melting point > 200 °C
 colourless crystals or white powder
 easily soluble in water

Use: pharmaceutical productions



R: 22-36/37/38
 S: 2-26-36-46
 RTECS: V05075000

G.R.**Cat. No. 40137-AP0**

Assay ≥ 99 %
 Loss on drying ≤ 0.5 %
 Heavy metals (as Pb) ≤ 0.001 %
 Cl ≤ 0.01 %
 SO₄ ≤ 0.02 %

Order number	Quantity
40137-AP0-G0500	500 g
40137-AP0-G1000	1000 g

Sodium silicate water solution

CAS: 1344-09-8
 EINECS: 215-687-4
 1l~1.3 kg
 melting point 0 °C
 boiling point 102 °C
 syrupy solution
 miscible with water



R: 38-41
 S: 2-26-37/39-46

Cat. No. 30120-BT0

Assay (as Na₂SiO₃) 34–38 %

Order number	Quantity
30120-BT0-M1000	1000 ml

Sodium sulfate anhydrous

Na_2SO_4
 M, 142.04
 CAS: 7757-82-6
 EINECS: 231-820-9
 melting point 888 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, e.g. determination of nitrogen according to Kjeldahl, desiccant, pharmaceutical productions

S: 22-24/25
 RTECS: WE1650000

puriss ACS**Cat. No. 30187-EPO**

Assay ≥ 99 %
 Heavy metals (as Pb) ≤ 0.0005 %
 pH (5 %, H₂O) 5.2–9.2
 Insoluble matter in HCl ≤ 0.01 %
 Loss on ignition (600 °C) ≤ 0.5 %
 Total N ≤ 0.0005 %
 PO₄ ≤ 0.001 %
 Fe ≤ 0.001 %
 Ca ≤ 0.01 %
 Mg ≤ 0.005 %
 K ≤ 0.01 %
 Cl ≤ 0.001 %

Order number	Quantity
30187-EPO-G1000	1000 g

G.R.**Cat. No. 30187-AP0**

Assay ≥ 99 %
 pH (5 %, H₂O) 5–8
 Loss on ignition (at 600 °C) ≤ 0.3 %
 Cl ≤ 0.005 %
 Fe ≤ 0.001 %
 Heavy metals (as Pb) ≤ 0.001 %

Order number	Quantity
30187-AP0-G0500	500 g
30187-AP0-G1000	1000 g

pure**Cat. No. 30187-CP0**

Assay ≥ 95 %

Order number	Quantity
30187-CP0-G0500	500 g
30187-CP0-G1000	1000 g

pharm.**Cat. No. 30187-FP0**

Natrii sulfas

Order number	Quantity
30187-FP0-G1000	1000 g

Sodium sulfate decahydrate

Na₂SO₄·10H₂O
 M, 322.20
 CAS: 7727-73-3
 EINECS: 231-820-9
 melting point 32 °C
 spec. stor. cond. <20 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, e.g. determination of nitrogen according to Kjeldahl, pharmaceutical productions

S: 22-24/25
 RTECS: WS8402000

G.R.**Cat. No. 30188-AP0**

Assay (on dried subst., 130 °C) ≥99 %
 Loss on drying (at 130 °C) 53–57 %
 pH (5 %, H₂O) 5–8
 Cl ≤0.0005 %
 PO₄ ≤0.001 %
 Fe ≤0.0005 %
 Heavy metals (as Pb) ≤0.0005 %

Order number	Quantity
30188-AP0-G1000	1000 g

pure**Cat. No. 30188-CP0**

Assay (on dried subst., 130 °C) ≥95 %

Order number	Quantity
30188-CP0-G1000	1000 g

pharm.**Cat. No. 30188-FP0**

Natrii sulfas decahydricus

Order number	Quantity
30188-FP0-G1000	1000 g

Sodium sulfide hydrate

Na₂S·aq
 M, 78.04 + aq
 CAS: 1313-84-4
 EINECS: 215-211-5
 melting point 920 °C
 spec. stor. cond. <20 °C
 colourless crystals, tends to become yellow in the air
 easily soluble in water

Use: analytical reagent, organic syntheses, e.g. reductant for organic nitrocompounds



R: 31-34-50
 S: 1/2-26-45-61
 RTECS: WE1925000
 UN 1849

ADR/RID 8/II

G.R.**Cat. No. 30198-AP0**

Assay of Na₂S 32–38 %
 SO₃ ≤0.3 %
 S₂O₃ ≤0.5 %
 Total N ≤0.005 %

Order number	Quantity
30198-AP0-G0500	500 g

pure**Cat. No. 30198-CP0**

Assay of Na₂S ≥60 %

Order number	Quantity
30198-CP0-G1000	1000 g

Sodium sulfite anhydrous

Na₂SO₃
 M, 126.04
 CAS: 7757-83-7
 EINECS: 231-821-4
 melting point >500 °C (decomposition)
 white powder
 easily soluble in water

Use: analytical reagent, e.g. for the detection of iodine in mixtures of halogens, absorption of NO_x in gas analysis, reductant, food industry



R: 22-31-36/37/38
 S: 2-22-26-36-46
 RTECS: WE2150000

G.R.**Cat. No. 30195-AP0**

Assay ≥98 %
 Cl ≤0.005 %
 Fe ≤0.0005 %
 Pb ≤0.0005 %

Order number	Quantity
30195-AP0-G0500	500 g
30195-AP0-G1000	1000 g

pure**Cat. No. 30195-CP0**

Assay ≥95 %

Order number	Quantity
30195-CP0-G1000	1000 g

Sodium tartrate

di-Sodium tartrate dihydrate

$C_4H_4Na_2O_6 \cdot 2H_2O$
 $NaOOC(CHOH)_2COONa \cdot 2H_2O$
 M, 230.08
 CAS: 6106-24-7
 EINECS: 212-773-3
 melting point 57 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, production of buffers, food industry

S: 24/25
 RTECS: WW8150000

G.R.

Cat. No. 40168-APO

Assay ≥ 99 %
 Subst. insoluble in H_2O ≤ 0.005 %
 Cl ≤ 0.002 %
 SO_4 ≤ 0.005 %
 pH (5 %, H_2O) 7–9

Order number	Quantity
40168-APO-G0500	500 g

pure

Cat. No. 40168-CPO

Assay ≥ 99 %
 Subst. insoluble in H_2O ≤ 0.01 %
 Cl ≤ 0.005 %
 SO_4 ≤ 0.01 %
 pH (5 %, H_2O) 7–9

Order number	Quantity
40168-CPO-G0500	500 g

Sodium tetraborate decahydrate

$Na_2B_4O_7 \cdot 10H_2O$
 M, 381.37
 CAS: 1303-96-4
 EINECS: 215-540-4
 melting point 75 °C
 boiling point 1575 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent – e.g. complexing or masking reagent, preparation of buffers, pharmaceutical productions

S: 22-24/25
 RTECS: VZ2275000

G.R.

Cat. No. 30200-APO

Assay ≥ 99 %
 Cl ≤ 0.005 %
 SO_4 ≤ 0.01 %
 Fe ≤ 0.0005 %
 Pb ≤ 0.001 %

Order number	Quantity
30200-APO-G0500	500 g
30200-APO-G1000	1000 g

pure

Cat. No. 30200-CPO

Assay ≥ 97 %

Order number	Quantity
30200-CPO-G0500	500 g

pharm.

Cat. No. 30200-FPO

Natrii tetraboras decahydricus

Order number	Quantity
30200-FPO-G1000	1000 g

Sodium tetraphenylborate

Tetraphenylboron sodium

$C_{24}H_{20}BNa$
 $NaB(C_6H_5)_4$
 M, 342.23
 CAS: 143-66-8
 EINECS: 205-605-5
 melting point > 300 °C
 spe. stor. cond. < 20 °C
 white to pinkish powder
 easily soluble in water

Use: analytical reagent for the determination of potassium, ammonium, rubidium, cesium



ADR/RID 6.1/III

R: 22-36/37/38
 S: 2-26-36-46
 UN 2811

puriss ACS

Cat. No. 30201-EPO

Assay ≥ 99.5 %
 Loss on drying (105 °C)
 Clarity of solution passes test

Order number	Quantity
30201-EPO-G0025	25 g
30201-EPO-G0100	100 g

G.R.

Cat. No. 30201-APO

Assay ≥ 99 %
 Loss on drying ≤ 1 %

Order number	Quantity
30201-APO-G0100	100 g

S

Sodium thiocyanate

NaSCN
 M_r 81.07
 CAS: 540-72-7
 EINECS: 208-754-4
 melting point 287 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, pharmaceutical productions



R: 20/21/22-32-52/53
 S: 2-13-46-61
 RTECS: XL2275000

G.R.**Cat. No. 30204-AP0**

Assay ≥ 98 %
 Cl ≤ 0.05 %
 SO₄ ≤ 0.03 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30204-AP0-G1000	1000 g

Sodium thiosulfate anhydrous

Na₂S₂O₃
 M_r 158.11
 CAS: 7772-98-7
 EINECS: 231-867-5
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, pharmaceutical productions

S: 22-24/25
 RTECS: XN6476000

pure**Cat. No. 30205-CP0**

Assay (on dried subst. 105 °C) ≥ 98 %

Order number	Quantity
30205-CP0-G1000	1000 g

Sodium thiosulfate pentahydrate

Na₂S₂O₃·5H₂O
 M_r 248.18
 CAS: 10102-17-7
 EINECS: 231-867-5
 melting point 49 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, e.g. in volumetric analysis, masking agent, pharmaceutical productions

S: 22-24/25
 RTECS: WE6660000

puriss ACS**Cat. No. 30206-EP0**

Assay 99.5 – 101 %
 Subst. insoluble in H₂O ≤ 0.005 %
 pH (5 %, H₂O) 6–8.4
 Total N ≤ 0.002 %
 SO₄+SO₃ (as SO₄) ≤ 0.1 %
 Sulfides (as S) passes test

Order number	Quantity
30206-EP0-G1000	1000 g

G.R.**Cat. No. 30206-AP0**

Assay ≥ 99 %
 pH (5 %, H₂O) 6–8.5
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %
 Cl ≤ 0.02 %
 SO₄+SO₃ (as SO₄) ≤ 0.2 %

Order number	Quantity
30206-AP0-G0500	500 g
30206-AP0-G1000	1000 g

pure**Cat. No. 30206-CP0**

Assay ≥ 98 %

Order number	Quantity
30206-CP0-G0500	500 g
30206-CP0-G1000	1000 g

pharm.**Cat. No. 30206-FP0**

Natrii thiosulfas pentahydricus

Order number	Quantity
30206-FP0-G1000	1000 g

Sorbic acid

$C_6H_8O_2$
 $CH_3CH:CHCH:CHCOOH$
 M, 112.13
 CAS: 110-44-1
 EINECS: 203-768-7
 melting point 133–135 °C
 boiling point 228 °C
 colourless crystals or white powder
 easily soluble in alcohol

Use: food industry and production of cosmetics, pharmaceutical productions



R: 36/37/38
 S: 2-26-36-46
 RTECS: WG2100000

pure**Cat. No. 10057-CPO**

Assay ≥ 98 %
 Melting point 133–135 °C

Order number	Quantity
10057-CPO-G0500	500 g

pharm.**Cat. No. 10057-FPO**

Acidum sorbicum

Order number	Quantity
10057-FPO-G0250	250 g

Sorbic acid potassium salt

$C_6H_7KO_2$
 $CH_3CH:CHCH:CHCOOK$
 M, 150.22
 CAS: 24634-61-5
 EINECS: 246-376-1
 colourless crystals or white powder
 easily soluble in water

Use: food industry (preservative)

S: 22-24/25
 RTECS: WG2160000

G.R.**Cat. No. 10058-AP0**

Assay ≥ 99 %
 Cl ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
10058-AP0-G0100	100 g
10058-AP0-G0500	500 g

Standard volumetric solutions, see part II. Other Products – page 209

Stannous chloride dihydrate, see Tin(II) chloride dihydrate – page 191

Stannous sulfate, see Tin(II) sulfate – page 192

Starch soluble (from potatoes)

$(C_6H_{10}O_5)_n$
 CAS: 9005-25-8
 EINECS: 232-686-4
 white powder
 soluble in water

Use: analytical reagent – indicator in volumetric analysis, pharmaceutical productions

G.R.**Cat. No. 40140-AP0**

pH (2 %, H₂O) 4.5–7
 Subst. insoluble in H₂O ≤ 0.1 %
 Sulfated ash ≤ 0.5 %
 Loss on drying (at 105 °C) ≤ 18 %
 Sensitivity passes test

Order number	Quantity
40140-AP0-G0500	500 g
40140-AP0-G1000	1000 g

pure**Cat. No. 40140-CPO**

Subst. insoluble in H₂O ≤ 0.15 %
 Sulfated ash ≤ 0.7 %
 Loss on drying (at 105 °C) ≤ 17 %

Order number	Quantity
40140-CPO-G1000	1000 g

Strontium chloride hexahydrate

SrCl₂·6H₂O
 M_r 266.62
 CAS: 10025-70-4
 EINECS: 233-971-6
 melting point 61 °C
 boiling point 100 °C
 colourless crystals or white to almost white powder
 readily soluble in water

Use: analytical reagent, medicine

S: 22-24/25
 RTECS: WK8575000

G.R.**Cat. No. 30094-AP0**

Assay ≥ 99 %
 pH (5 %, H₂O) 5–7
 SO₄ ≤ 0.001 %
 Ba ≤ 0.002 %
 Fe ≤ 0.0005 %
 Heavy metals (as Pb) ≤ 0.0005 %

Order number	Quantity
30094-AP0-G0100	100 g

Strontium nitrate

Sr(NO₃)₂
 M_r 211.63
 CAS: 10042-76-9
 EINECS: 233-131-9
 melting point 570 °C
 white crystals
 easily soluble in water

Use: analytical reagent

  R: 8-36/37/38
 S: 2-17-26-36/37/39-46
 RTECS: WK9800000
 ADR/RID 5.1/III UN 1507

G.R.**Cat. No. 30041-AP0**

Assay ≥ 99 %
 pH (5 %, H₂O) 5–7
 Loss on drying (at 105 °C) ≤ 0.5 %
 Cl ≤ 0.005 %
 Fe ≤ 0.0005 %

Order number	Quantity
30041-AP0-G1000	1000 g

Succinic acid

C₄H₆O₄
 HOOCCH₂CH₂COOH
 M_r 118.09
 CAS: 110-15-6
 EINECS: 203-740-4
 melting point 183–187 °C
 boiling point 235 °C (decomposition)
 colourless crystals or white powder
 soluble in water and alcohol

Use: analytical reagent, preparation of buffers, pharmaceutical productions

 R: 36/37/38
 S: 2-26-36-46
 RTECS: WM4900000

G.R.**Cat. No. 10035-AP0**

Assay ≥ 99 %
 Sulfated ash ≤ 0.05 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.01 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
10035-AP0-G0500	500 g

S

Sulfamic acid

Amidosulfonic acid

 $\text{NH}_2\text{SO}_3\text{H}$

M, 97.09

CAS: 5329-14-6

EINECS: 226-218-8

melting point 205 °C

colourless crystals or white to almost white powder

soluble in water and alcohol

Use: analytical reagent, stabilizer of chlorine in swimming pool chemistry, organic syntheses – diazotation



R: 36/38-52/53

S: 2-26-28-46-61

RTECS: W05950000

ADR/RID 8/III

UN 2967

G.R.

Cat. No. 10012-AP0

Assay ≥ 99 %

Sulfated ash ≤ 0.1 %

Cl ≤ 0.005 %

 SO_4 ≤ 0.05 %

Fe ≤ 0.005 %

Pb ≤ 0.005 %

Order number	Quantity
10012-AP0-G1000	1000 g

Sulfanilamide

4-Aminobenzenesulfonamide

 $\text{C}_6\text{H}_8\text{N}_2\text{O}_2\text{S}$ $4\text{-(H}_2\text{N)C}_6\text{H}_4\text{SO}_2\text{NH}_2$

M, 172.20

CAS: 63-74-1

EINECS: 200-563-4

melting point 163–167 °C

white powder

hardly soluble in water and alcohol,

readily soluble in boiling water, acetone,

petroleum ether

Use: organic syntheses, biochemistry

S: 24/25

G.R.

Cat. No. 40004-AP0

Assay (in dry matter) ≥ 99 %

Loss on drying (at 105 °C) ≤ 0.5 %

Residue on ignition ≤ 0.1 %

Heavy metals (as Pb) ≤ 0.002 %

Melting point 163–167 °C

Order number	Quantity
40004-AP0-G0100	100 g

pure

Cat. No. 40004-CP0

Assay ≥ 98 %

Sulfated ash ≤ 0.1 %

Order number	Quantity
40004-CP0-G0100	100 g

Sulfanilic acid

 $\text{C}_6\text{H}_7\text{NO}_3\text{S}$ $\text{H}_2\text{NC}_6\text{H}_4\text{SO}_3\text{H}$

M, 173.19

CAS: 121-57-3

EINECS: 204-482-5

melting point 288 °C

white or off-white crystalline powder

slightly soluble in water, soluble in alcohol

Use: analytical reagent for the determination of nitrates, nitrites, aluminium, ammonia salts, cerium, potassium, magnesium, sodium, iodides, oximes, elementary analysis, antibacterial agent



R: 36/38-43

S: 2-24-37-46

RTECS: WP3895500

G.R.

Cat. No. 10059-AP0

Assay ≥ 99 %

Sulfated ash ≤ 0.01 %

Cl ≤ 0.002 %

 SO_4 ≤ 0.005 % NO_2 ≤ 0.00005 %

Order number	Quantity
10059-AP0-G0500	500 g

pure

Cat. No. 10059-CP0

Assay ≥ 98 %

Order number	Quantity
10059-CP0-G0500	500 g

5-Sulfosalicylic acid dihydrate

C₇H₆O₆S₂H₂O
 HOC₆H₃(SO₃H)COOH.2H₂O
 M, 254.22
 CAS: 5965-83-3
 EINECS: 202-555-6
 melting point 105–120 °C
 colourless crystals or white powder
 soluble in water and alcohol

Use: analytical reagent for the determination of albumin, chelating agent, indicator for metals – iron, titanium, vanadium



R: 36/37/38
 S: 2-26-36-46
 RTECS: VO6500000
 ADR/RID 8/III UN 3261

G.R.**Cat. No. 10009-AP0**

Assay ≥ 98 %
 Cl ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
10009-AP0-G1000	1000 g

Sulfur

S
 M, 32.06
 CAS: 7704-34-9
 EINECS: 231-722-6
 melting point 113–119 °C
 boiling point 144 °C
 yellow powder
 insoluble in water

Use: analytical reagent, disinfecting agent, pharmaceutical productions



R: 11
 S: 2-16-26-36-46
 RTECS: WS4250000
 ADR/RID 4.1/III UN 1350

G.R.**Cat. No. 30161-AP0**

Residue on ignition ≤ 0.2 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.005 %

Order number	Quantity
30161-AP0-G0500	500 g
30161-AP0-G1000	1000 g

pure**Cat. No. 30161-CP0**

Residue on ignition ≤ 0.2 %

Order number	Quantity
30161-CP0-G0500	500 g
30161-CP0-G1000	1000 g

pharm.**Cat. No. 30161-FP0**

Sulfur ad usum externum

Order number	Quantity
30161-FP0-G1000	1000 g

Sulfuric acid 96 %; 90–91 %

H₂SO₄
 M, 98.08
 CAS: 7664-93-9
 EINECS: 231-639-5
 1l~1.83 kg
 melting point –15 °C
 boiling point 330 °C
 clear, oily colourless liquid, hygroscopic
 miscible with water

Use: analytical reagent, e.g. in volumetric analysis, samples treatment before metals analysis, milk industry, component of nitration mixture, drying and draining of compounds



R: 35
 S: 1/2-26-30-45
 RTECS: WS5600000
 ADR/RID 8/II UN 1830

puriss ACS 96 %**Cat. No. 10055-E96**

Assay 95–98 %
 Color ≤ 10 APHA
 Heavy metals (as Pb) ≤ 0.0001 %
 Residue after ignition ≤ 0.0005 %
 Subst. reducing KMnO₄ (as SO₂) ≤ 0.0002 %
 Cl ≤ 0.00002 %
 NO₃ ≤ 0.00005 %
 As ≤ 0.000001 %
 Fe ≤ 0.00002 %
 NH₄ ≤ 0.0002 %
 Hg ≤ 5 ppb

Order number	Quantity
10055-E96-M0500	500 ml
10055-E96-M2500	2500 ml

chem. pure 96 %**Cat. No. 10055-H96**

Assay	≥ 95 %
Total N	≤ 0.0001 %
Cl	≤ 0.0001 %
Heavy metals (as Pb)	≤ 0.0002 %
Fe	≤ 0.00005 %
Subst. reducing KMnO_4 (as SO_2)	≤ 0.0006 %
PO_4	≤ 0.0001 %

Order number	Quantity
10055-H96-M1000	1000 ml
10055-H96-M5000	5000 ml

G.R. 96 %**Cat. No. 10055-A96**

Assay	≥ 95 %
Cl	≤ 0.0002 %
Heavy metals (as Pb)	≤ 0.0002 %
Fe	≤ 0.0005 %
Subst. reducing KMnO_4 (as SO_2)	≤ 0.0006 %

Order number	Quantity
10055-A96-M1000	1000 ml
10055-A96-M5000	5000 ml

pure 96 %**Cat. No. 10055-C96**

Assay	≥ 95 %
Cl	≤ 0.0005 %
Heavy metals (as Pb)	≤ 0.0005 %
Fe	≤ 0.0005 %

Order number	Quantity
10055-C96-M1000	1000 ml

90–91 % for milk-analysis**Cat. No. 10055-G91**

Assay	90–91 %
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Order number	Quantity
10055-G91-M1000	1000 ml
10055-G91-M5000	5000 ml

Talc

Mg₃Si₄O₁₀(OH)₂
 M_r 379.27
 CAS: 14807-96-6
 EINECS: 238-877-9
 melting point 800 °C
 white oily powder
 insoluble in water and alcohol

Use: pharmaceutical productions, production of cosmetics

S: 22-24/25
 RTECS: WW2710000

pharm.
Cat. No. 40093-FPO
 Talcum

Order number	Quantity
40093-FPO-G1000	1000 g

Tannin

CAS: 1401-55-4
 EINECS: 215-753-2
 yellowish to light brown powder
 easily soluble in water and alcohol

Use: pharmaceutical productions

S: 22-24/25

pharm.
Cat. No. 40144-FPO
 Tanninum

Order number	Quantity
40144-FPO-G0100	100 g
40144-FPO-G0500	500 g

L-(+)-Tartaric acid

C₄H₆O₆
 COOH(CHOH)₂COOH
 M_r 150.09
 CAS: 87-69-4
 EINECS: 201-766-0
 melting point 170 °C
 colourless crystals or white powder
 easily soluble in water

Use: complexing agent, food and pharmaceutical industry



R: 36/37/38
 S: 2-26-36-46
 RTECS: WW7875000

puriss ACS
Cat. No. 10040-EPO

Assay ≥ 99 %
 Heavy metals (as Pb) ≤ 0.0005 %
 Residue after ignition ≤ 0.02 %
 Cl ≤ 0.001 %
 PO₄ ≤ 0.001 %
 Fe ≤ 0.0005 %
 Insoluble matter in water ≤ 0.005 %
 Oxalate passes test
 Sulfur compounds (as SO₄) ≤ 0.002 %

Order number	Quantity
10040-EPO-G0100	100 g
10040-EPO-G0500	500 g

G.R.
Cat. No. 10040-AP0

Assay ≥ 99.5 %
 Subst. insoluble in H₂O ≤ 0.005 %
 Sulfated ash ≤ 0.02 %
 SO₄ ≤ 0.01 %
 PO₄ ≤ 0.002 %
 Fe ≤ 0.0005 %
 Cu ≤ 0.0005 %
 Pb ≤ 0.0005 %
 Ca ≤ 0.002 %

Order number	Quantity
10040-AP0-G1000	1000 g

Tartaric

L-(+)-Tartaric acid

pure

Cat. No. 10040-CP0

Assay	≥ 99 %
Subst. insoluble in H ₂ O	≤ 0.01 %
Sulfated ash	≤ 0.05 %
SO ₄	≤ 0.02 %
PO ₄	≤ 0.005 %
Fe	≤ 0.001 %

Order number	Quantity
10040-CP0-G1000	1000 g

pharm.

Cat. No. 10040-FP0

Acidum tartaricum

Order number	Quantity
10040-FP0-G0500	500 g
10040-FP0-G1000	1000 g

Tetrabutylammonium bromide

C₁₆H₃₆BrN
(CH₃CH₂CH₂CH₂)₄N(Br)
M, 322.38

CAS: 1643-19-2

EINECS: 216-699-2

melting point 100–104 °C

white to yellowish crystalline powder,
hygroscopic
easily soluble in water and alcohol

Use: organic syntheses – phase response
catalyst, chromatography



ADR/RID 9/III

R: 22-36/37/38

S: 2-26-36-46

RTECS: BS5390000

UN 3077

pure

Cat. No. 40145-CP0

Assay	≥ 98 %
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Order number	Quantity
40145-CP0-G0250	250 g

Tetrabutylammonium iodide

C₁₆H₃₆I
(CH₃CH₂CH₂CH₂)₄N(I)
M, 369.38

CAS: 311-28-4

EINECS: 206-220-5

melting point 144–146 °C

white to light beige crystalline powder
easily soluble in water and alcohol

Use: organic syntheses – phase response
catalyst



R: 22-36/37/38

S: 2-26-36-46

RTECS: BS5450000

G.R.

Cat. No. 40146-AP0

Assay	≥ 99 %
Melting point	144–146 °C

Order number	Quantity
40146-AP0-G0100	100 g

1,1,2,2-Tetrachloroethane

$C_2H_2Cl_4$
 $CHCl_2CHCl_2$
 M_r 167.85
 CAS: 79-34-5
 EINECS: 201-197-8

1l~1.60 kg
 melting point $-43\text{ }^\circ\text{C}$
 boiling point $146\text{ }^\circ\text{C}$
 clear, colourless to light yellow volatile liquid
 miscible with alcohol and ether

Use: organic syntheses – Friedel-Crafts reactions



R: 26/27-51/53
 S: 1/2-38-45-61
 RTECS: KI8575000

ADR/RID 6.1/II UN 1702

pure

Cat. No. 20054-CTO

Assay $\geq 97\%$
 n_D^{20} 1.493–1.495

Order number	Quantity
20054-CTO-M1000	1000 ml

Tetrachloroethylene

C_2Cl_4
 CCl_2CCl_2
 M_r 165.83
 CAS: 127-18-4
 EINECS: 204-825-9

1l~1.62 kg
 melting point $-23\text{ }^\circ\text{C}$
 boiling point $121\text{ }^\circ\text{C}$
 clear, colourless liquid with characteristic odour
 miscible with alcohol and ether

Use: solvent, extraction reagent



R: 40-51/53
 S: 2-23-36/37-46-61
 RTECS: KX3850000

ADR/RID 6.1/III UN 1897

G.R.

Cat. No. 20055-ATO

Assay $\geq 99.5\%$
 Non-volatile substances $\leq 0.001\%$
 H_2O (K.F.) $\leq 0.01\%$
 Acidity (as CH_3COOH) $\leq 0.002\%$

Order number	Quantity
20055-ATO-M1000	1000 ml

pure

Cat. No. 20055-CTO

Assay $\geq 98\%$

Order number	Quantity
20055-CTO-M1000	1000 ml

Tetraethylammonium bromide

$C_8H_{20}BrN$
 $(CH_3CH_2)_4N(Br)$
 M_r 210.16
 CAS: 71-91-0
 EINECS: 200-769-4
 melting point $> 285\text{ }^\circ\text{C}$ (decomposition)
 colourless crystals or white powder,
 hygroscopic
 easily soluble in water and alcohol

Use: organic syntheses – phase response catalyst, ion pair agent of mobile phase for separation of benzenecarboxyl acids by methods of IEC or IPC with reverse stationary phase



R: 36/37/38
 S: 2-26-36-46
 RTECS: BS5950000

pure

Cat. No. 40147-CP0

Assay $\geq 98\%$

Order number	Quantity
40147-CP0-G0100	100 g

Tetraethylammonium iodide

$C_8H_{20}IN$
 $(CH_3CH_2)_4N(I)$
 M, 257.17
 CAS: 68-05-3
 EINECS: 200-676-9
 melting point > 300 °C
 colourless crystals or white powder
 easily soluble in water and alcohol

Use: organic syntheses – phase response catalyst



R: 36/37/38
 S: 2-26-36-46
 RTECS: BS7365000

pure**Cat. No. 40148-CP0**

Assay ≥ 98 %

Order number	Quantity
40148-CP0-G0100	100 g

Tetrahydrofuran

C_4H_8O
 $CH_2(CH_2)_3O$
 M, 72.11
 CAS: 109-99-9
 EINECS: 203-726-8
 1l~0.89 kg
 melting point –108 °C
 boiling point 66 °C
 flash point –17 °C
 clear, colourless liquid
 miscible with alcohol and ether

Use: analytical reagent, solvent, e.g. for HPLC, organic syntheses, reaction media for Grignard reactions



R: 11-19-36/37
 S: 2-16-29-33-46
 RTECS: LU5950000
 UN 2056

ADR/RID 3/II

puriss ACS stabilized**Cat. No. 20052-ET4**

Assay ≥ 99.5 %
 Color ≤ 20 APHA
 H_2O (K.F.) ≤ 0.05 %
 Alkalinity ≤ 0.0002 mEq/g
 Acidity ≤ 0.0002 mEq/g
 Non-volatile substances ≤ 0.03 %
 Peroxides (as H_2O_2) ≤ 0.015 %
 Stab. BHT
 (2,6 di-tert-butyl-4-methylphenol) 0.025–0.04 %

Order number	Quantity
20052-ET4-M1000	1000 ml
20052-ET4-M2500	2500 ml

G.R. stabilized**Cat. No. 20052-AT4**

Assay ≥ 99.5 %
 H_2O (K.F.) ≤ 0.1 %
 Non-volatile substances ≤ 0.04 %
 Free acids (as CH_3COOH) ≤ 0.003 %
 Stab. BHT
 (2,6 di-tert-butyl-4-methylphenol) 0.025–0.04 %

Order number	Quantity
20052-AT4-M1000	1000 ml

for HPLC stabilized**Cat. No. 20052-LT4**

Assay ≥ 99.8 %
 Water ≤ 0.02 %
 Acidity (mEq./g) ≤ 0.0005
 Evaporation residue ≤ 0.0005 %
 UV transmiss. levels
 Wavelength Transmission
 240 nm ≥ 70 %
 250 nm ≥ 80 %
 260 nm ≥ 90 %
 270 nm ≥ 98 %
 280 nm ≥ 99 %
 Stab. BHT
 (2,6 di-tert-butyl-4-methylphenol) 0.025–0.04 %

Order number	Quantity
20052-LT4-M2500	2500 ml

1,2,3,4-Tetrahydronaphthalene

$C_{10}H_{12}$
 $C_{10}H_8(CH_2)_3CH_2$
 M, 132.21
 CAS: 119-64-2
 EINECS: 204-340-2
 1l~0.97 kg
 melting point -37°C
 boiling point $204\text{--}207^\circ\text{C}$
 clear, colourless oily liquid
 miscible with ether

Use: non-polar solvent, organic syntheses



R: 19-36/38-51/53
 S: 2-26-28-46-61
 RTECS: QK3850000
 UN 3082

ADR/RID 9/III

pure

Cat. No. 20053-CTO

Assay $\geq 97\%$
 Boiling point $204\text{--}207^\circ\text{C}$

Order number	Quantity
20053-CTO-M1000	1000 ml

Tetramethylammonium bromide

$C_4H_{12}BrN$
 $(CH_3)_4N(Br)$
 M, 154.06
 CAS: 64-20-0
 EINECS: 200-581-2
 melting point $\sim 230^\circ\text{C}$ (decomposition)
 boiling point $> 360^\circ\text{C}$
 colourless crystals or white to light grey powder
 easily soluble in water and alcohol

Use: analytical reagent for polarographic analyses



R: 25-36/37/38
 S: 1/2-26-28-36-45
 RTECS: BS7600000
 UN 2811

ADR/RID 6.1/II

pure

Cat. No. 40150-CP0

Assay $\geq 98\%$

Order number	Quantity
40150-CP0-G0025	25 g

Tetramethylammonium hydroxide solution ~10 % in water

$C_4H_{13}NO$
 $(CH_3)_4N(OH)$
 M, 91.16
 CAS: 75-59-2
 EINECS: 200-882-9
 1l~1.01 kg
 melting point -22 to -16°C
 boiling point 110°C
 clear, light yellowish liquid
 miscible with water and alcohol

Use: analytical reagent for polarographic analyses



R: 21/22-34
 S: 1/2-26-36/37/39-45
 RTECS: PA0875000
 UN 1835

ADR/RID 8/II

pure

Cat. No. 40151-CT0

Assay $\sim 10\%$

Order number	Quantity
40151-CT0-G0100	100 g

T

Thioglycolic acid 80 %

C₂H₃O₂S
 HSCH₂COOH
 M, 92.12
 CAS: 68-11-1
 EINECS: 200-677-4
 1l~1.27 kg
 melting point -10 to -16 °C
 boiling point 108 °C (at 2 kPa)
 clear, colourless oily liquid
 miscible with water, alcohol, ether

Use: analytical reagent, e.g. for the photo-metric determination of aluminium, iron, molybdenum, uranium



ADR/RID 8/II

R: 23/24/25-34
 S: 1/2-25-27-28-45
 RTECS: AI5950000
 UN 1940

G.R.**Cat. No. 10062-A80**

Assay ~80 %
 Sulfated ash ≤ 0.05 %
 Fe ≤ 0.00005 %

Order number	Quantity
10062-A80-M1000	1000 ml

pure**Cat. No. 10062-C80**

Assay ~80 %

Order number	Quantity
10062-C80-M1000	1000 ml

Thionyl chloride

SOCl₂
 M, 118.97
 CAS: 7719-09-7
 EINECS: 231-748-8
 1l~1.64 kg
 melting point -105 °C
 boiling point 76 °C
 clear, yellowish to reddish liquid, fuming in the air
 decomposes with water, miscible with benzene

Use: organic syntheses



ADR/RID 8/I

R: 14-20/22-29-35
 S: 1/2-26-36/37/39-45
 RTECS: XM5150000
 UN 1836

pure**Cat. No. 40153-CT0**

Assay ≥ 99 %

Order number	Quantity
40153-CT0-M0500	500 ml
40153-CT0-M1000	1000 ml

Thiourea

CH₄N₂S
 NH₂C(S)NH₂
 M, 76.12
 CAS: 62-56-6
 EINECS: 200-543-5
 melting point 170–175 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, e.g. for the evidence of bismuth(III) ions, organic syntheses



ADR/RID 9/III

R: 22-40-51/53-63
 S: 2-36/37-46-61
 RTECS: YU2800000
 UN 3077

G.R.**Cat. No. 40152-APO**

Assay ≥ 99 %
 Melting point (on dried subst.) 170–175 °C

Order number	Quantity
40152-APO-G0500	500 g
40152-APO-G1000	1000 g

Thymol

$C_{10}H_{14}O$
 $C_6H_3-1-OH-2-CH(CH_3)_2-5-CH_3$
 M_r 150.22
 CAS: 89-83-8
 EINECS: 201-944-8
 melting point 48–50 °C
 boiling point 233 °C (at 100 kPa)
 colourless crystals or white powder
 soluble in water and alcohol

Use: analytical reagent, solvents stabilizer, antioxidant, production of cosmetics



R: 22-34-51/53
 S: 1/2-26-28-36/37/39-45-61
 RTECS: XP2275000
 UN 3261

ADR/RID 8/III

G.R.**Cat. No. 40154-AP0**

Assay ≥ 99 %
 Melting point (on dried subst.) 48–50 °C
 Non-volatile substances ≤ 0.1 %

Order number	Quantity
40154-AP0-G0100	100 g

pure**Cat. No. 40154-CP0**

Assay ≥ 97 %
 Melting point (on dried subst.) 48–50 °C

Order number	Quantity
40154-CP0-G0100	100 g

Tin(II) chloride dihydrate

Stannous chloride dihydrate
 $SnCl_2 \cdot 2H_2O$
 M_r 225.63
 CAS: 10025-69-1
 EINECS: 231-868-0
 melting point 38 °C
 colourless crystals or white to light yellowish powder
 readily soluble in water, hydrolyzes

Use: analytical reagent in qualitative and quantitative analysis, e.g. for the determination of arsenic, gold, mercury, bismuth, reductant, e.g. of iron(III) or mercury(II) ions, organic nitro compounds, azo compounds



R: 22-36/37/38
 S: 2-26-36/37/39-46
 RTECS: XP8850000
 UN 3260

ADR/RID 8/II

puriss ACS**Cat. No. 30075-EPO**

Assay 98–103 %
 SO_4 passes test
 Solubility in HCl passes test
 Fe ≤ 0.003 %
 Ca ≤ 0.005 %
 Pb ≤ 0.01 %
 K ≤ 0.005 %
 Na ≤ 0.01 %

Order number	Quantity
30075-EPO-G0500	500 g

G.R.**Cat. No. 30075-AP0**

Assay ≥ 98 %
 SO_4 ≤ 0.002 %
 Fe ≤ 0.002 %
 Pb ≤ 0.005 %

Order number	Quantity
30075-AP0-G0500	500 g
30075-AP0-G1000	1000 g

pure**Cat. No. 30075-CP0**

Assay ≥ 97 %

Order number	Quantity
30075-CP0-G0500	500 g

Tin(IV) oxide

SnO_2
 M_r 150.69
 CAS: 18282-10-5
 EINECS: 242-159-0
 melting point 1630 °C
 boiling point 1800–1900 °C
 white to off-white or brownish powder
 insoluble in water

Use: catalyst

S: 22

pure**Cat. No. 30132-CP0**

Assay ≥ 99 %

Order number	Quantity
30132-CP0-G0100	100 g

T

Tin(II) sulfate

Stannous sulfate
 SnSO_4
 M, 214.75
 CAS: 7488-55-3
 EINECS: 231-302-2
 melting point 360 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent



R: 36/37/38
 S: 2-26-36/37/39-46
 RTECS: WT1255000
 UN 3260

ADR/RID 8/III

G.R.

Cat. No. 30167-AP0

Assay ≥ 96 %
 Cl ≤ 0.01 %
 Ca ≤ 0.05 %

Order number	Quantity
30167-AP0-G0500	500 g

pure

Cat. No. 30167-CP0

Assay ≥ 96 %

Order number	Quantity
30167-CP0-G1000	1000 g

Titanium dioxide, see Titanium(IV) oxide – page 192

Titanium(IV) oxide

Titanium dioxide
 TiO_2
 M, 79.90
 CAS: 13463-67-7
 EINECS: 236-675-5
 melting point 1855 °C
 boiling point 2900 °C
 white powder
 insoluble in water

Use: pharmaceutical productions

S: 22-24/25
 RTECS: XR2275000

G.R.

Cat. No. 30148-AP0

Assay ≥ 99 %

Order number	Quantity
30148-AP0-G0100	100 g
30148-AP0-G1000	1000 g

Titanium(IV) tetrachloride

TiCl_4
 M, 189.71
 CAS: 7550-45-0
 EINECS: 231-441-9
 1l~1.73 kg
 melting point -24 °C
 boiling point 135–136 °C
 clear, colourless to light yellow fuming
 liquid, hygroscopic
 rapidly decomposes with water

Use: analytical reagent, e.g. detection of peroxides, production of organotitanium compounds



R: 14-34
 S: 1/2-7/8-26-36/37/39-45
 RTECS: XR1925000
 UN 1838

ADR/RID 8/II

G.R.

Cat. No. 30095-AT0

Assay ≥ 99 %
 Boiling point 135–136 °C

Order number	Quantity
30095-AT0-M0100	100 ml

pure

Cat. No. 30095-CT0

Assay ≥ 98 %

Order number	Quantity
30095-CT0-M0500	500 ml

o-Tolidine

$C_{14}H_{16}N_2$
 $NH_2(CH_2)_6C_6H_4C_6H_3(CH_3)NH_2$
 M_r 212.30
 CAS: 119-93-7
 EINECS: 204-358-0
 melting point 129–134 °C
 boiling point 200 °C
 light brown or off-white powder
 easily soluble in ether and alcohol

Use: analytical reagent for the determination of gold, cerium, free halides and chlorine in water, manganese



R: 45-22-51/53
 S: 1/2-53-45-61
 RTECS: DD1225000
 UN 3077

ADR/RID 9/III

G.R.

Cat. No. 40155-AP0

Assay ≥ 98 %
 Melting point (on dried subst.) 129–134 °C

Order number	Quantity
40155-AP0-G0010	10 g
40155-AP0-G0050	50 g

pure

Cat. No. 40155-CP0

Assay ≥ 97 %
 Melting point (on dried subst.) 127–130 °C

Order number	Quantity
40155-CP0-G0010	10 g
40155-CP0-G0050	50 g

Toluene

C_7H_8
 $C_6H_5CH_3$
 M_r 92.14
 CAS: 108-88-3
 EINECS: 203-625-9
 1l~0.87 kg
 melting point -95 °C
 boiling point 110 °C
 flash point 4 °C
 clear, colourless liquid
 very hardly soluble in water, miscible with alcohol

Use: analytical solvent, e.g. for HPLC, spectrophotometric measurements in UV region, analysis residual of pesticides, organic syntheses



R: 11-38-48/20-63-65-67
 S: 2-36/37-62
 RTECS: XS5250000
 UN 1294

ADR/RID 3/II

puriss ACS

Cat. No. 20056-ET0

Assay ≥ 99.5 %
 Color ≤ 10 APHA
 H_2O (K.F.) ≤ 0.03 %
 Non-volatile substances ≤ 0.001 %
 Sulfur compounds (as S) ≤ 0.003 %
 Subst. darkened by H_2SO_4 passes test

Order number	Quantity
20056-ET0-M0500	500 ml
20056-ET0-M1000	1000 ml

G.R.

Cat. No. 20056-AT0

Assay ≥ 99 %
 Cloud temperature ≤ +10 °C
 H_2O (K.F.) ≤ 0.05 %

Order number	Quantity
20056-AT0-M1000	1000 ml

pure

Cat. No. 20056-CT0

Assay ≥ 99 %

Order number	Quantity
20056-CT0-M1000	1000 ml
20056-CT0-L0020	20000 ml

for UV spectroscopy

Cat. No. 20056-UT0

Assay ≥ 99.5 %
 Water ≤ 0.01 %
 Evaporation residue ≤ 0.0005 %
 UV transmission levels
 Wavelength Transmission
 286 nm ≥ 10 %
 288 nm ≥ 30 %
 293 nm ≥ 60 %
 300 nm ≥ 80 %
 310 nm ≥ 90 %
 335 nm ≥ 95 %
 350–400 nm ≥ 98 %

Order number	Quantity
20056-UT0-M1000	1000 ml

T

Toluene

for HPLC

Cat. No. 20056-LTO

Assay	≥ 99.8 %
Water	≤ 0.01 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
UV transmission levels	
Wavelength	Transmission
290 nm	≥ 50 %
300 nm	≥ 80 %
310 nm	≥ 90 %
330 nm	≥ 98 %
350 nm	≥ 99 %

Order number	Quantity
20056-LTO-M2500	2500 ml

for pesticide residue analysis

Cat. No. 20056-RTO

Assay	≥ 99.8 %
Water	≤ 0.02 %
Acidity (mEq./g)	≤ 0.0005
Evaporation residue	≤ 0.0005 %
Halogenated residue	≤ 5ng/l

Order number	Quantity
20056-RTO-M2500	2500 ml

Toluene-4-sulfonic acid monohydrate

$C_7H_6O_3S.H_2O$
 $CH_3C_6H_4SO_3H.H_2O$
 M, 190.22
 CAS: 6192-52-5
 EINECS: 203-180-0
 melting point 103–106 °C
 boiling point 140 °C (at 27 kPa)
 colourless crystals or white powder,
 hygroscopic
 soluble in water and alcohol

Use: organic syntheses – esterification, cyclization, acylation, pharmaceutical syntheses



R: 36/37/38
 S: 2-26-37-46
 RTECS: XT6300000
 UN 2585

ADR/RID 8/III

G.R.

Cat. No. 10052-APO

Assay	≥ 99 %
Melting point	103–106 °C

Order number	Quantity
10052-APO-G0050	50 g
10052-APO-G0100	100 g

o-Toluidine

C_7H_7N
 $CH_3C_6H_4NH_2$
 M, 107.16
 CAS: 95-53-4
 EINECS: 202-429-0
 1l~1.00 kg
 melting point –28 °C
 boiling point 200 °C
 clear, light yellow to light brown liquid,
 light sensitive
 marginally miscible with water, miscible
 with alcohol

G.R.

Cat. No. 40156-ATO

Assay	≥ 99.5 %
d_4^{20}	0.998–1.000
Sulfated ash	≤ 0.02 %

Order number	Quantity
40156-ATO-M1000	1000 ml

o-Toluidine

Use: analytical reagent for the determination of blood glucose



R: 45-23/25-36-50

S: 1/2-53-45-61

RTECS: XU2975000

ADR/RID 6.1/II

UN 1708

pure**Cat. No. 40156-CTO**

Assay ≥ 98 %

Order number	Quantity
40156-CTO-M1000	1000 ml

p-Toluidine

C₇H₉NCH₃C₆H₄NH₂M_r 107.16

CAS: 106-49-0

EINECS: 203-403-1

melting point 42–44 °C

boiling point 200 °C

white or off-white crystals

hardly soluble in water, soluble in alcohol and ether

Use: analytical reagent for the determination of lignin and nitrites, organic syntheses



R: 23/24/25-36-40-43-50

S: 1/2-28-36/37-45-61

RTECS: XU3150000

ADR/RID 6.1/II

UN 3451

pure**Cat. No. 40157-CTO**

Assay ≥ 98 %

Melting point (on dried subst.) 42–44 °C

Order number	Quantity
40157-CTO-G0500	500 g

Trichloroacetaldehyde hydrate, see Chloral hydrate – page 45

Trichloroacetic acid

C₂HCl₃O₂Cl₃CCOOHM_r 163.39

CAS: 76-03-9

EINECS: 200-927-2

melting point 54–58 °C

boiling point 197 °C

spec. stor. cond. 5–15 °C

colourless crystals or white powder,

hygroscopic

easily soluble in water and alcohol

Use: analytical reagent – e.g. detection of albumin, organic syntheses – hydrolysis of acetals, preparation of trihalomethylcarbinols, pharmaceutical productions



R: 35-50/53

S: 1/2-26-36/37/39-45-60-61

RTECS: AJ7875000

ADR/RID 8/II

UN 1839

G.R.**Cat. No. 10063-ATO**

Assay ≥ 99 %

Sulfated ash ≤ 0.05 %

Fe ≤ 0.005 %

Heavy metals (as Pb) ≤ 0.005 %

Order number	Quantity
10063-ATO-G1000	1000 g

pharm.**Cat. No. 10063-FTO**

Acidum trichloroaceticum

Order number	Quantity
10063-FTO-M1000	1000 g

Trichloroethene, see Trichloroethylene – page 196

Trichloroethylene

Trichloroethene

 C_2HCl_3 ClCH₂CCl₂

M, 131.39

CAS: 79-01-6

EINECS: 201-167-4

1l~1.46 kg

melting point -73 °C

boiling point 87 °C

clear, colourless liquid

miscible with alcohol and ether

Use: solvent, organic syntheses

R: 45-36/38-52/53-67-68

S: 1/2-53-45-61

RTECS: KX4550000

ADR/RID 6.1/III

UN 1710

G.R.**Cat. No. 20058-ATO**

Assay ≥ 99.5 %
 Residue on evaporation ≤ 0.001 %
 Alkali (as NaOH) ≤ 0.005 %
 Acids (as HCl) ≤ 0.001 %
 May contain stabilizer

Order number	Quantity
20058-ATO-M1000	1000 ml

pure**Cat. No. 20058-CTO**

Assay ≥ 98 %
 May contain stabilizer

Order number	Quantity
20058-CTO-M1000	1000 ml

Trichloromethane, see Chloroform – page 46

Triethanolamine

 $C_6H_{15}NO_3$ (HOCH₂CH₂)₃N

M, 149.19

CAS: 102-71-6

EINECS: 203-049-8

1l~1.12 kg

melting point 21 °C

boiling point 360 °C

colourless to light yellow syrupy liquid or

solid, hygroscopic, light sensitive

miscible with water, easily soluble in

alcohol and acetone

Use: production of cosmetics, pharmaceutical productions

R: 36/37/38

S: 2-26-36-46

RTECS: KL9275000

G.R.**Cat. No. 40158-ATO**

Assay ≥ 99 %
 Cl ≤ 0.012 %
 Pb ≤ 0.0005 %
 Fe ≤ 0.0001 %

Order number	Quantity
40158-ATO-M1000	1000 ml

pure**Cat. No. 40158-CTO**

Assay ≥ 97 %

Order number	Quantity
40158-CTO-M1000	1000 ml

Triethylamine

$C_6H_{15}N$
 $(C_2H_5)_3N$
 M, 101.19
 CAS: 121-44-8
 EINECS: 204-469-4

1l~0.73 kg
 melting point $-115\text{ }^\circ\text{C}$
 boiling point $88\text{--}90\text{ }^\circ\text{C}$
 clear, colourless or light yellowish liquid
 readily miscible with water and alcohol

Use: buffering reagent, organic syntheses



R: 11-20/21/22-35
 S: 1/2-3-16-26-29-
 -36/37/39-45
 RTECS: YE0175000
 UN 1296

ADR/RID 3/II

pure

Cat. No. 20057-CTO

Assay $\geq 98\%$
 n_D^{20} 1.400–1.402

Order number	Quantity
20057-CTO-M1000	1000 ml

Trilon A, see Nitriolotriacetic acid – page 123

2,2,4-Trimethylpentane, see Isooctane – page 95

Tris(hydroxymethyl)aminomethane

$C_4H_{11}NO_3$
 $NH_2C(CH_2OH)_3$
 M, 121.14
 CAS: 77-86-1
 EINECS: 201-064-4
 melting point $160\text{--}170\text{ }^\circ\text{C}$
 boiling point $219\text{--}220\text{ }^\circ\text{C}$
 colourless crystals or white powder
 easily soluble in water and alcohol

Use: analytical reagent – e.g. acidimetric standard, organic syntheses



R: 36/38
 S: 2-26-36-46
 RTECS: TY2900000

pure

Cat. No. 40159-CP0

Assay $\sim 98\%$
 Melting point (on dried subst.) $160\text{--}170\text{ }^\circ\text{C}$

Order number	Quantity
40159-CP0-G0100	100 g
40159-CP0-G0250	250 g
40159-CP0-G1000	1000 g

TWEEN 20

CAS: 9005-64-5
 EINECS: 294-352-4
 1l~1.10 kg
 boiling point $> 100\text{ }^\circ\text{C}$
 yellowish to brown-yellow oily liquid, clear
 or slightly opalescent
 miscible with water and alcohol

Use: pharmaceutical productions (emulsifier, surfactant), production of cosmetics

RTECS: WG2931000

pharm.

Cat. No. 40161-FT0

Polysorbatum 20

Order number	Quantity
40161-FT0-G0500	500 g

TWEEN

TWEEN 40

CAS: 9005-66-7
EINECS: 247-568-8
1l~1.10 kg
oily, light yellowish liquid or gel-like transparent material
miscible with water and alcohol

Use: pharmaceutical productions (emulsifier, surfactant), production of cosmetics

RTECS: WG2933000

pharm.
Cat. No. 40162-FTO
Polysorbatum 40

Order number	Quantity
40162-FTO-G0100	100 g

TWEEN 60

CAS: 9005-67-8
EINECS: 215-664-9
1l~1.10 kg
boiling point > 100 °C
yellow-brown gel-like material
miscible with water and alcohol

Use: pharmaceutical productions (emulsifier, surfactant), production of cosmetics

RTECS: WG2934000

pharm.
Cat. No. 40163-FPO
Polysorbatum 60

Order number	Quantity
40163-FPO-G0100	100 g

TWEEN 80

CAS: 9005-65-6
EINECS: 215-665-4
1l~1.10 kg
boiling point > 100 °C
clear, yellowish or brown-yellow oily liquid
miscible with water and alcohol

Use: pharmaceutical productions (emulsifier, surfactant), production of cosmetics

RTECS: WG2932500

pharm.
Cat. No. 40164-FTO
Polysorbatum 80

Order number	Quantity
40164-FTO-G0500	500 g

T

Unguent simple

spec. stor. cond. 5–15 °C
white or yellowish white paste
insoluble in water, soluble in chloroform

Use: pharmaceutical productions (preparation of unguent)

pharm.
Cat. No. 40129-FPO
Unguentum simplex

Order number	Quantity
40129-FPO-G0500	500 g
40129-FPO-G1000	1000 g

Urea

CH₄N₂O
NH₂CONH₂
M, 60.06
CAS: 57-13-6
EINECS: 200-315-5
melting point 133–135 °C
colourless crystals or white powder
easily soluble in water

Use: analytical reagent for the determination of carbohydrates, reversible denaturant for proteins, preparation of buffers, pharmaceutical productions

S: 22-24/25
RTECS: YR6250000

G.R.
Cat. No. 40096-AP0
Assay ≥ 99.5 %
Ash ≤ 0.03 %
Cl ≤ 0.002 %
SO₄ ≤ 0.005 %
Heavy metals (as Pb) ≤ 0.0005 %
Fe ≤ 0.0005 %

Order number	Quantity
40096-AP0-G1000	1000 g

pure
Cat. No. 40096-CPO
Assay ≥ 99 %

Order number	Quantity
40096-CPO-G1000	1000 g

pharm.
Cat. No. 40096-FPO
Urea

Order number	Quantity
40096-FPO-G1000	1000 g

V

Vaseline white

CAS: 8009-03-8
 EINECS: 232-373-2
 white or greenish easily spreadable material
 insoluble in water and alcohol, readily soluble in ether

Use: pharmaceutical productions

pharm.
Cat. No. 40165-FPO
 Vaseline album

Order number	Quantity
40165-FPO-G1000	1000 g

Vaseline yellow

CAS: 8009-03-8
 EINECS: 232-373-2
 yellow transparent spreadable material
 insoluble in water and alcohol, easily soluble in dichloromethane

Use: pharmaceutical productions

pharm.
Cat. No. 40166-FPO
 Vaseline flavum

Order number	Quantity
40166-FPO-G1000	1000 g

Water

H₂O
 M, 18.02
 CAS: 7732-18-5
 EINECS: 231-791-2
 1l~1 kg
 melting point 0 °C
 boiling point 100 °C
 clear, colourless liquid
 miscible with alcohol

Use: solvent for HPLC

RTECS: ZC0110000

for HPLC

Cat. No. 20059-LT0

Evaporation residue ≤0.0005 %
 Gradient 254 nm max. peak 2mAU

Order number	Quantity
20059-LT0-M2500	2500 ml

Wax white

Beeswax white
 CAS: 8012-89-3
 melting point 64 °C
 white or yellowish pieces or plates
 insoluble in water, soluble in fatty oils

Use: pharmaceutical productions

pharm.

Cat. No. 40171-FP0

Cera alba

Order number	Quantity
40171-FP0-G1000	1000 g

Wax yellow

Beeswax yellow
 CAS: 8012-89-3
 yellow or light brown pieces or plates
 insoluble in water, soluble in fatty oils

Use: pharmaceutical productions

pharm.

Cat. No. 40172-FP0

Cera flava

Order number	Quantity
40172-FP0-G1000	1000 g

X

Xylene (mixture of C₈H₁₀ isomers)C₈H₁₀

M, 106.17

CAS: 1330-20-7

EINECS: 215-535-7

1l~0.87 kg

melting point > -34 °C

boiling point 136–143 °C

flash point 25 °C

clear, colourless liquid

practically insoluble in water

miscible with alcohol and ether

Use: analytical solvent, microscopy,
organic syntheses



R: 10-20/21-38

S: 2-25-46

RTECS: ZE2100000

ADR/RID 3/III

UN 1307

G.R.**Cat. No. 20060-ATO**Assay of C₈H₁₀ isomers ≥ 99 %

Ethylbenzene ≤ 25 %

H₂O ≤ 0.02 %

Non-volatile substances ≤ 0.001 %

Order number	Quantity
20060-ATO-M1000	1000 ml

pure**Cat. No. 20060-CTO**

Distillation range 136–143 °C

Cloud temperature ≤ +10 °C

Order number	Quantity
20060-CTO-M1000	1000 ml

Zinc granulated

Zn
 M, 65.38
 CAS: 7440-66-6
 EINECS: 231-175-3
 melting point 419 °C
 boiling point 907 °C
 grey granule
 insoluble in water

Use: analytical reagent, e.g. for the determination of arsenic, reductant



ADR/RID 9/III

R: 50/53
 S: 60/61
 RTECS: ZG8600000
 UN 3077

G.R.**Cat. No. 30221-AP4**

Assay $\geq 99.9\%$
 As $\leq 0.00001\%$
 Fe $\leq 0.002\%$

Order number	Quantity
30221-AP4-G1000	1000 g

Zinc powder

Zn
 M, 65.38
 CAS: 7440-66-6
 EINECS: 231-175-3
 melting point 419 °C
 boiling point 907 °C
 grey powder
 insoluble in water

Use: analytical reagent, e.g. for the determination of arsenic, reductant



ADR/RID 4.3/II

R: 15-17-50/53
 S: 2-43-46-60-61
 RTECS: ZG8600000
 UN 1436

G.R.**Cat. No. 30222-AP0**

Assay $\geq 98\%$
 As $\leq 0.00001\%$
 Fe $\leq 0.005\%$

Order number	Quantity
30222-AP0-G1000	1000 g

Zinc acetate dihydrate

$C_4H_6O_4Zn \cdot 2H_2O$
 $Zn(CH_3COO)_2 \cdot 2H_2O$
 M, 219.50
 CAS: 5970-45-6
 EINECS: 209-170-2
 melting point 237 °C
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent for the determination of urobilin, albumin, tannin, esterifying catalyst



R: 22-36
 S: 2-26-36-46
 RTECS: ZG8750000

G.R.**Cat. No. 40123-AP0**

Assay $\geq 99\%$
 Subst. insoluble in H_2O $\leq 0.003\%$
 Cl $\leq 0.001\%$
 SO_4 $\leq 0.002\%$
 Fe $\leq 0.0005\%$
 Pb $\leq 0.005\%$
 Alkaline and earth alkal. metals (as SO_4) $\leq 0.1\%$

Order number	Quantity
40123-AP0-G0500	500 g
40123-AP0-G1000	1000 g

Zinc carbonate

Zinc carbonate basic

[ZnCO₃]₂·[Zn(OH)₂]₃
 M, 548.96
 CAS: 5970-47-8
 EINECS: 222-477-6
 white powder
 insoluble in water

Use: pharmaceutical industry

S: 24/25

pure

Cat. No. 30220-CPO

Assay of Zn ≥ 58 %
 Cl ≤ 0.05 %
 SO₄ ≤ 0.5 %
 Fe ≤ 0.02 %
 Pb ≤ 0.005 %

Order number	Quantity
30220-CPO-G1000	1000 g

Zinc chloride anhydrous

ZnCl₂
 M, 136.29
 CAS: 7646-85-7
 EINECS: 231-592-0
 melting point 318 °C
 boiling point 730 °C
 colourless crystals or white to almost white powder, hygroscopic
 readily soluble in water

Use: analytical reagent, dehydrating and condensing agent, catalyst (Lewis acid), production of organic dyes



R: 22-34-50/53
 S: 1/2-26-36/37/39-45-60-61

RTECS: ZH4000000

ADR/RID 8/III

UN 2331

G.R.

Cat. No. 30099-APO

Assay ≥ 98 %
 SO₄ ≤ 0.01 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30099-APO-G1000	1000 g

pure

Cat. No. 30099-CPO

Assay ≥ 98 %

Order number	Quantity
30099-CPO-G0500	500 g
30099-CPO-G1000	1000 g

Zinc nitrate hexahydrate

Zn(NO₃)₂·6H₂O
 M, 297.48
 CAS: 10196-18-6
 EINECS: 231-943-8
 melting point 36 °C
 boiling point 105 °C
 white crystals, hygroscopic
 easily soluble in water

Use: analytical reagent



R: 8-22-36/37/38-50/53

S: 2-17-26-46-61

RTECS: ZH4775000

ADR/RID 5.1/II UN 1514

G.R.

Cat. No. 30044-APO

Assay ≥ 99 %
 Cl ≤ 0.005 %
 SO₄ ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30044-APO-G0500	500 g
30044-APO-G1000	1000 g

pure

Cat. No. 30044-CPO

Assay ≥ 98 %
 Cl ≤ 0.01 %

Order number	Quantity
30044-CPO-G0500	500 g
30044-CPO-G1000	1000 g

Zinc oxide

ZnO
 M, 81.38
 CAS: 1314-13-2
 EINECS: 215-222-5
 melting point 1975 °C
 white powder
 insoluble in water

Use: analytical reagent for the determination of urobilin, pigment (zinc white), preparation of other zinc compounds, production of cosmetics, pharmaceutical productions



ADR/RID 9/III

R: 50/53
 S: 2-46-60-61
 RTECS: ZH4810000
 UN 3077

G.R.**Cat. No. 30150-AP0**

Assay ≥ 99.5 %
 Subst. insoluble in dilute H₂SO₄ ≤ 0.01 %
 Cl ≤ 0.002 %
 SO₄ ≤ 0.01 %
 Pb ≤ 0.005 %
 Fe ≤ 0.0005 %

Order number	Quantity
30150-AP0-G0500	500 g
30150-AP0-G1000	1000 g

pharm.**Cat. No. 30150-FP0**

Zinci oxidum

Order number	Quantity
30150-FP0-G1000	1000 g

Zinc sulfate heptahydrate

ZnSO₄·7H₂O
 M, 287.54
 CAS: 7446-20-0
 EINECS: 231-793-3
 melting point 40 °C
 boiling point 500 °C (decomposition)
 colourless crystals or white powder
 easily soluble in water

Use: analytical reagent, e.g. in volumetric analysis, pharmaceutical productions



ADR/RID 9/III



R: 22-41-50/53
 S: 2-22-26-39-46-60-61
 RTECS: ZH5300000
 UN 3077

G.R.**Cat. No. 30191-AP0**

Assay ≥ 99 %
 Subst. insoluble in H₂O ≤ 0.01 %
 Cl ≤ 0.005 %
 Fe ≤ 0.005 %
 Pb ≤ 0.005 %

Order number	Quantity
30191-AP0-G0500	500 g
30191-AP0-G1000	1000 g

pure**Cat. No. 30191-CP0**

Assay ≥ 99 %

Order number	Quantity
30191-CP0-G0500	500 g
30191-CP0-G1000	1000 g

pharm.**Cat. No. 30191-FP0**

Zinci sulfas heptahydricus

Order number	Quantity
30191-FP0-G0500	500 g

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II. Other Products

Standard volumetric solutions

Each ampule contains exact amount of solid or liquid chemical for preparation of 1000 ml of volumetric solution of required concentration.

Normalan – Acetic acid

$C_2H_4O_2$
M_r 60.05
CAS: 64-19-7
EINECS: 200-580-7

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



ADR/RID 8/III

R: 34
S: 1/2-23-26-45
UN 2790

1 mol/l (1 N)

Cat. No. 61019-001

Concentration 1 mol/l
Factor 0.997–1.003

Order number	Quantity
61019-001-P0000	piece



ADR/RID 8/III

R: 36/38
S: 2-23-26-46
UN 2790

0.1 mol/l (0.1 N)

Cat. No. 61019-010

Concentration 0.1 mol/l
Factor 0.997–1.003

Order number	Quantity
61019-010-P0000	piece

Normalan – Ammonium iron(II) sulfate hexahydrate

$(NH_4)_2Fe(SO_4)_2 \cdot 6H_2O$
M_r 392.14
CAS: 7783-85-9
EINECS: 233-151-8

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



ADR/RID 8/III

R: 36/37/38
S: 2-26-36-46

0.25 mol/l (0.25 N)

Cat. No. 61023-004

Concentration 0.25 mol/l
Factor 0.998–1.002

Order number	Quantity
61023-004-P0000	piece

0.1 mol/l (0.1 N)

Cat. No. 61023-010

Concentration 0.1 mol/l
Factor 0.998–1.002

Order number	Quantity
61023-010-P0000	piece

Normalan – Ammonium thiocyanate

NH_4SCN
M_r 76.12
CAS: 1762-95-4
EINECS: 217-175-6

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



ADR/RID 8/III

R: 20/21/22-32-52/53
S: 2-13-46-61

0.1 mol/l (0.1 N)

Cat. No. 61025-010

Concentration 0.1 mol/l
Factor 0.998–1.002

Order number	Quantity
61025-010-P0000	piece

Normanal – Barium chloride dihydrate

BaCl₂·2H₂O
M, 244.28
CAS: 10326-27-9
EINECS: 233-788-1

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



ADR/RID 6.1/II

R: 20-25

S: 1/2-45

UN 1564

0.05 mol/l (0.1 N)

Cat. No. 61011-020

Concentration 0.05 mol/l
Factor 0.997–1.003

Order number	Quantity
61011-020-P0000	piece

Normanal – Complexone III

C₁₀H₁₄N₂Na₂O₈·2H₂O
M, 372.24
CAS: 6381-92-6
EINECS: 205-358-3

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



R: 22-36/37/38

S: 2-26-36-46

0.1 mol/l

Cat. No. 61010-010

Concentration 0.1 mol/l
Factor 0.998–1.002

Order number	Quantity
61010-010-P0000	piece

0.05 mol/l

Cat. No. 61010-020

Concentration 0.05 mol/l
Factor 0.998–1.002

Order number	Quantity
61010-020-P0000	piece

0.01 mol/l

Cat. No. 61010-100

Concentration 0.01 mol/l
Factor 0.996–1.004

Order number	Quantity
61010-100-P0000	piece

Normanal – Hydrochloric acid

HCl
M, 36.46
CAS: 7647-01-0
EINECS: 231-595-7

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



ADR/RID 8/III

R: 36/37/38

S: 2-26-46

UN 1789

1 mol/l (1 N)

Cat. No. 61018-001

Concentration 1 mol/l
Factor 0.998–1.002

Order number	Quantity
61018-001-P0000	piece

0.5 mol/l (0.5 N)

Cat. No. 61018-002

Concentration 0.5 mol/l
Factor 0.998–1.002

Order number	Quantity
61018-002-P0000	piece

0.25 mol/l (0.25 N)

Cat. No. 61018-004

Concentration 0.25 mol/l
Factor 0.998–1.002

Order number	Quantity
61018-004-P0000	piece

0.2 mol/l (0.2 N)

Cat. No. 61018-005

Concentration 0.2 mol/l
Factor 0.998–1.002

Order number	Quantity
61018-005-P0000	piece

Normanal – Hydrochloric acid

S: 26

0.1 mol/l (0.1 N)

Cat. No. 61018-010

Concentration 0.1 mol/l
Factor 0.998–1.002

Order number	Quantity
61018-010-P0000	piece

0.05 mol/l (0.05 N)

Cat. No. 61018-020

Concentration 0.05 mol/l
Factor 0.998–1.002

Order number	Quantity
61018-020-P0000	piece

0.01 mol/l (0.01 N)

Cat. No. 61018-100

Concentration 0.01 mol/l
Factor 0.996–1.004

Order number	Quantity
61018-100-P0000	piece

Normanal – Lead(II) nitrate

Pb(NO₃)₂

M_r 331.20

CAS: 10099-74-8

EINECS: 233-245-9

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



R: 8-20/22-33-50/53-61-62

S: 1/2-17-45-53-60-61

ADR/RID 5.1/II UN 1469

0.05 mol/l (0.1 N)

Cat. No. 61005-020

Concentration 0.05 mol/l
Factor 0.998–1.002

Order number	Quantity
61005-020-P0000	piece

Normanal – Magnesium sulfate heptahydrate

MgSO₄·7H₂O

M_r 246.48

CAS: 10034-99-8

EINECS: 231-299-8

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions

S: 22-24/25

0.05 mol/l (0.1 N)

Cat. No. 61024-020

Concentration 0.05 mol/l
Factor 0.998–1.002

Order number	Quantity
61024-020-P0000	piece

0.01 mol/l (0.02 N)

Cat. No. 61024-100

Concentration 0.01 mol/l
Factor 0.996–1.004

Order number	Quantity
61024-100-P0000	piece

0.005 mol/l (0.01 N)

Cat. No. 61024-200

Concentration 0.005 mol/l
Factor 0.996–1.004

Order number	Quantity
61024-200-P0000	piece

Normanal – Mercury(II) nitrate hydrate

Hg(NO₃)₂·aq
 M, 324.60 + aq
 CAS: 7783-34-8
 EINECS: 233-152-3

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



R: 26/27/28-33-50/53
 S: 1/2-13-28-45-60-61
 UN 1625

ADR/RID 6.1/II

0.05 mol/l (0.1 N)

Cat. No. 61006-020

Concentration 0.05 mol/l
 Factor 0.998–1.002

Order number	Quantity
61006-020-P0000	piece

Normanal – Nitric acid

HNO₃
 M, 63.01
 CAS: 7697-37-2
 EINECS: 231-714-2

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



R: 35
 S: 1/2-23-26-36-45
 UN 2031

ADR/RID 8/II

1 mol/l (1 N)

Cat. No. 61017-001

Concentration 1 mol/l
 Factor 0.998–1.002

Order number	Quantity
61017-001-P0000	piece



R: 34
 S: 1/2-23-26-36-45
 UN 2031

ADR/RID 8/II

0.1 mol/l (0.1 N)

Cat. No. 61017-010

Concentration 0.1 mol/l
 Factor 0.998–1.002

Order number	Quantity
61017-010-P0000	piece

Normanal – Oxalic acid

$C_2H_2O_4 \cdot 2H_2O$
 M_r 126.07
 CAS: 6153-56-6
 EINECS: 205-634-3

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



ADR/RID 8/II

R: 21/22
 S: 2-24/25-46
 UN 1759

0.5 mol/l (1 N)

Cat. No. 61021-002

Concentration 0.5 mol/l
 Factor 0.998–1.002

Order number	Quantity
61021-002-P0000	piece

0.1 mol/l (0.2 N)

Cat. No. 61021-010

Concentration 0.1 mol/l
 Factor 0.998–1.002

Order number	Quantity
61021-010-P0000	piece

0.05 mol/l (0.1 N)

Cat. No. 61021-020

Concentration 0.05 mol/l
 Factor 0.998–1.002

Order number	Quantity
61021-020-P0000	piece

0.025 mol/l (0.05 N)

Cat. No. 61021-040

Concentration 0.025 mol/l
 Factor 0.998–1.002

Order number	Quantity
61021-040-P0000	piece

0.005 mol/l (0.01 N)

Cat. No. 61021-200

Concentration 0.005 mol/l
 Factor 0.996–1.004

Order number	Quantity
61021-200-P0000	piece

Normanal – Potassium bromate

$KBrO_3$
 M_r 167.01
 CAS: 7758-01-2
 EINECS: 231-829-8

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



ADR/RID 5.1/II

R: 45-9-25
 S: 1/2-53-45
 UN 1484

1/60 mol/l (0.1 N)

Cat. No. 61001-060

Concentration 1/60 mol/l
 Factor 0.996–1.004

Order number	Quantity
61001-060-P0000	piece

Normanal – Potassium bromide

KBr
 M_r 119.01
 CAS: 7758-02-3
 EINECS: 231-830-3

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions

0.1 mol/l (0.1 N)

Cat. No. 61002-010

Concentration 0.1 mol/l
 Factor 0.998–1.002

Order number	Quantity
61002-010-P0000	piece

Normanal – Potassium bromide-bromate

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



R: 45-9-25
S: 1/2-53-45

ADR/RID 5.1/II UN 1484

1/60 mol/l (0.1 N)

Cat. No. 61003-060

Concentration 1/60 mol/l
Factor 0.996–1.004

Order number	Quantity
61003-060-P0000	piece

Normanal – Potassium dichromate

$K_2Cr_2O_7$
M, 294.19
CAS: 7778-50-9
EINECS: 231-906-6

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



R: 45-46-60-61-8-21-25-26-34-42/43-48/23-50/53

S: 1/2-45-53-60-61

ADR/RID 6.1/II UN 3086

1/6 mol/l (1 N)

Cat. No. 61004-006

Concentration 1/6 mol/l
Factor 0.998–1.002

Order number	Quantity
61004-006-P0000	piece

1/12 mol/l (0.5 N)

Cat. No. 61004-012

Concentration 1/12 mol/l
Factor 0.998–1.002

Order number	Quantity
61004-012-P0000	piece

1/60 mol/l (0.1 N)

Cat. No. 61004-060

Concentration 1/60 mol/l
Factor 0.996–1.004

Order number	Quantity
61004-060-P0000	piece

1/120 mol/l (0.05 N)

Cat. No. 61004-120

Concentration 1/120 mol/l
Factor 0.996–1.004

Order number	Quantity
61004-120-P0000	piece

1/600 mol/l (0.01 N)

Cat. No. 61004-600

Concentration 1/600 mol/l
Factor 0.996–1.004

Order number	Quantity
61004-600-P0000	piece

Normanal – Potassium hydroxide

KOH
M, 56.11
CAS: 1310-58-3
EINECS: 215-181-3

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



R: 22-35
S: 1/2-26-36/37/39-45

ADR/RID 8/II UN 1814

1 mol/l (1 N)

Cat. No. 61008-001

Concentration 1 mol/l
Factor 0.998–1.002

Order number	Quantity
61008-001-P0000	piece

Normanal – Potassium hydroxide



ADR/RID 8/III

R: 35
S: 1/2-26-36/37/39-45
UN 1814

0.5 mol/l (0.5 N)

Cat. No. 61008-002

Concentration 0.5 mol/l
Factor 0.998–1.002

Order number	Quantity
61008-002-P0000	piece

0.2 mol/l (0.2 N)

Cat. No. 61008-005

Concentration 0.2 mol/l
Factor 0.998–1.002

Order number	Quantity
61008-005-P0000	piece

0.1 mol/l (0.1 N)

Cat. No. 61008-010

Concentration 0.1 mol/l
Factor 0.998–1.002

Order number	Quantity
61008-010-P0000	piece

0.01 mol/l (0.01 N)

Cat. No. 61008-100

Concentration 0.01 mol/l
Factor 0.996–1.004

Order number	Quantity
61008-100-P0000	piece

Normanal – Potassium chloride

KCl
M_r 74.56
CAS: 7447-40-7
EINECS: 231-211-8

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions

1 mol/l (1 N)

Cat. No. 61012-001

Concentration 1 mol/l
Factor 0.998–1.002

Order number	Quantity
61012-001-P0000	piece

0.1 mol/l (0.1 N)

Cat. No. 61012-010

Concentration 0.1 mol/l
Factor 0.998–1.002

Order number	Quantity
61012-010-P0000	piece

Normanal – Potassium iodate

KIO₃
M_r 214.00
CAS: 7758-05-6
EINECS: 231-831-9

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



ADR/RID 5.1/II

R: 8-22-42/43
S: 2-17-36/37/39-46
UN 1479

1/60 mol/l (0.1 N)

Cat. No. 61014-060

Concentration 1/60 mol/l
Factor 0.996–1.004

Order number	Quantity
61014-060-P0000	piece

Normanal – Potassium iodide

KI
M_r 166.01
CAS: 7681-11-0
EINECS: 231-659-4

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions

0.1 mol/l (0.1 N)

Cat. No. 61015-010

Concentration 0.1 mol/l
Factor 0.998–1.002

Order number	Quantity
61015-010-P0000	piece

Normanal – Potassium iodide-iodate

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



R: 8-22-42/43
S: 2-17-36/37/39-46
UN 1479

ADR/RID 5.1/II

1/60 mol/l (0.1 N)

Cat. No. 61016-060

Concentration 1/60 mol/l
Factor 0.996–1.004

Order number	Quantity
61016-060-P0000	piece

Normanal – Potassium permanganate

KMnO₄
M, 158.04
CAS: 7722-64-7
EINECS: 231-760-3

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



R: 8-22-50/53
S: 2-46-60-61
ADR/RID 5.1/II UN 1490

0.2 mol/l (1 N)

Cat. No. 61022-050

Concentration 0.2 mol/l
Factor 0.998–1.002

Order number	Quantity
61022-005-P0000	piece

0.02 mol/l (0.1 N)

Cat. No. 61022-050

Concentration 0.02 mol/l
Factor 0.998–1.002

Order number	Quantity
61022-050-P0000	piece

0.002 mol/l (0.01 N)

Cat. No. 61022-500

Concentration 0.002 mol/l
Factor 0.996–1.004

Order number	Quantity
61022-500-P0000	piece

Normanal – Silver nitrate

AgNO₃
M, 169.88
CAS: 7761-88-8
EINECS: 231-853-9

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



R: 34-50/53
S: 1/2-26-45-60-61
UN 1493

ADR/RID 5.1/II

1 mol/l (1 N)

Cat. No. 61007-001

Concentration 1 mol/l
Factor 0.998–1.002

Order number	Quantity
61007-001-P0000	piece

0.5 mol/l (0.5 N)

Cat. No. 61007-002

Concentration 0.5 mol/l
Factor 0.998–1.002

Order number	Quantity
61007-002-P0000	piece

0.1 mol/l (0.1 N)

Cat. No. 61007-010

Concentration 0.1 mol/l
Factor 0.998–1.002

Order number	Quantity
61007-010-P0000	piece

0.01 mol/l (0.01 N)

Cat. No. 61007-100

Concentration 0.01 mol/l
Factor 0.996–1.004

Order number	Quantity
61007-100-P0000	piece

Normanal – Sodium carbonate anhydrous

Na₂CO₃
 M_r 105.99
 CAS: 497-19-8
 EINECS: 207-838-8

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



R: 36
 S: 2-22-26-46

0.05 mol/l (0.1 N)

Cat. No. 61027-020

Concentration 0.05 mol/l
 Factor 0.998–1.002

Order number	Quantity
61027-020-P0000	piece

Normanal – Sodium hydroxide

NaOH
 M_r 40.00
 CAS: 1310-73-2
 EINECS: 215-185-5

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



ADR/RID 8/II

R: 35
 S: 1/2-26-37/39-45
 UN 1824

1 mol/l (1 N)

Cat. No. 61009-001

Concentration 1 mol/l
 Factor 0.998–1.002

Order number	Quantity
61009-001-P0000	piece

0.5 mol/l (0.5 N)

Cat. No. 61009-002

Concentration 0.5 mol/l
 Factor 0.998–1.002

Order number	Quantity
61009-002-P0000	piece

0.25 mol/l (0.25 N)

Cat. No. 61009-004

Concentration 0.25 mol/l
 Factor 0.998–1.002

Order number	Quantity
61009-004-P0000	piece

0.2 mol/l (0.2 N)

Cat. No. 61009-005

Concentration 0.2 mol/l
 Factor 0.998–1.002

Order number	Quantity
61009-005-P0000	piece

0.1 mol/l (0.1 N)

Cat. No. 61009-010

Concentration 0.1 mol/l
 Factor 0.998–1.002

Order number	Quantity
61009-010-P0000	piece

0.05 mol/l (0.05 N)

Cat. No. 61009-020

Concentration 0.05 mol/l
 Factor 0.998–1.002

Order number	Quantity
61009-020-P0000	piece



R: 36/38
 S: 2-26-37/39-46

0.01 mol/l (0.01 N)

Cat. No. 61009-100

Concentration 0.01 mol/l
 Factor 0.996–1.004

Order number	Quantity
61009-100-P0000	piece

Normanal – Sodium chloride

NaCl
M, 58.44
CAS: 7647-14-5
EINECS: 231-598-3

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions

1 mol/l (1 N)

Cat. No. 61013-001

Concentration 1 mol/l
Factor 0.998–1.002

Order number	Quantity
61013-001-P0000	piece

0.1 mol/l (0.1 N)

Cat. No. 61013-010

Concentration 0.1 mol/l
Factor 0.998–1.002

Order number	Quantity
61013-010-P0000	piece

Normanal – Sodium thiosulfate pentahydrate

Na₂S₂O₃·5H₂O
M, 248.18
CAS: 10102-17-7
EINECS: 231-867-5

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions

S: 22-24/25

1 mol/l (1 N)

Cat. No. 61026-001

Concentration 1 mol/l
Factor 0.998–1.002

Order number	Quantity
61026-001-P0000	piece

0.2 mol/l (0.2 N)

Cat. No. 61026-005

Concentration 0.2 mol/l
Factor 0.998–1.002

Order number	Quantity
61026-005-P0000	piece

0.1 mol/l (0.1 N)

Cat. No. 61026-010

Concentration 0.1 mol/l
Factor 0.998–1.002

Order number	Quantity
61026-010-P0000	piece

0.05 mol/l (0.05 N)

Cat. No. 61026-020

Concentration 0.05 mol/l
Factor 0.998–1.002

Order number	Quantity
61026-020-P0000	piece

0.01 mol/l (0.01 N)

Cat. No. 61026-100

Concentration 0.01 mol/l
Factor 0.996–1.004

Order number	Quantity
61026-100-P0000	piece

Normanal – Sulfuric acid

H₂SO₄
M, 98.08
CAS: 7664-93-9
EINECS: 231-639-5

Use: in analytical chemistry for preparation of standard volumetric solutions and some supporting solutions



ADR/RID 8/II

R: 35
S: 1/2-26-30-45
UN 2796

1 mol/l (2 N)

Cat. No. 61020-001

Concentration 1 mol/l
Factor 0.998–1.002

Order number	Quantity
61020-001-P0000	piece

0.5 mol/l (1 N)

Cat. No. 61020-002

Concentration 0.5 mol/l
Factor 0.998–1.002

Order number	Quantity
61020-002-P0000	piece

0.25 mol/l (0.5 N)

Cat. No. 61020-004

Concentration 0.25 mol/l
Factor 0.998–1.002

Order number	Quantity
61020-004-P0000	piece

0.125 mol/l (0.25 N)

Cat. No. 61020-008

Concentration 0.125 mol/l
Factor 0.998–1.002

Order number	Quantity
61020-008-P0000	piece

Normalal – Sulfuric acid

	R: 36/38 S: 2-26-46	0.1 mol/l (0.2 N)	<table border="1"> <thead> <tr> <th>Order number</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>61020-010-P0000</td> <td>piece</td> </tr> </tbody> </table>	Order number	Quantity	61020-010-P0000	piece
		Order number	Quantity				
		61020-010-P0000	piece				
		Cat. No. 61020-010	Concentration 0.1 mol/l Factor 0.998–1.002				
0.05 mol/l (0.1 N)	<table border="1"> <thead> <tr> <th>Order number</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>61020-020-P0000</td> <td>piece</td> </tr> </tbody> </table>	Order number	Quantity	61020-020-P0000	piece		
Order number	Quantity						
61020-020-P0000	piece						
Cat. No. 61020-020	Concentration 0.05 mol/l Factor 0.998–1.002						
		0.025 mol/l (0.05 N)	<table border="1"> <thead> <tr> <th>Order number</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>61020-040-P0000</td> <td>piece</td> </tr> </tbody> </table>	Order number	Quantity	61020-040-P0000	piece
Order number	Quantity						
61020-040-P0000	piece						
		Cat. No. 61020-040	Concentration 0.025 mol/l Factor 0.998–1.002				
		0.01 mol/l (0.02 N)	<table border="1"> <thead> <tr> <th>Order number</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>61020-100-P0000</td> <td>piece</td> </tr> </tbody> </table>	Order number	Quantity	61020-100-P0000	piece
Order number	Quantity						
61020-100-P0000	piece						
		Cat. No. 61020-100	Concentration 0.01 mol/l Factor 0.996–1.004				
		0.005 mol/l (0.01 N)	<table border="1"> <thead> <tr> <th>Order number</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>61020-200-P0000</td> <td>piece</td> </tr> </tbody> </table>	Order number	Quantity	61020-200-P0000	piece
Order number	Quantity						
61020-200-P0000	piece						
		Cat. No. 61020-200	Concentration 0.005 mol/l Factor 0.996–1.004				

Solutions & reagents FINISHED STANDARD SOLUTIONS

Acetic acid, water solution

$C_2H_4O_2$
M, 60.05
CAS: 64-19-7
EINECS: 200-580-7

Use: in analytical chemistry

S: 26

1 mol/l (N/1)

Cat. No. 62019-001

Concentration 1 mol/l
Factor 0.97–1.03

Order number	Quantity
62019-001-M1000	1000 ml
62019-001-L0010	10 l

0.1 mol/l (N/10)

Cat. No. 62019-010

Concentration 0.1 mol/l
Factor 0.97–1.03

Order number	Quantity
62019-010-M1000	1000 ml
62019-010-L0010	10 l

Barium chloride dihydrate, water solution

$BaCl_2 \cdot 2H_2O$
M, 244.28
CAS: 10326-27-9
EINECS: 233-788-1

Use: in analytical chemistry

0.05 mol/l (N/10)

Cat. No. 62011-020

Concentration 0.05 mol/l
Factor 0.97–1.03

Order number	Quantity
62011-020-M1000	1000 ml
62011-020-L0010	10 l

Complexone III, water solution

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$
M, 372.24
CAS: 6381-92-6
EINECS: 205-358-3

Use: in analytical chemistry

0.1 mol/l

Cat. No. 62010-010

Concentration 0.1 mol/l
Factor 0.97–1.03

Order number	Quantity
62010-010-M1000	1000 ml
62010-010-L0010	10 l

0.05 mol/l

Cat. No. 62010-020

Concentration 0.05 mol/l
Factor 0.97–1.03

Order number	Quantity
62010-020-M1000	1000 ml
62010-020-L0010	10 l

0.01 mol/l

Cat. No. 62010-100

Concentration 0.01 mol/l
Factor 0.97–1.03

Order number	Quantity
62010-100-M1000	1000 ml
62010-100-L0010	10 l

Hydrochloric acid, water solution

HCl
M, 36.46
CAS: 7647-01-0
EINECS: 231-595-7

1 mol/l (N/1)

Cat. No. 62018-001

Concentration 1 mol/l
Factor 0.97–1.03

Order number	Quantity
62018-001-M1000	1000 ml
62018-001-L0010	10 l

Hydrochloric acid, water solution

Use: in analytical chemistry

S: 26

0.5 mol/l (N/2)

Cat. No. 62018-002

Concentration 0.5 mol/l
Factor 0.97–1.03

Order number	Quantity
62018-002-M1000	1000 ml
62018-002-L0010	10 l

0.25 mol/l (N/4)

Cat. No. 62018-004

Concentration 0.25 mol/l
Factor 0.97–1.03

Order number	Quantity
62018-004-M1000	1000 ml
62018-004-L0010	10 l

0.2 mol/l (N/5)

Cat. No. 62018-005

Concentration 0.2 mol/l
Factor 0.97–1.03

Order number	Quantity
62018-005-M1000	1000 ml
62018-005-L0010	10 l

0.1 mol/l (N/10)

Cat. No. 62018-010

Concentration 0.1 mol/l
Factor 0.97–1.03

Order number	Quantity
62018-010-M1000	1000 ml
62018-010-L0010	10 l

0.05 mol/l (N/20)

Cat. No. 62018-020

Concentration 0.05 mol/l
Factor 0.97–1.03

Order number	Quantity
62018-020-M1000	1000 ml
62018-020-L0010	10 l

0.01 mol/l (N/100)

Cat. No. 62018-100

Concentration 0.01 mol/l
Factor 0.97–1.03

Order number	Quantity
62018-100-M1000	1000 ml
62018-100-L0010	10 l

Lead(II) nitrate, water solution

Pb(NO₃)₂

M, 331.20

CAS: 10099-74-8

EINECS: 233-245-9

Use: in analytical chemistry



R: 61-20/22-33-51/53-62

S: 1/2-53-45-60-61

ADR/RID 5.1/II

UN 1469

0.05 mol/l (N/10)

Cat. No. 62005-020

Concentration 0.05 mol/l
Factor 0.97–1.03

Order number	Quantity
62005-020-M1000	1000 ml
62005-020-L0010	10 l

Magnesium sulfate heptahydrate, water solution

MgSO₄·7H₂O

M, 246.48

CAS: 10034-99-8

EINECS: 231-299-8

Use: in analytical chemistry

0.01 mol/l (N/100)

Cat. No. 62024-100

Concentration 0.01 mol/l
Factor 0.97–1.03

Order number	Quantity
62024-100-M1000	1000 ml
62024-100-L0010	10 l

Mercury(II) nitrate hydrate, water solution

Hg(NO₃)₂·aq
M, 324.60 + aq
CAS: 7783-34-8
EINECS: 233-152-3

Use: in analytical chemistry



R: 23/24/25-33-52/53
S: 1/2-13-28-45-60-61
UN 1625

ADR/RID 6.1/II

0.05 mol/l (N/10)

Cat. No. 62006-020

Concentration 0.05 mol/l
Factor 0.97–1.03

Order number	Quantity
62006-020-M1000	1000 ml
62006-020-L0010	10 l

Nitric acid, water solution

HNO₃
M, 63.01
CAS: 7647-01-0
EINECS: 231-595-7

Use: in analytical chemistry



R: 34
S: 1/2-23-26-36-45
UN 2031

ADR/RID 8/II

1 mol/l (N/1)

Cat. No. 62017-001

Concentration 1 mol/l
Factor 0.97–1.03

Order number	Quantity
62017-001-M1000	1000 ml
62017-001-L0010	10 l

S: 26

0.1 mol/l (N/10)

Cat. No. 62017-010

Concentration 0.1 mol/l
Factor 0.97–1.03

Order number	Quantity
62017-010-M1000	1000 ml
62017-010-L0010	10 l

Oxalic acid dihydrate, water solution

C₂H₂O₄·2H₂O
M, 126.07
CAS: 6153-56-6
EINECS: 205-634-3

Use: in analytical chemistry

S: 24/25

0.125 mol/l (N/4)

Cat. No. 62021-008

Concentration 0.125 mol/l
Factor 0.97–1.03

Order number	Quantity
62021-008-M1000	1000 ml
62021-008-L0010	10 l

0.1 mol/l (N/5)

Cat. No. 62021-010

Concentration 0.1 mol/l
Factor 0.97–1.03

Order number	Quantity
62021-010-M1000	1000 ml
62021-010-L0010	10 l

0.05 mol/l (N/10)

Cat. No. 62021-020

Concentration 0.05 mol/l
Factor 0.97–1.03

Order number	Quantity
62021-020-M1000	1000 ml
62021-020-L0010	10 l

Oxalic acid dihydrate, water solution

0.025 mol/l (N/20)

Cat. No. 62021-040

Concentration 0.025 mol/l
Factor 0.97–1.03

Order number	Quantity
62021-040-M1000	1000 ml
62021-040-L0010	10 l

0.005 mol/l (N/100)

Cat. No. 62021-200

Concentration 0.005 mol/l
Factor 0.97–1.03

Order number	Quantity
62021-200-M1000	1000 ml
62021-200-L0010	10 l

Potassium bromate, water solution

KBrO_3

M_r 167.01

CAS: 7758-01-2

EINECS: 231-829-8

Use: in analytical chemistry

1/60 mol/l (N/10)

Cat. No. 62001-060

Concentration 1/60 mol/l
Factor 0.97–1.03

Order number	Quantity
62001-060-M1000	1000 ml
62001-060-L0010	10 l

Potassium dichromate, water solution

$\text{K}_2\text{Cr}_2\text{O}_7$

M_r 294.19

CAS: 7778-50-9

EINECS: 231-906-6

Use: in analytical chemistry



R: 45-46-60-61-22-23-36/37/38-42/43-48/20-51/53

S: 1/2-53-45-60-61

ADR/RID 6.1/II UN 3086

1/6 mol/l (N/1)

Cat. No. 62004-006

Concentration 1/6 mol/l
Factor 0.97–1.03

Order number	Quantity
62004-006-M1000	1000 ml
62004-006-L0010	10 l

1/12 mol/l (N/2)

Cat. No. 62004-012

Concentration 1/12 mol/l
Factor 0.97–1.03

Order number	Quantity
62004-012-M1000	1000 ml
62004-012-L0010	10 l



R: 45-46-60-61-23-42/43-48/20-52/53

S: 1/2-53-45-60-61

ADR/RID 6.1/II UN 3086

1/24 mol/l (N/4)

Cat. No. 62004-024

Concentration 1/24 mol/l
Factor 0.97–1.03

Order number	Quantity
62004-024-M1000	1000 ml
62004-024-L0010	10 l

1/60 mol/l (N/10)

Cat. No. 62004-060

Concentration 1/60 mol/l
Factor 0.97–1.03

Order number	Quantity
62004-060-M1000	1000 ml
62004-060-L0010	10 l

1/120 mol/l (N/20)

Cat. No. 62004-120

Concentration 1/120 mol/l
Factor 0.97–1.03

Order number	Quantity
62004-120-M1000	1000 ml
62004-120-L0010	10 l

1/600 mol/l (N/100)

Cat. No. 62004-600

Concentration 1/600 mol/l
Factor 0.97–1.03

Order number	Quantity
62004-600-M1000	1000 ml
62004-600-L0010	10 l

Potassium hydroxide, water solution

KOH
M, 56.11
CAS: 1310-58-3
EINECS: 215-181-3

Use: in analytical chemistry



ADR/RID 8/III

R: 35
S: 1/2-26-36/37/39-45
UN 1814

1 mol/l (N/1)

Cat. No. 62008-001

Concentration 1 mol/l
Factor 0.97–1.03

Order number	Quantity
62008-001-M1000	1000 ml
62008-001-L0010	10 l



R: 36/38
S: 2-26-36/37/39-46

0.5 mol/l (N/2)

Cat. No. 62008-002

Concentration 0.5 mol/l
Factor 0.97–1.03

Order number	Quantity
62008-002-M1000	1000 ml
62008-002-L0010	10 l

0.1 mol/l (N/10)

Cat. No. 62008-010

Concentration 0.1 mol/l
Factor 0.97–1.03

Order number	Quantity
62008-010-M1000	1000 ml
62008-010-L0010	10 l

0.05 mol/l (N/20)

Cat. No. 62008-020

Concentration 0.05 mol/l
Factor 0.97–1.03

Order number	Quantity
62008-020-M1000	1000 ml
62008-020-L0010	10 l

Potassium chloride, water solution

KCl
M, 74.56
CAS: 7447-40-7
EINECS: 231-211-8

Use: in analytical chemistry

1 mol/l (N/1)

Cat. No. 62012-001

Concentration 1 mol/l
Factor 0.97–1.03

Order number	Quantity
62012-001-M1000	1000 ml
62012-001-L0010	10 l

0.1 mol/l (N/10)

Cat. No. 62012-010

Concentration 0.1 mol/l
Factor 0.97–1.03

Order number	Quantity
62012-010-M1000	1000 ml
62012-010-L0010	10 l

Potassium iodate, water solution

KIO₃
M, 214.00
CAS: 7758-05-6
EINECS: 231-831-9

Use: in analytical chemistry

1/60 mol/l (N/10)

Cat. No. 62014-060

Concentration 1/60 mol/l
Factor 0.97–1.03

Order number	Quantity
62014-060-M1000	1000 ml
62014-060-L0010	10 l

Potassium iodide, water solution

KI
M, 166.01
CAS: 7681-11-0
EINECS: 231-659-4

0.1 mol/l (N/10)

Cat. No. 62015-010

Concentration 0.1 mol/l
Factor 0.97–1.03

Order number	Quantity
62015-010-M1000	1000 ml
62015-010-L0010	10 l

Use: in analytical chemistry

Potassium permanganate, water solution

KMnO₄
M, 158.04
CAS: 7722-64-7
EINECS: 231-760-3

0.02 mol/l (N/10)

Cat. No. 62022-050

Concentration 0.02 mol/l
Factor 0.97–1.03

Order number	Quantity
62022-050-M1000	1000 ml
62022-050-L0010	10 l

Use: in analytical chemistry

R: 52/53
S: 61

Silver nitrate, water solution

AgNO₃
M, 169.88
CAS: 7761-88-8
EINECS: 231-853-9

1 mol/l (N/1)

Cat. No. 62007-001

Concentration 1 mol/l
Factor 0.97–1.03

Order number	Quantity
62007-001-M1000	1000 ml
62007-001-L0010	10 l

Use: in analytical chemistry



R: 34-51/53
S: 1/2-26-45-60-61
UN 1760

ADR/RID 8/II

0.5 mol/l (N/2)

Cat. No. 62007-002

Concentration 0.5 mol/l
Factor 0.97–1.03

Order number	Quantity
62007-002-M1000	1000 ml
62007-002-L0010	10 l

R: 52/53
S: 61

0.1 mol/l (N/10)

Cat. No. 62007-010

Concentration 0.1 mol/l
Factor 0.97–1.03

Order number	Quantity
62007-010-M1000	1000 ml
62007-010-L0010	10 l

0.05 mol/l (N/20)

Cat. No. 62007-020

Concentration 0.05 mol/l
Factor 0.97–1.03

Order number	Quantity
62007-020-M1000	1000 ml
62007-020-L0010	10 l

0.01 mol/l (N/100)

Cat. No. 62007-100

Concentration 0.01 mol/l
Factor 0.97–1.03

Order number	Quantity
62007-100-M1000	1000 ml
62007-100-L0010	10 l

Sodium hydroxide, water solution

NaOH
M, 40.00
CAS: 1310-73-2
EINECS: 215-185-5

Use: in analytical chemistry



R: 34
S: 1/2-26-37/39-45
UN 1824

ADR/RID 8/III

1 mol/l (N/1)

Cat. No. 62009-001

Concentration 1 mol/l
Factor 0.97–1.03

Order number	Quantity
62009-001-M1000	1000 ml
62009-001-L0010	10 l

0.5 mol/l (N/2)

Cat. No. 62009-002

Concentration 0.5 mol/l
Factor 0.97–1.03

Order number	Quantity
62009-002-M1000	1000 ml
62009-002-L0010	10 l

0.25 mol/l (N/4)

Cat. No. 62009-004

Concentration 0.25 mol/l
Factor 0.97–1.03

Order number	Quantity
62009-004-M1000	1000 ml
62009-004-L0010	10 l

0.2 mol/l (N/5)

Cat. No. 62009-005

Concentration 0.2 mol/l
Factor 0.97–1.03

Order number	Quantity
62009-005-M1000	1000 ml
62009-005-L0010	10 l

S: 26

0.1 mol/l (N/10)

Cat. No. 62009-010

Concentration 0.1 mol/l
Factor 0.97–1.03

Order number	Quantity
62009-010-M1000	1000 ml
62009-010-L0010	10 l

0.05 mol/l (N/20)

Cat. No. 62009-020

Concentration 0.05 mol/l
Factor 0.97–1.03

Order number	Quantity
62009-020-M1000	1000 ml
62009-020-L0010	10 l

0.01 mol/l (N/100)

Cat. No. 62009-100

Concentration 0.01 mol/l
Factor 0.97–1.03

Order number	Quantity
62009-100-M1000	1000 ml
62009-100-L0010	10 l

Sodium chloride, water solution

NaCl
M, 58.44
CAS: 7647-14-5
EINECS: 231-598-3

Use: in analytical chemistry

1 mol/l (N/1)

Cat. No. 62013-001

Concentration 1 mol/l
Factor 0.97–1.03

Order number	Quantity
62013-001-M1000	1000 ml
62013-001-L0010	10 l

0.1 mol/l (N/10)

Cat. No. 62013-010

Concentration 0.1 mol/l
Factor 0.97–1.03

Order number	Quantity
62013-010-M1000	1000 ml
62013-010-L0010	10 l

Sodium thiosulfate pentahydrate, water solution

Na₂S₂O₃·5H₂O
 M, 248.18
 CAS: 10102-17-7
 EINECS: 231-867-5

Use: in analytical chemistry

S: 24/25

0.1 mol/l (N/10)

Cat. No. 62026-010

Concentration 0.1 mol/l
 Factor 0.97–1.03

Order number	Quantity
62026-010-M1000	1000 ml
62026-010-L0010	10 l

Sulfuric acid, water solution

H₂SO₄
 M, 98.08
 CAS: 7664-93-9
 EINECS: 231-639-5

Use: in analytical chemistry

S: 26

0.5 mol/l (N/1)

Cat. No. 62020-002

Concentration 0.5 mol/l
 Factor 0.97–1.03

Order number	Quantity
62020-002-M1000	1000 ml
62020-002-L0010	10 l

0.25 mol/l (N/2)

Cat. No. 62020-004

Concentration 0.25 mol/l
 Factor 0.97–1.03

Order number	Quantity
62020-004-M1000	1000 ml
62020-004-L0010	10 l

0.125 mol/l (N/4)

Cat. No. 62020-008

Concentration 0.125 mol/l
 Factor 0.97–1.03

Order number	Quantity
62020-008-M1000	1000 ml
62020-008-L0010	10 l

0.1 mol/l (N/5)

Cat. No. 62020-010

Concentration 0.1 mol/l
 Factor 0.97–1.03

Order number	Quantity
62020-010-M1000	1000 ml
62020-010-L0010	10 l

0.05 mol/l (N/10)

Cat. No. 62020-020

Concentration z 0.05 mol/l
 Factor 0.97–1.03

Order number	Quantity
62020-020-M1000	1000 ml
62020-020-L0010	10 l

0.005 mol/l (N/100)

Cat. No. 62020-200

Concentration 0.005 mol/l
 Factor 0.97–1.03

Order number	Quantity
62020-200-M1000	1000 ml
62020-200-L0010	10 l

Solutions & reagents SPECIAL SOLUTIONS AND ANALYTICAL REAGENTS

Ammonia buffer pH 10

Use: stabilization of pH solutions



R: 36/37/38
S: 2-26-36/37/39-46-61

Cat. No. 64001-000

pH 9.5–10.5

Order number	Quantity
64001-000-M1000	1000 ml
64001-000-L0010	10 l

Bromocresol green solution 0.1 % in ethanol

Use: as indicator



ADR/RID 3/III

R: 11
S: 2-7-16-46
UN 1993

Cat. No. 63003-000

pH-transition interval 3.9–5.4

Order number	Quantity
63003-000-M0090	90 ml

Buffer solution

Use: stabilization of medium at given pH

pH 4.0

Cat. No. 64002-000

pH (20 °C) 4 ± 0.02

Concentrate for 500 ml buffer solution

Order number	Quantity
64002-000-P0000	piece

pH 7.0

Cat. No. 64003-000

pH (20 °C) 7 ± 0.02

Concentrate for 500 ml buffer solution

Order number	Quantity
64003-000-P0000	piece

pH 9.0

Cat. No. 64004-000

pH (20 °C) 9 ± 0.02

Concentrate for 500 ml buffer solution

Order number	Quantity
64004-000-P0000	piece

Dimethyl yellow solution 0.2% in ethanol

Use: as indicator



ADR/RID 3/III

R: 11
S: 7-16-36/37-45
UN 1993

Cat. No. 63004-000

pH-transition interval 2.9–4.1

Order number	Quantity
63004-000-M0090	90 ml

Fehling's solution I

Use: for the proof of reducing sugars – after mixing the solution with Fehling's reagent II; for aldehydes and ketones resolution



ADR/RID 9/III

R: 51/53
S: 60-61
UN 3082

Cat. No. 63001-000

Application test passes test

Order number	Quantity
63001-000-M1000	1000 ml

Fehling's solution II

Use: for the proof of reducing sugars – after mixing the solution with Fehling's reagent I; for aldehydes and ketones resolution



ADR/RID 8/III

R: 35
S: 1/2-26-37/39-45
UN 1719

Cat. No. 63002-000

Application test passes test
NaOH 95–105 g/l

Order number	Quantity
63002-000-M1000	1000 ml

Chromosulfuric acid

Use: for laboratory glass cleaning



R: 45-46-23-35-42/43-48/20-52/53
S: 1/2-53-23-26-36/37/39-45-61
ADR/RID 8/I UN 2240

Cat. No. 63007-000

Order number	Quantity
63007-000-M1000	1000 ml

Indicator bromothymol blue in EtOH (20%) 0.1 % solution

Use: as indicator

R: 11
S: 2-7-16-46
ADR/RID 3/III UN 1993

Cat. No. 63018-000

pH-transition interval 6.0–7.6

Order number	Quantity
63018-000-M0090	90 ml

Indicator eriochrome black T + NaCl 1:200

Use: as indicator

S: 22-24/25

Cat. No. 63005-000

Sensitivity as indicator passes test

Order number	Quantity
63005-000-G0100	100 g

Indicator thymol blue in EtOH (20%) 0.04 % solution

Use: as indicator

R: 11
S: 2-7-16-46
ADR/RID 3/III UN 1993

Cat. No. 63019-000

pH-transition interval 8.0–9.6

Order number	Quantity
63019-000-M0090	90 ml

Lugol's solution

Use: for diagnostic examination in microbiology

Cat. No. 63010-000

Free chlorine 4.75–5.25 g/l
Potassium iodide 9.5–10.5 g/l

Order number	Quantity
63010-000-M0250	250 ml
63010-000-M1000	1000 ml

Nessler's solution

Use: in analytical chemistry for determination of ammonium ions



R: 23/24/25-33-35-51/53
S: 1/2-26-36/37/39-45
ADR/RID 6.1/II UN 2024

Cat. No. 63012-000

Sensitivity of detection for ammonia passes test

Order number	Quantity
63012-000-M1000	1000 ml

Phenolphthalein solution

Use: as indicator



ADR/RID 3/II

R: 11-40
S: 2-7-16-46
UN 1993

1 % solution

Cat. No. 63006-001

pH-transition interval 8.2–10.0

Order number	Quantity
63006-001-M0090	90 ml
63006-001-M0500	500 ml

0.1 % solution

Cat. No. 63006-010

pH-transition interval 8.2–10.0

Order number	Quantity
63006-010-M1000	1000 ml

Sulfuric acid 50 %

H₂SO₄
M: 98.08
CAS: 7664-93-9
EINECS: 231-639-5

Use: in analytical chemistry



ADR/RID 8/II

R: 35
S: 1/2-26-30-45
UN 2796

Cat. No. 63015-B50

Assay 49–51 %

Order number	Quantity
63015-B50-M1000	1000 ml

Sulfuric acid 25 %

H₂SO₄
M: 98.08
CAS: 7664-93-9
EINECS: 231-639-5

Use: in analytical chemistry



ADR/RID 8/II

R: 35
S: 1/2-26-30-45
UN 2796

Cat. No. 63016-B25

Assay 24–26 %

Order number	Quantity
63016-B25-L0025	25 l

Indicator and reagent paper strips

One piece consists of a tube containing 100 indicating strips

Indicator paper Alkalit

Use: urine pH check during treatment by Alkalit

Cat. No. 51001-000
Shade of color according to scale

Order number	Quantity
51001-000-P0000	piece

Indicator paper Laktotest

Use: milk acidity check

Cat. No. 51002-000
Shade of color according to scale

Order number	Quantity
51002-000-P0000	piece

Indicator paper Litmus red

Use: determination of alkaline reaction of water solutions

Cat. No. 51003-000
Shade of color according to scale

Order number	Quantity
51003-000-P0000	piece

Indicator paper Litmus blue

Use: determination of acidic reaction of water solutions

Cat. No. 51004-000
Shade of color according to scale

Order number	Quantity
51004-000-P0000	piece

Indicator paper Litmus neutral

Use: determination of acidic and alkaline reactions of water solutions

Cat. No. 51005-000
Shade of color according to scale

Order number	Quantity
51005-000-P0000	piece

Indicator paper strip with Brilliant Yellow

Use: determination of alkaline reaction of water solutions (pH range 7.4–8.6)

Cat. No. 51013-000
Shade of color according to scale

Order number	Quantity
51013-000-P0000	piece

Indicator paper strip with Congo Red

Use: determination of strongly acidic reaction of water solutions

Cat. No. 51012-000
Shade of color according to scale

Order number	Quantity
51012-000-P0000	piece

Indicator paper strip with Nitrazine Yellow

Use: determination of alkaline reaction of water solutions (pH range 6.0–7.0)

Cat. No. 51014-000
Shade of color according to scale

Order number	Quantity
51014-000-P0000	piece

Indicator paper strip with Phenolphthalein

Use: determination of alkaline reaction of water solutions

Cat. No. 51011-000
Shade of color according to scale

Order number	Quantity
51011-000-P0000	piece

Reagent paper strip Lead acetate

Use: detection of hydrogen sulfide in water media

Cat. No. 52002-000
Shade of color according to scale

Order number	Quantity
52002-000-P0000	piece

Reagent paper strip Starch

Use: detection of free iodine in water media

Cat. No. 52003-000
Shade of color according to scale

Order number	Quantity
52003-000-P0000	piece

Reagent paper strip Starch iodide

Use: detection of oxidizing substances in water media

Cat. No. 52001-000
Shade of color according to scale

Order number	Quantity
52001-000-P0000	piece

Selective indicator paper

Use: for pH valuation in water solution within the particular range; includes 6 colour strips for comparing and 1 indicator strips

pH 1.0–11.0
Cat. No. 51006-000
Shade of color according to scale

Order number	Quantity
51006-000-P0000	piece

pH 1.0–2.3
Cat. No. 51007-000
Shade of color according to scale

Order number	Quantity
51007-000-P0000	piece

pH 3.9–5.4
Cat. No. 51008-000
Shade of color according to scale

Order number	Quantity
51008-000-P0000	piece

pH 6.0–7.5
Cat. No. 51009-000
Shade of color according to scale

Order number	Quantity
51009-000-P0000	piece

pH 6.6–8.1
Cat. No. 51010-000
Shade of color according to scale

Order number	Quantity
51010-000-P0000	piece

Universal indicator strip pH 0–12

Use: estimate of pH of water solutions in the pH range 0–12

Cat. No. 51015-000
Shade of color according to scale

Order number	Quantity
51015-000-P0000	piece

Sensitivity disks FOR MICROBIOLOGY

One plastic box contains 100 discs protected against moisture

Sensitivity discs

Use: Serving to determine sensitivity of microorganisms to antimicrobial substances by a diffusion method. Discs are made of special filtration paper impregnated by a particular substance and marked with appropriate symbol.

Amikacin 30 µg

Cat. No. 53001-000

Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53001-000-P0000	piece

Ampicilin 10 µg

Cat. No. 53002-000

Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53002-000-P0000	piece

Ampicilin + Sulbactam 10 µg + 10 µg

Cat. No. 53003-000

Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53003-000-P0000	piece

Aztreonam 30 µg

Cat. No. 53004-000

Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53004-000-P0000	piece

Bacitracin 10 u.

Cat. No. 53005-000

Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53005-000-P0000	piece

Cefalotin 30 µg

Cat. No. 53006-000

Assay of antibiotic 90–150 %
Special storage condition +4 °C

Order number	Quantity
53006-000-P0000	piece

Cefazolin 30 µg

Cat. No. 53007-000

Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53007-000-P0000	piece

Cefoperazone 75 µg

Cat. No. 53008-000

Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53008-000-P0000	piece

Cefotaxim 30 µg

Cat. No. 53009-000

Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53009-000-P0000	piece

Ceftazidim 30 µg

Cat. No. 53011-000

Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53011-000-P0000	piece

Ceftriaxon 30 µg

Cat. No. 53012-000

Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53012-000-P0000	piece

Cefuroxim 30 µg**Cat. No. 53013-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53013-000-P0000	piece

Ciprofloxacin 5 µg**Cat. No. 53014-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53014-000-P0000	piece

Chloramphenicol 30 µg**Cat. No. 53019-000**Assay of antibiotic 90–150 %
Special storage condition +4 °C

Order number	Quantity
53019-000-P0000	piece

Doxycycline 30 µg**Cat. No. 53015-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53015-000-P0000	piece

Erythromycin 15 µg**Cat. No. 53016-000**Assay of antibiotic 90–150 %
Special storage condition +4 °C

Order number	Quantity
53016-000-P0000	piece

Gentamycin 10 µg**Cat. No. 53017-000**Assay of antibiotic 90–150 %
Special storage condition +4 °C

Order number	Quantity
53017-000-P0000	piece

Gentamycin 120 µg**Cat. No. 53018-000**

Special storage condition –18 °C

Order number	Quantity
53018-000-P0000	piece

Kanamycin 30 µg**Cat. No. 53020-000**Assay of antibiotic 90–150 %
Special storage condition +4 °C

Order number	Quantity
53020-000-P0000	piece

Klindamycin 2 µg**Cat. No. 53021-000**Assay of antibiotic 90–150 %
Special storage condition +4 °C

Order number	Quantity
53021-000-P0000	piece

Kolistin 10 µg**Cat. No. 53023-000**Assay of antibiotic 90–150 %
Special storage condition +4 °C

Order number	Quantity
53023-000-P0000	piece

Ko-trimoxazol 25 µg**Cat. No. 53022-000**Assay of antibiotic 90–150 %
Special storage condition +4 °C

Order number	Quantity
53022-000-P0000	piece

Lincomycin 10 µg**Cat. No. 53025-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53025-000-P0000	piece

Neomycin 30 µg**Cat. No. 53026-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53026-000-P0000	piece

Nitrofurantoin 100 µg**Cat. No. 53027-000**Assay of antibiotic 90–150 %
Special storage condition +4 °C

Order number	Quantity
53027-000-P0000	piece

Ofloxacin 5 µg**Cat. No. 53028-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53028-000-P0000	piece

Oxacillin 1 µg**Cat. No. 53029-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53029-000-P0000	piece

Oxacillin 10 µg**Cat. No. 53030-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53030-000-P0000	piece

Oxolinic acid 30 µg**Cat. No. 53024-000**Assay of antibiotic 90–150 %
Special storage condition +4 °C

Order number	Quantity
53024-000-P0000	piece

Pefloxacin 5 µg**Cat. No. 53031-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53031-000-P0000	piece

Penicilin 10 u.**Cat. No. 53032-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53032-000-P0000	piece

Rifampicin 5 µg**Cat. No. 53033-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53033-000-P0000	piece

Spiramycin 20 µg**Cat. No. 53034-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53034-000-P0000	piece

Streptomycin 30 µg**Cat. No. 53035-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53035-000-P0000	piece

Streptomycin 300 µg**Cat. No. 53036-000**

Special storage condition –18 °C

Order number	Quantity
53036-000-P0000	piece

Sulfisoxazol 300 µg**Cat. No. 53037-000**Assay of antibiotic 90–150 %
Special storage condition +4 °C

Order number	Quantity
53037-000-P0000	piece

Tetracycline 30 µg**Cat. No. 53038-000**Assay of antibiotic 90–150 %
Special storage condition +4 °C

Order number	Quantity
53038-000-P0000	piece

Tombramycin 10 µg**Cat. No. 53039-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53039-000-P0000	piece

Trimethoprim 5 µg**Cat. No. 53040-000**Assay of antibiotic 90–150 %
Special storage condition –18 °C

Order number	Quantity
53040-000-P0000	piece

Vankomycin 30 µg**Cat. No. 53041-000**Assay of antibiotic 90–150 %
Special storage condition +4 °C

Order number	Quantity
53041-000-P0000	piece

Sensitivity disks

FOR IDENTIFICATION OF HIGH RESISTENCE OF ENTEROCOCCI TO AMINOGLYCOSIDES

One plastic box contains 50 discs protected against moisture

Sensitivity discs

Use: Serving to determine sensitivity of microorganisms to antimicrobial substances by a diffusion method. Discs are made of special filtration paper impregnated by a particular substance and marked with appropriate symbol.

Gentamycin 120 µg

Cat. No. 53042-000

Special storage condition -18 °C

Order number	Quantity
53042-000-P0000	piece

Streptomycin 300 µg

Cat. No. 53043-000

Special storage condition -18 °C

Order number	Quantity
53043-000-P0000	piece

Other products

Laboratory filtration paper made of 100% glass fibres

Z4

Basis weight 65 g/m²
Medium size of pores (µm) 4.5

One piece consists of 50 round sectors

Use: highly effective gas and liquids filtration in various laboratory techniques

Cat. No. 54001-010 Diameter of filter 10 mm	Order number 54001-010-P0000	Quantity piece
Cat. No. 54001-012 Diameter of filter 12 mm	Order number 54001-012-P0000	Quantity piece
Cat. No. 54001-014 Diameter of filter 14 mm	Order number 54001-014-P0000	Quantity piece
Cat. No. 54001-016 Diameter of filter 16 mm	Order number 54001-016-P0000	Quantity piece
Cat. No. 54001-018 Diameter of filter 18 mm	Order number 54001-018-P0000	Quantity piece
Cat. No. 54001-020 Diameter of filter 20 mm	Order number 54001-020-P0000	Quantity piece
Cat. No. 54001-022 Diameter of filter 22 mm	Order number 54001-022-P0000	Quantity piece
Cat. No. 54001-025 Diameter of filter 25 mm	Order number 54001-025-P0000	Quantity piece
Cat. No. 54001-030 Diameter of filter 30 mm	Order number 54001-030-P0000	Quantity piece
Cat. No. 54001-033 Diameter of filter 33 mm	Order number 54001-033-P0000	Quantity piece
Cat. No. 54001-035 Diameter of filter 35 mm	Order number 54001-035-P0000	Quantity piece
Cat. No. 54001-037 Diameter of filter 37 mm	Order number 54001-037-P0000	Quantity piece
Cat. No. 54001-040 Diameter of filter 40 mm	Order number 54001-040-P0000	Quantity piece
Cat. No. 54001-045 Diameter of filter 45 mm	Order number 54001-045-P0000	Quantity piece
Cat. No. 54001-046 Diameter of filter 46 mm	Order number 54001-046-P0000	Quantity piece

Laboratory filtration paper made of 100% glass fibres

Cat. No. 54001-047 Diameter of filter 47 mm	Order number 54001-047-P0000	Quantity piece
Cat. No. 54001-048 Diameter of filter 48 mm	Order number 54001-048-P0000	Quantity piece
Cat. No. 54001-049 Diameter of filter 49 mm	Order number 54001-049-P0000	Quantity piece
Cat. No. 54001-050 Diameter of filter 50 mm	Order number 54001-050-P0000	Quantity piece
Cat. No. 54001-055 Diameter of filter 55 mm	Order number 54001-055-P0000	Quantity piece
Cat. No. 54001-056 Diameter of filter 56 mm	Order number 54001-056-P0000	Quantity piece
Cat. No. 54001-060 Diameter of filter 60 mm	Order number 54001-060-P0000	Quantity piece
Cat. No. 54001-063 Diameter of filter 63 mm	Order number 54001-063-P0000	Quantity piece
Cat. No. 54001-065 Diameter of filter 65 mm	Order number 54001-065-P0000	Quantity piece
Cat. No. 54001-070 Diameter of filter 70 mm	Order number 54001-070-P0000	Quantity piece
Cat. No. 54001-080 Diameter of filter 80 mm	Order number 54001-080-P0000	Quantity piece
Cat. No. 54001-090 Diameter of filter 90 mm	Order number 54001-090-P0000	Quantity piece
Cat. No. 54001-100 Diameter of filter 100 mm	Order number 54001-100-P0000	Quantity piece
Cat. No. 54001-110 Diameter of filter 110 mm	Order number 54001-110-P0000	Quantity piece
Cat. No. 54001-120 Diameter of filter 120 mm	Order number 54001-120-P0000	Quantity piece
Cat. No. 54001-125 Diameter of filter 125 mm	Order number 54001-125-P0000	Quantity piece

Laboratory filtration paper made of 100% glass fibres

Cat. No. 54001-140 Diameter of filter 140 mm	Order number	Quantity
	54001-140-P0000	piece
Cat. No. 54001-150 Diameter of filter 150 mm	Order number	Quantity
	54001-150-P0000	piece
Cat. No. 54001-160 Diameter of filter 160 mm	Order number	Quantity
	54001-160-P0000	piece
Cat. No. 54001-180 Diameter of filter 180 mm	Order number	Quantity
	54001-180-P0000	piece
Cat. No. 54001-185 Diameter of filter 185 mm	Order number	Quantity
	54001-185-P0000	piece
Cat. No. 54001-200 Diameter of filter 200 mm	Order number	Quantity
	54001-200-P0000	piece

Laboratory filtration paper made of 100% glass fibres

Z5

Basis weight 65 g/m²
Medium size of pores (µm) 3.5

One piece consists of 50 round sectors

Use: highly effective gas and liquids filtration in various laboratory techniques

Cat. No. 54002-010 Diameter of filter 10 mm	Order number	Quantity
	54002-010-P0000	piece
Cat. No. 54002-012 Diameter of filter 12 mm	Order number	Quantity
	54002-012-P0000	piece
Cat. No. 54002-014 Diameter of filter 14 mm	Order number	Quantity
	54002-014-P0000	piece
Cat. No. 54002-016 Diameter of filter 16 mm	Order number	Quantity
	54002-016-P0000	piece
Cat. No. 54002-018 Diameter of filter 18 mm	Order number	Quantity
	54002-018-P0000	piece
Cat. No. 54002-020 Diameter of filter 20 mm	Order number	Quantity
	54002-020-P0000	piece
Cat. No. 54002-022 Diameter of filter 22 mm	Order number	Quantity
	54002-022-P0000	piece
Cat. No. 54002-025 Diameter of filter 25 mm	Order number	Quantity
	54002-025-P0000	piece
Cat. No. 54002-030 Diameter of filter 30 mm	Order number	Quantity
	54002-030-P0000	piece

Laboratory filtration paper made of 100% glass fibres

Cat. No. 54002-033 Diameter of filter 33 mm	Order number 54002-033-P0000	Quantity piece
Cat. No. 54002-035 Diameter of filter 35 mm	Order number 54002-035-P0000	Quantity piece
Cat. No. 54002-037 Diameter of filter 37 mm	Order number 54002-037-P0000	Quantity piece
Cat. No. 54002-040 Diameter of filter 40 mm	Order number 54002-040-P0000	Quantity piece
Cat. No. 54002-045 Diameter of filter 45 mm	Order number 54002-045-P0000	Quantity piece
Cat. No. 54002-046 Diameter of filter 46 mm	Order number 54002-046-P0000	Quantity piece
Cat. No. 54002-047 Diameter of filter 47 mm	Order number 54002-047-P0000	Quantity piece
Cat. No. 54002-048 Diameter of filter 48 mm	Order number 54002-048-P0000	Quantity piece
Cat. No. 54002-049 Diameter of filter 49 mm	Order number 54002-049-P0000	Quantity piece
Cat. No. 54002-050 Diameter of filter 50 mm	Order number 54002-050-P0000	Quantity piece
Cat. No. 54002-055 Diameter of filter 55 mm	Order number 54002-055-P0000	Quantity piece
Cat. No. 54002-056 Diameter of filter 56 mm	Order number 54002-056-P0000	Quantity piece
Cat. No. 54002-060 Diameter of filter 60 mm	Order number 54002-060-P0000	Quantity piece
Cat. No. 54002-063 Diameter of filter 63 mm	Order number 54002-063-P0000	Quantity piece
Cat. No. 54002-065 Diameter of filter 65 mm	Order number 54002-065-P0000	Quantity piece
Cat. No. 54002-070 Diameter of filter 70 mm	Order number 54002-070-P0000	Quantity piece

Laboratory filtration paper made of 100% glass fibres

Cat. No. 54002-080 Diameter of filter 80 mm	Order number 54002-080-P0000	Quantity piece
Cat. No. 54002-090 Diameter of filter 90 mm	Order number 54002-090-P0000	Quantity piece
Cat. No. 54002-100 Diameter of filter 100 mm	Order number 54002-100-P0000	Quantity piece
Cat. No. 54002-110 Diameter of filter 110 mm	Order number 54002-110-P0000	Quantity piece
Cat. No. 54002-120 Diameter of filter 120 mm	Order number 54002-120-P0000	Quantity piece
Cat. No. 54002-125 Diameter of filter 125 mm	Order number 54002-125-P0000	Quantity piece
Cat. No. 54002-140 Diameter of filter 140 mm	Order number 54002-140-P0000	Quantity piece
Cat. No. 54002-150 Diameter of filter 150 mm	Order number 54002-150-P0000	Quantity piece
Cat. No. 54002-160 Diameter of filter 160 mm	Order number 54002-160-P0000	Quantity piece
Cat. No. 54002-180 Diameter of filter 180 mm	Order number 54002-180-P0000	Quantity piece
Cat. No. 54002-185 Diameter of filter 185 mm	Order number 54002-185-P0000	Quantity piece
Cat. No. 54002-200 Diameter of filter 200 mm	Order number 54002-200-P0000	Quantity piece

Laboratory filtration paper made of 100% glass fibres

Z6

Basis weight 65 g/m²
Medium size of pores (µm) 3

One piece consists of 50 round sectors

Use: highly effective gas and liquids filtration in various laboratory techniques

Cat. No. 54003-010 Diameter of filter 10 mm	Order number 54003-010-P0000	Quantity piece
Cat. No. 54003-012 Diameter of filter 12 mm	Order number 54003-012-P0000	Quantity piece
Cat. No. 54003-014 Diameter of filter 14 mm	Order number 54003-014-P0000	Quantity piece

Laboratory filtration paper made of 100% glass fibres

Cat. No. 54003-016 Diameter of filter 16 mm	Order number 54003-016-P0000	Quantity piece
Cat. No. 54003-018 Diameter of filter 18 mm	Order number 54003-018-P0000	Quantity piece
Cat. No. 54003-020 Diameter of filter 20 mm	Order number 54003-020-P0000	Quantity piece
Cat. No. 54003-022 Diameter of filter 22 mm	Order number 54003-022-P0000	Quantity piece
Cat. No. 54003-025 Diameter of filter 25 mm	Order number 54003-025-P0000	Quantity piece
Cat. No. 54003-030 Diameter of filter 30 mm	Order number 54003-030-P0000	Quantity piece
Cat. No. 54003-033 Diameter of filter 33 mm	Order number 54003-033-P0000	Quantity piece
Cat. No. 54003-035 Diameter of filter 35 mm	Order number 54003-035-P0000	Quantity piece
Cat. No. 54003-037 Diameter of filter 37 mm	Order number 54003-037-P0000	Quantity piece
Cat. No. 54003-040 Diameter of filter 40 mm	Order number 54003-040-P0000	Quantity piece
Cat. No. 54003-045 Diameter of filter 45 mm	Order number 54003-045-P0000	Quantity piece
Cat. No. 54003-046 Diameter of filter 46 mm	Order number 54003-046-P0000	Quantity piece
Cat. No. 54003-047 Diameter of filter 47 mm	Order number 54003-047-P0000	Quantity piece
Cat. No. 54003-048 Diameter of filter 48 mm	Order number 54003-048-P0000	Quantity piece
Cat. No. 54003-049 Diameter of filter 49 mm	Order number 54003-049-P0000	Quantity piece
Cat. No. 54003-050 Diameter of filter 50 mm	Order number 54003-050-P0000	Quantity piece

Laboratory filtration paper made of 100% glass fibres

Cat. No. 54003-055 Diameter of filter 55 mm	Order number 54003-055-P0000	Quantity piece
Cat. No. 54003-056 Diameter of filter 56 mm	Order number 54003-056-P0000	Quantity piece
Cat. No. 54003-060 Diameter of filter 60 mm	Order number 54003-060-P0000	Quantity piece
Cat. No. 54003-063 Diameter of filter 63 mm	Order number 54003-063-P0000	Quantity piece
Cat. No. 54003-065 Diameter of filter 65 mm	Order number 54003-065-P0000	Quantity piece
Cat. No. 54003-070 Diameter of filter 70 mm	Order number 54003-070-P0000	Quantity piece
Cat. No. 54003-080 Diameter of filter 80 mm	Order number 54003-080-P0000	Quantity piece
Cat. No. 54003-090 Diameter of filter 90 mm	Order number 54003-090-P0000	Quantity piece
Cat. No. 54003-100 Diameter of filter 100 mm	Order number 54003-100-P0000	Quantity piece
Cat. No. 54003-110 Diameter of filter 110 mm	Order number 54003-110-P0000	Quantity piece
Cat. No. 54003-120 Diameter of filter 120 mm	Order number 54003-120-P0000	Quantity piece
Cat. No. 54003-125 Diameter of filter 125 mm	Order number 54003-125-P0000	Quantity piece
Cat. No. 54003-140 Diameter of filter 140 mm	Order number 54003-140-P0000	Quantity piece
Cat. No. 54003-150 Diameter of filter 150 mm	Order number 54003-150-P0000	Quantity piece
Cat. No. 54003-160 Diameter of filter 160 mm	Order number 54003-160-P0000	Quantity piece
Cat. No. 54003-180 Diameter of filter 180 mm	Order number 54003-180-P0000	Quantity piece

Laboratory filtration paper made of 100% glass fibres

Cat. No. 54003-185
Diameter of filter 185 mm

Order number	Quantity
54003-185-P0000	piece

Cat. No. 54003-200
Diameter of filter 200 mm

Order number	Quantity
54003-200-P0000	piece

Laboratory filtration paper made of 100% glass fibres

Z7

Basis weight 65 g/m²
Medium size of pores (µm) 2.5

One piece consists of 50 round sectors

Use: highly effective gas and liquids filtration in various laboratory techniques

Cat. No. 54004-010
Diameter of filter 10 mm

Order number	Quantity
54004-010-P0000	piece

Cat. No. 54004-012
Diameter of filter 12 mm

Order number	Quantity
54004-012-P0000	piece

Cat. No. 54004-014
Diameter of filter 14 mm

Order number	Quantity
54004-014-P0000	piece

Cat. No. 54004-016
Diameter of filter 16 mm

Order number	Quantity
54004-016-P0000	piece

Cat. No. 54004-018
Diameter of filter 18 mm

Order number	Quantity
54004-018-P0000	piece

Cat. No. 54004-020
Diameter of filter 20 mm

Order number	Quantity
54004-020-P0000	piece

Cat. No. 54004-022
Diameter of filter 22 mm

Order number	Quantity
54004-022-P0000	piece

Cat. No. 54004-025
Diameter of filter 25 mm

Order number	Quantity
54004-025-P0000	piece

Cat. No. 54004-030
Diameter of filter 30 mm

Order number	Quantity
54004-030-P0000	piece

Cat. No. 54004-033
Diameter of filter 33 mm

Order number	Quantity
54004-033-P0000	piece

Cat. No. 54004-035
Diameter of filter 35 mm

Order number	Quantity
54004-035-P0000	piece

Cat. No. 54004-037
Diameter of filter 37 mm

Order number	Quantity
54004-037-P0000	piece

Cat. No. 54004-040
Diameter of filter 40 mm

Order number	Quantity
54004-040-P0000	piece

Laboratory filtration paper made of 100% glass fibres

Cat. No. 54004-045 Diameter of filter 45 mm	Order number 54004-045-P0000	Quantity piece
Cat. No. 54004-046 Diameter of filter 46 mm	Order number 54004-046-P0000	Quantity piece
Cat. No. 54004-047 Diameter of filter 47 mm	Order number 54004-047-P0000	Quantity piece
Cat. No. 54004-048 Diameter of filter 48 mm	Order number 54004-048-P0000	Quantity piece
Cat. No. 54004-049 Diameter of filter 49 mm	Order number 54004-049-P0000	Quantity piece
Cat. No. 54004-050 Diameter of filter 50 mm	Order number 54004-050-P0000	Quantity piece
Cat. No. 54004-055 Diameter of filter 55 mm	Order number 54004-055-P0000	Quantity piece
Cat. No. 54004-056 Diameter of filter 56 mm	Order number 54004-056-P0000	Quantity piece
Cat. No. 54004-060 Diameter of filter 60 mm	Order number 54004-060-P0000	Quantity piece
Cat. No. 54004-063 Diameter of filter 63 mm	Order number 54004-063-P0000	Quantity piece
Cat. No. 54004-065 Diameter of filter 65 mm	Order number 54004-065-P0000	Quantity piece
Cat. No. 54004-070 Diameter of filter 70 mm	Order number 54004-070-P0000	Quantity piece
Cat. No. 54004-080 Diameter of filter 80 mm	Order number 54004-080-P0000	Quantity piece
Cat. No. 54004-090 Diameter of filter 90 mm	Order number 54004-090-P0000	Quantity piece
Cat. No. 54004-100 Diameter of filter 100 mm	Order number 54004-100-P0000	Quantity piece
Cat. No. 54004-110 Diameter of filter 110 mm	Order number 54004-110-P0000	Quantity piece

Laboratory filtration paper made of 100% glass fibres

Cat. No. 54004-120 Diameter of filter 120 mm	Order number 54004-120-P0000	Quantity piece
Cat. No. 54004-125 Diameter of filter 125 mm	Order number 54004-125-P0000	Quantity piece
Cat. No. 54004-140 Diameter of filter 140 mm	Order number 54004-140-P0000	Quantity piece
Cat. No. 54004-150 Diameter of filter 150 mm	Order number 54004-150-P0000	Quantity piece
Cat. No. 54004-160 Diameter of filter 160 mm	Order number 54004-160-P0000	Quantity piece
Cat. No. 54004-180 Diameter of filter 180 mm	Order number 54004-180-P0000	Quantity piece
Cat. No. 54004-185 Diameter of filter 185 mm	Order number 54004-185-P0000	Quantity piece
Cat. No. 54004-200 Diameter of filter 200 mm	Order number 54004-200-P0000	Quantity piece

Laboratory filtration paper made of 100% glass fibres

Z8

Basis weight 65 g/m²
Medium size of pores (µm) 1

One piece consists of 50 round sectors

Use: highly effective gas and liquids filtration in various laboratory techniques

Cat. No. 54005-010 Diameter of filter 10 mm	Order number 54005-010-P0000	Quantity piece
Cat. No. 54005-012 Diameter of filter 12 mm	Order number 54005-012-P0000	Quantity piece
Cat. No. 54005-014 Diameter of filter 14 mm	Order number 54005-014-P0000	Quantity piece
Cat. No. 54005-016 Diameter of filter 16 mm	Order number 54005-016-P0000	Quantity piece
Cat. No. 54005-018 Diameter of filter 18 mm	Order number 54005-018-P0000	Quantity piece
Cat. No. 54005-020 Diameter of filter 20 mm	Order number 54005-020-P0000	Quantity piece
Cat. No. 54005-022 Diameter of filter 22 mm	Order number 54005-022-P0000	Quantity piece

Laboratory filtration paper made of 100% glass fibres

Cat. No. 54005-025 Diameter of filter 25 mm	Order number 54005-025-P0000	Quantity piece
Cat. No. 54005-030 Diameter of filter 30 mm	Order number 54005-030-P0000	Quantity piece
Cat. No. 54005-033 Diameter of filter 33 mm	Order number 54005-033-P0000	Quantity piece
Cat. No. 54005-035 Diameter of filter 35 mm	Order number 54005-035-P0000	Quantity piece
Cat. No. 54005-037 Diameter of filter 37 mm	Order number 54005-037-P0000	Quantity piece
Cat. No. 54005-040 Diameter of filter 40 mm	Order number 54005-040-P0000	Quantity piece
Cat. No. 54005-045 Diameter of filter 45 mm	Order number 54005-045-P0000	Quantity piece
Cat. No. 54005-046 Diameter of filter 46 mm	Order number 54005-046-P0000	Quantity piece
Cat. No. 54005-047 Diameter of filter 47 mm	Order number 54005-047-P0000	Quantity piece
Cat. No. 54005-048 Diameter of filter 48 mm	Order number 54005-048-P0000	Quantity piece
Cat. No. 54005-049 Diameter of filter 49 mm	Order number 54005-049-P0000	Quantity piece
Cat. No. 54005-050 Diameter of filter 50 mm	Order number 54005-050-P0000	Quantity piece
Cat. No. 54005-055 Diameter of filter 55 mm	Order number 54005-055-P0000	Quantity piece
Cat. No. 54005-056 Diameter of filter 56 mm	Order number 54005-056-P0000	Quantity piece
Cat. No. 54005-060 Diameter of filter 60 mm	Order number 54005-060-P0000	Quantity piece
Cat. No. 54005-063 Diameter of filter 63 mm	Order number 54005-063-P0000	Quantity piece

Laboratory filtration paper made of 100% glass fibres

Cat. No. 54005-065 Diameter of filter 65 mm	Order number 54005-065-P0000	Quantity piece
Cat. No. 54005-070 Diameter of filter 70 mm	Order number 54005-070-P0000	Quantity piece
Cat. No. 54005-080 Diameter of filter 80 mm	Order number 54005-080-P0000	Quantity piece
Cat. No. 54005-090 Diameter of filter 90 mm	Order number 54005-090-P0000	Quantity piece
Cat. No. 54005-100 Diameter of filter 100 mm	Order number 54005-100-P0000	Quantity piece
Cat. No. 54005-110 Diameter of filter 110 mm	Order number 54005-110-P0000	Quantity piece
Cat. No. 54005-120 Diameter of filter 120 mm	Order number 54005-120-P0000	Quantity piece
Cat. No. 54005-125 Diameter of filter 125 mm	Order number 54005-125-P0000	Quantity piece
Cat. No. 54005-140 Diameter of filter 140 mm	Order number 54005-140-P0000	Quantity piece
Cat. No. 54005-150 Diameter of filter 150 mm	Order number 54005-150-P0000	Quantity piece
Cat. No. 54005-160 Diameter of filter 160 mm	Order number 54005-160-P0000	Quantity piece
Cat. No. 54005-180 Diameter of filter 180 mm	Order number 54005-180-P0000	Quantity piece
Cat. No. 54005-185 Diameter of filter 185 mm	Order number 54005-185-P0000	Quantity piece
Cat. No. 54005-200 Diameter of filter 200 mm	Order number 54005-200-P0000	Quantity piece

Filter paper for qualitative analysis

KA-0

Basis weight 80 g/m²
Filtration speed characteristics especially very high

Filtration of bigger particle > 15 µm

One piece consists of 100 round sectors

Use: for qualitative analysis

Cat. No. 54007-055 Diameter of filter 55 mm	Order number 54007-055-P0000	Quantity piece
Cat. No. 54007-080 Diameter of filter 80 mm	Order number 54007-080-P0000	Quantity piece
Cat. No. 54007-090 Diameter of filter 90 mm	Order number 54007-090-P0000	Quantity piece
Cat. No. 54007-110 Diameter of filter 110 mm	Order number 54007-110-P0000	Quantity piece
Cat. No. 54007-125 Diameter of filter 125 mm	Order number 54007-125-P0000	Quantity piece
Cat. No. 54007-150 Diameter of filter 150 mm	Order number 54007-150-P0000	Quantity piece
Cat. No. 54007-185 Diameter of filter 185 mm	Order number 54007-185-P0000	Quantity piece
Cat. No. 54007-200 Diameter of filter 200 mm	Order number 54007-200-P0000	Quantity piece
Cat. No. 54007-240 Diameter of filter 240 mm	Order number 54007-240-P0000	Quantity piece
Cat. No. 54007-320 Diameter of filter 320 mm	Order number 54007-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-1

Basis weight 80 g/m²
Filtration speed characteristics very high
Filtration of bigger particle > 15 µm

One piece consists of 100 round sectors

Use: for qualitative analysis

Cat. No. 54008-055 Diameter of filter 55 mm	Order number 54008-055-P0000	Quantity piece
Cat. No. 54008-080 Diameter of filter 80 mm	Order number 54008-080-P0000	Quantity piece
Cat. No. 54008-090 Diameter of filter 90 mm	Order number 54008-090-P0000	Quantity piece
Cat. No. 54008-110 Diameter of filter 110 mm	Order number 54008-110-P0000	Quantity piece
Cat. No. 54008-125 Diameter of filter 125 mm	Order number 54008-125-P0000	Quantity piece

Filter paper for qualitative analysis

Cat. No. 54008-150 Diameter of filter 150 mm	Order number 54008-150-P0000	Quantity piece
Cat. No. 54008-185 Diameter of filter 185 mm	Order number 54008-185-P0000	Quantity piece
Cat. No. 54008-200 Diameter of filter 200 mm	Order number 54008-200-P0000	Quantity piece
Cat. No. 54008-240 Diameter of filter 240 mm	Order number 54008-240-P0000	Quantity piece
Cat. No. 54008-320 Diameter of filter 320 mm	Order number 54008-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-2

Basis weight 80 g/m²
Filtration speed characteristics high
Filtration of particle > 8 µm

One piece consists of 100 round sectors

Use: for qualitative analysis

Cat. No. 54009-055 Diameter of filter 55 mm	Order number 54009-055-P0000	Quantity piece
Cat. No. 54009-080 Diameter of filter 80 mm	Order number 54009-080-P0000	Quantity piece
Cat. No. 54009-090 Diameter of filter 90 mm	Order number 54009-090-P0000	Quantity piece
Cat. No. 54009-110 Diameter of filter 110 mm	Order number 54009-110-P0000	Quantity piece
Cat. No. 54009-125 Diameter of filter 125 mm	Order number 54009-125-P0000	Quantity piece
Cat. No. 54009-150 Diameter of filter 150 mm	Order number 54009-150-P0000	Quantity piece
Cat. No. 54009-185 Diameter of filter 185 mm	Order number 54009-185-P0000	Quantity piece
Cat. No. 54009-200 Diameter of filter 200 mm	Order number 54009-200-P0000	Quantity piece
Cat. No. 54009-240 Diameter of filter 240 mm	Order number 54009-240-P0000	Quantity piece
Cat. No. 54009-320 Diameter of filter 320 mm	Order number 54009-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-3

Basis weight 80 g/m²
 Filtration speed characteristics high
 Filtration of particle > 6 µm

One piece consists of 100 round sectors

Use: for qualitative analysis

Cat. No. 54010-055 Diameter of filter 55 mm	Order number 54010-055-P0000	Quantity piece
Cat. No. 54010-080 Diameter of filter 80 mm	Order number 54010-080-P0000	Quantity piece
Cat. No. 54010-090 Diameter of filter 90 mm	Order number 54010-090-P0000	Quantity piece
Cat. No. 54010-110 Diameter of filter 110 mm	Order number 54010-110-P0000	Quantity piece
Cat. No. 54010-125 Diameter of filter 125 mm	Order number 54010-125-P0000	Quantity piece
Cat. No. 54010-150 Diameter of filter 150 mm	Order number 54010-150-P0000	Quantity piece
Cat. No. 54010-185 Diameter of filter 185 mm	Order number 54010-185-P0000	Quantity piece
Cat. No. 54010-200 Diameter of filter 200 mm	Order number 54010-200-P0000	Quantity piece
Cat. No. 54010-240 Diameter of filter 240 mm	Order number 54010-240-P0000	Quantity piece
Cat. No. 54010-320 Diameter of filter 320 mm	Order number 54010-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-4

Basis weight 80 g/m²
 Filtration speed characteristics medium
 high

Filtration of particle > 4 µm

One piece consists of 100 round sectors

Use: for qualitative analysis

Cat. No. 54011-055 Diameter of filter 55 mm	Order number 54011-055-P0000	Quantity piece
Cat. No. 54011-080 Diameter of filter 80 mm	Order number 54011-080-P0000	Quantity piece
Cat. No. 54011-090 Diameter of filter 90 mm	Order number 54011-090-P0000	Quantity piece
Cat. No. 54011-110 Diameter of filter 110 mm	Order number 54011-110-P0000	Quantity piece
Cat. No. 54011-125 Diameter of filter 125 mm	Order number 54011-125-P0000	Quantity piece

Filter paper for qualitative analysis

Cat. No. 54011-150 Diameter of filter 150 mm	Order number 54011-150-P0000	Quantity piece
Cat. No. 54011-185 Diameter of filter 185 mm	Order number 54011-185-P0000	Quantity piece
Cat. No. 54011-200 Diameter of filter 200 mm	Order number 54011-200-P0000	Quantity piece
Cat. No. 54011-240 Diameter of filter 240 mm	Order number 54011-240-P0000	Quantity piece
Cat. No. 54011-320 Diameter of filter 320 mm	Order number 54011-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-5

Basis weight 80 g/m²
Filtration speed characteristics medium
Filtration of particle > 3 µm

One piece consists of 100 round sectors

Use: for qualitative analysis

Cat. No. 54012-055 Diameter of filter 55 mm	Order number 54012-055-P0000	Quantity piece
Cat. No. 54012-080 Diameter of filter 80 mm	Order number 54012-080-P0000	Quantity piece
Cat. No. 54012-090 Diameter of filter 90 mm	Order number 54012-090-P0000	Quantity piece
Cat. No. 54012-110 Diameter of filter 110 mm	Order number 54012-110-P0000	Quantity piece
Cat. No. 54012-125 Diameter of filter 125 mm	Order number 54012-125-P0000	Quantity piece
Cat. No. 54012-150 Diameter of filter 150 mm	Order number 54012-150-P0000	Quantity piece
Cat. No. 54012-185 Diameter of filter 185 mm	Order number 54012-185-P0000	Quantity piece
Cat. No. 54012-200 Diameter of filter 200 mm	Order number 54012-200-P0000	Quantity piece
Cat. No. 54012-240 Diameter of filter 240 mm	Order number 54012-240-P0000	Quantity piece
Cat. No. 54012-320 Diameter of filter 320 mm	Order number 54012-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-56

Basis weight 56 g/m²

One piece consists of 100 round sectors

Use: for qualitative analysis

Cat. No. 54013-055 Diameter of filter 55 mm	Order number 54013-055-P0000	Quantity piece
Cat. No. 54013-080 Diameter of filter 80 mm	Order number 54013-080-P0000	Quantity piece
Cat. No. 54013-090 Diameter of filter 90 mm	Order number 54013-090-P0000	Quantity piece
Cat. No. 54013-110 Diameter of filter 110 mm	Order number 54013-110-P0000	Quantity piece
Cat. No. 54013-125 Diameter of filter 125 mm	Order number 54013-125-P0000	Quantity piece
Cat. No. 54013-150 Diameter of filter 150 mm	Order number 54013-150-P0000	Quantity piece
Cat. No. 54013-185 Diameter of filter 185 mm	Order number 54013-185-P0000	Quantity piece
Cat. No. 54013-200 Diameter of filter 200 mm	Order number 54013-200-P0000	Quantity piece
Cat. No. 54013-240 Diameter of filter 240 mm	Order number 54013-240-P0000	Quantity piece
Cat. No. 54013-320 Diameter of filter 320 mm	Order number 54013-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-80

Basis weight 80 g/m²

One piece consists of 100 round sectors

Use: for qualitative analysis

Cat. No. 54014-055 Diameter of filter 55 mm	Order number 54014-055-P0000	Quantity piece
Cat. No. 54014-080 Diameter of filter 80 mm	Order number 54014-080-P0000	Quantity piece
Cat. No. 54014-090 Diameter of filter 90 mm	Order number 54014-090-P0000	Quantity piece
Cat. No. 54014-110 Diameter of filter 110 mm	Order number 54014-110-P0000	Quantity piece
Cat. No. 54014-125 Diameter of filter 125 mm	Order number 54014-125-P0000	Quantity piece

Filter paper for qualitative analysis

Cat. No. 54014-150 Diameter of filter 150 mm	Order number 54014-150-P0000	Quantity piece
Cat. No. 54014-185 Diameter of filter 185 mm	Order number 54014-185-P0000	Quantity piece
Cat. No. 54014-200 Diameter of filter 200 mm	Order number 54014-200-P0000	Quantity piece
Cat. No. 54014-240 Diameter of filter 240 mm	Order number 54014-240-P0000	Quantity piece
Cat. No. 54014-320 Diameter of filter 320 mm	Order number 54014-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-100

Basis weight

100 g/m²

One piece consists of 100 round sectors

Use: for qualitative analysis

Cat. No. 54015-055 Diameter of filter 55 mm	Order number 54015-055-P0000	Quantity piece
Cat. No. 54015-080 Diameter of filter 80 mm	Order number 54015-080-P0000	Quantity piece
Cat. No. 54015-090 Diameter of filter 90 mm	Order number 54015-090-P0000	Quantity piece
Cat. No. 54015-110 Diameter of filter 110 mm	Order number 54015-110-P0000	Quantity piece
Cat. No. 54015-125 Diameter of filter 125 mm	Order number 54015-125-P0000	Quantity piece
Cat. No. 54015-150 Diameter of filter 150 mm	Order number 54015-150-P0000	Quantity piece
Cat. No. 54015-185 Diameter of filter 185 mm	Order number 54015-185-P0000	Quantity piece
Cat. No. 54015-200 Diameter of filter 200 mm	Order number 54015-200-P0000	Quantity piece
Cat. No. 54015-240 Diameter of filter 240 mm	Order number 54015-240-P0000	Quantity piece
Cat. No. 54015-320 Diameter of filter 320 mm	Order number 54015-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-110

Basis weight

110 g/m²

One piece consists of 100 round sectors

Use: for qualitative analysis

Cat. No. 54020-055

Diameter of filter 55 mm

Order number	Quantity
54020-055-P0000	piece

Cat. No. 54020-080

Diameter of filter 80 mm

Order number	Quantity
54020-080-P0000	piece

Cat. No. 54020-090

Diameter of filter 90 mm

Order number	Quantity
54020-090-P0000	piece

Cat. No. 54020-110

Diameter of filter 110 mm

Order number	Quantity
54020-110-P0000	piece

Cat. No. 54020-125

Diameter of filter 125 mm

Order number	Quantity
54020-125-P0000	piece

Cat. No. 54020-150

Diameter of filter 150 mm

Order number	Quantity
54020-150-P0000	piece

Cat. No. 54020-185

Diameter of filter 185 mm

Order number	Quantity
54020-185-P0000	piece

Cat. No. 54020-200

Diameter of filter 200 mm

Order number	Quantity
54020-200-P0000	piece

Cat. No. 54020-240

Diameter of filter 240 mm

Order number	Quantity
54020-240-P0000	piece

Cat. No. 54020-320

Diameter of filter 320 mm

Order number	Quantity
54020-320-P0000	piece

Filter paper for qualitative analysis

KA-R-M

Basis weight

50 g/m²

Filtration speed characteristics especially very high

Rapid filtration of bigger particle
Strengthened when wet

One piece consists of 100 round sectors

Use: for qualitative analysis in pressure and vacuum technique

Cat. No. 54006-055

Diameter of filter 55 mm

Order number	Quantity
54006-055-P0000	piece

Cat. No. 54006-080

Diameter of filter 80 mm

Order number	Quantity
54006-080-P0000	piece

Cat. No. 54006-090

Diameter of filter 90 mm

Order number	Quantity
54006-090-P0000	piece

Cat. No. 54006-110

Diameter of filter 110 mm

Order number	Quantity
54006-110-P0000	piece

Cat. No. 54006-125

Diameter of filter 125 mm

Order number	Quantity
54006-125-P0000	piece

Filter paper for qualitative analysis

Cat. No. 54006-150 Diameter of filter 150 mm	Order number 54006-150-P0000	Quantity piece
Cat. No. 54006-185 Diameter of filter 185 mm	Order number 54006-185-P0000	Quantity piece
Cat. No. 54006-200 Diameter of filter 200 mm	Order number 54006-200-P0000	Quantity piece
Cat. No. 54006-240 Diameter of filter 240 mm	Order number 54006-240-P0000	Quantity piece
Cat. No. 54006-320 Diameter of filter 320 mm	Order number 54006-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-1-M

Basis weight 80 g/m²
Filtration speed characteristics very high
Filtration of particle > 8 µm
Strengthened when wet

One piece consists of 100 round sectors

Use: for qualitative analysis in pressure and vacuum technique

Cat. No. 54021-055 Diameter of filter 55 mm	Order number 54021-055-P0000	Quantity piece
Cat. No. 54021-080 Diameter of filter 80 mm	Order number 54021-080-P0000	Quantity piece
Cat. No. 54021-090 Diameter of filter 90 mm	Order number 54021-090-P0000	Quantity piece
Cat. No. 54021-110 Diameter of filter 110 mm	Order number 54021-110-P0000	Quantity piece
Cat. No. 54021-125 Diameter of filter 125 mm	Order number 54021-125-P0000	Quantity piece
Cat. No. 54021-150 Diameter of filter 150 mm	Order number 54021-150-P0000	Quantity piece
Cat. No. 54021-185 Diameter of filter 185 mm	Order number 54021-185-P0000	Quantity piece
Cat. No. 54021-200 Diameter of filter 200 mm	Order number 54021-200-P0000	Quantity piece
Cat. No. 54021-240 Diameter of filter 240 mm	Order number 54021-240-P0000	Quantity piece
Cat. No. 54021-320 Diameter of filter 320 mm	Order number 54021-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-2-M

Basis weight 80 g/m²
 Filtration speed characteristics high
 Filtration of particle > 6 µm
 Strengthened when wet

One piece consists of 100 round sectors

Use: for qualitative analysis in pressure and vacuum technique

Cat. No. 54022-055 Diameter of filter 55 mm	Order number 54022-055-P0000	Quantity piece
Cat. No. 54022-080 Diameter of filter 80 mm	Order number 54022-080-P0000	Quantity piece
Cat. No. 54022-090 Diameter of filter 90 mm	Order number 54022-090-P0000	Quantity piece
Cat. No. 54022-110 Diameter of filter 110 mm	Order number 54022-110-P0000	Quantity piece
Cat. No. 54022-125 Diameter of filter 125 mm	Order number 54022-125-P0000	Quantity piece
Cat. No. 54022-150 Diameter of filter 150 mm	Order number 54022-150-P0000	Quantity piece
Cat. No. 54022-185 Diameter of filter 185 mm	Order number 54022-185-P0000	Quantity piece
Cat. No. 54022-200 Diameter of filter 200 mm	Order number 54022-200-P0000	Quantity piece
Cat. No. 54022-240 Diameter of filter 240 mm	Order number 54022-240-P0000	Quantity piece
Cat. No. 54022-320 Diameter of filter 320 mm	Order number 54022-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-3-M

Basis weight 80 g/m²
 Filtration speed characteristics high
 Filtration of particle > 4 µm
 Strengthened when wet

One piece consists of 100 round sectors

Use: for qualitative analysis in pressure and vacuum technique

Cat. No. 54023-055 Diameter of filter 55 mm	Order number 54023-055-P0000	Quantity piece
Cat. No. 54023-080 Diameter of filter 80 mm	Order number 54023-080-P0000	Quantity piece
Cat. No. 54023-090 Diameter of filter 90 mm	Order number 54023-090-P0000	Quantity piece
Cat. No. 54023-110 Diameter of filter 110 mm	Order number 54023-110-P0000	Quantity piece
Cat. No. 54023-125 Diameter of filter 125 mm	Order number 54023-125-P0000	Quantity piece

Filter paper for qualitative analysis

Cat. No. 54023-150 Diameter of filter 150 mm	Order number 54023-150-P0000	Quantity piece
Cat. No. 54023-185 Diameter of filter 185 mm	Order number 54023-185-P0000	Quantity piece
Cat. No. 54023-200 Diameter of filter 200 mm	Order number 54023-200-P0000	Quantity piece
Cat. No. 54023-240 Diameter of filter 240 mm	Order number 54023-240-P0000	Quantity piece
Cat. No. 54023-320 Diameter of filter 320 mm	Order number 54023-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-4-M

Basis weight 80 g/m²
Filtration speed characteristics medium
high

Filtration of particle > 3 µm
Strengthened when wet

One piece consists of 100 round sectors

Use: for qualitative analysis in pressure
and vacuum technique

Cat. No. 54024-055 Diameter of filter 55 mm	Order number 54024-055-P0000	Quantity piece
Cat. No. 54024-080 Diameter of filter 80 mm	Order number 54024-080-P0000	Quantity piece
Cat. No. 54024-090 Diameter of filter 90 mm	Order number 54024-090-P0000	Quantity piece
Cat. No. 54024-110 Diameter of filter 110 mm	Order number 54024-110-P0000	Quantity piece
Cat. No. 54024-125 Diameter of filter 125 mm	Order number 54024-125-P0000	Quantity piece
Cat. No. 54024-150 Diameter of filter 150 mm	Order number 54024-150-P0000	Quantity piece
Cat. No. 54024-185 Diameter of filter 185 mm	Order number 54024-185-P0000	Quantity piece
Cat. No. 54024-200 Diameter of filter 200 mm	Order number 54024-200-P0000	Quantity piece
Cat. No. 54024-240 Diameter of filter 240 mm	Order number 54024-240-P0000	Quantity piece
Cat. No. 54024-320 Diameter of filter 320 mm	Order number 54024-320-P0000	Quantity piece

Filter paper for qualitative analysis

KA-5-M

Basis weight 80 g/m²
Filtration speed characteristics medium
Strengthened when wet

One piece consists of 100 round sectors

Use: for qualitative analysis in pressure and vacuum technique

Cat. No. 54025-055

Diameter of filter 55 mm

Order number	Quantity
54025-055-P0000	piece

Cat. No. 54025-080

Diameter of filter 80 mm

Order number	Quantity
54025-080-P0000	piece

Cat. No. 54025-090

Diameter of filter 90 mm

Order number	Quantity
54025-090-P0000	piece

Cat. No. 54025-110

Diameter of filter 110 mm

Order number	Quantity
54025-110-P0000	piece

Cat. No. 54025-125

Diameter of filter 125 mm

Order number	Quantity
54025-125-P0000	piece

Cat. No. 54025-150

Diameter of filter 150 mm

Order number	Quantity
54025-150-P0000	piece

Cat. No. 54025-185

Diameter of filter 185 mm

Order number	Quantity
54025-185-P0000	piece

Cat. No. 54025-200

Diameter of filter 200 mm

Order number	Quantity
54025-200-P0000	piece

Cat. No. 54025-240

Diameter of filter 240 mm

Order number	Quantity
54025-240-P0000	piece

Cat. No. 54025-320

Diameter of filter 320 mm

Order number	Quantity
54025-320-P0000	piece

Filter paper for qualitative analysis

In crepped and non-crepped version;
various basis weights

Dimension: 60×60 cm

One piece contains a pack of 10 kg

Use: for qualitative analysis

Cat. No. 54016-000

Basis weight 56 g/m²

Order number	Quantity
54016-000-P0000	piece

Cat. No. 54017-000

Basis weight 80 g/m²

Order number	Quantity
54017-000-P0000	piece

Cat. No. 54018-000

Basis weight 100 g/m²

Order number	Quantity
54018-000-P0000	piece

Cat. No. 54019-000

Basis weight 110 g/m²

Order number	Quantity
54019-000-P0000	piece

Lukosan M 14

Use: greasing of ground joints, cocks

Cat. No. 40090-BT0

Penetration at delivery 150–230 p.u.
Volatility ≤ 5 %

Order number	Quantity
40090-BT0-M0080	80 ml

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III. Indices and Technical Information

A					
Acetaldehyde	1	Ammonium dihydrogen phosphate	13	D-Aspartic acid	24
Acetic acid 99.8 %	1	Ammonium ferric citrate brown	14	Azure II	24
Acetic acid 99.7 %	1	Ammonium ferric citrate green	14	B	
Acetic acid 99 %	1	Ammonium ferric sulfate dodecahydrate	14	Barbituric acid	25
Acetic acid 98 %	2	Ammonium ferrous sulfate hexahydrate	14	Barium carbonate	25
Acetic acid 80 %	2	Ammonium fluoride	14	Barium chloride dihydrate	25
Acetic acid, water solution	220	Ammonium hydrogen carbonate di-Ammonium hydrogen citrate anhydrous	14	Barium chloride dihydrate, Normanal	210
Acetic anhydride	2	Ammonium hydrogen difluoride	15	Barium chloride dihydrate, water solution	220
Acetone	3	Ammonium hydrogen phosphate	15	Barium hydroxide octahydrate	26
Acetonitrile	4	Ammonium hydrogen tartrate	15	Barium nitrate	26
Acetophenone	5	Ammonium hydroxide solution 25 %	16	Barium oxide	27
Acetylacetone	5	Ammonium iodide	16	Barium perchlorate anhydrous	27
Acetyl chloride	6	Ammonium iron(III) citrate brown	16	Barium sulfate	27
Acrylic acid stabilized	6	Ammonium iron(III) citrate green	17	Bathophenanthroline	28
Adipic acid	6	Ammonium iron(III) sulfate dodecahydrate	17	Beeswax white	201
Alizarin Yellow GG	7	Ammonium iron(II) sulfate hexahydrate	17	Beeswax yellow	201
Allyl alcohol	7	Ammonium metavanadate	17	Benzaldehyde	28
Aluminum chloride anhydrous	7	Ammonium molybdate tetrahydrate	18	Benzene	28
Aluminum chloride hexahydrate	8	Ammonium nitrate	18	Benzoic acid	29
Aluminum hydroxide	8	Ammonium oxalate monohydrate	19	α -Benzoin oxime	29
Aluminum nitrate nonahydrate	8	Ammonium peroxodisulfate	19	1,4-Benzoquinone	29
Aluminum oxide	9	Ammonium sulfamate	19	Benzyl alcohol	30
Aluminum sulfate hexadecahydrate	9	Ammonium sulfate	20	Benzyl chloride	30
Aluminum sulfate hydrate	9	Ammonium thiocyanate	20	Bis(cyclohexanone)oxaldihydrazone	30
Aluminum sulfate octadecahydrate	10	n-Amyl acetate	20	Bismuth(III) carbonate basic	30
Amidosulfonic acid	10	n-Amyl alcohol	21	Bismuth(III) nitrate basic	31
4-Aminoantipyrine	10	Aniline	21	Bismuth(III) nitrate pentahydrate	31
4-Aminobenzenesulfonamide	10	Aniline hydrochloride	21	Bismuth(III) oxide	31
2-Aminoethanol	10	Anthranilic acid	22	Boric acid	32
1-Amino-2-naphthol-4-sulfonic acid	10	Antimony(III) chloride	22	Brilliant Green	32
Ammonia aqueous	11	Antimony(III) oxide	23	Bromobenzene	32
Ammonium acetate	11	Antimony(III) sulfide	23	Bromocresol green, solution in ethanol	228
Ammonium aluminum sulfate dodecahydrate	11	Arsenic trioxide	23	Bromophenol Blue	33
Ammonium bromide	11	Ascorbic acid	23	Bromothymol Blue	33
Ammonia buffer pH 10	228			Bromothymol blue, solution in EtOH	229
Ammonium carbonate	12			Buffer solution	228
Ammonium chloride	12				
Ammonium dichromate	13				
Ammonium dihydrogen citrate anhydrous	13				

Nominal Index

Butan-1-ol	33	Copper(I) chloride	51	Ethyl acetate	69
Butan-2-ol	34	Copper(II) chloride dihydrate	51	Ethyl acetoacetate	69
tert-Butanol	34	Copper(II) nitrate trihydrate	52	Ethyl alcohol 99.8 %	70
2-Butanone	34	Copper(I) oxide	52	Ethyl alcohol 96 %	70
Butyl acetate	34	Copper(II) oxide	52	Ethyl methyl ketone	73
C		Copper(II) sulfate anhydrous	53	Ethylene glycol	70
Cadmium acetate dihydrate	36	Copper(II) sulfate pentahydrate	53	Ethylene glycol monoethyl ether	70
Cadmium chloride dihydrate	36	m-Cresol	54	Ethylene glycol monomethyl ether	71
Cadmium nitrate tetrahydrate	37	o-Cresol	54	Ethylenediamine	71
Cadmium oxide	37	Crystal Violet	54	Ethylenediaminetetraacetic acid	72
Cadmium sulfate hydrate	37	Cupric acetate monohydrate	54	Ethylenediaminetetraacetic acid diSodium salt dihydrate	72
Cadmium sulfide	38	Cupric chloride dihydrate	54	Ethylenediaminetetraacetic acid magnesium diSodium salt hydrate	72
Caffeine	38	Cupric nitrate trihydrate	55	Ethylenediaminetetraacetic acid tetraSodium salt hydrate	73
Calcium carbonate	38	Cupric oxide	55		
Calcium chloride anhydrous		Cupric sulfate anhydrous	55		
granulated	38	Cupric sulfate pentahydrate	55		
Calcium chloride anhydrous powder	39	Cuprizon	55		
Calcium chloride dihydrate	39	Cuprone	55	F	
Calcium chloride hexahydrate	39	Cuprous chloride	55	Fehling's solution I	228
Calcium dihydrogen phosphate		Cuprous oxide	55	Fehling's solution II	229
monohydrate	40	Cyclohexane	55	Ferric citrate monohydrate	74
Calcium hydrogen phosphate		Cyclohexanol	56	Ferric chloride anhydrous	74
dihydrate	40	Cyclohexanone	57	Ferric chloride hexahydrate	74
Calcium hydroxide	40			Ferric oxide	74
Calcium lactate pentahydrate	41	D		Ferric sulfate hydrate	74
Calcium nitrate tetrahydrate	41	DBP	58	Ferroun solution cca 1/40 M (0,025 mol/l)	74
Calcium oxide	41	Diacetone alcohol	58	Ferrous chloride anhydrous	74
Calcium sulfate precipitated		1,2-Diaminocyclohexane-N,N',N'- tetraacetic acid monohydrate	58	Ferrous sulfate heptahydrate	74
dihydrate	42	Dibutyl phthalate	58	Ferrous sulfide	74
Camphor	42	Diethanolamine	60	Filtration paper	238
Carbon disulfide	42	Diethyl ether nonstabilized	61	Fluorescein free acid	74
Carboxymethylcellulose Sodium salt	43	Diethyl ether stabilized	61	Fluorescein sodium	75
Cedar oil	43	Diethylamine	60	Formaldehyde stabil. 36–38 %	75
Cellulose microcrystalline	43	Diethylene glycol	61	Formaldehyde stabil. 35 %	75
Cerium(III) chloride heptahydrate	43	1,2-Dichloroethane	59	Formamide	76
Cerous chloride heptahydrate	43	Dichloromethane stabilized	60	Formic acid 98 %	76
Cesium chloride	44	Dimethyl sulfoxide	64	Formic acid 96 %	76
Cetyl alcohol	44	Dimethyl yellow, solution in ethanol	228	Formic acid 88 %	76
Cetylstearyl alcohol	44	4-(Dimethylamino)benzaldehyde	62	Formic acid 85 %	76
Cetyltrimethylammonium bromide	45	N,N-Dimethylaniline	63	D-Fructose	77
Cinnamic acid	48	N,N-Dimethylformamide	63	Fuchsin basic	77
Citric acid anhydrous	48	Dimethylglyoxime	63	Fumaric acid	77
Citric acid monohydrate	48	1,4-Dioxane nonstabilized	64		
Coal filter material FU-1	49	1,4-Dioxane stabilized	64	G	
Cobalt(II) acetate tetrahydrate	49	Diphenylamine	65	Gelatine	78
Cobalt(II) chloride hexahydrate	49	Diphenylcarbazine	66	D-Glucose anhydrous	78
Cobalt(II) nitrate hexahydrate	49	Diphenylcarbazon	66	D-Glucose monohydrate	78
Cobalt(II) sulfate heptahydrate	50	Diphenylthiocarbazon	66	L-Glutamic acid	78
Cobaltous acetate tetrahydrate	50	2,2'-Dipyridyl	67	Glutaric acid	79
Cobaltous chloride hexahydrate	50	Dithizone	67	Glycerol anhydrous	79
Cobaltous nitrate hexahydrate	50			Glycerol 85 %	79
Cobaltous sulfate heptahydrate	50	E		Glycine	80
Complexone I	50	EDTA	68	Glycolic acid	80
Complexone II	50	Eosin Methylene Blue	68	Gold chloride acid trihydrate	88
Complexone III	50	Eriochrome Black T	68		
Complexone III, Normal	210	Eriochrome black T + NaCl	229	H	
Complexone III, water solution	220	Ethanol 99.8 %	70	n-Heptane	81
Congo Red	50	Ethanol 96 %	70	Hexamethylenetetramine	82
Copper(II) acetate monohydrate	51	Ethanolamine	68		

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Hexane	82	K				
n-Hexane	83	Karl Fischer Reagent – solution A	97		Mercuric nitrate hydrate	110
1-Hexanol	84	Karl Fischer Reagent – solution B	97		Mercuric oxide red	111
Hexyl alcohol	84				Mercuric oxide yellow	111
Hippuric acid	84				Mercuric sulfate	111
L-Histidine	84	L			Mercury	111
Hydrazine dihydrochloride	85	DL-Lactic acid 90 %	98		Mercury(II) acetate	111
Hydrazine sulfate	85	L-(+)-Lactic acid 80 %	98		Mercury(II) chloride	111
Hydrobromic acid 48 %	85	Lactose monohydrate	98		Mercury(II) iodide red	112
Hydrofluoric acid 50 %	87	Lanolin anhydrous	99		Mercury(II) nitrate hydrate	112
Hydrofluoric acid 40 %	87	Lanthanum oxide	99		Mercury(II) nitrate hydrate, Normalan	212
Hydrogen peroxide 30 % nonstabilized	88	Lead(II) acetate basic	99		Mercury(II) nitrate hydrate, water solution	222
Hydrogen peroxide 30 % stabilized	88	Lead(II) acetate trihydrate	99		Mercury(II) oxide red	113
Hydrogen tetrachloroaurate(III) trihydrate	88	Lead(II) carbonate	100		Mercury(II) oxide yellow	113
Hydrochloric acid 37	86	Lead(II) chloride	100		Mercury(II) sulfate	113
Hydrochloric acid 35 %	86	Lead(II) chromate	100		Methanol	114
Hydrochloric acid 35 % (As max. 0.000001 %)	86	Lead(II) nitrate	101		Methenamine	82
Hydrochloric acid, Normalan	210	Lead(II) nitrate, Normalan	211		Methyl alcohol	114
Hydrochloric acid, water solution	220	Lead(II) nitrate, water solution	221		(Methylamino)phenol sulfate	115
Hydroiodic acid 57 %	89	Lead(II) oxide yellow	101		4-Methyl Blue	115
Hydroquinone	89	Lead(II) sulfate	101		Methyl Orange	115
Hydroxylamine hydrochloride	89	Lithium carbonate	102		Methyl Red	115
Hydroxylamine sulfate	90	tri-Lithium citrate tetrahydrate	103		Methyl-1-butanol	116
8-Hydroxyquinoline	90	Lithium chloride anhydrous	102		3-Methyl-1-propanol	116
		Lithium chloride monohydrate	102		2-Methylene Blue	117
Ch		Lithium hydroxide monohydrate	103		Methylpentan-2-one	117
Chloral hydrate	45	Lithium nitrate	103		4-Metol	117
Chloroacetic acid	45	Lithium sulfate monohydrate	104		Molecular sieves	118
Chloroauric acid trihydrate	88	Lugol's solution	229		Murexide	118
Chlorobenzene	46	Lukosan M 14	260			
Chloroform stabilized	46	M			N	
Chromium(III) chloride hexahydrate	47	Magnesium acetate tetrahydrate	105		Naphthalene	119
Chromium(III) oxide	47	Magnesium carbonate basic	105		Naphthol	119
Chromium(VI) oxide	47	Magnesium chloride hexahydrate	105		1-Naphthol	119
Chromosulfuric acid	229	Magnesium nitrate hexahydrate	105		2-Naphthylamine	120
		Magnesium oxide	106		1-Naphthyl)ethylenediamine dihydrochloride	120
I		Magnesium oxide light	106		Nessler's solution	230
Indicator paper strips	231	Magnesium perchlorate	106		N-(1-Nickel(II) carbonate basic hydrate	120
Iodine	91	Magnesium perchlorate hydrate	107		Nickel(II) chloride hexahydrate	121
Iodine trichloride	91	Magnesium sulfate anhydrous	107		Nickel(II) nitrate hexahydrate	121
Iron powder	93	Magnesium sulfate heptahydrate	107		Nickel(II) sulfate heptahydrate	121
Iron powder FeSi 15	93	Magnesium sulfate heptahydrate, Normalan	211		Nickel(II) sulfate hexahydrate	122
Iron(II) chloride anhydrous	92	Magnesium sulfate heptahydrate, water solution	221		Nitric acid 65 %	122
Iron(III) chloride anhydrous	92	Maleic acid	108		Nitric acid, Normalan	212
Iron(III) chloride hexahydrate	92	L-(-)-Malic acid	108		Nitric acid, water solution	222
Iron(III) citrate monohydrate	93	D-(+)-Maltose monohydrate	108		Nitriilotriacetic acid	123
Iron(III) oxide	93	Manganese(II) chloride tetrahydrate	109		Nitroaniline	123
Iron(II) sulfate heptahydrate	94	Manganese(II) nitrate tetrahydrate	109		4-Nitromethane	123
Iron(II) sulfide	94	Manganese(IV) oxide 90 %	109		Nitrophenol	124
Iron(III) sulfate hydrate	94	Manganese(IV) oxide 80 %	110		4-Normanals	209
Isobutanol	94	Manganese(II) sulfate monohydrate	110			
Isobutyric acid	95	D-Mannitol	110		O	
Isooctane	95	Mercuric acetate	110		Oleic acid	125
Isopentyl alcohol	95	Mercuric chloride	110		Orange III	125
Isopropanol	96	Mercuric iodide red	110		Oxalic acid dihydrate	125
Isopropyl alcohol	96				Oxalic acid dihydrate, Normalan	213

Oxalic acid dihydrate, water solution	222	Potassium cyanide powder	140	R	
P		Potassium dihydrogen phosphate	141	Reagent paper strips	231
Paraffin fluid	126	Potassium dichromate	141	8-Resorcinol	156
Paraformaldehyde	126	Potassium dichromate, Normalal	214	S	
Pentane	126	Potassium dichromate, water solution	223	Saccharose	157
n-Pentane	127	Potassium disulfate	142	Salicylaldehyde	157
n-Perchloric acid 70 %	127	Potassium disulfite	142	Salicylic acid	157
Perchloric acid 68 %	127	Potassium fluoride	142	Sea sand	158
Periodic acid	128	Potassium hexacyanoferrate(II) trihydrate	143	Selenious acid	158
Petrol medical R	128	Potassium hexacyanoferrate(III)	143	Selenous acid	158
Petroleum ether 40–60 °C	128	Potassium hydrogen carbonate	143	Sensitivity disks	233
Petroleum ether 40–65 °C	129	Potassium hydrogen phosphate	144	Schiff's reagent	158
Petroleum ether 60–80 °C	129	di-Potassium hydrogen phthalate	144	Silica gel	159
Petroleum ether 80–110 °C	129	Potassium hydrogen tartrate	145	Silica gel with moisture indicator (orange)	159
Phenanthroline hydrochloride monohydrate	130	Potassium hydroxide	145	Silicic acid hydrate	159
o-Phenanthroline monohydrate	130	Potassium hydroxide scales	145	Silicon dioxide	159
o-Phenol	130	Potassium hydroxide, Normalal	214	Silver nitrate	159
Phenolphthalein	131	Potassium hydroxide, water solution	224	Silver nitrate, Normalal	216
Phenolphthalein, solution in ethanol	230	Potassium iodate	146	Silver nitrate, water solution	225
Phenylanthranilic acid	131	Potassium iodate, Normalal	215	Silver sulfate	160
N-Phenylenediamine	132	Potassium iodate, water solution	224	Sodium acetate anhydrous	160
1,2-Phenylenediamine	132	Potassium iodide	146	Sodium acetate trihydrate	160
1,4-Phloroglucinol dihydrate	133	Potassium iodide, Normalal	215	Sodium azide	161
Phosphomolybdic acid hydrate	133	Potassium iodide, water solution	225	Sodium benzoate	161
Phosphoric acid 85 %	133	Potassium iodide-iodate, Normalal	216	Sodium bromate	162
ortho-Phosphorus pentachloride	134	Potassium nitrate	147	Sodium bromide	162
Phosphorus pentoxide	134	Potassium nitrite	147	Sodium carbonate anhydrous	162
Phosphorus red	135	Potassium nitrate	147	Sodium carbonate anhydrous, Normalal	217
Phosphotungstic acid hydrate	135	Potassium oxalate monohydrate	148	Sodium carbonate decahydrate	163
Phthalic acid	135	Potassium perchlorate	148	Sodium chloride	163
Picric acid	136	Potassium periodate	148	Sodium chloride	163
Potassium acetate	136	Potassium permanganate	149	Sodium chloride, Normalal	218
Potassium aluminum sulfate dodecahydrate	136	Potassium permanganate, Normalal	216	Sodium chloride, water solution	226
Potassium antimonyl tartrate hemihydrate	137	Potassium permanganate, water solution	225	Sodium chromate tetrahydrate	164
Potassium bromate	137	Potassium peroxodisulfate	149	Sodium citrate dihydrate	164
Potassium bromate, Normalal	213	Potassium polysulfide	149	tri-Sodium cyanide powder	165
Potassium bromate, water solution	223	Potassium Sodium carbonate	150	Sodium cyanide tablets	165
Potassium bromide	137	Potassium Sodium tartrate tetrahydrate	150	Sodium dichromate dihydrate	165
Potassium bromide, Normalal	213	Potassium sulfate	150	Sodium diethyldithiocarbamate trihydrate	166
Potassium bromide-bromate, Normalal	214	Potassium sulfite	151	Sodium dihydrogen phosphate dihydrate	166
Potassium carbonate anhydrous	138	Potassium thiocyanate	151	Sodium disulfite	166
Potassium carbonate sesquihydrate	138	Propan-1-ol	152	Sodium dodecyl sulfate	167
Potassium chlorate	138	Propanediol	151	Sodium fluoride	167
Potassium chloride	139	1,2-Propenoic acid	152	Sodium formate	167
Potassium chloride, Normalal	215	2-Propionic acid	152	Sodium hexametaphosphate	168
Potassium chloride, water solution	224	Propylene glycol	152	Sodium hydrogen carbonate	168
Potassium chromate	139	Pyridine	153	Sodium hydrogen citrate monohydrate	168
Potassium chromium(III) sulfate dodecahydrate	140	Pyridylazo)-2-naphthol	153	di-Sodium hydrogen phosphate dodecahydrate	168
Potassium citrate monohydrate	140	1-(2-Pyridylazo)resorcinol monoSodium salt monohydrate	153	di-Sodium hydrogen sulfate monohydrate	169
tri-Potassium cyanide granules	140	4-(2-Pyrogallol	154	Sodium hydrogen tartrate monohydrate	169
		Pyruvic acid Sodium salt	154	Sodium hydroxide	169
		Q			
		Quinoline	155		
		Quinolinol	155		

Nominal Index

Sodium hydroxide micropearls	170	Starch soluble (from potatoes)	180	o-Toluene-4-sulfonic acid	
Sodium hydroxide pearls	170	Strontium chloride hexahydrate	181	monohydrate	194
Sodium hydroxide,		Strontium nitrate	181	p-Toluidine	195
Normanal	217	Succinic acid	181	Toluidine	194
Sodium hydroxide,		Sulfamic acid	182	Triethanolamine	196
water solution	226	Sulfanilamide	182	Triethylamine	197
Sodium hypophosphite		5-Sulfanilic acid	182	Trichloroacetaldehyde	
monohydrate	171	Sulfosalicylic acid dihydrate	183	hydrate	195
Sodium iodate	171	Sulfur	183	Trichloroacetic acid	195
Sodium iodide	171	Sulfuric acid 96 %	183	Trichloroethene	195
Sodium metaarsenite	172	Sulfuric acid 90–91 %	183	Trichloroethylene	196
Sodium molybdate dihydrate	172	Sulfuric acid, Normanal	218	Trichloromethane	196
Sodium nitrate	172	Sulfuric acid, water solution	227	2,2,4-Trilon A	197
Sodium nitrite	173	Sulfuric acid, 50 % solution	230	Trimethylpentane	197
Sodium nitroprusside dihydrate	173	Sulfuric acid, 25 % solution	230	Tris(hydroxymethyl)aminomethane	197
Sodium oxalate	173			TWEEN 20	197
Sodium perborate	174	T		TWEEN 40	198
Sodium perchlorate		Talc	185	TWEEN 60	198
monohydrate	174	L-(+)-Tannin	185	TWEEN 80	198
Sodium periodate	174	Tartaric acid	185	U	
Sodium peroxide	175	tert-Butyl alcohol	35	Unguent simple	199
Sodium peroxodisulfate	175	Tetrabutylammonium bromide	186	Urea	199
tri-Sodium phosphate		Tetrabutylammonium iodide	186	V	
dodecahydrate	175	Tetraethylammonium bromide	187	Vaseline white	200
Sodium salicylate	176	Tetraethylammonium iodide	188	Vaseline yellow	200
Sodium silicate water solution	176	1,2,3,4-Tetrahydrofuran stabilized	188	W	
Sodium sulfate anhydrous	176	1,1,2,2-Tetrahydronaphthalene	189	Water	201
Sodium sulfate decahydrate	177	Tetrachloroethane	187	Water Blue	115
Sodium sulfide hydrate	177	Tetrachloroethylene	187	Wax white	201
Sodium sulfite anhydrous	177	Tetramethylammonium bromide	189	Wax yellow	201
di-Sodium tartrate dihydrate	178	Tetramethylammonium hydroxide		X	
Sodium tetraborate decahydrate	178	solution ~10 % in water	189	Xylene (mixture of C ₈ H ₁₀ isomers)	202
Sodium tetraphenylborate	178	Tetraphenylboron Sodium	178	Z	
Sodium thiocyanate	179	Thioglycolic acid 80 %	190	Zinc acetate dihydrate	203
Sodium thiosulfate anhydrous	179	Thionyl chloride	190	Zinc carbonate basic	204
Sodium thiosulfate pentahydrate	179	Thiourea	190	Zinc chloride anhydrous	204
Sodium thiosulfate pentahydrate,		Thymol	191	Zinc granulated	203
Normanal	218	Thymol blue, solution in EtOH	229	Zinc nitrate hexahydrate	204
Sodium thiosulfate pentahydrate,		Tin(II) chloride dihydrate	191	Zinc oxide	205
water solution	227	Tin(II) sulfate	192	Zinc powder	203
Solutions & reagents	220	Tin(IV) oxide	191	Zinc sulfate heptahydrate	205
Sorbic acid	180	Titanium dioxide	192		
Sorbic acid Potassium salt	180	Titanium(IV) oxide	192		
Standard volumetric solutions	209	o-Titanium(IV) tetrachloride	192		
Stannous chloride dihydrate	180	Tolidine	193		
Stannous sulfate	180	Toluene	193		

Latin Nominal Index
(Pharmaceutical Chemicals)

A		F		Natrii carbonas	162
Acidum aceticum 99 %	2	Fluoresceinum natricum	75	Natrii citras dihydricus	164
Acidum ascorbicum	24	Formaldehydi solutio 35 %	75	Natrii fluoridum	167
Acidum benzoicum	29	G		Natrii hydrogenocarbonas	168
Acidum boricum	32	Glycerolum 85 %	79	Natrii hydrogenophosphas	
Acidum citricum	48	Glycerolum	80	dodecahydricus	169
Acidum citricum monohydricum	48	H		Natrii hydroxidum	171
Acidum hydrochloricum 35 %	87	Hydrargyri dichloridum	112	Natrii chloridum	164
Acidum oleicum	125	Hydrogenii peroxidum 30 %	88	Natrii iodidum	171
Acidum salicylicum	158	I		Natrii perboras hydricus	174
Acidum sorbicum	180	Iodum	91	Natrii sulfas	176
Acidum tartaricum	186	K		Natrii sulfas decahydricus	177
Acidum trichloroaceticum	195	Kalii aluminii sulfas dodecahydricus	136	Natrii tetraboras	
Adeps lanae	99	Kalii bromidum	137	decahydricus	178
Alcohol cetyllicus	44	Kalii carbonas	138	Natrii thiosulfas	
Alcohol cetylstearyllicus	44	Kalii dihydrogenophosphas	141	pentahydricus	179
Ammonii chloridum	12	Kalii hydrogenophosphas	144	P	
B		Kalii hydroxidum	146	Paraffinum liquidum	126
Bismuthi subcarbonas	30	Kalii chloridum	139	Polysorbatum 20	197
C		Kalii iodidum	147	Polysorbatum 40	198
Calcii carbonas	38	Kalii natrii tartras tetrahydricus	150	Polysorbatum 60	198
Calcii hydrogenophosphas-		Kalii nitras	147	Polysorbatum 80	198
dihydricus	40	Kalii permanganas	149	Propylenglycolum	152
Calcii chloridum hexahydricum	39	L		S	
Calcii lactas pentahydricus	41	Lithii carbonas	102	Sulfur ad usum externum	183
Calcii oxidum	41	M		T	
Camphora racemica	42	Magnesii chloridum hexahydricum	105	Talcum	185
Carmellosum natricum (Carboxy-		Magnesii oxidum leve	106	Tanninum	185
methylcellulosumnatricum)	43	Magnesii subcarbonas levis	105	U	
Cera alba	201	Magnesii subcarbonas		Unguentum simplex	199
Cera flava	201	ponderosus	105	Urea	199
Coffeinum	38	Magnesii sulfas heptahydricus	107	V	
Cupri sulfas pentahydricus	53	Methylthioninii chloridum hydricum	117	Vaselinum album	200
D		N		Vaselinum flavum	200
Dinatrii edetas dihydricus	72	Natrii acetat trihydricus	161	Z	
E		Natrii benzoas	161	Zinci oxidum	205
Ethanolum 96 % (V/V)	70			Zinci sulfas heptahydricus	205
Ether solvens	62				
Ethylis acetat	69				

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50-00-0	40052-F35	75	62-76-0	40143-AP0	173	67-64-1	20001-LT0	4
50-00-0	40052-E38	75	63-74-1	40004-AP0	182	67-64-1	20001-RT0	4
50-00-0	40052-A38	75	63-74-1	40004-CP0	182	67-66-3	20034-AT1	46
50-00-0	40052-C38	75	64-02-8	40076-CP0	73	67-66-3	20034-CT1	46
50-81-7	10014-ZP0	23	64-17-5	20025-F96	70	67-66-3	20034-LT1	46
50-81-7	10014-AP0	24	64-17-5	20025-A96	70	67-68-5	20022-ET0	64
50-81-7	10014-FP0	24	64-17-5	20025-U99	70	67-68-5	20022-CP0	64
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55-55-0	40094-CP0	117	64-18-6	10045-E88	76	68-11-1	10062-A80	190
56-40-6	40059-AP0	80	64-18-6	10045-C85	77	68-11-1	10062-C80	190
56-40-6	40059-CP0	80	64-19-7	10047-E9C	1	68-12-2	20021-ET0	63
56-81-5	40057-F85	79	64-19-7	10047-A9B	1	68-12-2	20021-CT0	63
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56-81-5	40058-AT0	79	64-19-7	10047-C98	2	69-72-7	10053-AP0	157
56-81-5	40058-FT0	80	64-19-7	10047-F99	2	69-72-7	10053-CP0	157
56-86-0	10041-AP0	78	64-19-7	10047-A80	2	69-72-7	10053-FP0	158
57-09-0	40018-AT0	45	64-19-7	10047-C80	2	71-00-1	40061-AT0	84
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57-13-6	40096-AP0	199	65-85-0	10016-AP0	29	71-23-8	20049-LT0	152
57-13-6	40096-CP0	199	65-85-0	10016-CP0	29	71-36-3	20010-ET0	33
57-13-6	40096-FP0	199	65-85-0	10016-FP0	29	71-36-3	20010-AT0	33
57-48-7	40053-AP0	77	67-52-7	10015-AP0	25	71-36-3	20010-CT0	33
57-50-1	40135-AP0	157	67-56-1	20038-ET0	114	71-41-0	20004-AT0	21
57-50-1	40135-CP0	157	67-56-1	20038-AT0	114	71-41-0	20004-CT0	21
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57-55-6	20048-CT0	151	67-56-1	20038-ST0	114	71-43-2	20007-CT0	29
57-55-6	20048-FT0	152	67-56-1	20038-LT0	114	71-91-0	40147-CP0	187
58-08-2	40083-FP0	38	67-56-1	20038-RT0	115	75-05-8	20041-AT0	4
60-00-4	40073-AP0	72	67-63-0	20037-ET0	96	75-05-8	20041-ST0	4
60-10-6	40032-AP0	66	67-63-0	20037-AT0	96	75-05-8	20041-LT0	4
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6484-52-2	30025-APO	18	7664-38-2	10048-C85	134	7757-83-7	30195-CPO	177
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7758-05-6	30112-AP0	146	7784-24-9	30168-FP0	136	10025-70-4	30094-AP0	181
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7758-09-0	30045-AP0	147	7784-26-1	30162-CP0	11	10025-77-1	30101-CP0	92
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7758-11-4	30060-AP0	144	7784-31-8	30173-AP0	10	10025-91-9	30071-CP0	22
7758-11-4	30060-CP0	144	7784-46-5	30001-AP0	172	10026-13-8	30077-AP0	134
7758-11-4	30060-FP0	144	7788-99-0	30169-AP0	140	10026-22-9	30033-AP0	49
7758-23-8	30018-AP0	40	7788-99-0	30169-CP0	140	10026-24-1	30178-AP0	50
7758-89-6	30089-AP0	51	7789-00-6	30108-AP0	139	10026-24-1	30178-CP0	50
7758-94-3	30102-CP0	92	7789-00-6	30108-CP0	139	10028-22-5	30192-AP0	94
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7778-50-9	30020-AP0	141	7791-18-6	30080-FP0	105	10035-06-0	30027-CP0	31
7778-50-9	30020-CP0	141	7791-20-0	30090-AP0	121	10035-10-6	10018-A48	85
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7778-74-7	30104-CP0	148	7803-55-6	30124-AP0	17	10039-32-4	30061-AP0	168
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7778-80-5	30170-EPO	150	8009-03-8	40166-FP0	200	10039-56-2	30052-CP0	171
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7778-80-5	30170-CP0	151	8012-89-3	40172-FP0	201	10042-94-1	30153-FP0	174
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7782-63-0	30193-CP0	94	9000-70-8	40174-AP0	78	10043-35-3	10017-CP0	32
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12054-85-2	30126-EPO	18	14459-95-1	30054-CPO	143	51429-74-4	10025-AP0	133
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12124-97-9	30004-AP0	11	16674-78-5	40114-AP0	105	68915-31-1	30055-CPO	168
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12125-01-8	30047-EPO	14	16712-20-2	30086-CPO	102	101316-46-5	20045-AT0	129
12125-01-8	30047-AP0	14	16731-55-8	30023-AP0	142	101316-46-5	20045-CT0	129
12125-01-8	30047-CPO	14	16731-55-8	30023-CPO	142	101316-46-5	20045-LT0	128
12125-02-9	30070-EPO	12	16828-11-8	30171-AP0	9	101316-46-5	20046-LT0	129
12125-02-9	30070-AP0	12	16828-11-8	30171-CPO	9	101316-46-5	20047-CT0	129
12125-02-9	30070-CPO	12	16961-25-4	10061-EPO	88	122965-43-9	40100-IP0	117
12125-02-9	30070-FPO	12	17927-65-0	30172-AP0	9	122965-43-9	40100-FPO	117

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AgNO₃ Silver nitrate			Al₂(SO₄)₃·18H₂O Aluminum sulfate octadecahydrate			BaSO₄ Barium sulfate		
puriss ACS	30042-EPO	159	G.R.	30173-AP0	10	G.R.	30166-AP0	27
G.R.	30042-AP0	160						
Ag₂SO₄ Silver sulfate			Al₂(SO₄)₃.aq Aluminum sulfate hydrate			Bi(NO₃)₃·5H₂O Bismuth(III) nitrate pentahydrate		
puriss ACS	30189-EPO	160	G.R.	30172-AP0	9	G.R.	30027-AP0	31
G.R.	30189-AP0	160	pure	30172-CP0	9	pure	30027-CP0	31
AlCl₃ Aluminum chloride anhydrous			As₂O₃ Arsenic trioxide			~ 4BiNO₃(OH)₂·BiO(OH) Bismuth(III) nitrate basic		
G.R.	30078-AP0	7	G.R.	30129-AP0	23	G.R.	30028-AP0	31
pure	30078-CP0	7				pure	30028-CP0	31
AlCl₃·6H₂O Aluminum chloride hexahydrate			BaCO₃ Barium carbonate			Bi₂CO₅ Bismuth(III) carbonate basic		
G.R.	30079-AP0	8	G.R.	30208-AP0	25	pharm.	30209-FP0	30
pure	30079-CP0	8						
Al(NO₃)₃·9H₂O Aluminum nitrate nonahydrate			Ba(ClO₄)₂ Barium perchlorate anhydrous			Bi₂O₃ Bismuth(III) oxide		
G.R.	30030-AP0	8	pure	30103-AP0	27	pure	30131-CP0	31
Al(OH)₃ Aluminum hydroxide			BaCl₂·2H₂O Barium chloride dihydrate			CHCl₃ Chloroform stabilized		
G.R.	10004-AP0	8	puriss ACS	30072-EPO	25	G.R.	20034-AT1	46
pure	10004-CP0	8	G.R.	30072-AP0	26	pure	20034-CT1	46
			pure	30072-CP0	26	for HPLC	20034-LT1	46
Al₂O₃ Aluminum oxide			Ba(NO₃)₂ Barium nitrate			CHNaO₂ Sodium formate		
G.R.	30134-AP0	9	G.R.	30026-AP0	26	G.R.	40102-AP0	167
pure	30134-CP0	9	pure	30026-CP0	26			
for chromatography (Brockmann) neutral	30134-MP0	9				CH₂Cl₂ Dichloromethane stabilized		
			Ba(OH)₂·8H₂O Barium hydroxide octahydrate			puriss ACS	20020-ET1	59
			G.R.	10002-EPO	26	G.R.	20020-AT1	59
			pure	10002-CP0	26	pure	20020-CT1	59
Al₂(SO₄)₃·16H₂O Aluminum sulfate hexadecahydrate			BaO Barium oxide			for HPLC	20020-LT1	60
G.R.	30171-AP0	9	pure	30130-CP0	27	for pesticide residue analysis	20020-RT1	60
pure	30171-CP0	9						

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CH₂O Formaldehyde stabil. 35 % pharm.	40052-F35	75	for pesticide residue analysis	20038-RT0	115	C₂H₃NaO₂ Sodium acetate anhydrous G.R.	40121-AP0	160
CH₂O Formaldehyde stabil. 36–38 % puriss ACS	40052-E38	75	CS₂ Carbon disulfide G.R.	20051-AT0	42	pure	40121-CP0	160
G.R.	40052-A38	75	C₂Cl₄ Tetrachloroethylene G.R.	20055-AT0	187	C₂H₃NaO₂·3H₂O Sodium acetate trihydrate G.R.	40122-AP0	160
pure	40052-C38	75	pure	20055-CT0	187	pure	40122-CP0	161
(CH₂O)_n Paraformaldehyde pure	40127-CP0	126	C₂HCl₃ Trichloroethylene G.R.	20058-AT0	196	pharm.	40122-FP0	161
CH₂O₂ Formic acid 98 % G.R.	10045-A98	76	pure	20058-CT0	196	C₂H₄Cl₂ 1,2-Dichloroethane G.R.	20019-AT0	59
CH₂O₂ Formic acid 96 % pure	10045-C96	76	C₂HCl₃O₂ Trichloroacetic acid G.R.	10063-AT0	195	pure	20019-CT0	59
CH₂O₂ Formic acid 88 % puriss ACS	10045-E88	76	pharm.	10063-FT0	195	C₂H₄O Acetaldehyde G.R.	40001-AT0	1
CH₂O₂ Formic acid 85 % pure	10045-C85	77	C₂H₂Cl₄ 1,1,2,2-Tetrachloroethane pure	20054-CT0	187	pure	40001-CT0	1
CH₃NO Formamide puriss ACS	40003-ET0	76	C₂H₂O₄·2H₂O Oxalic acid dihydrate puriss ACS	10060-EPO	125	C₂H₄O₂ Acetic acid 99,7 % puriss ACS	10047-E9C	1
G.R.	40003-AT0	76	G.R.	10060-AP0	125	C₂H₄O₂ Acetic acid 99,8 % G.R.	10047-A9B	1
pure	40003-CT0	76	pure	10060-CP0	125	C₂H₄O₂ Acetic acid 99 % G.R.	10047-A99	1
CH₃NO₂ Nitromethane G.R.	20042-AT0	123	C₂H₃Cl₃O₂ Chloral hydrate pure	40078-CP0	45	pure	10047-C99	2
pure	20042-CT0	123	C₂H₃ClO Acetyl chloride pure	40080-CT0	6	pharm.	10047-F99	2
CH₄N₂O Urea G.R.	40096-AP0	199	C₂H₃ClO₂ Chloroacetic acid G.R.	10044-AP0	45	C₂H₄O₂ Acetic acid 80 % G.R.	10047-A80	2
pure	40096-CP0	199	pure	10044-CP0	45	pure	10047-C80	2
pharm.	40096-FP0	199	C₂H₃KO₂ Potassium acetate G.R.	40113-AP0	136	C₂H₄O₂S Thioglycolic acid 80 % G.R.	10062-A80	190
CH₄N₂S Thiourea G.R.	40152-AP0	190	pure	40113-CP0	136	pure	10062-C80	190
CH₄O Methanol puriss ACS	20038-ET0	114	C₂H₃N Acetonitrile G.R.	20041-AT0	4	C₂H₄O₃ Glycolic acid pure	10030-CP0	80
G.R.	20038-AT0	114	for HPLC	20041-ST0	4	C₂H₅NO₂ Glycine G.R.	40059-AP0	80
for UV spectroscopy	20038-UT0	114	Super Gradient	20041-LT0	4	pure	40059-CP0	80
for HPLC			for HPLC			C₂H₆O Ethyl alcohol pharm.	20025-F96	70
Super Gradient	20038-ST0	114	for pesticide residue analysis	20041-RT0	4	G.R.	20025-A96	70
for HPLC	20038-LT0	114				for UV spectroscopy	20025-U99	70

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C₂H₆O₂ Ethylene glycol			C₃H₆O Allyl alcohol			pure	40169-CP0	150
G.R.	20026-ATO	70	pure	20003-CT0	7	pharm.	40169-FP0	150
pure	20026-CT0	70	C₃H₆O₂ Propionic acid			C₄H₄KO₇Sb₂O₅H₂O Potassium antimonyl tartrate hemihydrate		
C₂H₆OS Dimethyl sulfoxide			pure	10051-CT0	152	G.R.	40167-AP0	137
puriss ACS	20022-ET0	64	C₃H₆O₃ DL-Lactic acid 90%			G.R.	10015-AP0	25
pure	20022-CP0	64	pure	10022-C90	98	C₄H₄N₂O₃ Barbituric acid		
for UV spectroscopy	20022-UP0	64	C₃H₆O₃ L-(+)-Lactic acid 80%			G.R.	10015-AP0	25
C₂H₇NO Ethanolamine			pure	10022-C80	98	C₄H₄Na₂O₆·2H₂O di-Sodium tartrate dihydrate		
G.R.	40038-ATO	68	C₃H₇NO N,N-Dimethylformamide			G.R.	40168-AP0	178
pure	40038-CT0	68	puriss ACS	20021-ET0	63	pure	40168-CP0	178
C₂H₇NO₂ Ammonium acetate			pure	20021-CT0	63	C₄H₄O₄ Fumaric acid		
puriss ACS	40112-EPO	11	C₃H₈O Isopropanol			G.R.	10028-AP0	77
G.R.	40112-AP0	11	puriss ACS	20037-ET0	96	C₄H₄O₄ Maleic acid		
pure	40112-CP0	11	G.R.	20037-AT0	96	G.R.	10043-AP0	108
C₂H₈N₂ Ethylenediamine			pure	20037-CT0	96	pure	10043-CP0	108
pure	40039-CT0	71	for UV spectroscopy	20037-UT0	96	C₄H₅KO₆ Potassium hydrogen tartrate		
C₂H₈N₂O₄·H₂O Ammonium oxalate monohydrate			for HPLC	20037-LT0	96	G.R.	40065-AP0	145
G.R.	40141-AP0	19	C₃H₈O Propan-1-ol			pure	40065-CP0	145
C₂K₂O₄·H₂O Potassium oxalate monohydrate			G.R.	20049-AT0	152	C₄H₅NaO₆·H₂O Sodium hydrogen tartrate monohydrate		
G.R.	40142-AP0	148	for HPLC	20049-LT0	152	G.R.	40066-AP0	169
C₂Na₂O₄ Sodium oxalate			C₃H₈O₂ Ethylene glycol monomethyl ether			pure	40066-CP0	169
G.R.	40143-AP0	173	pure	20039-CT0	71	C₄H₆CdO₄·2H₂O Cadmium acetate dihydrate		
C₃H₃NaO₃ Pyruvic acid sodium salt			C₃H₈O₂ 1,2-Propanediol			G.R.	40115-AP0	36
G.R.	40133-AP0	154	G.R.	20048-AT0	151	C₄H₆CoO₄·4H₂O Cobalt(II) acetate tetrahydrate		
C₃H₄O₂ Acrylic acid stabilized			pure	20048-CT0	151	G.R.	40116-AP0	49
pure	10011-CT5	6	pharm.	20048-FT0	152	pure	40116-CP0	49
C₃H₆O Acetone			C₃H₈O₃ Glycerol 85%			C₄H₆CuO₄·H₂O Copper(II) acetate monohydrate		
puriss ACS	20001-ET0	3	pharm.	40057-F85	79	G.R.	40117-AP0	51
chem.pure	20001-HT0	3	C₃H₈O₃ Glycerol anhydrous			C₄H₆HgO₄ Mercury(II) acetate		
G.R.	20001-AT0	3	puriss ACS	40058-ET0	79	G.R.	40120-AP0	111
pure	20001-CT0	3	G.R.	40058-AT0	79	C₄H₆MgO₄·4H₂O Magnesium acetate tetrahydrate		
for UV spectroscopy	20001-UT0	3	pharm.	40058-FT0	80	G.R.	40114-AP0	105
for HPLC	20001-LT0	4	C₄H₄KNaO₆·4H₂O Potassium sodium tartrate tetrahydrate					
for pesticide residue analysis	20001-RT0	4	G.R.	40169-AP0	150			

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Chemical/Quality grade	Cat. No.	Page	Chemical/Quality grade	Cat. No.	Page	Chemical/Quality grade	Cat. No.	Page
C₄H₆O₃ Acetic anhydride			C₄H₈O₂ Ethyl acetate			C₄H₁₀O₃ Diethylene glycol		
G.R.	20006-ATO	2	puriss ACS	20028-ETO	69	pure	20017-CTO	61
pure	20006-CTO	2	G.R.	20028-ATO	69	C₄H₁₁N Diethylamine		
C₄H₆O₄ Succinic acid			pure	20028-CTO	69	G.R.	40027-ATO	60
G.R.	10035-AP0	181	for HPLC	20028-LTO	69	C₄H₁₁NO₂ Diethanolamine		
C₄H₆O₄Zn.2H₂O Zinc acetate dihydrate			pharm.	20028-FTO	69	pure	40026-CPO	60
G.R.	40123-AP0	203	C₄H₈O₂ Isobutyric acid			C₄H₁₁NO₃ Tris(hydroxymethyl)aminomethane		
C₄H₆O₅ L-(-)-Malic acid			G.R.	10034-ATO	95	pure	40159-CPO	197
pure	10039-CPO	108	pure	10034-CTO	95	C₄H₁₂BrN Tetramethylammonium bromide		
C₄H₆O₆ L-(+)-Tartaric acid			C₄H₈O₆Pb₂ Lead(II) acetate basic			pure	40150-CPO	189
puriss ACS	10040-EPO	185	according to Horne	40119-OP0	99	C₄H₁₃NO Tetramethylammonium hydroxide solution ~10% in water		
G.R.	10040-AP0	185	C₄H₉NO₆ Ammonium hydrogen tartrate			pure	40151-CTO	189
pure	10040-CPO	186	G.R.	40064-AP0	15	C₅FeN₆Na₂O.2H₂O Sodium nitroprusside dihydrate		
pharm.	10040-FPO	186	pure	40064-CPO	15	G.R.	40111-AP0	173
C₄H₆PbO₄.3H₂O Lead(II) acetate trihydrate			C₄H₁₀O Butan-1-ol			C₅H₅N Pyridine		
G.R.	40118-AP0	99	puriss ACS	20010-ETO	33	puriss ACS	20050-ETO	153
pure	40118-CPO	100	G.R.	20010-ATO	33	G.R.	20050-ATO	153
C₄H₇NO₄ D-Aspartic acid			pure	20010-CTO	33	C₅H₈O₂ Acetylacetone		
pure	10021-CPO	24	C₄H₁₀O Butan-2-ol			G.R.	20002-ATO	5
C₄H₈N₂O₂ Dimethylglyoxime			G.R.	20011-ATO	34	pure	20002-CTO	5
G.R.	40036-AP0	63	pure	20011-CTO	34	C₅H₈O₄ Glutaric acid		
C₄H₈O Ethyl methyl ketone			C₄H₁₀O tert-Butanol			pure	10029-CPO	79
puriss ACS	20024-ETO	73	G.R.	20012-ATO	34	C₅H₉NO₄ L-Glutamic acid		
G.R.	20024-ATO	73	pure	20012-CTO	34	G.R.	10041-AP0	78
pure	20024-CTO	73	C₄H₁₀O Diethyl ether nonstabilized			C₅H₁₀NNaS₂.3H₂O Sodium diethyldithiocarbamate trihydrate		
C₄H₈O Tetrahydrofuran stabilized			G.R.	20018-ATO	61	G.R.	40028-AP0	166
puriss ACS	20052-ET4	188	C₄H₁₀O Diethyl ether stabilized			C₅H₁₂ Pentane		
G.R.	20052-AT4	188	puriss ACS	20018-ET4	61	G.R.	20043-ATO	126
for HPLC	20052-LT4	188	G.R.	20018-AT3	62	pure	20043-CTO	126
C₄H₈O₂ 1,4-Dioxane nonstabilized			pharm.	20018-FT3	62	C₅H₁₁O₂ Ethylene glycol monoethyl ether		
puriss ACS	20023-ETO	64	for pesticide residue analysis	20018-RT2	62	pure		
for UV spectroscopy	20023-UT4	65	C₄H₁₀O 2-Methyl-1-propanol					
C₄H₈O₂ 1,4-Dioxane stabilized			G.R.	20061-ATO	116			
G.R.	20023-AT4	64	pure	20061-CTO	116			
for HPLC	20023-LT4	65	C₄H₁₀O₂ Ethylene glycol monoethyl ether					
			pure	20029-CTO	70			
			71					

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C₅H₁₂ n-Pentane			C₆H₆ Benzene			C₆H₇O₂NH₄ Ammonium dihydrogen citrate		
G.R.	20044-ATO	127	G.R.	20007-ATO	28	anhydrous		
pure	20044-CTO	127	pure	20007-CTO	29	G.R.	30014-AP0	13
for pesticide						pure	30014-CP0	13
residue analysis	20044-RT0	127	C₆H₆N₂O₂ 4-Nitroaniline			C₆H₈N₂ 1,2-Phenylenediamine		
C₅H₁₂O n-Amyl alcohol			G.R.	40109-AP0	123	pure	40044-CP0	132
G.R.	20004-ATO	21	pure	40109-CP0	123	C₆H₈N₂ 1,4-Phenylenediamine		
pure	20004-CTO	21	C₆H₆O Phenol			G.R.	40045-AP0	132
C₅H₁₂O 3-Methyl-1-butanol			puriss ACS	40042-EPO	130	pure	40045-CP0	132
G.R.	20035-ATO	116	G.R.	40042-AP0	131	C₆H₈N₂O₂S Sulfanilamide		
pure	20035-CTO	116	C₆H₆O₂ Hydroquinone			G.R.	40004-AP0	182
C₆H₃N₃O₇ Picric acid			G.R.	40067-AP0	89	pure	40004-CP0	182
G.R.	10050-AP0	136	pure	40067-CP0	89	C₆H₈O₂ Sorbic acid		
C₆H₄O₂ 1,4-Benzoquinone			C₆H₆O₂ Resorcinol			pure	10057-CP0	180
pure	40014-CP0	29	pure	40134-CP0	156	pharm.	10057-FP0	180
C₆H₅Br Bromobenzene			C₆H₆O₃ Pyrogallol			C₆H₈O₆ Ascorbic acid		
pure	40016-CTO	32	puriss ACS	40132-EPO	154	pharm.	10014-FP0	24
C₆H₅Cl Chlorobenzene			G.R.	40132-AP0	154	C₆H₈O₇ Ascorbic acid		
pure	40079-CTO	46	C₆H₆O₃·2H₂O Phloroglucinol dihydrate			puriss ACS, ISO	10014-ZP0	23
C₆H₅FeO₇·H₂O Iron(III) citrate monohydrate			G.R.	40049-AP0	133	G.R.	10014-AP0	24
G.R.	30012-AP0	93	C₆H₆O₇Na₂·H₂O di-Sodium hydrogen citrate			C₆H₈O₇ Citric acid anhydrous		
C₆H₅K₃O₇·H₂O tri-Potassium citrate monohydrate			pure	30057-CP0	168	G.R.	10019-AP0	48
G.R.	30007-AP0	140	C₆H₇KO₂ Sorbic acid potassium salt			pure	10019-CP0	48
pure	30007-CP0	140	G.R.	10058-AP0	180	pharm.	10019-FP0	48
C₆H₅Li₃O₇·4H₂O tri-Lithium citrate tetrahydrate			C₆H₇N Aniline			C₆H₈O₇·H₂O Citric acid monohydrate		
G.R.	30008-AP0	103	pure	40007-ATO	21	G.R.	10020-AP0	48
C₆H₅Na₃O₇·2H₂O tri-Sodium citrate dihydrate			G.R.	40007-CTO	21	pure	10020-CP0	48
G.R.	30009-AP0	164	C₆H₇N.HCl Aniline hydrochloride			pharm.	10020-FP0	48
pure	30009-CP0	164	G.R.	40008-ATO	21	C₆H₉NO₆ Nitritotriacetic acid		
pharm.	30009-FP0	164	pure	40008-CTO	22	for spec. purp.	40072-JP0	123
C₆H₅NO₃ 4-Nitrophenol			C₆H₇NO₃S Sulfanilic acid			C₆H₉N₂O₂ L-Histidine		
G.R.	40110-AP0	124	G.R.	10059-AP0	182	G.R.	40061-ATO	84
pure	40110-CP0	124	pure	10059-CP0	182	C₆H₁₀CaO₆·5H₂O Calcium lactate pentahydrate		
						pharm.	40095-FP0	41

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C₆H₁₀O Cyclohexanone			C₆H₁₂O₆·H₂O D-Glucose monohydrate			C₇H₆O₂ Benzoic acid		
G.R.	20016-ATO	57	G.R.	40056-AP0	78	G.R.	10016-AP0	29
pure	20016-CT0	57				pure	10016-CP0	29
			C₆H₁₄ Hexane			pharm.	10016-FP0	29
C₆H₁₀O₃ Ethyl acetoacetate			G.R.	20031-ATO	82	C₇H₆O₂ Salicylaldehyde		
pure	20027-CT0	69	pure	20031-CT0	82	G.R.	40136-ATO	157
C₆H₁₀O₄ Adipic acid			C₆H₁₄ n-Hexane			C₇H₆O₃ Salicylic acid		
G.R.	10010-AP0	6	G.R.	20032-ATO	83	G.R.	10053-AP0	157
pure	10010-CP0	6	pure	20032-CT0	83	pure	10053-CP0	157
			for UV spectroscopy	20032-UT0	83	pharm.	10053-FP0	158
(C₆H₁₀O₅)_n Starch soluble (from potatoes)			for HPLC 99 %	20032-L99	83			
G.R.	40140-AP0	180	for HPLC 95 %	20032-L95	83	C₇H₆O₆S·2H₂O 5-Sulfosalicylic acid dihydrate		
pure	40140-CP0	180	for pesticide residue analysis 95 %	20032-R95	84	G.R.	10009-AP0	183
			for pesticide residue analysis 99 %	20032-R99	83			
C₆H₁₂ Cyclohexane			C₆H₁₄N₂O₇ di-Ammonium hydrogen citrate anhydrous			C₇H₇Cl Benzyl chloride		
G.R.	20014-ATO	55	G.R.	30056-AP0	14	G.R.	40015-ATO	30
pure	20014-CT0	55	pure	30056-CP0	15	pure	40015-CT0	30
for UV spectroscopy	20014-UT0	56				C₇H₇NO₂ Anthranilic acid		
for HPLC	20014-LT0	56	C₆H₁₄O 1-Hexanol			G.R.	10013-AP0	22
for pesticide residue analysis	20014-RT0	56	pure	20033-CT0	84	pure	10013-CP0	22
C₆H₁₂N₄ Hexamethylenetetramine			C₆H₁₄O₆ D-Mannitol			C₇H₈ Toluene		
G.R.	40060-AP0	82	G.R.	40092-AP0	110	puriss ACS	20056-ET0	193
pure	40060-CP0	82				G.R.	20056-AT0	193
			C₆H₁₅N Triethylamine			pure	20056-CT0	193
C₆H₁₂O Cyclohexanol			pure	20057-CT0	197	for UV spectroscopy	20056-UT0	193
G.R.	20015-ATO	56				for HPLC	20056-LT0	194
pure	20015-CT0	56	C₆H₁₅NO₃ Triethanolamine			for pesticide residue analysis 95 %	20056-RT0	194
			G.R.	40158-ATO	196			
C₆H₁₂O 4-Methylpentan-2-one			pure	40158-CT0	196	C₇H₈O Benzyl alcohol		
pure	20040-CT0	117				G.R.	20009-ATO	30
			C₇H₅NaO₃ Sodium salicylate			pure	20009-CT0	30
C₆H₁₂O₂ Butyl acetate			G.R.	40137-AP0	176			
G.R.	20013-ATO	34				C₇H₈O m-Cresol		
pure	20013-CT0	35	C₇H₅O₂Na Sodium benzoate			pure	40084-CT0	54
			G.R.	40013-AP0	161			
C₆H₁₂O₂ Diacetone alcohol			pharm.	40013-FP0	161	C₇H₈O o-Cresol		
pure	40024-CT0	58				pure	40085-CT0	54
			C₇H₆O Benzaldehyde					
C₆H₁₂O₆ D-Fructose			G.R.	40012-ATO	28	C₇H₈O₃S·H₂O Toluene-4-sulfonic acid monohydrate		
G.R.	40053-AP0	77	pure	40012-CT0	28	G.R.	10052-AP0	194
C₆H₁₂O₆ D-Glucose anhydrous								
G.R.	40055-AP0	78						

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C₇H₉N o-Toluidine G.R. 40156-ATO 194 pure 40156-CTO 195			C₈H₂₀BrN Tetraethylammonium bromide pure 40147-CP0 187			C₁₀H₁₂N₂Na₄O₈.aq Ethylenediaminetetraacetic acid tetrasodium salt hydrate pure 40076-CP0 73		
C₇H₉N p-Toluidine pure 40157-CTO 195			C₈H₂₀IN Tetraethylammonium iodide pure 40148-CP0 188			C₁₀H₁₂Na₂MgN₂O₈.aq Ethylenediaminetetraacetic acid magnesium disodium salt hydrate G.R. 40075-AP0 72 pure 40075-CP0 72		
C₇H₁₄O₂ n-Amyl acetate G.R. 20005-ATO 20 pure 20005-CTO 20			C₉H₇N Quinoline pure 40077-CTO 155			C₁₀H₁₄N₂Na₂O₈.2H₂O Ethylenediaminetetraacetic acid disodium salt dihydrate G.R. 40074-AP0 72 pure 40074-CP0 72 pharm. 40074-FP0 72		
C₇H₁₆ n-Heptane G.R. 20030-ATO 81 pure 20030-CTO 81 for UV spectroscopy 20030-UTO 81 for HPLC 99,5 % 20030-L9X 81 for HPLC 99 % 20030-L99 81 for HPLC 95 % 20030-L95 82			C₉H₇NO 8-Hydroxyquinoline G.R. 40068-AP0 90			C₁₀H₁₆N₂O₈ Ethylenediaminetetraacetic acid G.R. 40154-AP0 191 pure 40154-CP0 191		
C₈H₅KO₄ Potassium hydrogen phthalate G.R. 40063-AP0 144			C₉H₈O₂ Cinnamic acid pure 10056-CP0 48			C₁₀H₁₄O Thymol G.R. 40154-AP0 191 pure 40154-CP0 191		
C₈H₆O₄ Phthalic acid G.R. 10027-AP0 135			C₉H₉NO₃ Hippuric acid pure 10031-CP0 84			C₁₀H₁₆N₂O₈ Ethylenediaminetetraacetic acid G.R. 40073-AP0 72		
C₈H₈N₆O₆ Murexide indicator 40103-IP0 118			C₉H₁₁NO 4-(Dimethylamino)benzaldehyde G.R. 40034-AP0 62 pure 40034-CP0 62			C₁₀H₁₆O Camphor pure 40081-CP0 42 pharm. 40081-FP0 42		
C₈H₈O Acetophenone pure 40002-CTO 5			C₁₀H₈ Naphthalene G.R. 40104-AP0 119			C₁₁H₈N₃NaO₂.H₂O 4-(2-Pyridylazo)resorcinol monosodium salt monohydrate indicator 40131-IP0 153		
C₈H₁₀ Xylene (mixture of C₈H₁₀ isomers) G.R. 20060-ATO 202 pure 20060-CTO 202			C₁₀H₈N₂ 2,2'-Dipyridyl G.R. 40037-AP0 67			C₁₁H₁₃N₃O 4-Aminoantipyrine G.R. 40006-AP0 10 pure 40006-CP0 10		
C₈H₁₀N₄O₂ Caffeine pharm. 40083-FP0 38			C₁₀H₈O 1-Naphthol G.R. 40105-AP0 119 pure 40105-CP0 119			C₁₂H₈N₂.H₂O o-Phenanthroline monohydrate puriss ACS 40041-EP0 130 G.R. 40041-AP0 130		
C₈H₁₁N N,N-Dimethylaniline pure 40035-CTO 63			C₁₀H₈O 2-Naphthol pure 40106-CP0 119			C₁₂H₈N₂.HCl.H₂O o-Phenanthroline hydrochloride monohydrate G.R. 40040-AP0 130		
C₈H₁₈ Isooctane puriss ACS 20036-ET0 95 G.R. 20036-ATO 95 for UV spectroscopy 20036-UTO 95 for HPLC 20036-LT0 95			C₁₀H₉N 1-Naphthylamine G.R. 40108-AP0 120 pure 40108-CP0 120			C₁₂H₁₁N Diphenylamine G.R. 40029-AP0 65 pure 40029-CP0 65		
			C₁₀H₉NO₄S 1-Amino-2-naphthol-4-sulfonic acid G.R. 10008-AP0 10					
			C₁₀H₁₂ 1,2,3,4-Tetrahydronaphthalene pure 20053-CTO 189					

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C₁₂H₁₄N₂·2HCl N-(1-Naphthyl)ethylenediamine dihydrochloride			C₁₄H₁₈N₂O₂·H₂SO₄ Metol			C₁₉H₄₂BrN Cetyltrimethylammonium bromide		
G.R.	40107-AP0	120	G.R.	40094-AP0	117	G.R.	40018-AT0	45
pure	40107-CP0	120	pure	40094-CP0	117	pure	40018-CT0	45
C₁₂H₂₂O₁₁ Saccharose			C₁₄H₂₂N₂O₈·H₂O 1,2-Diaminocyclohexane-N,N,N',N'- tetraacetic acid monohydrate			C₂₀H₁₀Na₂O₅ Fluorescein sodium		
G.R.	40135-AP0	157	G.R.	40071-AP0	58	pharm.	40050-FP0	75
pure	40135-CP0	157				C₂₀H₁₂N₃NaO₇S Eriochrome Black T		
C₁₂H₂₂O₁₁·H₂O Lactose monohydrate			C₁₄H₂₂N₄O₂ Cuprizon			indicator	40020-IP0	68
G.R.	40088-AP0	98	G.R.	40086-AP0	55	C₂₀H₁₂O₅ Fluorescein free acid		
C₁₂H₂₂O₁₁·H₂O D-(+)-Maltose monohydrate			C₁₅H₁₁N₃O 1-(2-Pyridylazo)-2-naphthol			indicator	40051-IP0	74
pure	40091-CP0	108	indicator	40130-IP0	153	C₂₀H₁₄O₄ Phenolphthalein		
C₁₂H₂₅NaO₄S Sodium dodecyl sulfate			C₁₅H₁₄N₃NaO₂ Methyl Red Sodium salt			indicator	40043-IP0	131
G.R.	40089-AP0	167	indicator	40022-IP0	116	C₂₀H₂₀CIN₃ Fuchsin basic		
C₁₃H₈N₃NaO₅ Alizarin Yellow GG			C₁₅H₁₅N₃O₂ Methyl Red			indicator	40054-IP0	77
indicator	40175-IP0	7	indicator	40023-IP0	115	C₂₄H₁₆N₂ Bathophenanthroline		
C₁₃H₁₁NO₂ N-Phenylanthranilic acid			C₁₆H₁₈CIN₃S.aq Methylene Blue			G.R.	40011-AP0	28
G.R.	10046-AP0	131	indicator	40100-IP0	117	C₂₄H₂₀BNA Sodium tetraphenylborate		
C₁₃H₁₂N₄O Diphenylcarbazone			pharm.	40100-FP0	117	puriss ACS	30201-EP0	178
G.R.	40031-AP0	66	C₁₆H₂₂O₄ Dibutyl phthalate			G.R.	30201-AP0	178
C₁₃H₁₂N₄S Diphenylthiocarbazone			pure	40025-CT0	58	C₂₅H₃₀CIN₃ Crystal Violet		
G.R.	40032-AP0	66	C₁₆H₃₄O Cetyl alcohol			for microscopy	40170-DP0	54
C₁₃H₁₄N₄O Diphenylcarbazide			pure	40019-CP0	44	C₂₇H₂₈Br₂O₅S Bromothymol Blue		
G.R.	40030-AP0	66	pharm.	40019-FP0	44	indicator	40098-IP0	33
C₁₄H₁₃NO₂ Cuprone			C₁₆H₃₆BrN Tetrabutylammonium bromide			C₂₇H₃₄N₂O₄S Brilliant Green		
G.R.	40087-AP0	55	pure	40145-CP0	186	indicator	40173-IP0	32
C₁₄H₁₄N₃NaO₃S Methyl Orange			C₁₆H₃₆IN Tetrabutylammonium iodide			C₃₂H₂₂N₆O₆S₂Na₂ Congo Red		
indicator	40125-IP0	115	G.R.	40146-AP0	186	indicator	40021-IP0	50
C₁₄H₁₆N₂ o-Tolidine			C₁₈H₃₄O₂ Oleic acid			C₃₆H₂₄FeN₆O₄S Ferriin solution cca 1/40 M		
G.R.	40155-AP0	193	pure	10049-CT0	125	(0,025 mol/l)		
pure	40155-CP0	193	pharm.	10049-FT0	125	indicator	40046-IT0	74
			C₁₉H₁₀Br₄O₅S Bromophenol Blue			CaCl₂ Calcium chloride anhydrous		
			indicator	40097-IP0	33	granulated		
						G.R.	30096-AP4	38

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CaCl₂ Calcium chloride anhydrous powder G.R. 30096-AP1 39 pure 30096-CP1 39			Cd(NO₃)₂·4H₂O Cadmium nitrate tetrahydrate G.R. 30032-AP0 37			CuCl₂·2H₂O Copper(II) chloride dihydrate G.R. 30088-AP0 51 pure 30088-CP0 51		
CaCl₂·2H₂O Calcium chloride dihydrate G.R. 30097-AP0 39 pure 30097-CP0 39			CdO Cadmium oxide G.R. 30138-AP0 37 pure 30138-CP0 37			Cu(NO₃)₂·3H₂O Copper(II) nitrate trihydrate G.R. 30036-AP0 52 pure 30036-CP0 52		
CaCl₂·6H₂O Calcium chloride hexahydrate G.R. 30098-AP0 39 pure 30098-CP0 39 pharm. 30098-FP0 39			CdS Cadmium sulfide pure 30197-CP0 38			CuO Copper(II) oxide puriss ACS 30143-EP0 52 G.R. 30143-AP0 53 pure 30143-CP0 53		
CaCO₃ Calcium carbonate G.R. precipitated 30219-AP0 38 pure 30219-CP0 38 pharm. 30219-FP0 38			3CdSO₄·8H₂O Cadmium sulfate hydrate G.R. 30177-AP0 37 pure 30177-CP0 37			CuSO₄ Copper(II) sulfate anhydrous G.R. 30181-AP0 53 pure 30181-CP0 53		
CaHPO₄·2H₂O Calcium hydrogen phosphate dihydrate pure 30062-CP0 40 pharm. 30062-FP0 40			CeCl₃·7H₂O Cerium(III) chloride heptahydrate G.R. 30073-AP0 43			CuSO₄·5H₂O Copper(II) sulfate pentahydrate G.R. 30182-AP0 53 pure 30182-CP0 53 pharm. 30182-FP0 53		
Ca(H₂PO₄)₂·H₂O Calcium dihydrogen phosphate monohydrate G.R. 30018-AP0 40			CoCl₂·6H₂O Cobalt(II) chloride hexahydrate G.R. 30084-AP0 49 pure 30084-CP0 49			Cu₂O Copper(I) oxide pure 30144-CP0 52		
Ca(NO₃)₂·4H₂O Calcium nitrate tetrahydrate G.R. 30043-AP0 41 pure 30043-CP0 41			Co(NO₃)₂·6H₂O Cobalt(II) nitrate hexahydrate G.R. 30033-AP0 49			Fe Iron powder G.R. 30223-AP0 93		
CaO Calcium oxide G.R. 30149-AP0 41 pure 30149-CP0 41 pharm. 30149-FP0 41			CoSO₄·7H₂O Cobalt(II) sulfate heptahydrate G.R. 30178-AP0 50 pure 30178-CP0 50			FeCl₂ Iron(II) chloride anhydrous pure 30102-CP0 92		
Ca(OH)₂ Calcium hydroxide G.R. 10007-AP0 40 pure 10007-CP0 40			CrCl₃·6H₂O Chromium(III) chloride hexahydrate G.R. 30081-AP0 47			FeCl₃ Iron(III) chloride anhydrous pure 30100-CP0 92		
CaSO₄·2H₂O Calcium sulfate precipitated dihydrate G.R. 30190-AP0 42			Cr₂O₃ Chromium(III) oxide pure 30136-CP0 47			FeCl₃·6H₂O Iron(III) chloride hexahydrate G.R. 30101-AP0 92 pure 30101-CP0 92		
CdCl₂·2H₂O Cadmium chloride dihydrate pure 30083-CP0 36			CsCl Cesium chloride G.R. 30074-AP0 44			FeS Iron(II) sulfide for Kipp's apparatus 30199-KP0 94		
			CuCl Copper(I) chloride G.R. 30089-AP0 51			FeSO₄·7H₂O Iron(II) sulfate heptahydrate G.R. 30193-AP0 94 pure 30193-CP0 94		

Molecular Formula Index

Chemical/Quality grade	Cat. No.	Page
Fe₂O₃ Iron(III) oxide		
G.R.	30151-AP0	93
pure	30151-CP0	93
Fe₂(SO₄)₃.aq Iron(III) sulfate hydrate		
G.R.	30192-AP0	94
pure	30192-CP0	94
HAuCl₄.3H₂O Hydrogen tetrachloroaurate(III) trihydrate		
puriss ACS	10061-EPO	88
HBr Hydrobromic acid 48 %		
G.R.	10018-A48	85
pure	10018-C48	85
HCl Hydrochloric acid 37		
puriss ACS	10033-E37	86
HCl Hydrochloric acid 37 %		
selectipur	10033-P37	86
G.R.	10033-A37	86
HCl Hydrochloric acid 35 % (As max. 0.000001 %)		
G.R.	10033-ATX	86
HCl Hydrochloric acid 35 %		
G.R.	10033-A35	86
pure	10033-C35	87
pharm.	10033-F35	87
HClO₄ Perchloric acid 70 %		
puriss ACS	10032-E70	127
G.R.	10032-A70	127
HClO₄ Perchloric acid 68 %		
G.R.	10032-A68	127
HF Hydrofluoric acid 50 %		
puriss ACS	10024-E50	87
selectipur	10024-P50	87
HF Hydrofluoric acid 40 %		
selectipur	10024-P40	87
G.R.	10024-A40	87
pure	10024-C40	88

Chemical/Quality grade	Cat. No.	Page
Hg Mercury		
G.R.	30158-AT0	111
HgCl₂ Mercury(II) chloride		
puriss ACS	30092-EPO	111
G.R.	30092-AP0	111
pure	30092-CP0	112
pharm.	30092-FPO	112
HgI₂ Mercury(II) iodide red		
G.R.	30116-AP0	112
pure	30116-CP0	112
Hg(NO₃)₂.aq Mercury(II) nitrate hydrate		
G.R.	30039-AP0	112
HgO Mercury(II) oxide red		
G.R.	30146-AP0	113
HgO Mercury(II) oxide yellow		
G.R.	30147-AP0	113
HgSO₄ Mercury(II) sulfate		
puriss ACS	30186-EPO	113
G.R.	30186-AP0	113
HI Hydroiodic acid 57 %		
G.R.	10037-A57	89
pure	10037-C57	89
HNO₃ Nitric acid 65 %		
puriss ACS	10023-ETO	122
selectipur	10023-PTO	122
G.R.	10023-ATO	122
pure	10023-CTO	122
H₂O Water for HPLC		
	20059-LT0	201
H₂O₂ Hydrogen peroxide 30 % nonstabilized		
G.R.	10064-A30	88
H₂O₂ Hydrogen peroxide 30 % stabilized		
puriss ACS	10064-ET5	88
pharm.	10064-FT5	88

Chemical/Quality grade	Cat. No.	Page
H₂SO₄ Sulfuric acid 96 %		
puriss ACS	10055-E96	183
chem. pure	10055-H96	184
G.R.	10055-A96	184
pure	10055-C96	184
H₂SO₄ Sulfuric acid 90–91 % for milk-analysis		
	10055-G91	184
H₂SeO₃ Selenious acid		
pure	10054-CP0	158
H₃BO₃ Boric acid		
G.R.	10017-AP0	32
pure	10017-CP0	32
pharm.	10017-FPO	32
H₃PO₄ ortho-Phosphoric acid 85 %		
puriss ACS	10048-E85	133
G.R.	10048-A85	134
pure	10048-C85	134
H₃PO₄.1.2MoO₃.aq Phosphomolybdic acid hydrate		
G.R.	10025-AP0	133
pure	10025-CP0	133
H₅IO₆ Periodic acid		
G.R.	10036-AP0	128
H₆N₂O₃S Ammonium sulfamate		
G.R.	40005-AP0	19
puriss ACS	40005-EPO	19
H₇[P(W₂O₇)₆].aq Phosphotungstic acid hydrate		
G.R.	10026-AP0	135
ICl₃ Iodine trichloride		
pure	30082-CP0	91
I₂ Iodine		
puriss ACS	30111-EPO	91
G.R.	30111-AP0	91
pure	30111-CP0	91
pharm.	30111-FPO	91

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Chemical/Quality grade	Cat. No.	Page	Chemical/Quality grade	Cat. No.	Page	Chemical/Quality grade	Cat. No.	Page
KAl(SO₄)₂·12H₂O Potassium aluminum sulfate dodecahydrate			KHSO₄ Potassium hydrogen sulfate			KSCN Potassium thiocyanate		
G.R.	30168-AP0	136	G.R.	30063-AP0	144	G.R.	30203-AP0	151
pure	30168-CP0	136	pure	30063-CP0	144	K₂CO₃ Potassium carbonate anhydrous		
pharm.	30168-FP0	136	KH₂PO₄ Potassium dihydrogen phosphate			G.R.	30212-AP0	138
KBr Potassium bromide			puriss ACS	30016-EP0	141	pure	30212-CP0	138
G.R.	30005-AP0	137	G.R.	30016-AP0	141	pharm.	30212-FP0	138
pure	30005-CP0	137	pure	30016-CP0	141	K₂CO₃·1,5H₂O Potassium carbonate sesquihydrate		
pharm.	30005-FP0	137	pharm.	30016-FP0	141	G.R.	30211-AP0	138
KBrO₃ Potassium bromate			KI Potassium iodide			K₂CrO₄ Potassium chromate		
G.R.	30002-AP0	137	puriss ACS	30115-EP0	146	G.R.	30108-AP0	139
pure	30002-CP0	137	G.R.	30115-AP0	146	pure	30108-CP0	139
KCl Potassium chloride			pure	30115-CP0	147	K₂Cr₂O₇ Potassium dichromate		
puriss ACS	30076-EP0	139	pharm.	30115-FP0	147	G.R.	30020-AP0	141
G.R.	30076-AP0	139	KIO₃ Potassium iodate			pure	30020-CP0	141
pure	30076-CP0	139	G.R.	30112-AP0	146	K₂HPO₄ di-Potassium hydrogen phosphate		
pharm.	30076-FP0	139	pure	30112-CP0	146	G.R.	30060-AP0	144
KClO₃ Potassium chlorate			pharm.	30112-FP0	146	pure	30060-CP0	144
G.R.	30068-AP0	138	KIO₄ Potassium periodate			pharm.	30060-FP0	144
KClO₄ Potassium perchlorate			G.R.	30118-AP0	148	K₂S₂O₅ Potassium disulfite		
G.R.	30104-AP0	148	KMnO₄ Potassium permanganate			G.R.	30023-AP0	142
pure	30104-CP0	148	puriss ACS	30123-EP0	149	pure	30023-CP0	142
KCN Potassium cyanide granules			G.R.	30123-AP0	149	K₂S₂O₇ Potassium disulfate		
pure	30121-CP4	140	pure	30123-CP0	149	G.R.	30022-AP0	142
KCN Potassium cyanide powder			pharm.	30123-FP0	149	K₂S₂O₈ Potassium peroxydisulfate		
pure	30121-CP0	140	KNO₂ Potassium nitrite			G.R.	30155-AP0	149
KCr(SO₄)₂·12H₂O Potassium chromium(III) sulfate dodecahydrate			G.R.	30045-AP0	147	K₂Sn Potassium polysulfide		
G.R.	30169-AP0	140	pure	30045-CP0	147	G.R.	40128-AP0	149
pure	30169-CP0	140	KNO₃ Potassium nitrate			pure	40128-CP0	149
KF Potassium fluoride			G.R.	30029-AP0	147	K₂SO₃ Potassium sulfite		
G.R.	30048-AP0	142	pure	30029-CP0	147	pure	30194-CP0	151
pure	30048-CP0	142	pharm.	30029-FP0	147	K₂SO₄ Potassium sulfate		
KHCO₃ Potassium hydrogen carbonate			KOH Potassium hydroxide			puriss ACS	30170-EP0	150
G.R.	30066-AP0	143	puriss ACS	10003-EP0	145	G.R.	30170-AP0	150
pure	30066-CP0	143	KOH Potassium hydroxide scales			pure	30170-CP0	151
			chem. pure	10003-HP3	145			
			G.R.	10003-AP3	145			
			pure	10003-CP3	146			
			pharm.	10003-FP3	146			

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Chemical/Quality grade	Cat. No.	Page
K₃[Fe(CN)₆] Potassium hexacyanoferrate(III)		
puriss ACS	30053-EP0	143
G.R.	30053-AP0	143
pure	30053-CP0	143
K₄[Fe(CN)₆].3H₂O Potassium hexacyanoferrate(II) trihydrate		
G.R.	30054-AP0	143
pure	30054-CP0	143
La₂O₃ Lanthanum oxide		
G.R.	30140-AP0	99
LiCl Lithium chloride anhydrous		
G.R.	30085-AP0	102
pure	30085-CP0	102
LiCl.H₂O Lithium chloride monohydrate		
G.R.	30086-AP0	102
pure	30086-CP0	102
LiNO₃ Lithium nitrate		
pure	30034-CP0	103
LiOH.H₂O Lithium hydroxide monohydrate		
pure	10005-CP0	103
Li₂CO₃ Lithium carbonate		
G.R.	30214-AP0	102
pure	30214-CP0	102
pharm.	30214-FP0	102
Li₂SO₄.H₂O Lithium sulfate monohydrate		
G.R.	30179-AP0	104
pure	30179-CP0	104
Mg(ClO₄)₂ Magnesium perchlorate		
puriss ACS	30105-EP0	106
Mg(ClO₄)₂.aq Magnesium perchlorate hydrate		
G.R.	30106-AP0	107
MgCl₂.6H₂O Magnesium chloride hexahydrate		
G.R.	30080-AP0	105

Chemical/Quality grade	Cat. No.	Page
Mg(NO₃)₂.6H₂O Magnesium nitrate hexahydrate		
G.R.	30031-AP0	105
pure	30031-CP0	106
MgO Magnesium oxide		
G.R.	30135-AP0	106
MgO Magnesium oxide light pharm.		
pharm.	30135-FP7	106
MgSO₄ Magnesium sulfate anhydrous		
pure	30174-CP0	107
MgSO₄.7H₂O Magnesium sulfate heptahydrate		
G.R.	30175-AP0	107
pure	30175-CP0	107
pharm.	30175-FP0	107
Mg₃Si₄O₁₀(OH)₂ Talc		
pharm.	40093-FP0	185
MnCl₂.4H₂O Manganese(II) chloride tetrahydrate		
G.R.	30087-AP0	109
pure	30087-CP0	109
Mn(NO₃)₂.4H₂O Manganese(II) nitrate tetrahydrate		
G.R.	30035-AP0	109
MnO₂ Manganese(IV) oxide 80%		
pure	30141-CP0	110
MnO₂ Manganese(IV) oxide 90%		
pure	30142-CP0	109
MnSO₄.H₂O Manganese(II) sulfate monohydrate		
G.R.	30180-AP0	110
pure	30180-CP0	110
NH₂OH.HCl Hydroxylamine hydrochloride		
G.R.	40069-AP0	89
pure	40069-CP0	89
(NH₂OH)₂.H₂SO₄ Hydroxylamine sulfate		
pure	40070-CP0	90

Chemical/Quality grade	Cat. No.	Page
NH₂SO₃H Sulfamic acid		
G.R.	10012-AP0	182
NH₄Al(SO₄)₂.12H₂O Ammonium aluminum sulfate dodecahydrate		
G.R.	30162-AP0	11
pure	30162-CP0	11
NH₄Br Ammonium bromide		
G.R.	30004-AP0	11
pure	30004-CP0	12
NH₄Cl Ammonium chloride		
puriss ACS	30070-EP0	12
G.R.	30070-AP0	12
pure	30070-CP0	12
pharm.	30070-FP0	12
NH₄F Ammonium fluoride		
puriss ACS	30047-EP0	14
G.R.	30047-AP0	14
pure	30047-CP0	14
NH₄Fe(SO₄)₂.12H₂O Ammonium iron(III) sulfate dodecahydrate		
G.R.	30163-AP0	17
pure	30163-CP0	17
NH₄HCO₃ Ammonium hydrogen carbonate		
G.R.	30065-AP0	14
pure	30065-CP0	14
(NH₄)H₂PO₄ Ammonium dihydrogen phosphate		
G.R.	30015-AP0	13
pure	30015-CP0	13
NH₄I Ammonium iodide		
G.R.	30114-AP0	16
NH₄NO₃ Ammonium nitrate		
G.R.	30025-AP0	18
pure	30025-CP0	18
NH₄OH Ammonium hydroxide solution 25%		
puriss ACS	10001-E25	16
G.R.	10001-A25	16
pure	10001-C25	16

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Chemical/Quality grade	Cat. No.	Page	Chemical/Quality grade	Cat. No.	Page	Chemical/Quality grade	Cat. No.	Page
NH₄SCN Ammonium thiocyanate			NaAsO₂ Sodium metaarsenite			NaHSO₄·H₂O Sodium hydrogen sulfate monohydrate		
G.R.	30202-AP0	20	G.R.	30001-AP0	172	G.R.	30064-AP0	169
pure	30202-CP0	20				pure	30064-CP0	169
NH₄VO₃ Ammonium metavanadate			NaBO₃·4H₂O Sodium perborate pharm.			NaH₂PO₂·H₂O Sodium hypophosphite monohydrate		
G.R.	30124-AP0	17	pharm.	30153-FP0	174	G.R.	30052-AP0	171
pure	30124-CP0	18				pure	30052-CP0	171
(NH₄)₂CO₃ Ammonium carbonate			NaBr Sodium bromide			NaH₂PO₄·2H₂O Sodium dihydrogen phosphate dihydrate		
G.R.	30207-AP0	12	G.R.	30006-AP0	162	G.R.	30017-AP0	166
			pure	30006-CP0	162	pure	30017-CP0	166
(NH₄)₂Cr₂O₇ Ammonium dichromate			NaBrO₃ Sodium bromate					
G.R.	30019-AP0	13	G.R.	30003-AP0	162			
pure	30019-CP0	13	pure	30003-CP0	162			
(NH₄)₂Fe(SO₄)₂·6H₂O Ammonium iron(II) sulfate hexahydrate			NaCl Sodium chloride			NaI Sodium iodide		
G.R.	30164-AP0	17	puriss ACS	30093-EP0	163	G.R.	30117-AP0	171
pure	30164-CP0	17	G.R.	30093-AP0	164	pure	30117-CP0	171
			pharm.	30093-FP0	164	pharm.	30117-FP0	171
(NH₄)₂HPO₄ di-Ammonium hydrogen phosphate			NaClO₃ Sodium chlorate			NaIO₃ Sodium iodate		
G.R.	30059-AP0	15	G.R.	30069-AP0	163	G.R.	30113-AP0	171
pure	30059-CP0	15	pure	30069-CP0	163			
(NH₄)₂SO₄ Ammonium sulfate			NaClO₄·H₂O Sodium perchlorate monohydrate			NaIO₄ Sodium periodate		
G.R.	30165-AP0	20	G.R.	30107-AP0	174	G.R.	30119-AP0	174
pure	30165-CP0	20						
(NH₄)₂S₂O₈ Ammonium peroxodisulfate			NaCN Sodium cyanide powder			NaKCO₃ Potassium sodium carbonate		
G.R.	30154-AP0	19	G.R.	30122-AP0	165	G.R.	30210-AP0	150
pure	30154-CP0	19						
(NH₄)₆Mo₇O₂₄·4H₂O Ammonium molybdate tetrahydrate			NaCN Sodium cyanide tablets			NaNO₂ Sodium nitrite		
puriss ACS	30126-EP0	18	G.R.	30122-AP5	165	G.R.	30046-AP0	173
G.R.	30126-AP0	18				pure	30046-CP0	173
pure	30126-CP0	18	NaCN Sodium cyanide powder			NaNO₃ Sodium nitrate		
			pure	30122-CP0	165	G.R.	30040-AP0	172
NH₅F₂ Ammonium hydrogen difluoride			NaCN Sodium cyanide tablets			pure	30040-CP0	172
pure	30058-CP0	15	pure	30122-CP5	165	NaN₃ Sodium azide		
						G.R.	40009-AP0	161
N₂H₄·2HCl Hydrazine dihydrochloride			NaF Sodium fluoride			pure	40009-CP0	161
G.R.	40062-AP0	85	G.R.	30049-AP0	167	NaOH Sodium hydroxide		
pure	40062-CP0	85	pure	30049-CP0	167	puriss ACS	10006-EP0	169
			pharm.	30049-FP0	167	NaOH Sodium hydroxide micropearls chem. pure		
N₂H₄·H₂SO₄ Hydrazine sulfate			NaHCO₃ Sodium hydrogen carbonate			chem. pure	10006-HP1	170
G.R.	40139-AP0	85	G.R.	30067-AP0	168			
pure	40139-CP0	85	pharm.	30067-FP0	168			

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Chemical/Quality grade	Cat. No.	Page
NaOH Sodium hydroxide pearls chem. pure	10006-HP2	170
NaOH Sodium hydroxide micropearls G.R.	10006-AP1	170
NaOH Sodium hydroxide pearls G.R.	10006-AP2	170
NaOH Sodium hydroxide micropearls pure	10006-CP1	170
NaOH Sodium hydroxide pearls pure	10006-CP2	170
NaOH Sodium hydroxide micropearls pharm.	10006-FP1	171
NaSCN Sodium thiocyanate G.R.	30204-AP0	179
Na₂B₄O₇·10H₂O Sodium tetraborate decahydrate G.R. pure pharm.	30200-AP0 30200-CP0 30200-FP0	178 178 178
Na₂CO₃ Sodium carbonate anhydrous G.R. pure pharm.	30217-AP0 30217-CP0 30217-FP0	162 162 162
Na₂CO₃·10H₂O Sodium carbonate decahydrate G.R. pure	30218-AP0 30218-CP0	163 163
Na₂CrO₄·4H₂O Sodium chromate tetrahydrate G.R. pure	30110-AP0 30110-CP0	164 164
Na₂Cr₂O₇·2H₂O Sodium dichromate dihydrate G.R. pure	30021-AP0 30021-CP0	165 165
Na₂HPO₄·12H₂O di-Sodium hydrogen phosphate dodecahydrate G.R.	30061-AP0	168

Chemical/Quality grade	Cat. No.	Page
pure pharm.	30061-CP0 30061-FP0	168 169
Na₂MoO₄·2H₂O Sodium molybdate dihydrate G.R.	30127-AP0	172
Na₂O₂ Sodium peroxide G.R.	30152-AP0	175
Na₂S·aq Sodium sulfide hydrate G.R. pure	30198-AP0 30198-CP0	177 177
Na₂SO₃ Sodium sulfite anhydrous G.R. pure	30195-AP0 30195-CP0	177 177
Na₂SO₄ Sodium sulfate anhydrous puriss ACS G.R. pure pharm.	30187-EPO 30187-AP0 30187-CP0 30187-FP0	176 176 176 176
Na₂SO₄·10H₂O Sodium sulfate decahydrate G.R. pure pharm.	30188-AP0 30188-CP0 30188-FP0	177 177 177
Na₂S₂O₃ Sodium thiosulfate anhydrous pure	30205-CP0	179
Na₂S₂O₃·5H₂O Sodium thiosulfate pentahydrate puriss ACS G.R. pure pharm.	30206-EPO 30206-AP0 30206-CP0 30206-FP0	179 179 179 179
Na₂S₂O₅ Sodium disulfite G.R. pure	30024-AP0 30024-CP0	166 166
Na₂S₂O₈ Sodium peroxydisulfate G.R.	30156-AP0	175
Na₃PO₄·12H₂O tri-Sodium phosphate dodecahydrate G.R. pure	30051-AP0 30051-CP0	175 175

Chemical/Quality grade	Cat. No.	Page
~ NiCO₃·2Ni(OH)₂·4H₂O Nickel(II) carbonate basic hydrate pure	30215-CP0	120
NiCl₂·6H₂O Nickel(II) chloride hexahydrate G.R. pure	30090-AP0 30090-CP0	121 121
Ni(NO₃)₂·6H₂O Nickel(II) nitrate hexahydrate G.R. pure	30037-AP0 30037-CP0	121 121
NiSO₄·6H₂O Nickel(II) sulfate hexahydrate G.R. pure	30184-AP0 30184-CP0	122 122
NiSO₄·7H₂O Nickel(II) sulfate heptahydrate G.R. pure	30183-AP0 30183-CP0	121 121
P Phosphorus red pure	30050-CP0	135
PCl₅ Phosphorus pentachloride G.R.	30077-AP0	134
P₂O₅ Phosphorus pentoxide G.R. pure	30133-AP0 30133-CP0	134 134
PbCO₃ Lead(II) carbonate G.R.	30216-AP0	100
PbCl₂ Lead(II) chloride G.R.	30091-AP0	100
PbCrO₄ Lead(II) chromate G.R.	30109-AP0	100
Pb(NO₃)₂ Lead(II) nitrate G.R. pure	30038-AP0 30038-CP0	101 101
PbO Lead(II) oxide yellow G.R. pure	30145-AP0 30145-CP0	101 101

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Chemical/Quality grade	Cat. No.	Page	Chemical/Quality grade	Cat. No.	Page	Chemical/Quality grade	Cat. No.	Page
PbSO₄			G.R.	30075-AP0	191	Zn		
Lead(II) sulfate			pure	30075-CP0	191	Zinc granulated		
pure	30185-CP0	101	SnO₂			G.R.	30221-AP4	203
S			Tin(IV) oxide			Zn		
Sulfur			pure	30132-CP0	191	Zinc powder		
G.R.	30161-AP0	183	SnSO₄			G.R.	30222-AP0	203
pure	30161-CP0	183	Tin(II) sulfate			[ZnCO₃]₂·[Zn(OH)₂]₃		
pharm.	30161-FP0	183	G.R.	30167-AP0	192	Zinc carbonate basic		
SbCl₃			pure	30167-CP0	192	pure	30220-CP0	204
Antimony(III) chloride			SOCl₂			ZnCl₂		
G.R.	30071-AP0	22	Thionyl chloride			Zinc chloride anhydrous		
pure	30071-CP0	22	pure	40153-CT0	190	G.R.	30099-AP0	204
Sb₂O₃			SrCl₂·6H₂O			pure	30099-CP0	204
Antimony(III) oxide			Strontium chloride hexahydrate			Zn(NO₃)₂·6H₂O		
G.R.	30128-AP0	23	G.R.	30094-AP0	181	Zinc nitrate hexahydrate		
pure	30128-CP0	23	Sr(NO₃)₂			G.R.	30044-AP0	204
Sb₂S₃			Strontium nitrate			pure	30044-CP0	204
Antimony(III) sulfide			G.R.	30041-AP0	181	ZnO		
pure	30196-CP0	23	TiCl₄			Zinc oxide		
SiO₂			Titanium(IV) tetrachloride			G.R.	30150-AP0	205
Silicon dioxide			G.R.	30095-AT0	192	pharm.	30150-FP0	205
G.R.	30139-AP0	159	pure	30095-CT0	192	ZnSO₄·7H₂O		
SiO₂.aq			TiO₂			Zinc sulfate heptahydrate		
Silicic acid hydrate			Titanium(IV) oxide			G.R.	30191-AP0	205
G.R.	10038-AP0	159	G.R.	30148-AP0	192	pure	30191-CP0	205
SnCl₂·2H₂O			Tin(II) chloride dihydrate			pharm.	30191-FP0	205
puriss ACS	30075-EPO	191						



Corrosive



Explosive



Highly flammable



Extremely flammable



Dangerous for the environment



Oxidizing



Toxic



Very toxic



Irritant



Harmful

R-phrases (nature of special risks attributed to dangerous substances)

- | | | | | | |
|-------------|--|-------------|---|-------------|---|
| R 1 | Explosive when dry. | R 25 | Toxic if swallowed. | R 49 | May cause cancer by inhalation. |
| R 2 | Risk of explosion by shock, friction, fire or other sources of ignition. | R 26 | Very toxic by inhalation. | R 50 | Very toxic to aquatic organisms. |
| R 3 | Extreme risk of explosion by shock, friction, fire or other sources of ignition. | R 27 | Very toxic in contact with skin. | R 51 | Toxic to aquatic organisms. |
| R 4 | Forms very sensitive explosive metallic compounds. | R 28 | Very toxic if swallowed. | R 52 | Harmful to aquatic organisms. |
| R 5 | Heating may cause an explosion. | R 29 | Contact with water liberates toxic gas. | R 53 | May cause long-term adverse effects in the aquatic environment. |
| R 6 | Explosive with or without contact with air. | R 30 | Can become highly flammable in use. | R 54 | Toxic to flora. |
| R 7 | May cause fire. | R 31 | Contact with acids liberates toxic gas. | R 55 | Toxic to fauna. |
| R 8 | Contact with combustible material may cause fire. | R 32 | Contact with acids liberates very toxic gas. | R 56 | Toxic to soil organisms. |
| R 9 | Explosive when mixed with combustible material. | R 33 | Danger of cumulative effects. | R 57 | Toxic to bees. |
| R 10 | Flammable. | R 34 | Causes burns. | R 58 | May cause long-term adverse effects in the environment. |
| R 11 | Highly flammable. | R 35 | Causes severe burns. | R 59 | Dangerous for the ozone layer. |
| R 12 | Extremely flammable. | R 36 | Irritating to eyes. | R 60 | May impair fertility. |
| R 14 | Reacts violently with water. | R 37 | Irritating to respiratory system. | R 61 | May cause harm to the unborn child. |
| R 15 | Contact with water liberates extremely flammable gases. | R 38 | Irritating to skin. | R 62 | Possible risk of impaired fertility. |
| R 16 | Explosive when mixed with oxidizing substances. | R 39 | Danger of very serious irreversible effects. | R 63 | Possible risk of harm to the unborn child. |
| R 17 | Spontaneously flammable in air. | R 40 | Limited evidence of a carcinogenic effect. | R 64 | May cause harm to breastfed babies. |
| R 18 | In use, may form flammable/explosive vapour-air mixture. | R 41 | Risk of serious damage to eyes. | R 65 | Harmful: may cause lung damage if swallowed. |
| R 19 | May form explosive peroxides. | R 42 | May cause sensitization by inhalation. | R 66 | Repeated exposure may cause skin dryness or cracking. |
| R 20 | Harmful by inhalation. | R 43 | May cause sensitization by skin contact. | R 67 | Vapours may cause drowsiness and dizziness. |
| R 21 | Harmful in contact with skin. | R 44 | Risk of explosion if heated under confinement. | R 68 | Possible risks of irreversible effects. |
| R 22 | Harmful if swallowed. | R 45 | May cause cancer. | | |
| R 23 | Toxic by inhalation. | R 46 | May cause heritable genetic damage. | | |
| R 24 | Toxic in contact with skin. | R 48 | Danger of serious damage to health by prolonged exposure. | | |

R-phrases (nature of special risks attributed to dangerous substances)

COMBINATION of R-phrases					
R 14/15	Reacts violently with water, liberating extremely flammable gases.	R 39/24	Toxic: danger of very serious irreversible effects in contact with skin.	R 42/43	with skin and if swallowed.
R 15/29	Contact with water liberates toxic, extremely flammable gas.	R 39/25	Toxic: danger of very serious irreversible effects if swallowed.	R 48/20	May cause sensitization by inhalation and skin contact.
R 20/21	Harmful by inhalation and in contact with skin.	R 39/23/24	Toxic: danger of very serious irreversible effects through inhalation and in contact with skin.	R 48/21	Harmful: danger of serious damage to health by prolonged exposure in contact with skin.
R 20/22	Harmful by inhalation and if swallowed.	R 39/23/25	Toxic: danger of very serious irreversible effects through inhalation and if swallowed.	R 48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R 20/21/22	Harmful by inhalation, in contact with skin and if swallowed.	R 39/24/25	Toxic: danger of very serious irreversible effects in contact with skin and if swallowed.	R 48/20/21	Harmful: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.
R 21/22	Harmful in contact with skin and if swallowed.	R 39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.	R 48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R 23/24	Toxic by inhalation and in contact with skin.	R 39/26	Very toxic: danger of very serious irreversible effects through inhalation.	R 48/21/22	Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
R 23/25	Toxic by inhalation and if swallowed.	R 39/27	Very toxic: danger of very serious irreversible effects in contact with skin.	R 48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R 23/24/25	Toxic by inhalation, in contact with skin and if swallowed.	R 39/28	Very toxic: danger of very serious irreversible effects if swallowed.	R 48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R 24/25	Toxic in contact with skin and if swallowed.	R 39/26/27	Very toxic: danger of very serious irreversible effects through inhalation and in contact with skin.	R 48/24	Toxic: danger of serious damage to health by prolonged exposure in contact with skin.
R 26/27	Very toxic by inhalation and in contact with skin.	R 39/26/28	Very toxic: danger of very serious irreversible effects through inhalation and if swallowed.	R 48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.
R 26/28	Very toxic by inhalation and if swallowed.	R 39/27/28	Very toxic: danger of very serious irreversible effects in contact with skin and if swallowed.	R 48/23/24	Toxic: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.
R 26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.	R 39/26/27/28	Very toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.		
R 27/28	Very toxic in contact with skin and if swallowed.				
R 36/37	Irritating to eyes and respiratory system.				
R 36/38	Irritating to eyes and skin.				
R 36/37/38	Irritating to eyes, respiratory system and skin.				
R 37/38	Irritating to respiratory system and skin.				
R 39/23	Toxic: danger of very serious irreversible effects through inhalation.				

R-phrases (nature of special risks attributed to dangerous substances)

R 48/23/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.	R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	R 68/20/21	Harmful: possible risk of irreversible effects through inhalation and in contact with skin.
R 48/24/25	Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.	R 52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	R 68/20/22	Harmful: possible risk of irreversible effects through inhalation and if swallowed.
R 48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.	R 68/20	Harmful: possible risk of irreversible effects through inhalation.	R 68/21/22	Harmful: possible risk of irreversible effects in contact with skin and if swallowed.
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	R 68/21	Harmful: possible risk of irreversible effects in contact with skin.	R 68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed
		R 68/22	Harmful: possible risk of irreversible effects if swallowed.		

S-phrases (safety advice concerning dangerous chemical substances)

- S 1** Keep locked up.
- S 2** Keep out of the reach of children.
- S 3** Keep in a cool place.
- S 4** Keep away from living quarters.
- S 5** Keep contents under ...(appropriate liquid to be specified by the manufacturer).
- S 6** Keep contents under ...(appropriate gas to be specified by the manufacturer).
- S 7** Keep container tightly closed.
- S 8** Keep container dry.
- S 9** Keep container in a well-ventilated place.
- S 12** Do not keep the container sealed.
- S 13** Keep away from food, drink and animal feedingstuffs.
- S 14** Keep away from ... (incompatible materials to be indicated by the manufacturer).
- S 15** Keep away from heat.
- S 16** Keep away from sources of ignition - No smoking.
- S 17** Keep away from combustible material.
- S 18** Handle and open container with care.
- S 20** When using do not eat or drink.
- S 21** When using do not smoke.
- S 22** Do not breathe dust.
- S 23** Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- S 24** Avoid contact with skin.
- S 25** Avoid contact with eyes.
- S 26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 27** Take off immediately all contaminated clothing.
- S 28** After contact with skin, wash immediately with plenty of ...(to be specified by the manufacturer).
- S 29** Do not empty into drains.
- S 30** Never add water to this product.
- S 33** Take precautionary measures against static discharges.
- S 35** This material and its container must be disposed of in a safe way.
- S 36** Wear suitable protective clothing.
- S 37** Wear suitable gloves.
- S 38** In case of insufficient ventilation, wear suitable respiratory equipment.
- S 39** Wear eye/face protection.
- S 40** To clean the floor and all objects contaminated by this material use ... (to be specified by the manufacturer).
- S 41** In case of fire and/or explosion do not breathe fumes.
- S 42** During fumigation/spraying wear suitable respiratory equipment (appropriate wording to be specified by the manufacturer).
- S 43** In case of fire, use ... (indicate in the space the precise type of fire-fighting equipment. If water increases risk, add - 'Never use water').
- S 45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S 46** If swallowed, seek medical advice immediately and show this container or label.
- S 47** Keep at temperature not exceeding ... °C (to be specified by the manufacturer).
- S 48** Keep wet with ... (appropriate material to be specified by the manufacturer).
- S 49** Keep only in the original container.
- S 50** Do not mix with ... (to be specified by the manufacturer).
- S 51** Use only in well-ventilated areas.
- S 52** Not recommended for interior use on large surface areas.
- S 53** Avoid exposure - obtain special instructions before use.
- S 56** Dispose of this material and its container at hazardous or special waste collection point.
- S 57** Use appropriate container to avoid environmental contamination.
- S 59** Refer to manufacturer/supplier for information on recovery/recycling.
- S 60** This material and its container must be disposed of as hazardous waste.
- S 61** Avoid release to the environment. Refer to special instructions/safety data sheets.
- S 62** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

S-phrases (safety advice concerning dangerous chemical substances)

S 63	In case of accident by inhalation: remove casualty to fresh air and keep at rest.		materials to be indicated by the manufacturer).	S 29/56	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
S 64	If swallowed, rinse mouth with water (only if the person is conscious).	S 7/8	Keep container tightly closed and dry.	S 36/37	Wear suitable protective clothing and gloves.
COMBINATION of S-phrases		S 7/9	Keep container tightly closed and in a well-ventilated place.	S 36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S 1/2	Keep locked up and out of reach of children.	S 7/47	Keep container tightly closed and at a temperature not exceeding ... °C (to be specified by the manufacturer).	S 36/39	Wear suitable protective clothing and eye/face protection.
S 3/7	Keep container tightly closed in a cool place.	S 20/21	When using do not eat, drink or smoke.	S 37/39	Wear suitable gloves and eye/face protection
S 3/9/14	Keep in a cool, well-ventilated place away from (incompatible materials to be indicated by the manufacturer).	S 24/25	Avoid contact with skin and eyes.	S 47/49	Keep only in the original container at a temperature not exceeding ... °C (to be specified by the manufacturer).
S 3/9/14/49	Keep only in the original container in a cool, well-ventilated place away from ... (incompatible materials to be indicated by the manufacturer).	S 27/28	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of ... (to be specified by the manufacturer).	According to EEC directive at the time when catalogue is published.	
S 3/9/49	Keep only the original container in a cool, well-ventilated place.	S 29/35	Do not empty into drains; dispose of this material and its container in a safe way.		
S 3/14	Keep in a cool place away from ... (incompatible				

Acid-base indicators

Indicator	pH-transition interval	Color change interval	Indicator solution preparation
Alizarin Red S	4.3–6.3	Yellow - Violet	0.1 g in 100 ml water or in 50% ethanol
Alizarin Yellow GG	10.0–12.1	Light yellow - Brownishyellow	0.1 g in 100 ml water
Brilliant Green	0.1–2.6	Yellow - Green	0.1 g in 100 ml water
Bromocresol Green	3.8–5.4	Yellow - Blue	0.1 g in 100 ml 20% ethanol
Bromocresol Purple	5.2–6.8	Yellow - Purple	0.1 g in 100 ml 20% ethanol
Bromophenol Blue	3.0–4.6	Yellow - Blueviolet	0.1 g in 100 ml 20% ethanol or 0.04 g dissolve in 0.6 ml 0.1M NaOH and make up to 100 ml with water
Bromophenol Red	5.2–6.8	Yellow - Purple	0.1 g in 100 ml 20% ethanol
Bromothymol Blue	6.0–7.6	Yellow - Blue	0.1 g in 100 ml 20% ethanol or dissolve 0.04 g in 0.64 ml 0.1M NaOH and make up to 100 ml with water
Congo Red	3.0–5.2	Blue - Pink	0.2 g in 100 ml 20% ethanol
Crystal Violet	0.1–2.0	Green - Blue	0.1 g in 100 ml 20% ethanol
Methyl Red free acid	4.4–6.2	Red - Yellow	0.1 g in 100 ml 96% ethanol
Methyl Red sodium salt	4.4–6.2	Red - Yellow	0.1 g in 100 ml water
Orange III	3.0–4.4	Red - Yellow	0.1 g in 80 ml water and make up to 100 ml 96% ethanol
Phenol Red	6.8–8.2	Yellow - Redviolet	0.1 g in 100 ml 20% ethanol or 0.04 g dissolve in 1.13 ml 0.1M NaOH and make up to 100 ml with 20% ethanol
Phenolphthalein	8.2–10.0	Colourless - Red	0.1 g in 80 ml 96% ethanol and make up to 100 ml with water
Thymol Blue (1. transition)	1.2–2.8	Red - Yellow	0.04 g in 100 ml 20% ethanol or dissolve 0.04 g in 0.86 ml 0.1M NaOH and make up to 100 ml with water
Thymol Blue (2. transition)	8.0–9.6	Yellow - Blue	0.04 g in 100 ml 20% ethanol or dissolve 0.04 g in 0.86 ml 0.1M NaOH and make up to 100 ml with water
Thymolphthalein	9.3–10.5	Colourless - Blue	0.1 g in 50% ethanol

Metal indicators

Indicator	Element to be determined	Indicator solution preparation
Alizarin Red	Al, Sc, Th, Y	0.05 % - 0.2 % in water
Aurin tricarboxylic acid ammonium salt (Aluminon)	Al, Cu, Fe, Mg	0.2 % in water
Calconcarboxylic acid	Ca	0.4 % in methanol or mix 1:100 with Na ₂ SO ₄ resp. NaCl
Diphenylcarbazide	Hg, Ni, Pb, V	1 % + 0.2 % o-phenanthroline in 96% ethanol
Diphenylcarbazone	Pb, Hg, V	0.2 % in 96% ethanol
Dithizone	Bi, Cd, In, Ni, Zn	0.025 % - 0.05 % in 96% ethanol or methanol
Eriochrome Black T	Ba, Pb, Cd, Mg, Mn, Zn, Zr, Ca, In	0.05 % - 0.5% in 96% ethanol or mix with NaCl 1:100 or 1:200
Methylthymol Blue sodium salt	Ba, Bi, Ca, Cd, Cu, Fe, In, Mg, Hg, Pb, Sc, Sn	1 % in 96% ethanol or mix 1:100 with KNO ₃
Morin	Al	0.1 % in 96% ethanol
Murexide	Ag, Ca, Co, Cu, Mn, Ni, Zn	1 % in water or mix 1:100 with NaCl or 1:500 with saccharose
1-(2-Pyridylazo)-2-naphtol; (PAN)	Al, Bi, Cd, Co, Cu, Fe, Ga, Hg, In, Mn, Ni, Pb, Th, Zn	0.01 % - 0.1 % in 96% ethanol
4-(2-Pyridylazo)-resorcinol monosodium salt monohydrate; (PAR)	Al, Bi, Cd, Cu, Hg, In, Mn, Ni, Pb, Zn	0.05 % - 0.2 % in water
Pyrocatechol Violet	Bi, Cd, Co, Cu, Fe, Ga, In, Mg, Mn, Ni, Pb, Zn	0.1 % in water
5-Sulfosalicylic acid dihydrate	Fe	1 % - 5 % in water
Thorin	Bi, Sc, Th, U, Y	0.5 % in water
Tiron (3,5-Pyrocatecholdisulfonic acid disodium salt monohydrate)	Fe	2 % in water
Xylenol Orange	Bi, Ca, Cd, Co, Cu, Fe, In, Mg, Pb	0.1 % in 50% ethanol or mix 1:100 with KNO ₃
Zincon	Cu, Zn	0.1 % in 96% ethanol

Useful Conversions of Units

Concentration

Ratio	Percent (%)	Parts per Million (ppm)	Parts per Billion (ppb)	(mg/ml)
1:100	1.0 %	10000 ppm	-	10
1:1000	0.1 %	1000 ppm	1 000 000 ppb	1
1:10 000	0.01 %	100 ppm	100 000 ppb	0.1
1:100 000	0.001 %	10 ppm	10 000 ppb	0.01
1:1·10 ⁶	0.0001 %	1 ppm	1000 ppb	0.001
1:10·10 ⁶	0.00001 %	0.1 ppm	100 ppb	0.000 1
1:100·10 ⁶	0.000001 %	0.01 ppm	10 ppb	0.000 01

Parts per Billion (ppb)

= 10⁻⁹
 = picogram/milligram (pg/mg)
 = nanogram/millilitre (ng/ml)
 = nanogram/gram (ng/g)

Parts per Million (ppm)

= 10⁻⁶
 = picogram/microgram (pg/μg)
 = nanogram/milligram (ng/mg)
 = microgram/millilitre (μg/ml)
 = microgram/gram (μg/g)

microgram/millilitre (μg/ml)

= nanogram/microlitre (ng/μl)
gram/millilitre (g/ml)
 = milligram/microlitre (mg/μl)
milligram/millilitre (mg/ml)
 = gram/litre (g/l)

Pressure

	Pa	bar	mbar	atm (760 Torr)
1 Pa	= 1	= 10 ⁻⁵	= 10 ⁻²	= 0.9869·10 ⁻⁵
1 bar	= 10 ⁵	= 1	= 10 ³	= 0.9869
1 mbar	= 10 ²	= 10 ⁻³	= 1	= 0.9869·10 ⁻³
1 atm	= 1.01325·10 ⁵	= 1.01325	= 1.01325·10 ³	= 1
1 Torr	= 1.3332·10 ²	= 1.3332·10 ⁻³	= 1.33322	= 1.316·10 ⁻³
1 mm H ₂ O column	= 9.8	= 9.8·10 ⁻⁵	= 9.8·10 ⁻²	= 9.661·10 ⁻⁵
1 mm Hg column	= 133.322	= 1.333·10 ⁻³	= 1.333	= 1.311·10 ⁻³

Pa = pascal
atm = physical atmosphere
mm of H₂O column = millimetres of water column
mm of Hg column = millimetres of mercury column

Temperature

	°C	K	°F	°R
°C	°C	°C + 273.15	1.8 °C + 32	1.8 °C + 491.4
K	K - 273.15	K	1.8 K - 459.4	1.8 K
°F	0.556 °F - 17.8	0.556 °F + 255.3	°F	°F + 459.4
°R	0.556 °R - 273.1	0.556 °R	°R - 459.4	°R

°C = Celsius degree

K = Kelvin

°F = Fahrenheit degree

°R = Rankin degree or absolute temperature in Fahrenheit degree

Size of particle

mm	inches	Tyler Mesh	mm	inches	Tyler Mesh
0.037	0.0015	400 Mesh	0.5	0.0197	32 Mesh
0.044	0.0017	325 Mesh	0.595	0.0234	28 Mesh
0.053	0.0021	270 Mesh	0.707	0.0278	24 Mesh
0.063	0.0025	250 Mesh	0.841	0.0331	20 Mesh
0.074	0.0029	200 Mesh	1.00	0.0394	16 Mesh
0.088	0.0035	170 Mesh	1.19	0.0469	14 Mesh
0.105	0.0041	150 Mesh	1.41	0.555	12 Mesh
0.125	0.0049	115 Mesh	1.68	0.0661	10 Mesh
0.149	0.0059	100 Mesh	2.00	0.0787	9 Mesh
0.177	0.007	80 Mesh	2.38	0.0937	8 Mesh
0.21	0.0083	65 Mesh	2.83	0.111	7 Mesh
0.25	0.0098	60 Mesh	3.36	0.132	6 Mesh
0.297	0.0117	48 Mesh	4.00	0.157	5 Mesh
0.354	0.0139	42 Mesh	4.76	0.187	4 Mesh
0.42	0.0165	35 Mesh	6.73	0.265	3 Mesh

Index and Interpretation of Abbreviations, Signs and Symbols

ACS	American Chemical Society (specification of reagents according to ACS)	mEq/g	“miliequivalent/gram“
ADR	European Agreement on the Transportation of Dangerous Goods on Public Roads	ml	millilitre
APHA	unit of color intensity of liquids - American Public Health Association; also platinum-cobalt colour scale	mm	millimetre
aq.	water	mPa.s	milliPascalsecond (unit of dynamic viscosity)
BHT	2,6-di-tert-butyl-4-methylphenol	M_r	relative molecular weight
c	concentration g/100 ml	N	normality
CAS	Chemical Abstracts Registry Number	NMR	nuclear magnetic resonance
COD	chemical oxygen demand	p.u.	penetration unit
EINECS	European Inventory of Existing Commercial Chemical Substances	pharm.	pharmaceutical
g	gram	Ph.Eur.	European Pharmacopoeia
G.R.	Guaranteed Reagent for Analysis	R	Risk phrases (Special Risks)
HPLC	high pressure liquid chromatography	RID	European Agreement on the Transportation of Dangerous Goods by Rail
chem.	chemical	RTECS	Registry of Toxic Effects of Chemical Substances
ISO	International Standards Organization	S	Safety phrases (Safety advice)
IR	infrared spectroscopy	stab.	stabilized
Cat.No.	catalogue number	TLC	thin layer chromatography
C.I.	colour index	UV	ultraviolet
K.F.	Karl Fischer	UN	(United Nations) Number (Transport classification of dangerous goods)
kg	kilogram	[α]_D²⁰	specific optical rotation
l	litre	d₄²⁰	relative density
M	molarity (mol/litre of solution)	n_D²⁰	index of refraction