

Соли церия

Технические характеристики

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AMMONIUM CERIC NITRATE 98% EXTRAPURE

Ceric ammonium nitrate ; Ammonium Cerium (IV) Nitrate

Product Code.	00193	Grade	Extrapure
Purity	98%	CAS No.	16774-21-3
Molecular Formula	(NH ₄) ₂ Ce(NO ₃) ₆	Molecular Weight	548.23
H.S.Code	2846.10900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Reddish orange	Odour	Slight characteristic odor
Solubility in water [% weight]	141g/100ml water @ 250C	Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2		

Packaging



Specification

Appearance	A reddish –orange crystalline powder
Assay (on anhydrous basis)	Min 98%

Chloride (Cl)	Max 0.05%
Iron (Fe)	Max 0.01%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS07 Signal Word: Danger UN No.: 1477 IMCO Class No.: 5.1 Packing Group: II Hazardous Statement: H272-H302-H315-H319-H335 Precaution Statement: P220-P261-P305 + P351 + P338

AMMONIUM CERIC NITRATE 99% AR

Ceric ammonium nitrate ; Ammonium Cerium (IV) Nitrate

Product Code.	00194	Grade	AR
Purity	99%	CAS No.	16774-21-3
Molecular Formula	(NH ₄) ₂ Ce(NO ₃) ₆	Molecular Weight	548.23
H.S.Code	2846.10900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Reddish orange	Odour	Slight characteristic odor
Solubility in water [% weight]	141g/100ml water @ 250C	Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2		

Packaging



Specification

Appearance	A reddish –orange crystalline powder
Assay (oxidimetric; as(NH ₄) ₂ Ce(NO ₃) ₆)	Min 99.0%

Substance insoluble in dilute H2SO4	Max 0.05%
Chloride (Cl)	Max 0.01%
Phosphate (PO4)	Max 0.02%
Heavy metal (as Pb)	Max 0.002%
Iron (Fe)	Max 0.005%
Sodium (Na)	Max 0.005%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS07 Signal Word: Danger UN No.: 1477 IMCO Class No.: 5.1 Packing Group: II Hazardous Statement: H272-H302-H315-H319-H335 Precaution Statement: P220-P261-P305 + P351 + P338

AMMONIUM CERIC SULPHATE DIHYDRATE 98% EXTRAPURE

Ceric ammonium sulphate, Cerium (IV) ammonium sulphate

Product Code.	00196	Grade	Extrapure
Purity	98%	CAS No.	10378-47-9
Molecular Formula	(NH4)4Ce(SO4)4.2H2O	Molecular Weight	632.55
H.S.Code	2846.10900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellowish orange	Odour	Odorless
Melting point/ Freezing point [°C]	130 °C	Solubility in water [% weight]	Slightly soluble in water		

Specification

Appearance	Yellowish orange crystalline powder
Assay	Min 98%
Chloride (Cl)	Max 0.001%
Iron (Fe)	Max 0.005%

Safety Information and Hazard Symbols


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

AMMONIUM CERIC SULPHATE DIHYDRATE 99% AR

Ceric ammonium sulphate, Cerium(IV) ammonium sulphate

Product Code.	00197	Grade	AR
Purity	99%	CAS No.	10378-47-9
Molecular Formula	(NH4)4Ce(SO4)4.2H2O	Molecular Weight	632.55
H.S.Code	2846.10900	Shelf Life	60 Months



Physical Properties

Physical state at 20 °C	Solid	Colour	Yellowish orange	Odour	Odorless
Melting point/ Freezing point [°C]	130 °C	Solubility in water [% weight]	Slightly soluble in water		

Packaging



Specification

Appearance	Yellowish orange crystalline powder
Assay	Min 99.0%
Chloride (Cl)	Max 0.001%
Phosphate (PO4)	Max 0.02%

Iron (Fe)	Max 0.005%
Insoluble matter	Max 0.01%

Safety Information and Hazard Symbols


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

CERIC OXIDE 99.95% AR
Cerium(IV) oxide; ceria;

Product Code.	00718	Grade	
Purity	99.95%	CAS No.	1306-38-3
Molecular Formula	CeO2	Molecular Weight	172.13
H.S.Code	2846.10900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless to light yellow	Odour	Odorless
Melting point/ Freezing point [°C]	2600°C	Density [g/cm3]	7.132	Solubility in water [% weight]	Insoluble in water

Packaging

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Specification

Appearance	Yellow/Pinkish to tan powder
Assay	Min 99.95%
Other rare earths (as oxide)	Max 0.05%

Safety Information and Hazard Symbols

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CERIC SULPHATE 85% AR

Product Code.	00719	Grade	AR
Purity	85%	CAS No.	13590-82-4
Molecular Formula		Molecular Weight	0.00
H.S.Code	0.00000	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	350°C	Density [g/cm3]	3.01	Solubility in water [% weight]	Partially soluble in water

Packaging



Specification

Appearance	Yellow crystalline powder
Assay	85.0 – 115.0%
Iron (Fe)	Max 0.1%

Safety Information and Hazard Symbols



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

CERIC SULPHATE AR (TETRAHYDRATE)

Cerium(IV) sulphate; Cerium disulfate

Product Code.	00719A	Grade	
Purity	99%	CAS No.	13590-82-4
Molecular Formula	Ce(SO4)2.4H2O	Molecular Weight	404.30
H.S.Code	2846.10900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Yellow crystalline	Odour	Odorless
Melting point/ Freezing point [°C]	350°C	Density [g/cm3]	3.01	Solubility in water [% weight]	Partially soluble in water

Packaging

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Specification

Appearance	Yellow to orange powder/ crystalline powder
Assay	Min 99%
Iron (Fe)	Max 0.1%

Safety Information and Hazard Symbols


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

CERIUM (III) NITRATE HEXAHYDRATE 99.9% AR

Cerium(III) nitrate hexahydrate

Product Code.	00722	Grade	AR
Purity	99.9%	CAS No.	10294-41-4
Molecular Formula	Ce(NO3)3.6H2O	Molecular Weight	434.23
H.S.Code	2846.10900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	Colorless to pale yellow	Melting point/ Freezing point [°C]	65 °C
Decomposition point [°C]	>200°C	Vapour density	15	Density [g/cm3]	1.67
Solubility in water [% weight]	1754 g/L (25°C)	Oxidising properties	The substance or mixture is classified as oxidizing with the subcategory 2		

Packaging

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Specification

Appearance	Colorless or pale yellow moist crystals
Assay (complexometric)	Min 99.9%

Safety Information and Hazard Symbols


Symbol: GHS03, GHS05 Signal Word: Danger UN No.: 1477 IMCO Class No.: 5.1 Packing Group: II Hazardous Statement: H272-H318 Precaution Statement: P220-P280-P305 + P351 + P338

CEROUS CHLORIDE HEPTAHYDRATE EXTRAPURE 98.5%

Cerium(III) chloride heptahydrate

Product Code.	00721	Grade	
Purity	98.5%	CAS No.	18618-55-8
Molecular Formula	CeCl3.7H2O	Molecular Weight	372.60
H.S.Code	2846.10900	Shelf Life	60 Months

Physical Properties

Physical state at 20 °C	Solid	Colour	White crystalline	Odour	Odorless
Odour threshold	Stinging odor	Melting point/ Freezing point [°C]	848°C	Auto-ignition temperature [°C]	400°C
Density [g/cm3]	3.94	Solubility in water [% weight]	1000 g/L (20°C)		

Packaging

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Specification

Appearance	A white crystalline powder
Assay	Min 98.5%
Sulphate (SO4)	Max 0.01%
Calcium (Ca)	Max 0.005%
Cadmium (Cd)	Max 0.005%
Cobalt (Co)	Max 0.005%
Copper (Cu)	Max 0.005%
Iron (Fe)	Max 0.005%
Potassium (K)	Max 0.01%
Sodium (Na)	Max 0.01%
Nickel (Ni)	Max 0.005%
Lead (Pb)	Max 0.005%
Zinc (Zn)	Max 0.005%

Safety Information and Hazard Symbols



Symbol: GHS07

Signal Word: Warning

Hazardous Statement: H315-H319-H335

Precaution Statement: P261-P305 + P351 + P338

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