

Неорганические реагенты

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
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Саранск (8342)22-96-24
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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: sbu@nt-rt.ru || сайт: <https://scharlab.nt-rt.ru>



Inorganic reagents are chemicals that do not contain any carbon in their structure and are widely used in chemical reactions. They are essential in the synthesis of products, chemical testing and scientific experiments due to their stability and wide range of properties. Some common examples of inorganic reagents include acids, bases, salts and metal oxides. The use of inorganic reagents in different industrial and laboratory applications is essential for numerous chemical and technological processes.



Aluminium ammonium sulfate dodecahydrate, Pharmapur®, USP

- Synonyms: Ammonium aluminium sulfate, Ammonium alum
- $\text{NH}_4\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
- $M = 453,33 \text{ g/mol}$
- CAS [7784-26-1]
- EINECS-No.: 232-055-3
- Solub. in water: (20 °C): 150 g/l
- Melting point: 93 °C
- Boiling point: 200 °C
- Tariff number: 2833 30 00 00
- Applications: for water purifying, manufacture of dyes, manufacturing of lacquers, in porcelain industry, in pharma industry.

SPECIFICATIONS

assay (complexometric, on dried sample): 99,0 - 100,5 %
Identification aluminium: passes test
Identification sulfates: passes test
identification A (USP): passes test
iron (Fe): passes test
alkali and alkaline-earth salts: max. 0,5 %
loss on drying (300 °C): 45,0 - 48,0 %

Volume

x 500 g

Reference

[AL07400500](#)

Packaging

x 500 g :: Plastic bottle

Volume

x 1 kg

Reference[AL07401000](#)**Packaging**

x 1 kg :: Plastic bottle

**Aluminium chloride hexahydrate, Pharmapur®, Ph Eur, BP, USP**

- Synonyms: Hydrochloric acid aluminium salt hexahydrate
- $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$
- M = 241,43 g/mol
- CAS [7784-13-6]
- EINECS-No.: 231-208-1
- Solub. in water: (20 °C): 1330 g/l
- Melting point: ~ 100 °C
- LD 50 (oral, rat): 3311 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P264 - P305+P351+P338 - P321 - P332+P313 - P337+P313
- Tariff number: 2827 32 00 00
- Applications: as gasoline additive, manufacture of dyes, cosmetics, in pharma industry.

SPECIFICATIONS

assay (complexometric): 95,0 - 101,0 %

assay (complexometric, referred to dried sample): 95,0 - 102,0 %

Identification aluminium: passes test

Identification chloride: passes test

appearance of solution: passes test

sulfates (SO_4): max. 100 ppm:sulfates (SO_4): passes test

iron (Fe): max. 10 ppm

alkali and alkaline earth metals:: max. 0,5 %

water : 42,0 - 48,0 %

Volume

x 500 g

Reference[AL07700500](#)**Packaging**

x 500 g :: Plastic bottle

Volume

x 1 kg

Reference[AL07701000](#)**Packaging**

x 1 kg :: Plastic bottle

Volume

x 5 kg

Reference[AL0770005P](#)**Packaging**

x 5 kg :: Plastic container

Volume

x 25 kg

Reference

[AL0770025P](#)

Packaging

x 25 kg :: Plastic container



Aluminium hydroxide, EssentQ®

- Synonyms: Gibbsite, Hydrargillite
- $\text{Al}(\text{OH})_3$
- M = 78,00 g/mol
- CAS [21645-51-2]
- EINECS-No.: 244-492-7
- Solub. in water: (20 °C): ~ 0,0015 g/l
- Melting point: 300 °C (release of crystalline water)
- Vapour pressure: (20 °C) < 0,1 hPa
- LD 50 (oral, rat): > 5000 mg/kg
- Tariff number: 2818 30 00 90
- Applications: chromatography, emulsifier, manufacture of dyes, in lubricant compositions, ion exchanger.

SPECIFICATIONS

assay (complexometric): min. 90 %
arsenic (As): max. 3 ppm
copper (Cu): max. 0,002 %
iron (Fe): max. 0,01 %
lead (Pb): max. 0,002 %
nickel (Ni): max. 0,002 %
residue on ignition: 32 - 35 %



Aluminium nitrate nonahydrate, EssentQ®

- $\text{Al}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$
- M = 375,13 g/mol
- CAS [7784-27-2]
- EINECS-No.: 236-751-8
- Solub. in water: (20 °C): 419 g/l
- Melting point: 73 °C
- Boiling point: 135 °C (decomposes)
- LD 50 (oral, rat): 3671 mg/kg
- ADR: 5.1 O2 III UN 1438
- IMDG: 5.1 III UN 1438
- IATA/ICAO: 5.1 III UN 1438
- GHS-signal word: Danger
- GHS-H sentences: H272 - H315 - H319
- GHS-P sentences: P221 - P210 - P305+P351+P338 - P370+P378 - P321 - P501a
- Tariff number: 2834 29 80 00
- Applications: analytical chemistry, cosmetics, for the synthesis of: nitro compounds.
- Appearance: Semi-transparent to transparent crystals

SPECIFICATIONS

assay (complexometric): 98 - 102 %
insoluble in water: max. 0,02 %
pH (5 %, H_2O): 2,5 - 3,5
chlorides (Cl): max. 0,005 %

sulfates (SO₄): max. 0,005 %
ammonium (NH₄): max. 0,05 %
arsenic (As): max. 0,0001 %
calcium (Ca): max. 0,02 %
copper (Cu): max. 0,001 %
heavy metals (as Pb): max. 0,001 %
iron (Fe): max. 0,01 %
lead (Pb): max. 0,001 %
magnesium (Mg): max. 0,005 %
nickel (Ni): max. 0,001 %
potassium (K): max. 0,05 %
sodium (Na): max. 0,01 %
non precipitable by NH₄OH (as SO₄): max. 0,5 %



Aluminium nitrate nonahydrate, for analysis, ExpertQ®, ACS

- Al(NO₃)₃·9H₂O
- M = 375,13 g/mol
- CAS [7784-27-2]
- EINECS-No.: 236-751-8
- Solub. in water: (20 °C): 419 g/l
- Melting point: 73 °C
- Boiling point: 135 °C (decomposes)
- LD 50 (oral, rat): 3671 mg/kg
- ADR: 5.1 O2 III UN 1438
- IMDG: 5.1 III UN 1438
- IATA/ICAO: 5.1 III UN 1438
- GHS-signal word: Danger
- GHS-H sentences: H272 - H315 - H319
- GHS-P sentences: P221 - P210 - P305+P351+P338 - P370+P378 - P321 - P501a
- Tariff number: 2834 29 80 00
- Applications: analytical chemistry, cosmetics, for the synthesis of: nitro compounds.
- Appearance: Semi-transparent to transparent crystals

SPECIFICATIONS

assay (complexometric): 98 - 102 %
insoluble in water: max. 0,005 %
pH (5 %, H₂O): 2,0 - 4,0
chlorides (Cl): max. 0,001 %
sulfates (SO₄): max. 0,005 %
ammonium (NH₄): max. 0,02 %
cadmium (Cd): max. 0,001 %
calcium (Ca): max. 0,005 %
copper (Cu): max. 0,001 %
heavy metals (as Pb): max. 0,001 %
iron (Fe): max. 0,002 %
lead (Pb): max. 0,001 %
magnesium (Mg): max. 0,001 %
potassium (K): max. 0,002 %
sodium (Na): max. 0,005 %
zinc (Zn): max. 0,001 %
non precipitable by NH₄OH (as SO₄): max. 0,05 %



Aluminium oxide, EssentQ®

- Synonyms: Alum earth, Alumina, Gooch crucibles
- Al_2O_3
- $M = 101,96 \text{ g/mol}$
- CAS [1344-28-1]
- EINECS-No.: 215-691-6
- Solub. in water: (20 °C): insoluble
- Melting point: $\sim 1760 \text{ }^\circ\text{C}$
- Tariff number: 2818 20 00 00
- Applications: in porcelain industry, in building materials, catalyst, synthesis of organic products.

SPECIFICATIONS

residue on ignition: max. 1 %



Aluminium potassium sulfate dodecahydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Potassium aluminium sulfate, Alum potassium, Potassium alum
- $\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
- $M = 474,39 \text{ g/mol}$
- CAS [7784-24-9]
- EINECS-No.: 233-141-3
- Solub. in water: (20 °C): 139 g/l
- Melting point: $90 \text{ }^\circ\text{C}$
- Tariff number: 2833 30 00 00
- Applications: analytical chemistry, manufacture of dyes, manufacturing of lacquers, in explosive compositions.
- Appearance: Blanco y Cristalino

SPECIFICATIONS

assay (complexometric): 99,0 - 100,5 %
identity (IR-spectrum): passes test
appearance of solution: clear and colourless
insoluble in water: max. 0,005 %
pH (10 %, H_2O): 3,0 - 3,5
chlorides (Cl): max. 5 ppm
ammonium (NH_4): max. 0,005 %
cadmium (Cd): max. 5 ppm
copper (Cu): max. 5 ppm
heavy metals (as Pb): max. 0,001 %
iron (Fe): max. 5 ppm
lead (Pb): max. 5 ppm
sodium (Na): max. 0,005 %



Aluminium potassium sulfate dodecahydrate, Pharmpur®, Ph Eur, BP, USP

- Synonyms: Potassium aluminium sulfate, Alum potassium, Potassium alum
- $\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
- $M = 474,39 \text{ g/mol}$
- CAS [7784-24-9]
- EINECS-No.: 233-141-3
- Solub. in water: (20 °C): 139 g/l
- Melting point: $90 \text{ }^\circ\text{C}$
- Tariff number: 2833 30 00 00
- Applications: analytical chemistry, manufacture of dyes, manufacturing of lacquers, in

explosive compositions.

- Appearance: Blanco y Cristalino

SPECIFICATIONS

assay (complexometric): 99,0 - 100,5 %

assay (complexometric, referred to dried basis): 99,0 - 100,5 %

Identification sulfates: passes test

Identification aluminium: passes test

Identification potassium: passes test

identification A (USP): passes test

Identification B (USP): passes test

Identification C (USP): passes test

appearance of solution: clear and colourless

pH (10 %, H₂O): 3,0 - 3,5

ammonium (NH₄): max. 0,2 %

iron (Fe): max. 100 ppm:

iron (Fe): passes test

loss on drying : 43,0 % - 46,0 %



Aluminium sulfate 18-hydrate, Pharmpur®, Ph Eur, BP

- Al₂(SO₄)₃·18H₂O

- M = 666,42 g/mol

- CAS [7784-31-8]

- EINECS-No.: 233-135-0

- Solub. in water: (20 °C): ~ 600 g/l

- Melting point: 92 °C

- LD 50 (oral, rat): 9000 mg/kg

- GHS-signal word: Danger

- GHS-H sentences: H318

- GHS-P sentences: P280 - P305+P351+P338 - P310

- Tariff number: 2833 22 00 00

- Applications: manufacturing of lacquers, manufacture of dyes, in pesticide compositions, for water purifying, in pharma industry.

SPECIFICATIONS

assay (complexometric, Al₂(SO₄)₃): 51,0 - 59,0 %

Identification sulfates: passes test

Identification aluminium: passes test

appearance of solution: passes test

pH (2 %, H₂O): 2,5 - 4,0

alkali and alkaline earth metals:: max. 0,4 %

ammonium (NH₄): max. 500 ppm

iron (Fe): max. 100 ppm:



Aluminium, powder, EssentQ®

- Al

- M = 26,98 g/mol

- CAS [7429-90-5]

- EINECS-No.: 231-072-3

- Solub. in water: (20 °C): insoluble

- Melting point: 660 °C

- Boiling point: 2467 °C

- Ignition temp.: ~ 400 °C

- EC-Index-No.: 013-001-00-6

- ADR: 4.3 W2 II UN 1396
- IMDG: 4.3 II UN 1396
- IATA/ICAO: 4.3 II UN 1396
- GHS-signal word: Danger
- GHS-H sentences: H250 - H261
- GHS-P sentences: P223 - P210 - P222 - P370+P378 - P422 - P501a
- Tariff number: 7603 10 00 00
- Applications: in explosive compositions, photography, synthesis of organic products, metal alloys, for the synthesis of: inorganic salts.

SPECIFICATIONS

assay: min. 99 %



Ammonia, solution 20% w/w, EssentQ®

- Synonyms: Ammonia water
- NH₃
- M = 17,03 g/mol
- CAS [1336-21-6]
- EINECS-No.: 215-647-6
- Density: ~ 0,93 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 007-001-01-2
- ADR: 8 C5 III UN 2672
- IMDG: 8 III UN 2672
- IATA/ICAO: 8 III UN 2672
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335 - H400
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 2814 20 00 00
- Applications: analytical chemistry, laboratory reagent, detergent, bleaching agent, reagent for saponification reactions.

SPECIFICATIONS

assay (acidimetric, NH₃): min. 20 %
density (20°/4°): 0,917 - 0,923
carbonates (as CO₂): max. 0,005 %
chlorides (Cl): max. 0,0005 %
phosphates (as PO₄): max. 0,0005 %
calcium (Ca): max. 0,001 %
copper (Cu): max. 1 ppm
iron (Fe): max. 1 ppm
lead (Pb): max. 1 ppm
magnesium (Mg): max. 0,001 %
nickel (Ni): max. 1 ppm
zinc (Zn): max. 1 ppm
sulphur compounds (as SO₄): max. 0,001 %
residue on evaporation: max. 0,002 %



Ammonia, solution 20% w/w, for analysis, ExpertQ®

- Synonyms: Ammonia water
- NH₃
- M = 17,03 g/mol
- CAS [1336-21-6]
- EINECS-No.: 215-647-6

- Density: ~ 0,93 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 007-001-01-2
- ADR: 8 C5 III UN 2672
- IMDG: 8 III UN 2672
- IATA/ICAO: 8 III UN 2672
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335 - H400
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 2814 20 00 00
- Applications: analytical chemistry, laboratory reagent, detergent, bleaching agent, reagent for saponification reactions.

SPECIFICATIONS

assay (acidimetric, NH₃): min. 20 %
 density (20°/4°): 0,917 - 0,923
 carbonates (as CO₂): max. 0,005 %
 chlorides (Cl): max. 0,0005 %
 phosphates (as PO₄): max. 0,0005 %
 calcium (Ca): max. 0,001 %
 copper (Cu): max. 1 ppm
 iron (Fe): max. 1 ppm
 lead (Pb): max. 1 ppm
 magnesium (Mg): max. 0,001 %
 nickel (Ni): max. 1 ppm
 zinc (Zn): max. 1 ppm
 sulphur compounds (as SO₄): max. 0,001 %
 residue on evaporation: max. 0,002 %



Ammonia, solution 25% w/w, EssentQ®

- Synonyms: Ammonia water, Ammonium hydroxide solution
- NH₃
- M = 17,03 g/mol
- CAS [1336-21-6]
- EINECS-No.: 215-647-6
- Density: 0,90 g/cm³
- Melting point: -57,5 °C
- Boiling point: 37,7 °C
- Vapour pressure: (20 °C) ~ 500 hPa
- LD 50 (oral, rat): 350 mg/kg
- EC-Index-No.: 007-001-01-2
- ADR: 8 C5 III UN 2672
- IMDG: 8 III UN 2672
- IATA/ICAO: 8 III UN 2672
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335 - H400
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 2814 20 00 00
- Applications: analytical chemistry, laboratory reagent.

SPECIFICATIONS

assay (acidimetric, NH₃): min. 25 %
 density (20°/20°): 0,892 - 0,910
 residue on evaporation: max. 0,01 %



Ammonia, solution 30% w/w, EssentQ®

- Synonyms: Ammonia water, Ammonium hydroxide solution
- NH_3
- $M = 17,03 \text{ g/mol}$
- CAS [1336-21-6]
- EINECS-No.: 215-647-6
- Density: $0,89 \text{ g/cm}^3$
- Melting point: $-91,5 \text{ }^\circ\text{C}$
- Boiling point: $24,7 \text{ }^\circ\text{C}$
- Vapour pressure: ($20 \text{ }^\circ\text{C}$) $\sim 837 \text{ hPa}$
- LD 50 (oral, rat): 350 mg/kg
- EC-Index-No.: 007-001-01-2
- ADR: 8 C5 III UN 2672
- IMDG: 8 III UN 2672
- IATA/ICAO: 8 III UN 2672
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335 - H410
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 2814 20 00 00
- Applications: analytical chemistry, laboratory reagent, for ammonium salts synthesizing.

SPECIFICATIONS

assay (acidimetric, NH_3): 28 - 30 %
density ($20^\circ/20^\circ$): 0,892 - 0,910
carbonates (as CO_2): max. 0,005 %
chlorides (Cl): max. 5 ppm
phosphates (as PO_4): max. 5 ppm
sulfates (SO_4): max. 0,001 %
calcium (Ca): max. 0,001 %
copper (Cu): max. 0,5 ppm
iron (Fe): max. 1 ppm
lead (Pb): max. 1 ppm
magnesium (Mg): max. 0,001 %
nickel (Ni): max. 1 ppm
zinc (Zn): max. 1 ppm
substances reducing KMnO_4 : passes test
residue on ignition: max. 0,002 %



Ammonium amidosulfonate, for analysis, ExpertQ®, ACS, for determination of sulfonamides in blood

- Synonyms: Ammonium sulfamate, Amidosulfonic acid ammonium salt, Sulfanic acid ammonium salt
- $\text{NH}_4\text{NH}_2\text{SO}_3$
- $M = 114,12 \text{ g/mol}$
- CAS [7773-06-0]
- EINECS-No.: 231-871-7
- Solub. in water: ($20 \text{ }^\circ\text{C}$): soluble
- Melting point: $\sim 133 \text{ }^\circ\text{C}$
- LD 50 (oral, rat): 3900 mg/kg
- Tariff number: 2842 90 90 00
- Applications: analytical chemistry, for the determination of sulfamides in blood.

SPECIFICATIONS

assay (acidimetric): min. 99 %
insoluble in water: max. 0,02 %
melting point: $132 - 134 \text{ }^\circ\text{C}$
chlorides (Cl): max. 0,001 %

nitrates (NO₃): max. 0,002 %
sulfates (SO₄): max. 0,02 %
heavy metals (as Pb): max. 5 ppm
iron (Fe): max. 5 ppm
residue on ignition (as SO₄): max. 0,05 %
loss on drying (105 °C): max. 0,5 %



Ammonium bromide, for analysis, ExpertQ®, ACS

- NH₄Br
- M = 97,94 g/mol
- CAS [12124-97-9]
- EINECS-No.: 235-183-8
- Solub. in water: (20 °C): 598 g/l
- Melting point: 542 °C
- LD 50 (oral, rat): 2714 mg/kg
- Tariff number: 2827 59 00 00
- Applications: analytical chemistry, photography, in pharma industry.

SPECIFICATIONS

assay (argentometric): min. 99 %
insoluble in water: max. 0,005 %
pH (5 %, H₂O): 4,5 - 6,0
bromates (BrO₃): max. 0,002 %
chlorides (Cl): max. 0,2 %
iodides (I): passes test
sulfates (SO₄): max. 0,005 %
sulfides (S): max. 0,0002 %
arsenic (As): max. 0,0002 %
barium (Ba): max. 0,002 %
calcium (Ca): max. 0,01 %
copper (Cu): max. 0,0003 %
heavy metals (as Pb): max. 0,0005 %
iron (Fe): max. 0,0005 %
magnesium (Mg): max. 0,002 %
substances reducing KMnO₄ : passes test
residue on ignition: max. 0,01 %
loss on drying (105 °C): max. 0,1 %



Ammonium bromide, Pharmapur®, Ph Eur, BP

- NH₄Br
- M = 97,94 g/mol
- CAS [12124-97-9]
- EINECS-No.: 235-183-8
- Solub. in water: (20 °C): 598 g/l
- Melting point: 542 °C
- LD 50 (oral, rat): 2714 mg/kg
- Tariff number: 2827 59 00 00
- Applications: analytical chemistry, photography, in pharma industry.

SPECIFICATIONS

dried sample) : 98,5 - 101,0 %
identification: passes test
acidity or alkalinity: passes test

appearance of solution: clear and colourless
bromates (BrO₃): passes test
chlorides (Cl): max. 0,6 %
iodides (I): passes test
sulfates (SO₄): max. 0,01%
iron (Fe): max. 20 ppm

metals, (as Ca): max. 200 ppm
residue on ignition: max. 0,1 %
loss on drying (105 °C): max. 1,0 %



Ammonium carbonate, for analysis, ExpertQ®, ACS

- Synonyms: Salt of hartshorn
- $\text{NH}_4\text{HCO}_3 + \text{NH}_4\text{NH}_2\text{COO}$
- CAS [10361-29-2]
- EINECS-No.: 233-786-0
- Solub. in water: (20 °C): soluble
- Melting point: 58 °C (decomposes)
- LD 50 (oral, rat): 1975 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301+P312 - P330 - P501a
- Tariff number: 2836 10 00 00
- Applications: manufacture of dyes, in the rubber industry, analytical chemistry.

SPECIFICATIONS

assay (acidimetric, NH₃): min. 30,0 %
identity (IR-spectrum): passes test
appearance of solution: passes test
insoluble in water: max. 0,005 %
chlorides (Cl): max. 0,0005 %
arsenic (As): max. 3 ppm
calcium (Ca): max. 0,01 %
copper (Cu): max. 0,0025 %
heavy metals: max. 5 ppm
iron (Fe): max. 5 ppm
lead (Pb): max. 0,001 %
zinc (Zn): max. 0,0025 %
sulphur compounds (as SO₄): max. 0,002 %
residue on ignition: max. 0,05 %



Ammonium cerium(IV) nitrate, EssentQ®

- Synonyms: di-Ammonium hexanitratocerate (IV), Ceric ammonium nitrate
- $(\text{NH}_4)_2[\text{Ce}(\text{NO}_3)_6]$
- M = 548,23 g/mol
- CAS [16774-21-3]
- EINECS-No.: 240-827-6
- Solub. in water: (20 °C): soluble
- Melting point: ~ 108 °C
- ADR: 5.1 O2 II UN 1477
- IMDG: 5.1 II UN 1477
- IATA/ICAO: 5.1 II UN 1477
- GHS-signal word: Danger
- GHS-H sentences: H272 - H318

- GHS-P sentences: P221 - P210 - P305+P351+P338 - P310 - P370+P378 - P501a
- Tariff number: 2846 10 00 90
- Applications: analytical chemistry, titrant in volumetric analysis.
- Appearance: Orange crystals

SPECIFICATIONS

assay (oxidimetric): min. 99 %



Ammonium cerium(IV) sulfate dihydrate, EssentQ®

- Synonyms: Ceric ammonium sulfate, tetra-Ammonium-tetrasulfatocerate (IV)
- $(\text{NH}_4)_4[\text{Ce}(\text{SO}_4)_4] \cdot 2\text{H}_2\text{O}$
- M = 632,56 g/mol
- CAS [10378-47-9]
- EINECS-No.: 231-567-4
- Solub. in water: (20 °C): hydrolysis reaction
- Tariff number: 2846 10 00 90
- Applications: for the synthesis of: inorganic salts, for determination of: cerium.

SPECIFICATIONS

assay (oxidimetric): min. 95 %



Ammonium chloride, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: Salt ammoniac
- NH_4Cl
- M = 53,49 g/mol
- CAS [12125-02-9]
- EINECS-No.: 235-186-4
- Solub. in water: (20 °C): 372 g/l
- Melting point: 335 °C (decomposes)
- Ignition temp.: > 400 °C
- Vapour pressure: (30 °C) 1,3 hPa
- LD 50 (oral, rat): 1440 mg/kg
- EC-Index-No.: 017-014-00-8
- GHS-signal word: Warning
- GHS-H sentences: H302 - H319
- GHS-P sentences: P280 - P264 - P305+P351+P338 - P301+P312 - P337+P313 - P501a
- Tariff number: 2827 10 00 00
- Applications: manufacture of dyes, in explosive compositions, analytical chemistry.

SPECIFICATIONS

assay (argentometric): min. 99,5 %
assay (acidimetric, on dried sample): 99,5 - 100,5 %
identity (IR-spectrum): passes test
appearance of solution: clear and colourless
insoluble matter: max. 0,005 %
pH (5 %, H_2O): 4,5 - 5,5
acidity or alkalinity: passes test
bromides and iodides : passes test
phosphates (as PO_4): max. 2 ppm
sulfates (SO_4): max. 0,002 %
calcium (Ca): max. 5 ppm
copper (Cu): max. 2 ppm

heavy metals: max. 5 ppm
iron (Fe): max. 2 ppm
lead (Pb): max. 1 ppm
magnesium (Mg): max. 5 ppm
nickel (Ni): max. 1 ppm
potassium (K): max. 0,005 %
sodium (Na): max. 0,005 %
zinc (Zn): max. 2 ppm
residue on ignition: max. 1,0 %
residue on ignition (800 °C): max. 0,01 %
loss on drying (105 °C, 2h): max. 1,0 %



Ammonium chloride, Pharmpur®, Ph Eur, BP, USP

- Synonyms: Salt ammoniac
- NH_4Cl
- $M = 53,49 \text{ g/mol}$
- CAS [12125-02-9]
- EINECS-No.: 235-186-4
- Solub. in water: (20 °C): 372 g/l
- Melting point: 335 °C (decomposes)
- Ignition temp.: > 400 °C
- Vapour pressure: (30 °C) 1,3 hPa
- LD 50 (oral, rat): 1440 mg/kg
- EC-Index-No.: 017-014-00-8
- GHS-signal word: Warning
- GHS-H sentences: H302 - H319
- GHS-P sentences: P280 - P264 - P305+P351+P338 - P301+P312 - P337+P313 - P501a
- Tariff number: 2827 10 00 00
- Applications: manufacture of dyes, in explosive compositions, analytical chemistry.

SPECIFICATIONS

assay (acidimetric, on dried sample): 99,5 - 100,5 %
assay (argentometric, referred to dried sample): 99,0 - 100,5 %
Identification ammonium: passes test
Identification chloride: passes test
acidity or alkalinity: passes test
appearance of solution: clear and colourless
pH (5 %, H_2O): 4,6 - 6,0
bromides and iodides : passes test
sulfates (SO_4): max. 150 ppm
limit of thiocyanate: passes test
calcium (Ca): max. 200 ppm
iron (Fe): max. 20 ppm
residue on ignition (as SO_4): max. 0,1 %
loss on drying (over silica gel): max. 0,5 %
loss on drying (105 °C, 2h): max. 1,0 %



Ammonium dichromate, moistened with 0,2 - 3% H_2O , EssentQ®

- Synonyms: Ammonium bichromate, Ammonium pyrochromate
- $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$
- $M = 252,07 \text{ g/mol}$
- CAS [7789-09-5]

- EINECS-No.: 232-143-1
- Solub. in water: (20 °C): 360 g/l
- Melting point: 180 °C (decomposes, explosion reaction)
- Ignition temp.: 218 °C
- LD 50 (oral, rat): 53,75 mg/kg
- EC-Index-No.: 024-003-00-1
- ADR: 5.1 O2 II UN 1439
- IMDG: 5.1 II UN 1439
- IATA/ICAO: 5.1 II UN 1439
- GHS-signal word: Danger
- GHS-H sentences: H272 - H301 - H330 - H334 - H340 - H350 - H360FD - H372 - H314 - H400 - H410 - H312 - H317
- GHS-P sentences: P221 - P301+P310 - P303+P361+P353 - P305+P351+P338 - P320 - P370+P378 - P405 - P501a
- Tariff number: 2841 50 00 00
- Applications: photography, in explosive compositions, catalyst, in porcelain industry, analytical chemistry.
- Appearance: Orange crystals

SPECIFICATIONS

assay (iodometric): min. 97 %
chlorides (Cl): max. 0,05 %
sulfates (SO₄): max. 0,05 %
calcium (Ca): max. 0,01 %
copper (Cu): max. 0,005 %
iron (Fe): max. 0,005 %
lead (Pb): max. 0,01 %
sodium (Na): max. 0,01 %
loss on drying (105 °C): max. 3 %



Ammonium dihydrogen phosphate, EssentQ®

- Synonyms: Ammonium biphosphate, Ammonium phosphate monobasic, Primary ammonium phosphate, Monoammonium ortophosphate
- (NH₄)H₂PO₄
- M = 115,03 g/mol
- CAS [7722-76-1]
- EINECS-No.: 231-764-5
- Solub. in water: (20 °C): 370 g/l
- Melting point: 190 °C
- LD 50 (oral, rat): 2500 mg/kg
- Tariff number: 3105 40 00 10
- Applications: in fertilizer compositions, analytical chemistry, in buffer solutions.

SPECIFICATIONS

assay (acidimetric): min. 99 %
pH (5 %, H₂O): 4,0 - 4,5
insoluble in water: max. 0,02 %
chlorides (Cl): max. 0,001 %
nitrates (NO₃): max. 0,005 %
sulfates (SO₄): max. 0,01 %
arsenic (As): max. 1 ppm
copper (Cu): max. 0,001 %
heavy metals (as Pb): max. 0,005 %
iron (Fe): max. 0,001 %
nickel (Ni): max. 0,001 %
lead (Pb): max. 0,001 %



Ammonium dihydrogen phosphate, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Ammonium biphosphate, Ammonium phosphate monobasic, Primary ammonium phosphate, Monoammonium ortophosphate
- $(\text{NH}_4)\text{H}_2\text{PO}_4$
- $M = 115,03 \text{ g/mol}$
- CAS [7722-76-1]
- EINECS-No.: 231-764-5
- Solub. in water: (20 °C): 370 g/l
- Melting point: 190 °C
- LD 50 (oral, rat): 2500 mg/kg
- Tariff number: 3105 40 00 10
- Applications: in fertilizer compositions, analytical chemistry, in buffer solutions.

SPECIFICATIONS

assay (acidimetric): min. 98,0 %
identity (IR-spectrum): passes test
insoluble in water: max. 0,005 %
pH (2,3 %, H_2O) : about 4,2
pH (5 %, H_2O): 3,8 - 4,4
chlorides (Cl): max. 5 ppm
nitrates (NO_3): max. 0,001 %
sulfates (SO_4): max. 0,005 %
calcium (Ca): max. 0,001 %
heavy metals (as Pb): max. 5 ppm
iron (Fe): max. 0,001 %
magnesium (Mg): max. 5 ppm
potassium (K): max. 0,005 %
sodium (Na): max. 0,005 %



Ammonium heptamolybdate tetrahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: Ammonium molybdate, Hexammonium heptamolybdate 4-hydrate
- $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}$
- $M = 1235,86 \text{ g/mol}$
- CAS [12054-85-2]
- EINECS-No.: 234-722-4
- Solub. in water: (20 °C): 400 g/l
- Melting point: 90 °C (release of crystalline water)
- LD 50 (oral, rat): 3883 mg/kg
- Tariff number: 2841 70 00 90
- Applications: photography, in porcelain industry, analytical chemistry.

SPECIFICATIONS

assay $[(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}]$: min. 99 %
assay (as MoO_3): 81,0 - 83,0 %
insoluble matter: max. 0,005 %
arsenates, phosphates, and silicates (as SiO_2): max. 0,001 %
chlorides (Cl): max. 0,002 %
nitrates (NO_3): passes test
phosphates (as PO_4): max. 5 ppm
sulfates (SO_4): max. 0,02 %
heavy metals: max. 0,001 %

lead (Pb): max. 0,001 %
magnesium (Mg): max. 0,005 %
potassium (K): max. 0,01 %:
sodium (Na): max. 0,01 %



Ammonium heptamolybdate tetrahydrate, Pharmpur®, USP

- Synonyms: Ammonium molybdate, Hexammonium heptamolybdate 4-hydrate
- $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}$
- M = 1235,86 g/mol
- CAS [12054-85-2]
- EINECS-No.: 234-722-4
- Solub. in water: (20 °C): 400 g/l
- Melting point: 90 °C (release of crystalline water)
- LD 50 (oral, rat): 3883 mg/kg
- Tariff number: 2841 70 00 90
- Applications: photography, in porcelain industry, analytical chemistry.

SPECIFICATIONS

assay $[(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}]$: 99,3 - 101,8 %
identification: passes test
insoluble substances: max. 0,005 %
chlorides (Cl): max. 20 ppm
nitrates (NO_3): passes test
phosphates, arseniates, silicates (as PO_4): max. 10 ppm
phosphates (as PO_4): max. 5 ppm
sulfates (SO_4): max. 200 ppm
magnesium and alkaline salts: max. 0,02 %



Ammonium hydrogen carbonate, for analysis, ExpertQ®, Reag. Ph Eur

- Synonyms: Ammonium bicarbonate
- NH_4HCO_3
- M = 79,06 g/mol
- CAS [1066-33-7]
- EINECS-No.: 213-911-5
- Solub. in water: (20 °C): 220 g/l
- Melting point: 106 °C
- Vapour pressure: (20 °C) 67 hPa
- LD 50 (oral, rat): 1576 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301+P312 - P330 - P501a
- Tariff number: 2836 10 00 00
- Applications: analytical chemistry, manufacture of dyes, in porcelain industry, pigment, in the textile industry.

SPECIFICATIONS

assay (acidimetric): min. 99 %
chlorides (Cl): max. 0,0005 %
nitrates (NO_3): max. 0,001 %
phosphates (as PO_4): max. 0,0005 %
sulfates (SO_4): max. 0,005 %

sulfides (S): max. 0,001 %
arsenic (As): max. 1 ppm
calcium (Ca): max. 0,001 %
cadmium (Cd): max. 5 ppm
cobalt (Co): max. 5 ppm
copper (Cu): max. 1 ppm
heavy metals (as Pb): max. 5 ppm
iron (Fe): max. 1 ppm
lead (Pb): max. 5 ppm
magnesium (Mg): max. 0,001 %
nickel (Ni): max. 5 ppm
potassium (K): max. 0,001 %
sodium (Na): max. 0,002 %
zinc (Zn): max. 5 ppm
residue on ignition: max. 0,05 %



Ammonium iodide, EssentQ®

- NH_4I
- $M = 144,94 \text{ g/mol}$
- CAS [12027-06-4]
- EINECS-No.: 234-717-7
- Solub. in water: (20 °C): soluble
- Melting point: 405 °C
- Tariff number: 2827 60 00 90
- Applications: analytical chemistry, laboratory reagent, photography.

SPECIFICATIONS

assay (argentometric): min. 99 %
insoluble in water: max. 0,005 %
pH (5 %, H_2O): 4,5 - 6,5
chlorides and bromides (as Cl): max. 0,02 %
iodates (IO_3): max. 0,01 %
sulfates (SO_4): max. 0,01 %
thiosulfates (S_2O_3): max. 0,01 %
arsenic (As): max. 0,0005 %
heavy metals (as Pb): max. 0,001 %
iron (Fe): max. 0,001 %
residue on ignition: max. 0,1 %
loss on drying (105 °C): max. 1 %



Ammonium iron(II) sulfate hexahydrate, EssentQ®

- Synonyms: Iron(II) ammonium sulfate, Ferrous ammonium sulfate, Mohr's salt
- $(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$
- $M = 392,14 \text{ g/mol}$
- CAS [7783-85-9]
- EINECS-No.: 233-151-8
- Solub. in water: (20 °C): 269 g/l
- Melting point: 100 °C
- Tariff number: 2842 90 80 00
- Applications: analytical chemistry, synthesis of polymers, photography.

SPECIFICATIONS

assay (permanganometric): 98 - 101 %
insoluble in diluted H_2SO_4 : max. 0,01 %

chlorides (Cl): max. 0,005 %
phosphates (as PO₄): max. 0,005 %
calcium (Ca): max. 0,02 %
copper (Cu): max. 0,002 %
iron (III) (Fe (III)): max. 0,05 %
magnesium (Mg): max. 0,02 %
potassium (K): max. 0,01 %
sodium (Na): max. 0,01 %
zinc (Zn): max. 0,01 %



Ammonium iron(III) sulfate dodecahydrate, EssentQ®

- Synonyms: Iron(III) ammonium sulfate, Alum iron, Ferric ammonium alum, Iron alum
- $\text{NH}_4\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
- M = 482,19 g/mol
- CAS [7783-83-7]
- EINECS-No.: 233-382-4
- Solub. in water: (25 °C): 1240 g/l
- Melting point: 39 - 41 °C
- Tariff number: 2833 30 00 00
- Applications: analytical chemistry, laboratory reagent.

SPECIFICATIONS

assay (iodometric): 97,0 - 102,0 %
identity (IR-spectrum): passes test
insoluble in water: max. 0,01 %
chlorides (Cl): max. 0,005 %
calcium (Ca): max. 0,03 %
copper (Cu): max. 0,005 %
iron (II) (Fe (II)): max. 0,002 %
lead (Pb): max. 0,002 %
magnesium (Mg): max. 0,03 %
zinc (Zn): max. 0,005 %



Ammonium monovanadate, EssentQ®

- Synonyms: Ammonium metavanadate, Ammonium vanadate
- NH_4VO_3
- M = 116,98 g/mol
- CAS [7803-55-6]
- EINECS-No.: 232-261-3
- Solub. in water: (15 °C): 5,2 g/l
- Melting point: ~ 200 °C (decomposes)
- LD 50 (oral, rat): 169 mg/kg
- ADR: 6.1 T5 II UN 2859
- IMDG: 6.1 II UN 2859
- IATA/ICAO: 6.1 II UN 2859
- GHS-signal word: Danger
- GHS-H sentences: H301 - H332 - H315 - H319 - H335
- GHS-P sentences: P261 - P301+P310 - P305+P351+P338 - P321 - P405 - P501a
- Tariff number: 2841 90 30 00
- Applications: for the identification of: phosphates, analytical chemistry.

SPECIFICATIONS

assay (titr. with Fe(II)): min. 99 %



Ammonium monovanadate, for analysis, ExpertQ®, ACS

- Synonyms: Ammonium metavanadate, Ammonium vanadate
- NH_4VO_3
- $M = 116,98 \text{ g/mol}$
- CAS [7803-55-6]
- EINECS-No.: 232-261-3
- Solub. in water: (15 °C): 5,2 g/l
- Melting point: ~ 200 °C (decomposes)
- LD 50 (oral, rat): 169 mg/kg
- ADR: 6.1 T5 II UN 2859
- IMDG: 6.1 II UN 2859
- IATA/ICAO: 6.1 II UN 2859
- GHS-signal word: Danger
- GHS-H sentences: H301 - H332 - H315 - H319 - H335
- GHS-P sentences: P261 - P301+P310 - P305+P351+P338 - P321 - P405 - P501a
- Tariff number: 2841 90 30 00
- Applications: for the identification of: phosphates, analytical chemistry.

SPECIFICATIONS

assay (permanganometric): min. 99,0 %
solubility in ammonium hydroxide: passes test
carbonates (CO_3): passes test
chlorides (Cl): max. 0,2 %
sulfates (SO_4): max. 0,05 %



Ammonium peroxodisulfate, EssentQ®, Reag. Ph Eur

- Synonyms: Ammonium persulfate, Peroxodisulfuric acid diammonium salt
- $(\text{NH}_4)_2\text{S}_2\text{O}_8$
- $M = 228,20 \text{ g/mol}$
- CAS [7727-54-0]
- EINECS-No.: 231-786-5
- Solub. in water: (20 °C): 620 g/l
- Melting point: 120 °C (decomposes)
- LD 50 (oral, rat): 495 mg/kg
- EC-Index-No.: 016-060-00-6
- ADR: 5.1 O2 III UN 1444
- IMDG: 5.1 III UN 1444
- IATA/ICAO: 5.1 III UN 1444
- GHS-signal word: Danger
- GHS-H sentences: H334 - H272 - H302 - H335 - H315 - H319 - H317
- GHS-P sentences: P221 - P210 - P305+P351+P338 - P370+P378 - P405 - P501a
- Tariff number: 2833 40 00 00
- Applications: analytical chemistry, synthesis of polymers.
- Appearance: White to light yellow powder

SPECIFICATIONS

assay (iodometric): min. 98 %
insoluble in water: max. 0,02 %
chlorides and chlorates (as Cl): max. 0,005 %
copper (Cu): max. 0,005 %
heavy metals (as Pb): max. 0,003 %
iron (Fe): max. 0,001 %
lead (Pb): max. 0,001 %

manganese (Mn): max. 2 ppm
nickel (Ni): max. 0,005 %
residue on ignition (as SO₄): max. 0,1 %



Ammonium sulfate, EssentQ®

- Synonyms: Sulfuric acid diammonium salt
- (NH₄)₂SO₄
- M = 132,14 g/mol
- CAS [7783-20-2]
- EINECS-No.: 231-984-1
- Solub. in water: (20 °C): 754 g/l
- Melting point: 280 °C (decomposes)
- LD 50 (oral, rat): 4250 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305+P351+P338 - P321 - P405 - P501a
- Tariff number: 3102 21 00 00
- Applications: analytical chemistry, manufacture of alums.

SPECIFICATIONS

assay (acidimetric): min. 99,0 %
identity (IR-spectrum): passes test
pH (5 %, H₂O): 4,5 - 6,0
chlorides (Cl): max. 0,002 %
nitrates (NO₃): max. 0,002 %
arsenic (As): max. 3 ppm
copper (Cu): max. 0,002 %
heavy metals: max. 0,001 %
iron (Fe): max. 0,001 %
lead (Pb): max. 0,002 %
residue on ignition: max. 0,05 %
loss on drying (105 °C): max. 1 %



Ammonium sulfate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: Sulfuric acid diammonium salt
- (NH₄)₂SO₄
- M = 132,14 g/mol
- CAS [7783-20-2]
- EINECS-No.: 231-984-1
- Solub. in water: (20 °C): 754 g/l
- Melting point: 280 °C (decomposes)
- LD 50 (oral, rat): 4250 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305+P351+P338 - P321 - P405 - P501a
- Tariff number: 3102 21 00 00
- Applications: analytical chemistry, manufacture of alums.

SPECIFICATIONS

assay (acidimetric): min. 99,0 %
identity (IR-spectrum): passes test
insoluble matter: max. 0,005 %

pH (5 %, H₂O): 5,0 - 6,0
chlorides (Cl): max. 3 ppm
nitrates (NO₃): max. 0,001 %
phosphates (as PO₄): max. 5 ppm
arsenic (As): max. 0,2 ppm
cadmium (Cd): max. 1 ppm
calcium (Ca): max. 0,001 %
copper (Cu): max. 2 ppm
heavy metals: max. 5 ppm
iron (Fe): max. 2 ppm
lead (Pb): max. 2 ppm
magnesium (Mg): max. 5 ppm
zinc (Zn): max. 1 ppm
residue on ignition: max. 0,005 %
loss on drying (105 °C): max. 0,1 %



Ammonium sulfate, solution 40% w/v

- (NH₄)₂SO₄
- Density: 1,19 g/cm³
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305+P351+P338 - P321 - P405 - P501a
- Tariff number: 3102 21 00 00
- Appearance: Líquido incoloro

SPECIFICATIONS

assay (by alkalimetry for ammonium): min. 40 %



Ammonium thiocyanate, for analysis, ExpertQ®, ACS, ISO

- Synonyms: Ammonium sulfocyanide, Ammonium sulfocyanate, Ammonium rhodanide, Thiocyanic acid ammonium salt
- NH₄SCN
- M = 76,12 g/mol
- CAS [1762-95-4]
- EINECS-No.: 217-175-6
- Solub. in water: (20 °C): soluble
- Melting point: 150 °C
- Boiling point: 170 °C (decomposes)
- LD 50 (oral, rat): 500 mg/kg
- EC-Index-No.: 615-004-00-3
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H332 - EUH032
- GHS-P sentences: P261 - P280 - P321 - P301+P312 - P304+P340 - P501a
- Tariff number: 2842 90 80 80
- Applications: analytical chemistry, synthesis of organic products, photography.

SPECIFICATIONS

assay (argentometric): min. 99 %
insoluble in water: max. 0,005 %
pH (5 %, H₂O): 4,8 - 5,8
chlorides (Cl): max. 0,005 %
sulfides (S): max. 0,001 %
sulfates (SO₄): max. 0,0025 %
copper (Cu): max. 4 ppm

heavy metals (as Pb): max. 5 ppm
iron (Fe): max. 1 ppm
lead (Pb): max. 4 ppm
I2 consuming substances: max. 0,004 meq/g
residue on ignition (as SO₄): max. 0,025 %



Antimony, powder, EssentQ®

- Sb
- M = 121,75 g/mol
- CAS [7440-36-0]
- EINECS-No.: 231-146-5
- Solub. in water: (20 °C): insoluble
- Melting point: 630 °C
- Boiling point: 1637 °C
- LD 50 (oral, rat): 7000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H335
- GHS-P sentences: P261 - P304+P340 - P312 - P405 - P403+P233 - P501a
- Tariff number: 8110 10 00 90
- Applications: for the synthesis of: alloys; electrolyte for batteries, analytical chemistry.

SPECIFICATIONS

assay: min. 99 %
copper (Cu): max. 0,05 %
iron (Fe): max . 0,05 %
lead (Pb): max . 0,2 %



Barium chloride dihydrate, EssentQ®

- BaCl₂·2H₂O
- M = 244,28 g/mol
- CAS [10326-27-9]
- EINECS-No.: 233-788-1
- Solub. in water: (20 °C): 357 g/l
- Melting point: 962 °C (release of crystalline water)
- LD 50 (oral, rat): 118 mg/kg (anhydrous substance)
- EC-Index-No.: 056-002-00-7
- ADR: 6.1 T5 III UN 1564
- IMDG: 6.1 III UN 1564
- IATA/ICAO: 6.1 III UN 1564
- GHS-signal word: Danger
- GHS-H sentences: H301 - H332
- GHS-P sentences: P261 - P301+P310 - P321 - P304+P340 - P405 - P501a
- Tariff number: 2827 39 85 40
- Applications: analytical chemistry, for determination of: sulfates.

SPECIFICATIONS

assay (complexometric): 99 - 102 %
identity (IR-spectrum): passes test
insoluble in water: max. 0,02 %
pH (5 %, H₂O): 5,2 - 8,0
nitrogen compounds (as N): max. 0,003 %
calcium (Ca): max. 0,2 %
copper (Cu): max. 0,002 %
heavy metals (as Pb): max. 0,001 %

iron (Fe): max. 0,001 %
lead (Pb): max. 0,002 %
nickel (Ni): max. 0,002 %
strontium (Sr) : max. 0,2 %
non precipitable with diluted H₂SO₄ : max. 0,1 %



Barium chloride dihydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- BaCl₂·2H₂O
- M = 244,28 g/mol
- CAS [10326-27-9]
- EINECS-No.: 233-788-1
- Solub. in water: (20 °C): 357 g/l
- Melting point: 962 °C (release of crystalline water)
- LD 50 (oral, rat): 118 mg/kg (anhydrous substance)
- EC-Index-No.: 056-002-00-7
- ADR: 6.1 T5 III UN 1564
- IMDG: 6.1 III UN 1564
- IATA/ICAO: 6.1 III UN 1564
- GHS-signal word: Danger
- GHS-H sentences: H301 - H332
- GHS-P sentences: P261 - P301+P310 - P321 - P304+P340 - P405 - P501a
- Tariff number: 2827 39 85 40
- Applications: analytical chemistry, for determination of: sulfates.

SPECIFICATIONS

assay (complexometric): min. 99,0 %
identity (IR-spectrum): passes test
insoluble in water: max. 0,005 %
pH (5 %, H₂O): 5,2 - 8,0
total nitrogen (as N): max. 0,002 %
oxidizing substances (as NO₃): max. 0,005 %
calcium (Ca): max. 0,005 %
heavy metals: max. 5 ppm
iron (Fe): max. 1 ppm
lead (Pb): max. 0,001 %
potassium (K): max. 0,0025 %
sodium (Na): max. 0,005 %
strontium (Sr) : max. 0,05 %
loss on drying (150 °C) : 14,0 - 16,0 %



Barium chloride, solution 10% w/v

- BaCl₂
- M = 208,25 g/mol
- CAS [10361-37-2]
- EINECS-No.: 233-788-1
- Density: 1,08 g/cm³
- EC-Index-No.: 056-004-00-8
- ADR: 6.1 T4 III UN 3287
- IMDG: 6.1 III UN 3287
- IATA/ICAO: 6.1 III UN 3287
- GHS-signal word: Warning
- GHS-H sentences: H302

- GHS-P sentences: P261 - P264 - P270 - P301+P312 - P304+P340 - P501a
- Tariff number: 2827 39 85 90
- Applications: analytical chemistry, laboratory reagent.
- Appearance: Colourless liquid

SPECIFICATIONS

assay (argentometric): approx. 10 %



Barium hydroxide octahydrate, EssentQ®

- Synonyms: Caustic baryta, Barium oxide hydrate octahydrate
- $\text{Ba(OH)}_2 \cdot 8\text{H}_2\text{O}$
- $M = 315,48 \text{ g/mol}$
- CAS [12230-71-6]
- EINECS-No.: 241-234-5
- Solub. in water: (15 °C): 56 g/l
- Melting point: 78 °C
- LD 50 (oral, rat): 550 mg/kg
- ADR: 8 C6 II UN 3262
- IMDG: 8 II UN 3262
- IATA/ICAO: 8 II UN 3262
- GHS-signal word: Danger
- GHS-H sentences: H302+H332 - H314
- GHS-P sentences: P261 - P264 - P270 - P301+P312 - P304+P340 - P501a
- Tariff number: 2816 40 00 00
- Applications: analytical chemistry, for the detection of: carbon dioxide; in pesticide compositions, in lubricant compositions, in the rubber industry.

SPECIFICATIONS

assay (complexometric): min. 97 %
insoluble in HCl : max. 0,01 %
carbonates (as BaCO_3): max. 2 %
chlorides (Cl): max. 0,005 %
sulfides (S): max. 0,001 %
calcium (Ca): max. 0,005 %
heavy metals (as Pb): max. 10 ppm
iron (Fe): max. 0,001 %
lead (Pb): max. 0,002 %
strontium (Sr) : max. 1 %
non precipitable with H_2SO_4 (as SO_4): max. 0,2 %



Barium hydroxide octahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: Caustic baryta, Barium oxide hydrate octahydrate
- $\text{Ba(OH)}_2 \cdot 8\text{H}_2\text{O}$
- $M = 315,48 \text{ g/mol}$
- CAS [12230-71-6]
- EINECS-No.: 241-234-5
- Solub. in water: (15 °C): 56 g/l
- Melting point: 78 °C
- LD 50 (oral, rat): 550 mg/kg
- ADR: 8 C6 II UN 3262
- IMDG: 8 II UN 3262
- IATA/ICAO: 8 II UN 3262

- GHS-signal word: Danger
- GHS-H sentences: H302+H332 - H314
- GHS-P sentences: P261 - P264 - P270 - P301+P312 - P304+P340 - P501a
- Tariff number: 2816 40 00 00
- Applications: analytical chemistry, for the detection of: carbon dioxide; in pesticide compositions, in lubricant compositions, in the rubber industry.

SPECIFICATIONS

assay (acidimetric): min. 98,0 %
 insoluble in HCl : max. 0,005 %
 carbonates (as BaCO₃): max. 2,0 %
 chlorides (Cl): max. 0,001 %
 sulfides (S): max. 0,0005 %
 cadmium (Cd): max. 5 ppm
 calcium (Ca): max. 0,002 %
 heavy metals (as Pb): max. 5 ppm
 iron (Fe): max. 5 ppm
 lead (Pb): max. 5 ppm
 magnesium (Mg): max. 0,002 %
 potassium (K): max. 0,01 %
 sodium (Na): max. 0,01 %
 strontium (Sr) : max. 0,5 %
 zinc (Zn): max. 5 ppm
 non precipitable with H₂SO₄ (as SO₄): max. 0,2 %



Barium nitrate, EssentQ®

- Synonyms: Nitric acid barium salt
- Ba(NO₃)₂
- M = 261,35 g/mol
- CAS [10022-31-8]
- EINECS-No.: 233-020-5
- Solub. in water: (20 °C): 90 g/l
- Melting point: 592 - 595 °C
- LD 50 (oral, rat): 355 mg/kg
- EC-Index-No.: 056-002-00-7
- ADR: 5.1 OT2 II UN 1446
- IMDG: 5.1 II UN 1446
- IATA/ICAO: 5.1 II UN 1446
- GHS-signal word: Danger
- GHS-H sentences: H272 - H301 - H332 - H319 -
- GHS-P sentences: P221 - P210 - P220 - P305+P351+P338 - P370+P378 - P501a
- Tariff number: 2834 29 20 00
- Applications: analytical chemistry, in explosive compositions.
- Appearance: White crystals

SPECIFICATIONS

assay (complexometric): min. 99 %
 insoluble in water: max. 0,02 %
 acidity (as HNO₃): max. 0,01 %
 pH (5 %, H₂O): 5,0 - 8,0
 calcium (Ca): max. 0,1 %
 chlorides (Cl): max. 0,002 %
 iron (Fe): max. 5 ppm
 strontium (Sr) : max. 0,1 %



Barium nitrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Nitric acid barium salt
- $\text{Ba}(\text{NO}_3)_2$
- M = 261,35 g/mol
- CAS [10022-31-8]
- EINECS-No.: 233-020-5
- Solub. in water: (20 °C): 90 g/l
- Melting point: 592 - 595 °C
- LD 50 (oral, rat): 355 mg/kg
- EC-Index-No.: 056-002-00-7
- ADR: 5.1 OT2 II UN 1446
- IMDG: 5.1 II UN 1446
- IATA/ICAO: 5.1 II UN 1446
- GHS-signal word: Danger
- GHS-H sentences: H272 - H301 - H332 - H319 -
- GHS-P sentences: P221 - P210 - P220 - P305+P351+P338 - P370+P378 - P501a
- Tariff number: 2834 29 20 00
- Applications: analytical chemistry, in explosive compositions.
- Appearance: White crystals

SPECIFICATIONS

assay (complexometric): min. 99,0 %
insoluble in water: max. 0,01 %
pH (5 %, H_2O): 5,0 - 8,0
chlorides (Cl): max. 5 ppm
calcium (Ca): max. 0,002 %
heavy metals: max. 5 ppm
iron (Fe): max. 2 ppm
potassium (K): max. 0,005 %
sodium (Na): max. 0,005 %
strontium (Sr) : max. 0,05 %



Barium sulfate, Pharmpur®, Ph Eur, BP

- Synonyms: Sulfuric acid barium salt, Blanc fixe
- BaSO_4
- M = 233,40 g/mol
- CAS [7727-43-7]
- EINECS-No.: 231-784-4
- Solub. in water: (20 °C): < 0,01 g/l
- Melting point: 1580 °C
- LD 50 (oral, rat): > 15000 mg/kg
- Tariff number: 2833 27 00 00
- Applications: photography, in the rubber industry, synthesis of polymers, in radiology applications, in pharma industry, cosmetic auxiliary
- Appearance: blanco

SPECIFICATIONS

Identification sulfates: passes test
identification B (EP): passes test
soluble in acid : max. 0,3 %
acidity or alkalinity: passes test
oxidisable sulphur compounds: passes test
barium soluble salts: max. 10 ppm
residue on ignition: max. 2,0 %



Bismuth oxide, EssentQ®

- Bi₂O₃
- M = 465,96 g/mol
- CAS [1304-76-3]
- EINECS-No.: 215-134-7
- Solub. in water: (20 °C): almost insoluble
- Melting point: 817 °C
- Boiling point: 1890 °C
- LD 50 (oral, rat): 5000 mg/kg
- Tariff number: 2825 90 80 00
- Applications: analytical chemistry, catalyst, in the rubber industry, synthesis of organic products.

SPECIFICATIONS

assay (complexometric): min. 99,5 %
nitrates (NO₃): max. 0,05 %
arsenic (As): max. 5 ppm
copper (Cu): max. 0,005 %
residue on ignition (1000 °C): max. 0,5 %



Bismuth(III) hydroxide nitrate, Pharmpur®, Ph Eur, BP, USP

- Synonyms: Bismuth subnitrate, Bismuth nitrate basic
- Bi₅O(OH)₉(NO₃)₄
- M = 1461,99 g/mol
- CAS [1304-85-4]
- EINECS-No.: 215-136-8
- Solub. in water: (20 °C): almost insoluble
- Melting point: 260 °C
- ADR: 5.1 O2 II UN 1477
- IMDG: 5.1 II UN 1477
- IATA/ICAO: 5.1 II UN 1477
- GHS-signal word: Danger
- GHS-H sentences: H272
- GHS-P sentences: P221 - P210 - P220 - P280 - P370+P378 - P501a
- Tariff number: 2834 29 80 00
- Applications: analytical chemistry, cosmetics, in pharma industry.
- Appearance: Colourless solid

SPECIFICATIONS

assay (complexometric, as Bi, on dried sample) : 71,0 - 74,0 %
assay (complexometric, as Bi₂O₃, on dried sample) : min. 79,0 %
Identification bismuth: passes test
Identification nitrates: passes test
Identification A (EP): passes test
pH : max. 2,0
acidity: passes test
chlorides (Cl): max. 200 ppm
carbonates : passes test
sulfates (SO₄): passes test
arsenic (As): max. 8 ppm
ammonium salts: passes test
copper (Cu): max. 50 ppm
copper (Cu): passes test

lead (Pb): max. 20 ppm
lead (Pb): passes test
silver (Ag): max. 25 ppm
silver (Ag): passes test
alkali and alkaline earth metals:: max. 0,5 %
substances not precipitated by ammonia: max. 1,0 %
loss on drying (105 °C): max. 3,0 %



Bromine water, saturated solution

- Br₂
- M = 159,92 g/mol
- CAS [7726-95-6]
- EINECS-No.: 231-778-1
- Density: ~ 1,008 g/cm³
- EC-Index-No.: 035-001-00-5
- ADR: 6.1 TC3 II UN 3289
- IMDG: 6.1 II UN 3289
- IATA/ICAO: 6.1 II UN 3289
- GHS-signal word: Danger
- GHS-H sentences: H318 - H315
- GHS-P sentences: P280 - P264 - P305+P351+P338 - P310 - P321 - P332+P313
- Tariff number: 2801 30 90 00
- Applications: analytical chemistry, laboratory reagent, manufacture of dyes, fumigant, inorganic salts, in the pharmaceuticals industry.
- Appearance: Red Brown

SPECIFICATIONS

assay (bromometric): approx. 3 %



Cadmium chloride 2,5-hydrate, EssentQ®

- CdCl₂·2,5H₂O
- M = 228,34 g/mol
- CAS [7790-78-5]
- EINECS-No.: 640-998-0
- Solub. in water: (25 °C): freely soluble
- LD 50 (oral, rat): 665 mg/kg
- EC-Index-No.: 048-008-00-3
- ADR: 6.1 T5 II UN 2570
- IMDG: 6.1 II UN 2570
- IATA/ICAO: 6.1 II UN 2570
- GHS-signal word: Danger
- GHS-H sentences: H301 - H330 - H340 - H350 - H360 - H372 - H400 - H410
- GHS-P sentences: P260 - P284 - P301+P310 - P320 - P405 - P501a
- Tariff number: 2827 39 80 90
- Applications: analytical chemistry, laboratory reagent, electrolyte for batteries, metal alloys, in solders (aluminium), in galvanotechnia.
- Appearance: White chunks

SPECIFICATIONS

assay (complexometric): 98 - 102 %
insoluble in water: max. 0,01 %
nitrates and nitrites (as NO₂): max. 0,02 %
sulfates (SO₄): max. 0,01 %
ammonium (NH₄): max. 0,02 %

arsenic (As): max. 1 ppm
copper (Cu): max. 0,002 %
iron (Fe): max. 0,002 %
lead (Pb): max. 0,01 %
zinc (Zn): max. 0,05 %



Cadmium nitrate tetrahydrate, EssentQ®

- Synonyms: Nitric acid cadmium salt tetrahydrate
- $\text{Cd}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$
- $M = 308,47 \text{ g/mol}$
- CAS [10022-68-1]
- EINECS-No.: 233-710-6
- Solub. in water: (20 °C): soluble
- Melting point: 59 °C
- LD 50 (oral, rat): 300 mg/kg
- EC-Index-No.: 048-001-00-5
- ADR: 6.1 T5 II UN 2570
- IMDG: 6.1 II UN 2570
- IATA/ICAO: 6.1 II UN 2570
- GHS-signal word: Danger
- GHS-H sentences: H301 - H312 - H330 - H340 - H350 - H360 - H372 - H410
- GHS-P sentences: P260 - P284 - P301+P310 - P320 - P405 - P501a
- Tariff number: 2834 29 20 00
- Applications: analytical chemistry, laboratory reagent, photography, for the synthesis of: cadmium salts.
- Appearance: White crystals

SPECIFICATIONS

assay (complexometric): min. 99 %
insoluble in water: max. 0,01 %
chlorides (Cl): max. 0,005 %
ammonium (NH_4): max. 0,03 %
copper (Cu): max. 0,003 %
iron (Fe): max. 0,001 %
lead (Pb): max. 0,005 %
sodium (Na): max. 0,01 %
zinc (Zn): max. 0,005 %



Cadmium nitrate tetrahydrate, for analysis, ExpertQ®



Cadmium oxide, EssentQ®



Cadmium, metal, EssentQ®, Reag. Ph Eur



Calci



**Calcium bis-(dihydrogen phosphate) monohydrate,
EssentQ®**



**Calcium carbonate, precipitated, for analysis, ExpertQ®,
Reag. Ph Eur**



**Calcium carbonate, precipitated, Pharmpur®, Ph Eur, BP,
USP**



Calcium chloride anhydrous, powder, EssentQ®



**Calcium chloride anhydrous, powder, for analysis,
ExpertQ®**



Calcium chloride dihydrate, powder, Pharmapur®, Ph Eur, BP, USP



Calcium chloride dihydrate, sheets, EssentQ®



Calcium hydrogen phosphate dihydrate, Pharmapur®, Ph Eur, BP, USP



Calcium hydroxide, 90%, EssentQ®



Calcium hydroxide, powder, Pharmapur®, Ph Eur, BP, USP



Calcium nitrate tetrahydrate, EssentQ®



Calcium nitrate tetrahydrate, for analysis, ExpertQ®, ACS



Calcium sulfate dihydrate, for analysis, ExpertQ®, ACS



Calcium sulfate dihydrate, Pharmpur®, Ph Eur, BP, NF



Cerium(III) nitrate hexahydrate, EssentQ®, Reag. Ph Eur



Cerium(IV) oxide, EssentQ®



Cesium chloride, for analysis, ExpertQ®



Chromium(III) chloride hexahydrate, ExpertQ®, Reag. Ph Eur



Chromium(III) nitrate nonahydrate, EssentQ®



Chromium(VI) oxide, EssentQ®, Reag. Ph Eur



Cobalt(II) chloride hexahydrate, EssentQ®



Cobalt(II) chloride hexahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Cobalt(II) nitrate hexahydrate, EssentQ®



Cobalt(II) nitrate hexahydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Cobalt(II) sulfate heptahydrate, EssentQ®



Cobalt(II) sulfate heptahydrate, for analysis, ExpertQ®



Copper(I) chloride, for analysis, ExpertQ®, ACS



Copper(II) chloride dihydrate, for analysis, ExpertQ®, ACS



Copper(II) chloride dihydrate, Pharmpur®, USP



Copper(II) hydroxide carbonate, EssentQ®



Copper(II) nitrate trihydrate, EssentQ®



Copper(II) nitrate trihydrate, for analysis, ExpertQ®



Copper(II) oxide, EssentQ®



Copper(II) sulfate anhydrous, Pharmpur®, Ph Eur, BP, USP

 **Scharlau**

Copper(II) sulfate pentahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

 **Scharlau**

Copper(II) sulfate pentahydrate, Pharmpur®, Ph Eur, BP, USP

 **Scharlau**

Copper, powder, EssentQ®, Reag. Ph Eur

 **Scharlau**

di-Ammonium hydrogen phosphate, for analysis, ExpertQ®, ACS

 **Scharlau**

di-Ammonium hydrogen phosphate, Pharmpur®, NF

 **Scharlau**

di-Phosphorus pentoxide, for analysis, ExpertQ®, ACS, ISO



di-Potassium hydrogen phosphate anhydrous, for analysis, ExpertQ®, ACS, Reag. Ph Eur



di-Potassium hydrogen phosphate anhydrous, Pharmpur®, Ph Eur, BP



di-Potassium hydrogen phosphate trihydrate, EssentQ®



di-Potassium hydrogen phosphate trihydrate, for analysis, ExpertQ®, Reag. Ph Eur



di-Sodium hydrogen phosphate anhydrous, for analysis, ExpertQ®, ACS, Reag. Ph Eur



di-Sodium hydrogen phosphate anhydrous, Pharmpur®, Ph Eur, BP, USP



di-Sodium hydrogen phosphate dihydrate, for analysis,
ExpertQ®, Reag. Ph Eur



di-Sodium hydrogen phosphate dihydrate, Pharmpur®, Ph
Eur, BP, USP



di-Sodium hydrogen phosphate dodecahydrate, for
analysis, ExpertQ®, ISO



di-Sodium hydrogen phosphate dodecahydrate,
Pharmpur®, Ph Eur, BP



di-Sodium tetraborate anhydrous, EssentQ®



di-Sodium tetraborate decahydrate, for analysis,
ExpertQ®, ACS, ISO



di-Sodium tetraborate decahydrate, Pharmpur®, Ph Eur,
BP, NF



Glass wool



Hydrazine hydrate, 100%, EssentQ®



Hydrazine sulfate, for analysis, ExpertQ®, ACS



Hydrobromic acid, 48%, for analysis, ExpertQ®, ACS, ISO



Hydrochloric acid, 37%, for analysis, ExpertQ®, ACS, ISO,
Reag. Ph Eur



Hydrochloric acid, solution 25% w/w, for analysis,
ExpertQ®, ISO



Hydrochloric acid, solution 32% w/w, for analysis,
ExpertQ®, ISO



Hydrochloric acid, solution 35% w/w, EssentQ®



Hydrofluoric acid, solution 40% w/w, for analysis,
ExpertQ®, ISO



Hydrofluoric acid, solution 48% w/w, EssentQ®



Hydrofluoric acid, solution 48% w/w, for analysis,
ExpertQ®, ACS, ISO



Hydrogen peroxide solution 30%, stabilized



Hydrogen peroxide, solution 30% w/w (110 vol), for
analysis, ExpertQ®, ACS, ISO



Hydrogen peroxide, solution 35% w/w (133 vol), EssentQ®



Hydrogen peroxide, solution 35% w/w (133 vol), for analysis, ExpertQ®



Hydrogen peroxide, solution 50% w/w (200 vol), EssentQ®



Hydrogen peroxide, solution 6% w/v (20 vol), EssentQ®



Hydroxylamine hydrochloride, EssentQ®



Hydroxylamine hydrochloride, for analysis, ExpertQ®, ACS, ISO



Hydroxylammonium sulfate, EssentQ®



Iodine, pearls, resublimed, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Iodine, pearls, resublimed, Pharmapur®, Ph Eur, BP, USP



Iron(II) sulfate heptahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Iron(II) sulfate heptahydrate, Pharmapur®, Ph Eur, BP, USP



Iron(II) sulfide, for producing hydrogen sulfide



Iron(III) chloride, 30%, aqueous solution, EssentQ®



Iron(III) nitrate nonahydrate, EssentQ®, Reag. Ph Eur



Iron(III) oxide, EssentQ®



Scharlau

Iron(III) sulfate hydrate, for analysis, ExpertQ®



Scharlau

Iron, powder, EssentQ® (made by reduction), particle size
< 100 µm



Scharlau

Iron, powder, EssentQ® (made by reduction), particle size
< 150 µm



Scharlau

Lanthanum(III) chloride heptahydrate, for analysis,
ExpertQ®, ACS



Scharlau

Lanthanum(III) nitrate hexahydrate, for analysis, ExpertQ®



Scharlau

Lanthanum(III) oxide, EssentQ®



Scharlau

Lead(II) chloride, EssentQ®



Lead(II) nitrate, for analysis, ExpertQ®, ACS



Lead(II) oxide, EssentQ®



Lead(II) oxide, for analysis, ExpertQ®



Lead(II) sulfate, EssentQ®



Lithium carbonate, for analysis, ExpertQ®, ACS, Reag. Ph
Eur



Lithium chloride, EssentQ®



Lithium hydroxide monohydrate, EssentQ®



Lithium hydroxide monohydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Lithium metaborate, for analysis, ExpertQ®



Lithium nitrate, EssentQ®



Lithium sulfate monohydrate, for analysis, ExpertQ®, ACS



Magnesium chloride hexahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Magnesium chloride hexahydrate, Pharmpur®, Ph Eur, BP, USP



Magnesium hydroxide carbonate pentahydrate, EssentQ®



Magnesium nitrate hexahydrate, EssentQ®



Magnesium nitrate hexahydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Magnesium oxide, Pharmpur®, Ph Eur, BP, USP



Magnesium sulfate anhydrous, EssentQ®



Magnesium sulfate heptahydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Magnesium sulfate heptahydrate, Pharmpur®, Ph Eur, BP, USP



Magnesium, turnings, EssentQ®, according to Grignard



Manganese(II) chloride tetrahydrate, EssentQ®



Manganese(II) nitrate tetrahydrate, for analysis, ExpertQ®



**Manganese(II) sulfate monohydrate, for analysis,
ExpertQ®, ACS, Reag. Ph Eur**



**Manganese(II) sulfate monohydrate, Pharmpur®, Ph Eur,
BP, USP**



Manganese(IV) oxide, 90%, EssentQ®



Manganese(IV) oxide, EssentQ®



Manganese, powder, EssentQ®



Mercury(I) chloride, EssentQ®



Mercury(I) nitrate dihydrate, for analysis, ExpertQ®



Mercury(II) chloride, for analysis, ExpertQ®, ACS, ISO



Mercury(II) chloride, Pharmpur®, Ph Eur, BP



Mercury(II) iodide, red, for analysis, ExpertQ®, ACS



**Mercury(II) nitrate monohydrate, for analysis, ExpertQ®,
Reag. Ph Eur**



Mercury(II) oxide, red, EssentQ®



Scharlau

Mercury(II) oxide, red, for analysis, ExpertQ®, ACS



Scharlau

Mercury(II) sulfate, EssentQ®



Scharlau

Mercury, metal, EssentQ®, washed, Reag. Ph Eur



Scharlau

Molybdenum(VI) oxide, EssentQ®



Scharlau

Nickel(II) chloride hexahydrate, EssentQ®



Scharlau

Nickel(II) chloride hexahydrate, for analysis, ExpertQ®



Scharlau

Nickel(II) nitrate hexahydrate, EssentQ®



Nickel(II) sulfate hexahydrate, EssentQ®



Nickel(II) sulfate hexahydrate, for analysis, ExpertQ®, ACS



Nickel, powder, EssentQ®



Nitric acid, min. 69,5%, for analysis, ExpertQ®, ACS, ISO



Nitric acid, solution 60% w/w, EssentQ®



Nitric acid, solution 65% w/w, EssentQ®



Nitric acid, solution min. 60% w/w, for analysis, ExpertQ®, ISO



Nitric acid, solution min. 65% w/w, ISO, Reag. Ph Eur, for determinations with dithizone



ortho-Phosphoric acid, 85%, Pharmpur®, Ph Eur, BP, NF



ortho-Phosphoric acid, solution 50%, for analysis, ExpertQ®



Palladium(II) chloride, approx. 59% Pd



Perchloric acid, 70%, for analysis, ExpertQ®, ACS, ISO



Perchloric acid, solution 20% w/w, EssentQ®



Perchloric acid, solution 20% w/w, for analysis, ExpertQ®



Perchloric acid, solution 60% w/w, for analysis, ExpertQ®, ACS, ISO



Phosphotungstic acid hydrate, for analysis, ExpertQ®



Potassium bromate, EssentQ®



Potassium bromate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Potassium bromide, EssentQ®



Potassium bromide, for analysis, ExpertQ®, ACS



Potassium bromide, IR spectroscopy grade



Potassium carbonate, for analysis, ExpertQ®, ACS, ISO,
Reag. Ph Eur



Potassium carbonate, Pharmpur®, Ph Eur, BP, USP



Potassium carbonate/sodium carbonate anhydrous,
mixture 50%, for analysis, ExpertQ®



Potassium chlorate, EssentQ®



Potassium chlorate, for analysis, ExpertQ®, ACS, Reag.
Ph Eur



Potassium chloride, Pharmpur®, Ph Eur, BP, USP



Potassium cyanide, EssentQ®, Reag. Ph Eur



Scharlau

Potassium dichromate, EssentQ®



Scharlau

Potassium dihydrogen phosphate, Pharmpur®, Ph Eur,
BP, NF



Scharlau

Potassium disulfite, for analysis, ExpertQ®



Scharlau

Potassium disulfite, Pharmpur®, Ph Eur, NF



Scharlau

Potassium fluoride, EssentQ®, Reag. Ph Eur



Scharlau

Potassium hexacyanoferrate(II) trihydrate, EssentQ®



Scharlau

Potassium hexacyanoferrate(II) trihydrate, for analysis,
ExpertQ®, ACS, ISO, Reag. Ph Eur



Scharlau

Potassium hexacyanoferrate(III), EssentQ®



Scharlau

Potassium hexacyanoferrate(III), for analysis, ExpertQ®,
ACS, ISO



Scharlau

Potassium hexahydroxoantimonate(V), EssentQ®



Scharlau

Potassium hydrogen carbonate, for analysis, ExpertQ®,
Reag. Ph Eur



Scharlau

Potassium hydrogen sulfate, EssentQ®



Scharlau

Potassium hydroxide, 90%, flakes, EssentQ®



Scharlau

Potassium hydroxide, pellets, for analysis, ExpertQ®, ISO,
Reag. Ph Eur



Potassium hydroxide, pellets, Pharmapur®, Ph Eur, BP, NF



Potassium hydroxide, solution 40% w/v, EssentQ®



Potassium iodate, EssentQ®



Potassium iodate, for analysis, ExpertQ®, ACS, ISO, Reag.
Ph Eur



Potassium iodide, for analysis, ExpertQ®, ACS, ISO, Reag.
Ph Eur



Potassium iodide, Pharmapur®, Ph Eur, BP, USP



Potassium iodide, solution 15% w/v, EssentQ®



Potassium metaperiodate, for analysis, ExpertQ®, ACS



Potassium nitrate, EssentQ®



Potassium nitrate, for analysis, ExpertQ®, ACS, ISO,
Reag. Ph Eur



Potassium nitrate, Pharmpur®, Ph Eur, BP, USP



Potassium nitrite, crystallized, for analysis, ExpertQ®,
ACS



Potassium permanganate, for analysis, ExpertQ®, ACS,
ISO, Reag. Ph Eur



Potassium permanganate, Pharmpur®, Ph Eur, BP, USP



Potassium peroxodisulfate, EssentQ®, Reag. Ph Eur



Potassium sulfate, for analysis, ExpertQ®, ACS, ISO,
Reag. Ph Eur



Potassium sulfate, Pharmpur®, Ph Eur, BP



Potassium thiocyanate, EssentQ®



Potassium thiocyanate, for analysis, ExpertQ®, ACS, ISO,
Reag. Ph Eur



Pumice stone, granulated



Sea sand, washed, thick



Sea sand, washed, thin



Selenium dioxide, EssentQ®



Selenium, black, powder



Silicon dioxide, highly dispersed



Silver chloride, EssentQ®



Silver nitrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph
Eur



Silver nitrate, Pharmpur®, Ph Eur, BP, USP



Scharlau

Silver oxide, EssentQ®, Reag. Ph Eur



Scharlau

Silver sulfate, EssentQ®



Scharlau

Sodium azide, EssentQ®, Reag. Ph Eur



Scharlau

Sodium borohydride, powder, EssentQ®



Scharlau

Sodium bromide, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Scharlau

Sodium bromide, Pharmpur®, Ph Eur, BP, USP



Scharlau

Sodium carbonate anhydrous, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Scharlau

Sodium carbonate anhydrous, Pharmapur®, Ph Eur, BP, NF



Scharlau

Sodium carbonate anhydrous, secondary standard for volumetric titrations, Titrasure®



Scharlau

Sodium carbonate decahydrate, Pharmapur®, Ph Eur, BP



Scharlau

Sodium carbonate, saturated solution



Scharlau

Sodium chlorate, EssentQ®



Scharlau

Sodium chloride, EssentQ®



Scharlau

Sodium chloride, for climatic chambers, according to ASTM B117



Scharlau

Sodium chloride, Pharmpur®, Ph Eur, BP, USP



Scharlau

Sodium chloride, saturated solution



Scharlau

Sodium chloride, thick salt, EssentQ®



Scharlau

Sodium cyanide, EssentQ®



Scharlau

Sodium dihydrogen phosphate anhydrous, Pharmpur®, BP, USP



Scharlau

Sodium dihydrogen phosphate dihydrate, for analysis, ExpertQ®, Reag. Ph Eur



Scharlau

Sodium dihydrogen phosphate dihydrate, Pharmpur®, Ph Eur, BP, USP



Sodium dihydrogen phosphate monohydrate, for analysis, ExpertQ®, ACS, Reag. Ph. Eur.



Sodium dihydrogen phosphate monohydrate, Pharmapur®, BP, USP



Sodium disulfite, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Sodium disulfite, Pharmapur®, Ph Eur, BP, NF



Sodium fluoride, for analysis, ExpertQ®, ACS, ISO



Sodium fluoride, Pharmapur®, Ph Eur, BP, USP



Sodium hexametaphosphate, EssentQ®



Sodium hexanitrocobaltate(III), for analysis, ExpertQ®, ACS, Reag. Ph Eur



Sodium hydrogen carbonate, EssentQ®



Sodium hydrogen carbonate, Pharmpur®, Ph Eur, BP, USP



Sodium hydrogen carbonate, saturated solution



Sodium hydrogen sulfate anhydrous, EssentQ®



Sodium hydrogen sulfite, solution 40%, EssentQ®



Sodium hydroxide, granulated, EssentQ®



Sodium hydroxide, pellets, for analysis, ExpertQ®



Sodium hydroxide, pellets, Pharmpur®, Ph Eur, BP, NF



Sodium hydroxide, solution 15% w/w, EssentQ®



Sodium hydroxide, solution 20% w/v, EssentQ®



Sodium hydroxide, solution 25% w/v, EssentQ®



Sodium hydroxide, solution 35% w/v, EssentQ®



Sodium hydroxide, solution 50% w/v, EssentQ®



Sodium hypochlorite, solution 10% w/v, EssentQ®



Sodium hypochlorite, solution 15% w/v, EssentQ®



Sodium hypochlorite, solution 5% w/v, EssentQ®



Sodium iodate, for analysis, ExpertQ®



Sodium iodide, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Sodium iodide, Pharmpur®, Ph Eur, BP, USP



Sodium metaperiodate, EssentQ®



**Sodium metaperiodate, for analysis, ExpertQ®, ACS,
Reag. Ph Eur**



**Sodium molybdate dihydrate, for analysis, ExpertQ®,
ACS, Reag. Ph Eur**



Sodium molybdate dihydrate, Pharmpur®, Ph Eur, BP



Sodium nitrate, EssentQ®



**Sodium nitrate, for analysis, ExpertQ®, ACS, ISO, Reag.
Ph Eur**



Sodium nitrite, EssentQ®



Sodium nitrite, for analysis, ExpertQ®, ACS



Sodium nitroprusside dihydrate, for analysis, ExpertQ®, ACS



Sodium perchlorate monohydrate, EssentQ®, Reag. Ph Eur



Sodium peroxide, EssentQ®



Sodium peroxodisulfate, EssentQ®



Sodium phosphinate monohydrate, EssentQ®, Reag. Ph Eur



Sodium silicate, neutral solution, EssentQ®



Sodium sulfate anhydrous, granulated, EssentQ®



Sodium sulfate anhydrous, granulated, for analysis, ExpertQ®, ACS, ISO



Sodium sulfate anhydrous, powder, extra pure



Sodium sulfate decahydrate, Pharmpur®, Ph Eur, BP, USP



Sodium sulfide hydrate, EssentQ®



Sodium sulfite, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Sodium sulfite, Pharmpur®, Ph Eur, BP



Sodium tetrachloroaurate(III) dihydrate, EssentQ®



Sodium thiocyanate, for analysis, ExpertQ®, ACS



Sodium thiosulfate anhydrous, EssentQ®



Sodium thiosulfate pentahydrate, Pharmpur®, Ph Eur, BP, USP



Sodium tripolyphosphate anhydrous, EssentQ®



Sodium tungstate dihydrate, for analysis, ExpertQ®, ACS



Sodium, metal, in vaseline oil, EssentQ®, Reag. Ph Eur



Strontium nitrate anhydrous, EssentQ®



Sulfamic acid, EssentQ®



Sulfamic acid, EssentQ®



Sulfur flower, EssentQ®, washed



Sulfur flower, Pharmpur®, Ph Eur, BP



Sulfuric acid, 95 - 97%, EssentQ®



**Sulfuric acid, 95 - 97%, for analysis, ExpertQ®, ISO, Reag.
Ph Eur, packed in HDPE bottles**



Sulfuric acid, 95 - 98%, Pharmpur®, Ph Eur, BP, NF



**Sulfuric acid, 95 - 98%, Pharmpur®, Ph Eur, BP, USP,
packed in HDPE bottles**



Sulfuric acid, 96% $\pm$ 0,1%, for analysis, ExpertQ®



Sulfuric acid, solution 10% w/v, EssentQ®



Sulfuric acid, solution 25% w/w, for analysis, ExpertQ®



Sulfuric acid, solution 50% w/v, for analysis, ExpertQ®



**Tetrasodium diphosphate decahydrate, EssentQ®, Reag.
Ph Eur**



**Tin(II) chloride dihydrate, for analysis, ExpertQ®, ACS,
ISO, Reag. Ph Eur**



Scharlau

Tin(II) chloride dihydrate, Pharmpur®, Ph Eur, BP



Scharlau

Tin, granulated (1 - 3 mm), EssentQ®, Reag. Ph Eur



Scharlau

Titanium dioxide, EssentQ®



Scharlau

tri-Calcium phosphate anhydrous, Pharmpur®, Ph Eur, BP



Scharlau

tri-Sodium phosphate anhydrous, EssentQ®



Scharlau

tri-Sodium phosphate dodecahydrate, EssentQ®



Scharlau

tri-Sodium phosphate dodecahydrate, for analysis,
ExpertQ®, ACS



Scharlau

tri-Sodium phosphate monohydrate, EssentQ®



Scharlau

Vaseline, white, EssentQ®



Scharlau

Water, deionized, EssentQ®



Scharlau

Zinc chloride, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Scharlau

Zinc chloride, Pharmpur®, Ph Eur, BP, USP



Scharlau

Zinc nitrate hexahydrate, for analysis, ExpertQ®



Scharlau

Zinc oxide, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Zinc oxide, Pharmapur®, Ph Eur, BP, USP



Zinc sulfate heptahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Zinc sulfate heptahydrate, Pharmapur®, Ph Eur, BP, USP



Zinc sulfate monohydrate, EssentQ®



Zinc, powder, EssentQ®



Boric acid, Pharmapur®, Ph Eur, BP, NF



Hydrochloric acid, 37%, Pharmapur®, Ph Eur, BP, NF, JP

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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: sbu@nt-rt.ru || сайт: <https://scharlab.nt-rt.ru>