

Соли аммония

Технические характеристики

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AMMONIUM ADIPATE 99% EXTRAPURE

Adipic acid ammounium salt;Hexanedioic acid ammonium salt

Product Code.	00179	Grade	
Purity	Min 99%	CAS No.	3385-41-9
Molecular Formula	C6H12N2O4	Molecular Weight	180.14
H.S.Code	2917.19900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Ammonical odour
pH value	6.5 - 7.5				

Packaging



Specification

Appearance	White crystalline powder
Assay	Min 99%
Iron (Fe)	Max 0.05%
pH	6.5 - 7.5
Chloride (Cl)	Max 0.0004%
Sulphate (SO4)	Max 0.0002%
Moisture content	Max 0.1%
Solubility (10% in water)	Clear & colorless solution

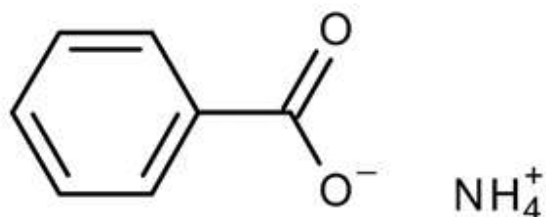
Safety Information and Hazard Symbols

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AMMONIUM BENZOATE 98% EXTRAPURE

Benzoic acid ammonium salt

Product Code.	00180	Grade	
Purity	Min. 98%	CAS No.	1863-63-4
Molecular Formula	C7H9NO2	Molecular Weight	139.16
H.S.Code	2916.31900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Ammonical odour
pH value	6 - 7.5	Melting point/ Freezing point [°C]	192 - 198 °C	Density [g/cm3]	1.26
Solubility in water [% weight]	Soluble in water				

Packaging



Specification

Appearance	Almost white powder
Assay (acidimetric)	Min 98%
pH (10% solution in water)	5.0 - 8.0
Heavy metal (as Pb)	Max 0.001%

Oxidizable impurities (as cinnamic acid)

Passes test

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

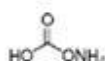
Hazardous Statement: H302-H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

AMMONIUM BICARBONATE 98.5% EXTRAPURE

Ammonium Hydrogen Carbonate

Product Code.	00181	Grade	
Purity	Min. 98%	CAS No.	1066-33-7
Molecular Formula	NH ₄ HCO ₃	Molecular Weight	79.06
H.S.Code	2836.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight ammonia odor
pH value	7 - 8.5	Melting point/ Freezing point [°C]	107.5°C	Vapour pressure [20°C]	67.1 hPa at 20 °C
Vapour density	2.73	Density [g/cm ³]	1.58	Solubility in water [% weight]	79.1 g/l at 20 °C - completely soluble
Partition coefficient Log Pow octanol / water at 20°C	-2.4				

Packaging



Specification

Appearance	White hygroscopic crystalline powder
Assay	Min 99.0%
Insoluble matter	Max 0.003%
Non volatile matter	Max 0.005%
Chloride (Cl)	Max 0.0002%
Phosphate (PO4)	Max 0.001%
Silicate (SiO2)	Max 0.005%
Sulphate (SO4)	Max 0.002%
Sulphide (S)	Max 0.0002%
Arsenic (As)	Max 0.00004%
Calcium (Ca)	Max 0.002%
Copper (Cu)	Max 0.0002%
Iron (Fe)	Max 0.0005%
Lead (Pb)	Max 0.0002%
Magnesium (Mg)	Max 0.002%
Potassium (K)	Max 0.002%
Sodium (Na)	Max 0.005%

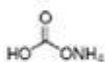
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302

AMMONIUM BICARBONATE 99% AR

Ammonium Hydrogen Carbonate

Product Code.	00182	Grade	AR
Purity	Min 99%	CAS No.	1066-33-7
Molecular Formula	NH4HCO3	Molecular Weight	79.06
H.S.Code	2836.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight ammonia odor
pH value	7 - 8.5	Melting point/ Freezing point [°C]	107.5°C	Vapour pressure [20°C]	67.1 hPa at 20 °C
Vapour density	2.73	Density [g/cm3]	1.58	Solubility in water [% weight]	79.1 g/l at 20 °C - completely soluble
Partition coefficient Log Pow octanol / water at 20°C	-2.4				

Packaging



Specification

Appearance	White hygroscopic crystalline powder
Assay	Min 99.0%
Insoluble matter	Max 0.003%
Non-volatile matter	Max 0.005%
Chloride (Cl)	Max 0.0002%
Phosphate (PO4)	Max 0.001%
Silicate (SiO2)	Max 0.005%
Sulphate (SO4)	Max 0.002%
Sulphide (S)	Max 0.0002%
Arsenic (As)	Max 0.00004%
Calcium (Ca)	Max 0.002%
Copper (Cu)	Max 0.0002%
Iron (Fe)	Max 0.0005%
Lead (Pb)	Max 0.0002%
Magnesium (Mg)	Max 0.002%
Potassium (K)	Max 0.002%
Sodium (Na)	Max 0.005%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302

AMMONIUM BICARBONATE, 99% ,FOR ANALYSIS

Product Code.	0182A	Grade	for Analysis
Purity	99%	CAS No.	1066-33-7
Molecular Formula	CH5NO3	Molecular Weight	79.06
H.S.Code	2836.99900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight ammonia odor
pH value	7 - 8.5	Melting point/ Freezing point [°C]	107.5°C	Vapour pressure [20°C]	67.1 hPa at 20 °C
Vapour density	2.73	Density [g/cm3]	1.58	Solubility in water [% weight]	79.1 g/l at 20 °C - completely soluble
Partition coefficient Log Pow octanol / water at 20°C	-2.4				

Packaging

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Specification

Appearance (Color)	White
Appearance (Form)	Crystalline powder
Titration with NaOH	>=98.5 %
Sulfated ash	=<0.05 %
Insoluble matter	=<0.005 % (in water)
Chloride (Cl)	=<5 ppm
Phosphate (PO)	=<5 ppm
Calcium (Ca)	=<10 ppm
Copper (Cu)	=<5 ppm

Iron (Fe)	=<5 ppm
Potassium (K)	=<10 ppm
Sodium (Na)	=<20 ppm
Heavy metals (as Pb)	=<5 ppm

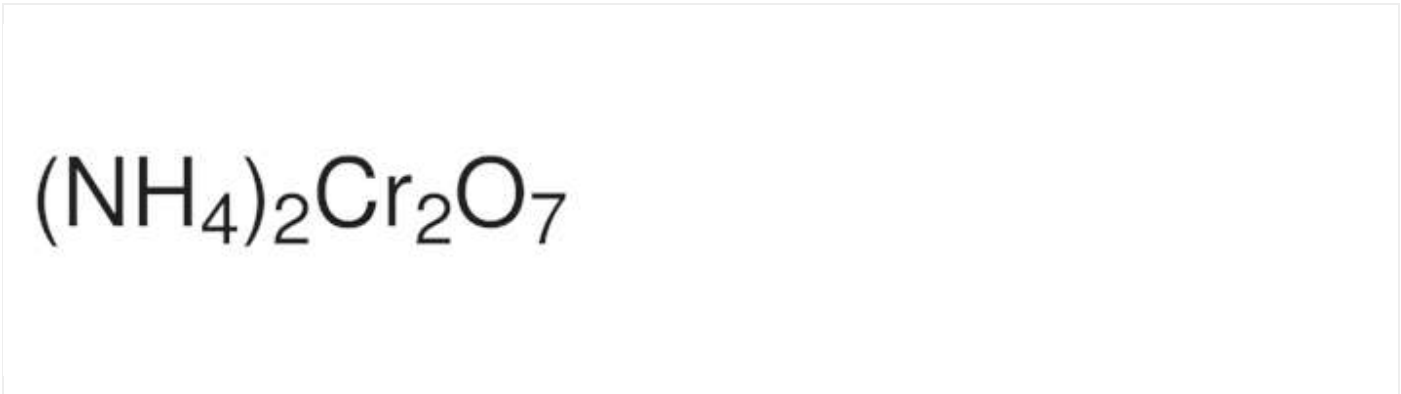
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302

AMMONIUM BICHROMATE 99.5% AR

Ammonium Dichromate

Product Code.	00185	Grade	AR
Purity	99.5%	CAS No.	7789-09-5
Molecular Formula	(NH4)2Cr2O7	Molecular Weight	252.06
H.S.Code	2841.50900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Orange to red	Odour	Odorless
pH value	3 - 4	Melting point/ Freezing point [°C]	170 °C	Decomposition point [°C]	170 °C
Auto-ignition temperature [°C]	218°C	Density [g/cm3]	2.15	Solubility in water [% weight]	360 g/l (20°C)
Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2				

Packaging



Specification

Appearance	Orange colored crystalline powder
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Assay (on anhydrous basis)	Min 99.5%
Insoluble matter	Max 0.005%
Chloride (Cl)	Max 0.005%
Sulphate (SO4)	Max 0.01%
Loss on drying (at 105°C)	Max 3.0%
Calcium (Ca)	Max 0.0025%
Sodium (Na)	Max 0.02%

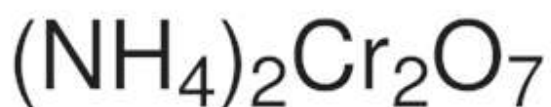
Safety Information and Hazard Symbols


Symbol: GHS03, GHS05, GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 1439 IMCO Class No.: 5.1 Packing Group: II Hazardous Statement: H272-H301-H312-H314-H317-H330-H334-H340-H350-H360FD-H372-H410 Precaution Statement: P201-P220-P260-P273-P280-P284

AMMONIUM BICHROMATE 99% EXTRAPURE

Ammonium Dichromate

Product Code.	00183	Grade	Extrapure
Purity	99%	CAS No.	7789-09-5
Molecular Formula	(NH ₄) ₂ Cr ₂ O ₇	Molecular Weight	252.06
H.S.Code	2841.50900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Orange to red	Odour	Odorless
pH value	3 - 4	Melting point/ Freezing point [°C]	170 °C	Decomposition point [°C]	170 °C
Auto-ignition temperature [°C]	218°C	Density [g/cm ³]	2.15	Solubility in water [% weight]	360 g/l (20°C)
Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2				

Packaging



Specification

Appearance	Orange coloured crystals or crystalline powder
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Assay (iodometric)	Min 99%
Chloride (Cl)	Max 0.01%
Sulphate (SO4)	Max 0.05%

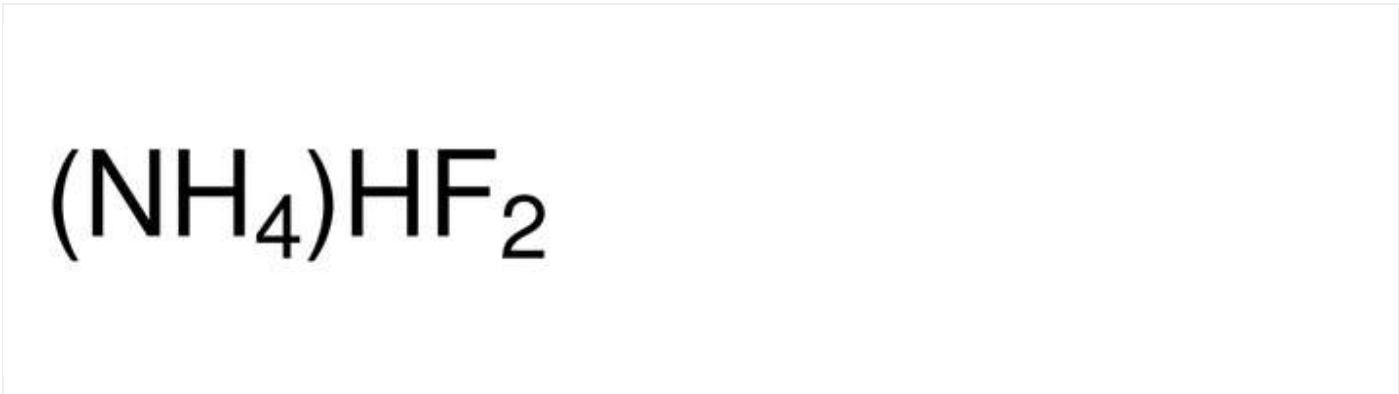
Safety Information and Hazard Symbols


Symbol: GHS03, GHS05, GHS06, GHS08, GHS09 Signal Word: Danger UN No.: 1439 IMCO Class No.: 5.1 Packing Group: II Hazardous Statement: H272-H301-H312-H314-H317-H330-H334-H340-H350-H360FD-H372-H410 Precaution Statement: P201-P220-P260-P273-P280-P284

AMMONIUM BIFLUORIDE 98% PURE

Ammonium hydrogen difluoride, Etching powder

Product Code.	00186	Grade	Extrapure
Purity	98%	CAS No.	1341-49-7
Molecular Formula	NH4F.HF	Molecular Weight	57.07
H.S.Code	2826.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	3.5 (5% Solution)	Melting point/ Freezing point [°C]	125 °C	Boiling point [°C]	240°C
Density [g/cm3]	1.5	Solubility in water [% weight]	41.5g/100 g Water @ 250C		

Packaging



Specification

Appearance	White crystalline hygroscopic powder
Assay (acidimetric)	Min 98.0%
Residue on ignition	Max 0.05%

Chloride (Cl)	Max 0.005%
Silica (SiO ₂)	Max 0.5%
Sulphate (SO ₄)	Max 0.05%
Iron (Fe)	Max 0.005%
Lead (Pb)	Max 0.01%

Safety Information and Hazard Symbols


Symbol: GHS05, GHS06 Signal Word: Danger UN No.: 1727 IMCO Class No.: 8 Packing Group: II Hazardous Statement: H301-H314 Precaution Statement: P280-P301 + P310-P305 + P351 + P338-P310

AMMONIUM CARBONATE EXTRAPURE

Hartshorn salt

Product Code.	00190	Grade	Extrapure
Purity		CAS No.	506-87-6
Molecular Formula	NH ₄ HCO ₃ NH ₂ COONH ₄	Molecular Weight	96.09
H.S.Code	2836.99900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Strong ammonia-like odor
pH value	9	Melting point/ Freezing point [°C]	58 °C	Vapour pressure mm/Hg	760 mm Hg @ 600C
Density [g/cm3]	1.5	Solubility in water [% weight]	Soluble in water		

Packaging



Specification

Appearance	White powder or crystals and/or chunks having ammonical odour
Ammonia (NH ₃)	Min 30.0%
Chloride (Cl)	Max 0.0035%

Phosphate (PO4)	Max 0.001%
Sulphate (SO4)	Max 0.005%
Iron (Fe)	Max 0.001%
Residue on ignition (as SO4)	Max 0.1%
Heavy metal (as Pb)	Max 0.001%

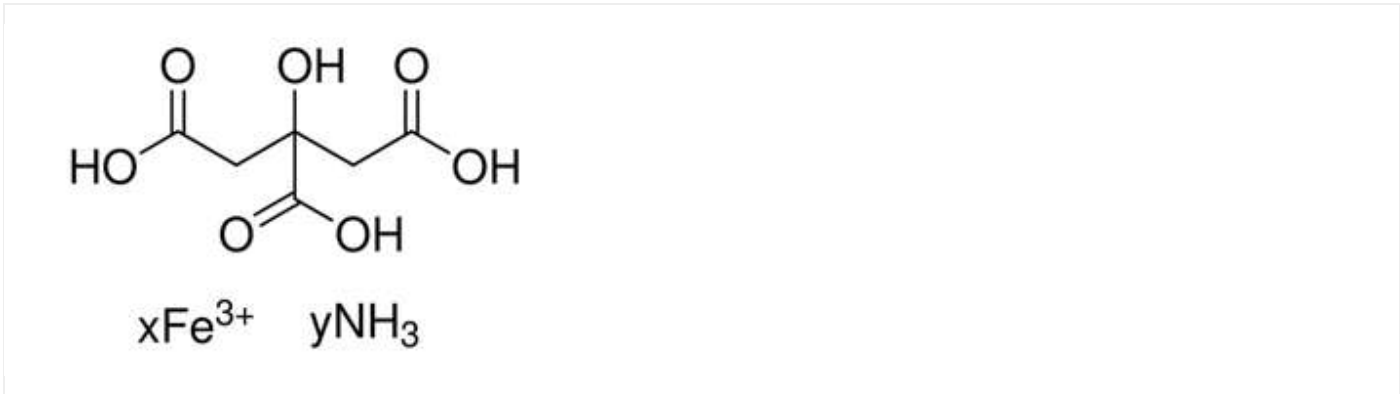
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302

AMMONIUM FERRIC CITRATE (BROWN) EXTRA PURE

Ammonium iron(III) citrate, Ferric ammonium citrate

Product Code.	00204	Grade	Extra Pure
Purity		CAS No.	1185-57-5
Molecular Formula		Molecular Weight	0.00
H.S.Code	2918.15500	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Reddish brown	Odour	Odorless to slight ammonia odor
Solubility in water [% weight]	Soluble in water				

Packaging



Specification

Appearance	Reddish brown to dark brown crystalline powder
Assay (as Fe)	20.5 - 22.5%
Chloride (Cl)	Max 0.25%
Sulphate (SO4)	Max 0.3%

Heavy metal (as Pb)	Max 0.003%
Arsenic (As)	Max 0.0004%
Zinc (Zn)	Max 0.005%
Free ferric compounds	Passes test

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

AMMONIUM FLUORIDE 98% AR

Product Code.	00211	Grade	AR
Purity	98%	CAS No.	12125-01-8
Molecular Formula	NH4F	Molecular Weight	37.04
H.S.Code	2826.19900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	Aqueous solution is an acid	Melting point/ Freezing point [°C]	Sublimes upon heating	Density [g/cm3]	1.01
Solubility in water [% weight]	100 g/100 ml water @ 0C				

Packaging



Specification

Appearance	White crystalline powder, crystals, granules or chunks
Assay (by NaOH titration)	Min. 98.0%
Heavy metal (as Pb)	Max. 0.0005%

Insoluble matter	Max. 0.005%
Residue on ignition	Max. 0.01%
Chloride (Cl)	Max. 0.001%
Sulphate (SO ₄)	Max. 0.005%
Iron (Fe)	Max. 0.0005%

Safety Information and Hazard Symbols



Symbol: GHS06

Signal Word: Danger

UN No.: 2505

IMCO Class No.: 6.1

Packing Group: III

Hazardous Statement: H301-H311-H331

Precaution Statement: P261-P280-P301 + P310-P311

AMMONIUM FLUORIDE,98+%,EXTRA PURE

Product Code.	0210A	Grade	extra pure
Purity	98+%	CAS No.	12125-01-8
Molecular Formula	NH ₄ F	Molecular Weight	37.04
H.S.Code	2826.19900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Odorless
pH value	Aqueous solution is an acid	Melting point/ Freezing point [°C]	Sublimes upon heating	Density [g/cm ³]	1.01
Solubility in water [% weight]	100 g/100 ml water @ 0C				

Specification

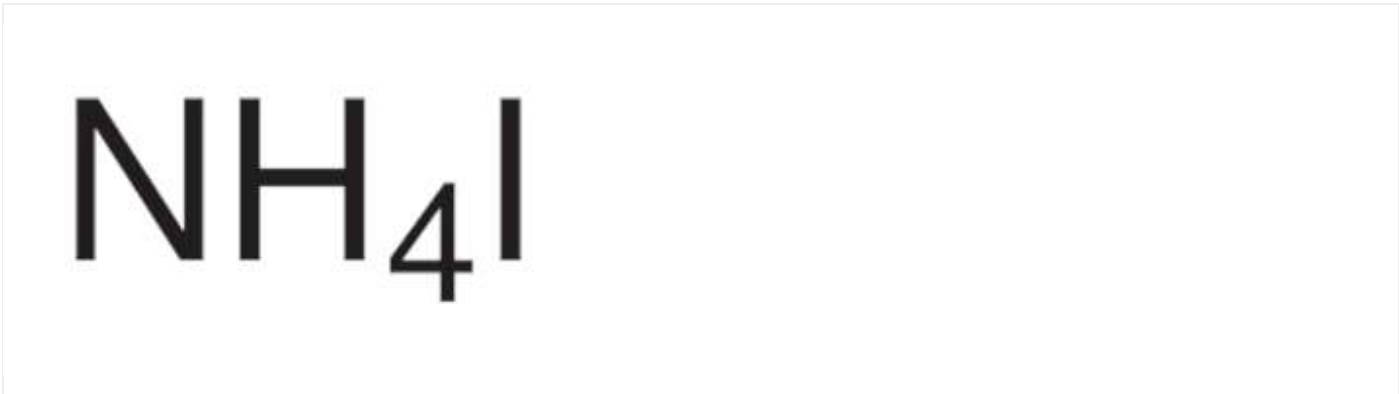
Appearance (Color)	White
Appearance (Form)	Adhering crystalline powder
Titration excess NaOH	>=98.0 %
Heavy metals (as Pb)	=<5 ppm
Residue after ignition	=<0.01 % (SO ₄)
Hexafluorosilicate (SiF ₆)	=<0.1 %
(NH ₄)HF ₂	=<1 %

Safety Information and Hazard Symbols


Symbol: GHS06 Signal Word: Danger UN No.: 2505 IMCO Class No.: 6.1 Packing Group: III Hazardous Statement: H301-H311-H331 Precaution Statement: P261-P280-P301 + P310-P311

AMMONIUM IODIDE 98.5% EXTRAPURE

Product Code.	00214	Grade	Extrapure
Purity	98.5%	CAS No.	12027-06-4
Molecular Formula	NH4I	Molecular Weight	144.94
H.S.Code	2827.60900	Shelf Life	36 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4.5 - 6.5	Melting point/ Freezing point [°C]	551 °C	Boiling point [°C]	220°C
Vapour pressure mm/Hg	1 mm Hg at 210.9 °C	Density [g/cm3]	2.51	Solubility in water [% weight]	154.2 g/100cc @ 00C

Packaging



Specification

Appearance	White to almost white crystalline powder turns pale yellow on exposure to air
Assay (argentometric)	Min 98.5%
Chloride & bromide (as Cl)	Max 0.02%

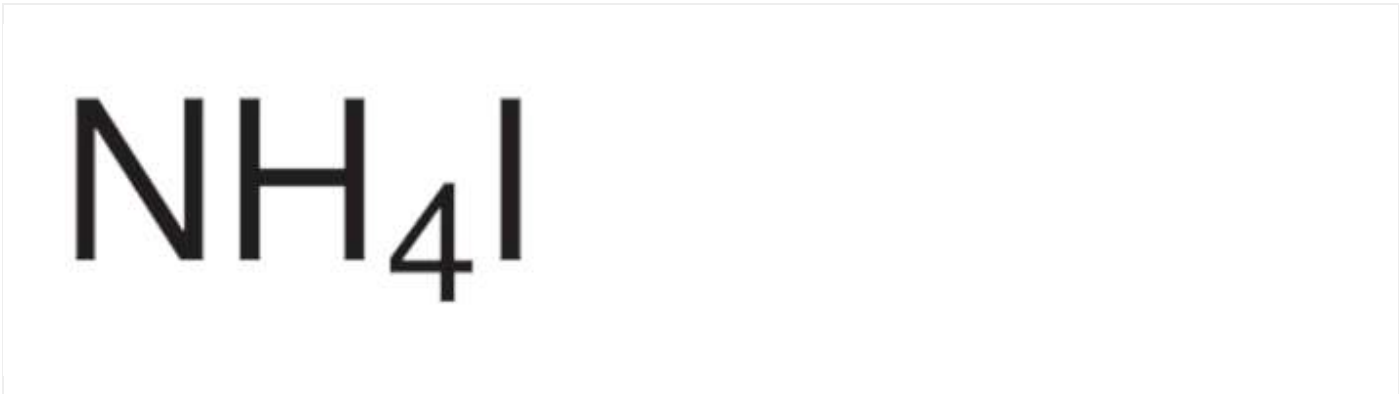
Sulphate (SO4)	Max 0.05%
Copper (Cu)	Max 0.001%
Iron (Fe)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

AMMONIUM IODIDE 99% AR

Product Code.	00215	Grade	AR
Purity	99%	CAS No.	12027-06-4
Molecular Formula	NH4I	Molecular Weight	144.94
H.S.Code	2827.60900	Shelf Life	36 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	4.5 - 6.5	Melting point/ Freezing point [°C]	551 °C	Boiling point [°C]	220°C
Vapour pressure mm/Hg	1 mm Hg at 210.9 °C	Density [g/cm3]	2.51	Solubility in water [% weight]	154.2 g/100cc @ 00C

Packaging



Specification

Appearance	White to light yellow crystalline powder***
Assay (argentometric)	Min 99.0%
Insoluble matter	Max 0.005%

Residue on ignition	Max 0.05%
Chloride & bromides	Max 0.005%
Phosphate (PO ₄)	Max 0.001%
Sulphate (SO ₄)	Max 0.05%
Barium (Ba)	Max 0.002%
Iron (Fe)	Max 0.0005%
Heavy metal (as Pb)	Max 0.001%
Arsenic (As)	Max 0.0004%
****May become pale yellow on storage	

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

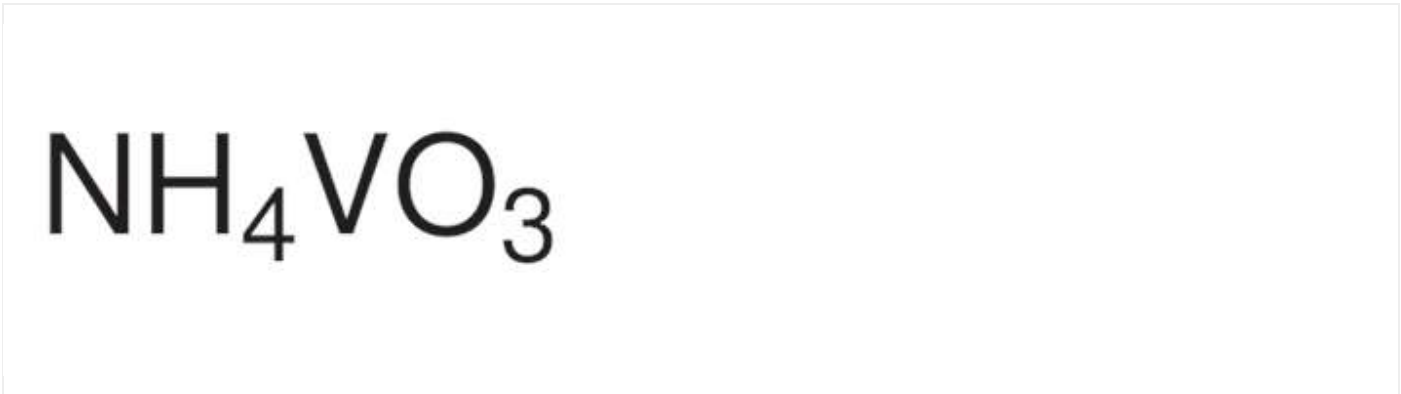
Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

AMMONIUM METAVANADATE 98% EXTRAPURE

Ammonium vanadate(V) ;(Ammonium Monovanadate)

Product Code.	00217	Grade	Extrapure
Purity	98%	CAS No.	7803-55-6
Molecular Formula	NH4VO3	Molecular Weight	116.98
H.S.Code	2841.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White or yellowish-white	Odour	Odorless
Melting point/ Freezing point [°C]	200°C	Solubility in water [% weight]	Slight (0.1-1%)		

Packaging



Specification

Appearance	White to yellow to tan color powder
Assay	Min 98%
Chloride (Cl)	Max 0.2%
Sulphate (SO4)	Max 0.05%

Safety Information and Hazard Symbols



Symbol: GHS06

Signal Word: Danger

UN No.: 2859

IMCO Class No.: 6.1

Packing Group: II

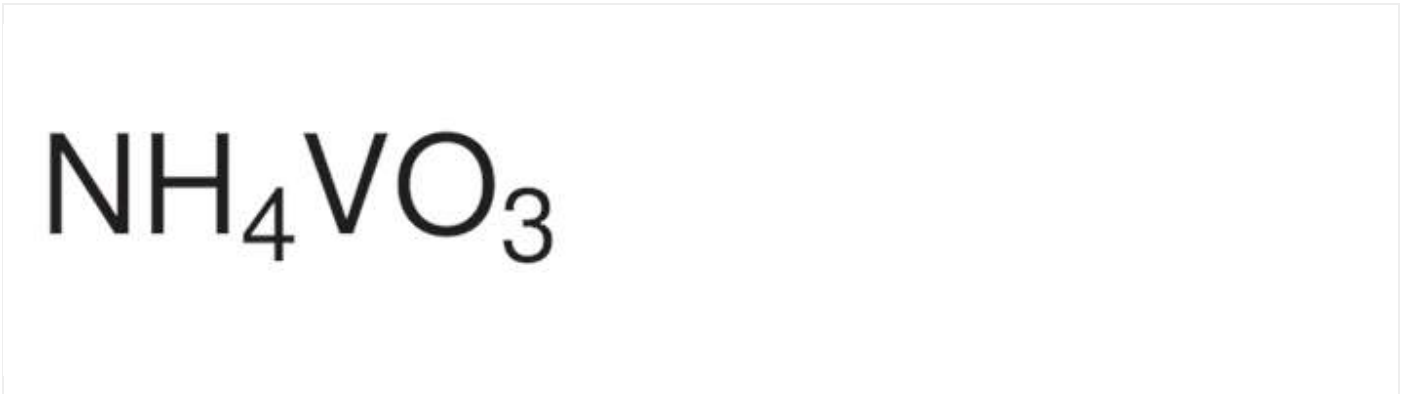
Hazardous Statement: H301-H315-H319-H330-H335

Precaution Statement: P260-P284-P301 + P310-P305 + P351 + P338-P310

AMMONIUM METAVANADATE 99% AR

Ammonium vanadate(V) , (Ammonium Monovanadate)

Product Code.	00218	Grade	AR
Purity	99%	CAS No.	7803-55-6
Molecular Formula	NH4VO3	Molecular Weight	116.98
H.S.Code	2841.90000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White or yellowish-white	Odour	Odorless
Melting point/ Freezing point [°C]	200°C	Solubility in water [% weight]	Slight (0.1-1%)		

Packaging



Specification

Appearance	White to Faint yellow to tan color powder
Assay	Min 99.0%
Insoluble matter in NH4OH	Max 0.01% (passes ACS test)
Chloride (Cl)	Max 0.005%

Sulphate (SO ₄)	Max 0.01%
Phosphate (PO ₄)	Max 0.005%
Iron (Fe)	Max 0.003%
Carbonate (as CO ₃)	Max 0.3% (passes ACS test)

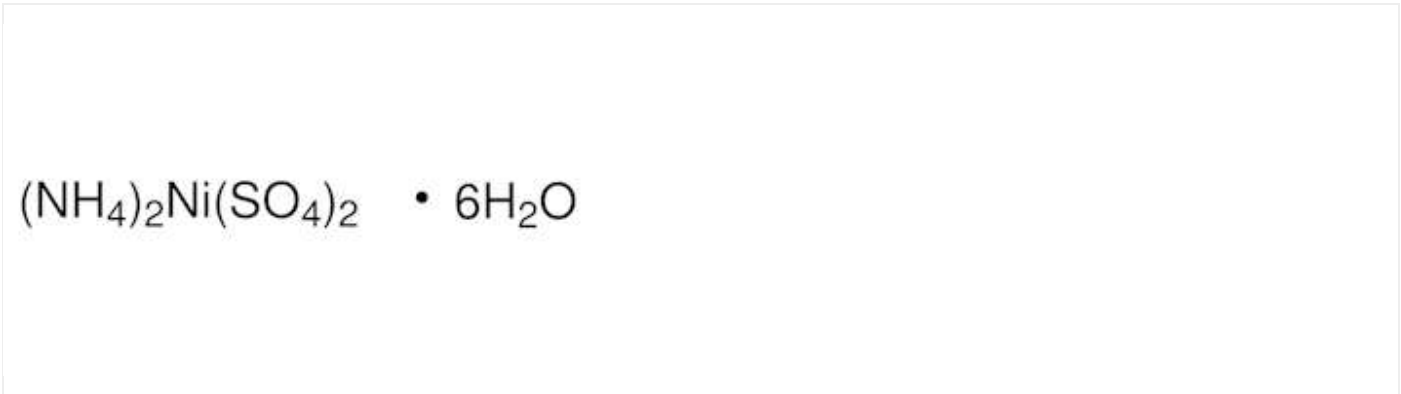
Safety Information and Hazard Symbols


Symbol: GHS06 Signal Word: Danger UN No.: 2859 IMCO Class No.: 6.1 Packing Group: II Hazardous Statement: H301-H315-H319-H330-H335 Precaution Statement: P260-P284-P301 + P310-P305 + P351 + P338-P310

AMMONIUM NICKEL SULPHATE HEXAHYDRATE 98% AR

Nickel ammonium sulphate, Di-ammonium nickel sulphate hexahydrate

Product Code.	00223	Grade	
Purity	Min. 98%	CAS No.	7785-20-8
Molecular Formula	(NH4)2SO4.NiSO4.6H2O	Molecular Weight	394.97
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Green crystalline	Melting point/ Freezing point [°C]	85 - 89 °C
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Packaging



Specification

Appearance	Green crystalline powder
Assay	Min 98%
Chloride (Cl)	Max 0.005%
Cadmium (Cd)	Max 0.005%
Calcium (Ca)	Max 0.005%
Cobalt (Co)	Max 0.05%

Copper (Cu)	Max 0.005%
Iron (Fe)	Max 0.005%
Lead (Pb)	Max 0.005%
Potassium (K)	Max 0.02%
Sodium (Na)	Max 0.01%
Zinc (Zn)	Max 0.005%

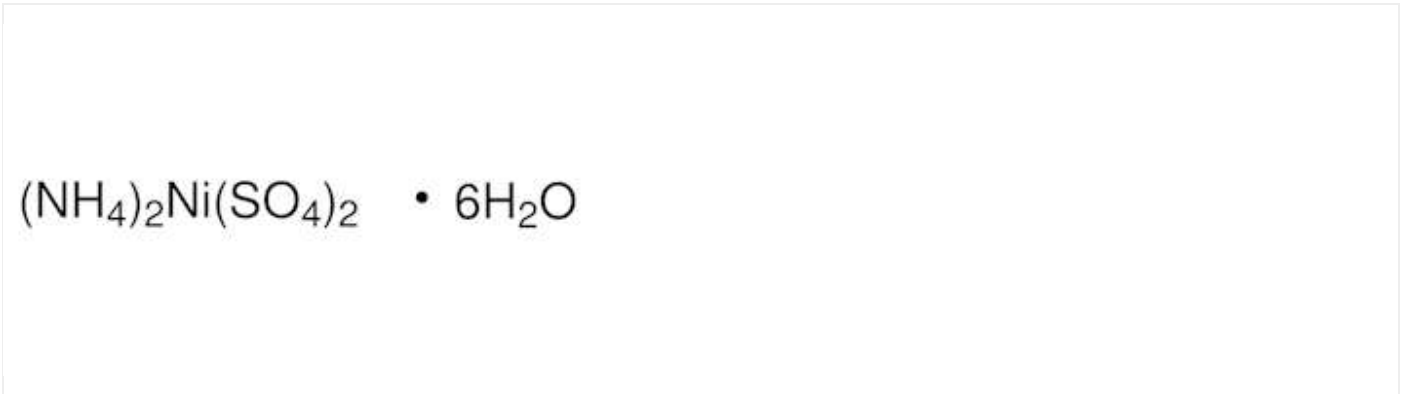
Safety Information and Hazard Symbols


Symbol: GHS07, GHS08, GHS09 Signal Word: Danger UN No.: 3077 IMCO Class No.: 9 Packing Group: III Hazardous Statement: H302-H317-H332-H334-H341-H350i-H360D-H372-H410 Precaution Statement: P201-P261-P273-P280-P308 + P313-P501

AMMONIUM NICKEL SULPHATE HEXAHYDRATE 98% EXTRAPURE

Nickel ammonium sulphate, Di-ammonium nickel sulphate hexahydrate

Product Code.	00222	Grade	
Purity	Min. 98%	CAS No.	7785-20-8
Molecular Formula	(NH4)2SO4.NiSO4.6H2O	Molecular Weight	394.97
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Green crystalline	Melting point/ Freezing point [°C]	85 - 89 °C
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Packaging



Specification

Appearance	Green crystalline powder
Assay	Min 98%
pH (5% solution)	4.0 - 6.0
Chloride (Cl)	Max 0.01%
Iron (Fe)	Max 0.001%
Zinc (Zn)	Max 0.005%

Cobalt (Co)

Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS07, GHS08, GHS09

Signal Word: Danger

UN No.: 3077

IMCO Class No.: 9

Packing Group: III

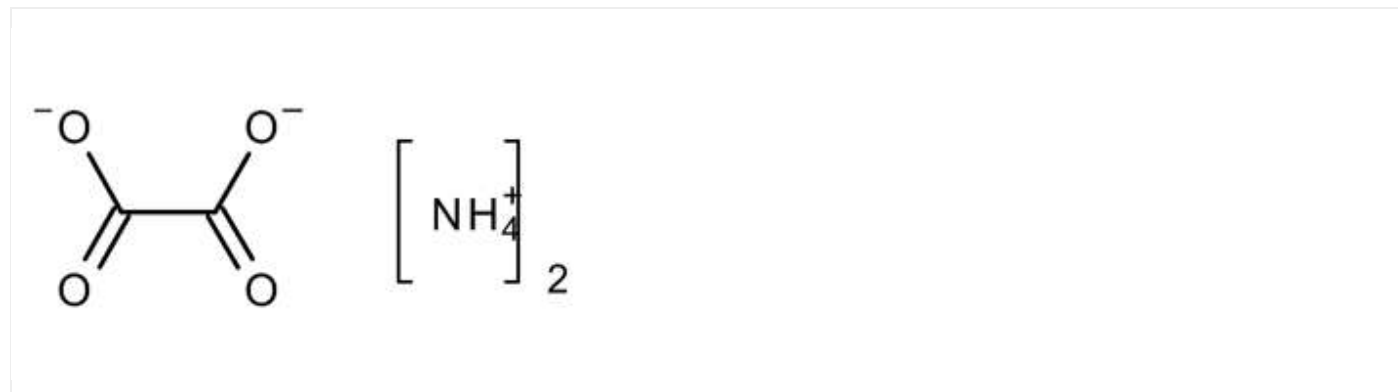
Hazardous Statement: H302-H317-H332-H334-H341-H350i-H360D-H372-H410

Precaution Statement: P201-P261-P273-P280-P308 + P313-P501

AMMONIUM OXALATE MONOHYDRATE 99.5% AR

Ammonium Ethanedioate, Oxalic acid diammonium salt

Product Code.	00225	Grade	
Purity	Min. 99%	CAS No.	6009-70-7
Molecular Formula	(COONH ₄) ₂ H ₂ O	Molecular Weight	142.11
H.S.Code	2917.11900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White Crystalline	Odour	Odorless
pH value	6.4 (0.1 molar solution)	Melting point/ Freezing point [°C]	133 °C	Density [g/cm ³]	1.5
Solubility in water [% weight]	11.8 g/100 g water @ 500C				

Packaging



Specification

Appearance	White crystalline powder
Assay	99 - 101%
Insoluble matter	Max 0.005%

Chloride (Cl)	Max 0.002%
Sulphate (SO4)	Max 0.002%
Iron (Fe)	Max 0.0002%
Heavy metal (as Pb)	Max 0.0005%
Residue on ignition	Max 0.02%

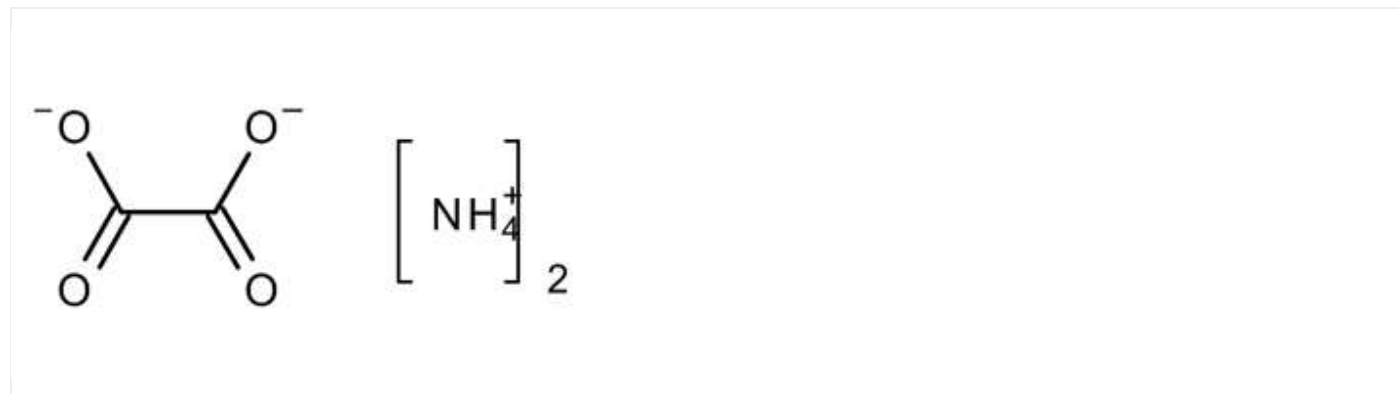
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning UN No.: 1759 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H302-H312 Precaution Statement: P280

AMMONIUM OXALATE MONOHYDRATE 99% EXTRAPURE

Ammonium ethanedioate, Oxalic acid diammonium salt

Product Code.	00224	Grade	Extrapure
Purity	99%	CAS No.	6009-70-7
Molecular Formula	(COONH ₄) ₂ H ₂ O	Molecular Weight	142.11
H.S.Code	2917.11900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White Crystalline	Odour	Odorless
pH value	6.4 (0.1 molar solution)	Melting point/ Freezing point [°C]	133 °C	Density [g/cm ³]	1.5
Solubility in water [% weight]	11.8 g/100 g water @ 500C				

Packaging



Specification

Appearance	White crystalline powder
Assay	Min 99%
Chloride (Cl)	Max 0.01%

Iron (Fe)	Max 0.002%
Sulphated ash	Max 0.1%
Sulphate (SO4)	Max 0.02%

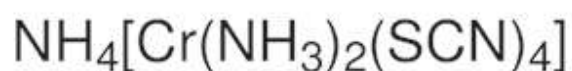
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning UN No.: 1759 IMCO Class No.: 8 Packing Group: III Hazardous Statement: H302-H312 Precaution Statement: P280

AMMONIUM REINECKATE MONOHYDRATE 95% EXTRAPURE

Colour reagent and precipitant for mercury. Reinecke Salt; Ammonium Tetrarhodanatodiamminechromate(III); Ammonium Tetrathiocyanatodiamminechromate(III); Ammonium Tetrathiocyanodiammonochromate

Product Code.	00238	Grade	
Purity	Min. 95%	CAS No.	13573-16-5
Molecular Formula	C4H10CrN7S4.H2O	Molecular Weight	354.44
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Red powder	Melting point/ Freezing point [°C]	268 - 272 °C
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Packaging



Specification

Appearance	Red coloured powder
Assay (argentometric)	Min 95%
Sensitivity for choline Chloride	passes test
Substance insoluble in hot water	Max 0.05%
Loss on drying (at 105°C)	Max 2%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

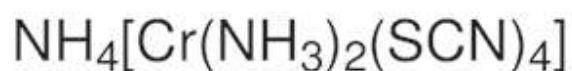
Hazardous Statement: H302-H312-H332

Precaution Statement: P280

AMMONIUM REINECKATE MONOHYDRATE 96% AR

Reinecke Salt; Ammonium Tetrarhodanatodiamminechromate(III); Ammonium Tetrathiocyanatodiamminechromate(III); Ammonium Tetrathiocyanodiammonochromate

Product Code.	00239	Grade	
Purity	Min. 96%	CAS No.	13573-16-5
Molecular Formula	C4H10CrN7S4.H2O	Molecular Weight	354.44
H.S.Code	2842.90900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Red powder	Melting point/ Freezing point [°C]	268 - 272 °C
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Packaging



Specification

Appearance	Red coloured powder
Assay (argentometric)	Min 96.0%
Substance insoluble in hot water	Max 0.05%
Loss on drying (at 105°C)	Max 1.5%
Sensitivity for choline chloride	Passes test

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

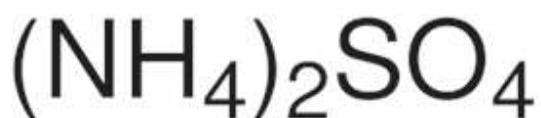
Hazardous Statement: H302-H312-H332

Precaution Statement: P280

AMMONIUM SULPHATE 98.5% EXTRAPURE

Diammonium Sulphate; : Mascagnite

Product Code.	00242	Grade	Extrapure
Purity	98.5%	CAS No.	7783-20-2
Molecular Formula	(NH ₄) ₂ SO ₄	Molecular Weight	132.14
H.S.Code	3102.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless crystals	Odour	Slight odor of ammonia
pH value	5 - 6	Melting point/ Freezing point [°C]	> 280 °C	Density [g/cm ³]	1.77
Solubility in water [% weight]	132 g/l at 20 °C - completely soluble	Partition coefficient Log Pow octanol / water at 20°C	-5.1		

Packaging



Specification

Appearance	Colorless crystals/ White crystalline powder
Assay (titration)	Min 98.5%
pH (5% solution; 25°C)	4.5 - 6.0

Heavy metal (as Pb)	Max 0.002 %
Chloride (Cl)	Max 0.003 %
Iron (Fe)	Max 0.002%
Sulphated ash	Max 0.05%

Safety Information and Hazard Symbols

AMMONIUM SULPHIDE SOLUTION 20%

Ammonium hydrosulfide

Product Code.	00246	Grade	
Purity	20%	CAS No.	12135-76-1
Molecular Formula	(NH ₄) ₂ S	Molecular Weight	68.14
H.S.Code	3822.00900	Shelf Life	36 Months

Physical Properties

Physical state at 20 °C	Liquid	Colour	Clear Yellow	Odour	Ammonia odour
pH value	9.5 (45% aqueous solution)	Flash point [°C]	32.2 °C	Vapour pressure [20°C]	600 hPa at 20 °C
Density [g/cm ³]	0.997	Solubility in water [% weight]	Infinitely soluble	Explosion limits - upper [%]	46%
Explosion limits -lower [%]	4%				

Packaging



Specification

Appearance	Clear yellow liquid with ammonical odor
Assay (as (NH ₄) ₂ S)	Min. 20.0% w/v
Residue on ignition (at 800°C)	Max. 0.05%

Safety Information and Hazard Symbols



Symbol: GHS05, GHS02

Signal Word: Danger

UN No.: 2683

IMCO Class No.: 8, 3, 6.1

Packing Group: II

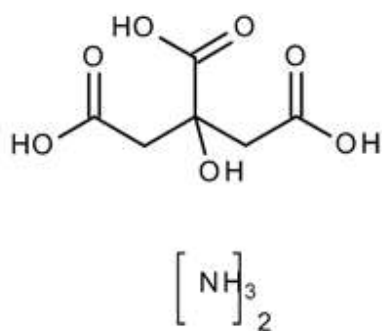
Hazardous Statement: H226-H314-H400

Precaution Statement: P273-P280-P305 + P351 + P338-P310

DI-AMMONIUM CITRATE 98% EXTRA PURE

Ammonium citrate dibasic , (Di-Ammonium Hydrogen Citrate)

Product Code.	00201	Grade	Extra Pure
Purity	98%	CAS No.	3012-65-5
Molecular Formula	(NH ₄) ₂ HC ₆ H ₅ O ₇	Molecular Weight	226.19
H.S.Code	2918.15900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Slight ammonia odor
pH value	5.2	Density [g/cm ³]	1.48	Solubility in water [% weight]	100 gm/100 gm water
Partition coefficient Log Pow octanol / water at 20°C	-2.84				

Packaging



Specification

Appearance	White crystalline powder
Assay (acidimetric)	Min 98%
Sulphate (SO ₄)	Max 0.01%

Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%
Chloride (Cl)	Max 0.001%
pH (5% solution)	4.9 - 5.5
Sulphated ash	Max 0.2%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

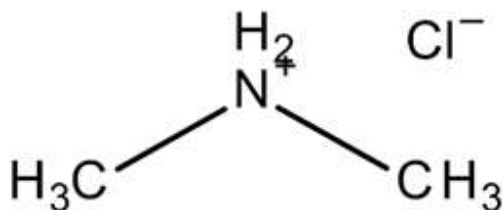
Hazardous Statement: H319-H335

Precaution Statement: P261-P305 + P351 + P338

DIMETHYL AMMONIUM CHLORIDE 99% FOR SYNTHESIS

Dimethyl Ammonium Chloride

Product Code.	01024	Grade	
Purity	99%	CAS No.	506-59-2
Molecular Formula	C ₂ H ₈ ClN	Molecular Weight	81.55
H.S.Code	2921.11900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystals	Melting point/ Freezing point [°C]	130 - 139 °C
Solubility in water [% weight]	Soluble in water				

Specification

Appearance	White deliquescent crystals
Assay (by HClO ₄ titration)	Min 99%
Melting range	168 - 172 deg C

Safety Information and Hazard Symbols

Symbol: GHS07 Signal Word: Warning Hazardous Statement: H302-H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

ETHYLENEDIAMINE TETRA ACETIC ACID 98% EXTRAPURE

(Salt Free) (EDTA Plain)

Product Code.	01162	Grade	Extrapure
Purity	98%	CAS No.	60-00-4
Molecular Formula	C10H16N2O8	Molecular Weight	292.24
H.S.Code	29224990.00000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	2.5 at 10 g/l at 23 °C	Melting point/ Freezing point [°C]	250 °C	Decomposition point [°C]	240 °C
Density [g/cm3]	0.860 g/cm3 at 20 °C	Solubility in water [% weight]	Slightly soluble in water	Partition coefficient Log Pow octanol / water at 20°C	-3.34

Packaging



Specification

Appearance	White crystalline powder
Assay	98 - 100.5%
Appearance of solution	Clear and colorless
Heavy metal (as Pb)	Max 0.002%
Iron (Fe)	Max 0.005%
Nitrilotriacetic acid (HPLC)	Max 0.1%
Formaldehyde (HCHO)	Max 0.001%
Sulphated ash (at 600°C)	Max 0.2%
Chloride (Cl)	Max 0.02%

Sulphate (SO₄)

Max 0.1%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

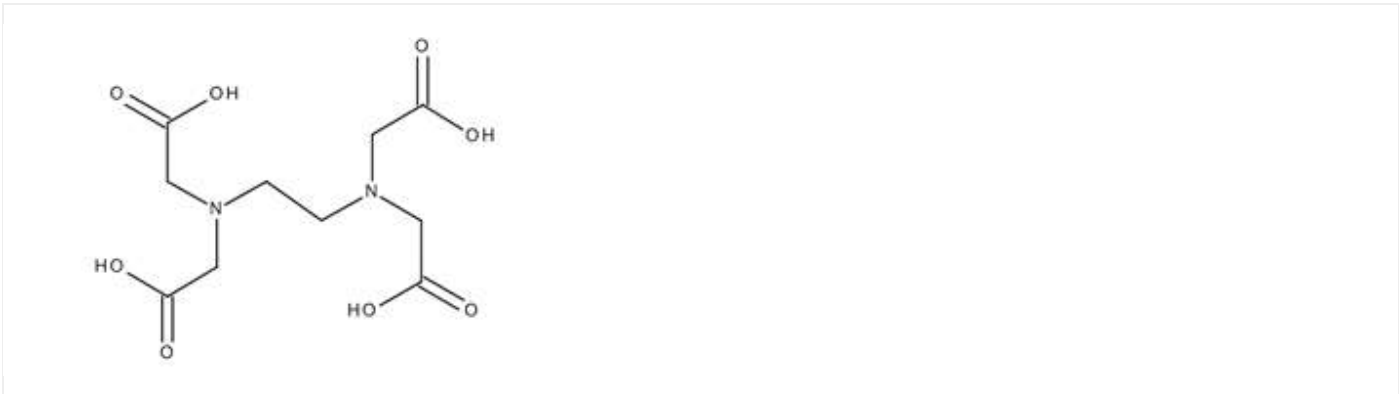
Hazardous Statement: H319

Precaution Statement: P305 + P351 + P338

ETHYLENEDIAMINE TETRA ACETIC ACID 99.5% AR

EDTA

Product Code.	01163	Grade	
Purity	99.4%	CAS No.	60-00-4
Molecular Formula	C10H16N2O8	Molecular Weight	292.25
H.S.Code	2921.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
pH value	2.5 at 10 g/l at 23 °C	Melting point/ Freezing point [°C]	250 °C	Decomposition point [°C]	240 °C
Density [g/cm3]	0.860 g/cm3 at 20 °C	Solubility in water [% weight]	Slightly soluble in water	Partition coefficient Log Pow octanol / water at 20°C	-3.34

Packaging

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Specification

Appearance	White crystalline powder
Assay (complexometric)	99.4- 100.6%
Ammonia insoluble components	Max 0.005%
Iron (Fe)	Max 0.001%
Nitrilotriacetic acid (HPLC)	Max 0.1%
Water (H2O)	Max 0.2%

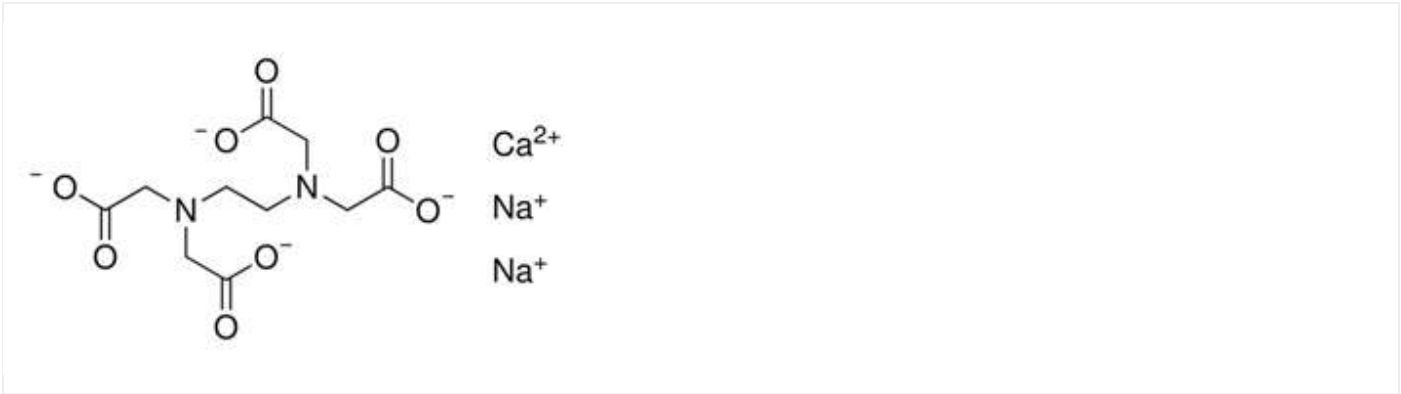
Residue on ignition	Max 0.1%
Chloride (Cl)	Max 0.01%
Heavy metal (as Pb)	Max 0.001%
Calcium (Ca)	Max 0.001%
Magnesium (Mg)	Max 0.0005%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H319 Precaution Statement: P305 + P351 + P338

ETHYLENEDIAMINE TETRA ACETIC ACID CALCIUM DISODIUM SALT
HYDRATE 98% EXTRAPURE
EDTA calcium disodium salt

Product Code.	01164	Grade	Extrapure
Purity	98%	CAS No.	62-33-9
Molecular Formula	C10H12CaN2Na2O8.xH2O	Molecular Weight	374.28
H.S.Code	2921.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Off white	Odour	Odorless
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Packaging

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Specification

Appearance	Off white crystalline powder
Assay (complexometric)	98 - 102%
pH (20% solution)	6.5 - 8.0
Appearance of solution	Passes test
Insoluble matter in water	Passes test
EDTA disodium salt	Max 1%
Magnesium-quelating substances	Passes test
Nitrilotriacetic acid	Max 0.1%

Chloride (Cl)	Max 0.1%
Water (H2O)	5 - 13%
Heavy metal (as Pb)	Max 0.002%
Copper (Cu)	Max 0.002%
Iron (Fe)	Max 0.008%
Nickel (Ni)	Max 0.002%
Lead (Pb)	Max 0.002%

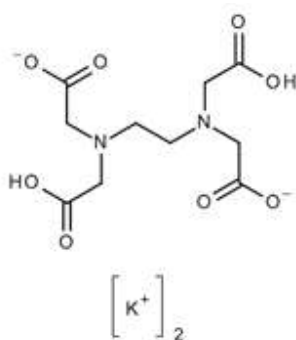
Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

ETHYLENEDIAMINE TETRA ACETIC ACID DIPOTASSIUM SALT 98% EXTRAPURE

Ethylenedinitrilo)tetraacetic acid dipotassium salt, Dipotassium ethylenediaminetetraacetate dihydrate, EDTA dipotassium salt, Edthamil, Potassium ethylenediaminetetraacetate dibasic

Product Code.	01165	Grade	Extrapure
Purity	98%	CAS No.	25102-12-9
Molecular Formula	C10H14K2N2O8.2H2O	Molecular Weight	404.46
H.S.Code	2921.21000	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	White powder	Odour	Odorless
pH value	4 - 5 at 40.4 g/l at 25 °C	Melting point/ Freezing point [°C]	255 - 280 °C	Solubility in water [% weight]	40.4 g/l at 20 °C

Packaging

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Specification

Appearance	White powder or crystalline Powder
Assay	Min 98.0%
Loss on drying (at 150°C; 6 hrs)	8.5 - 9.5%
pH (5 % solution)	4 - 5.5
Insoluble matter in water	Max 0.02%
Chloride (Cl)	Max 0.05%

Nitrilotriacetate [N(CH ₂ COO) ₃]	Max 0.1%
Copper (Cu)	Max 0.001%
Heavy metal (as Pb)	Max 0.001%
Iron (Fe)	Max 0.001%

Safety Information and Hazard Symbols


Symbol: GHS07 Signal Word: Warning Hazardous Statement: H315-H319-H335 Precaution Statement: P261-P305 + P351 + P338

По вопросам продаж и поддержки обращайтесь:

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Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
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Оренбург (3532)37-68-04
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Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
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Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
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Ярославль (4852)69-52-93

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