

AMMONIUM CERIC NITRATE AR/ACS

PRODUCT CODE	RE0110
SYNONYMS	Ceric ammonium nitrate di-Ammonium hexanitratocerate (IV)
C.I. NO.	--
CASR NO.	16774-21-3
ATOMIC OR MOLECULAR FORMULA	$(\text{NH}_4)_2[\text{Ce}(\text{NO}_3)_6]$
ATOMIC OR MOLECULAR WEIGHT	548.23
PROPERTIES	Soluble in water and alcohol, almost insoluble in concentrated nitric acid, soluble in other concentrated acids.



PARAMETER LIMIT

Description	An orange yellow crystalline powder.
Solubility	Soluble in water.
Minimum assay (Oxidimetric; ex Ce, on dried basis)	99.0%

MAXIMUM LIMIT OF IMPURITIES

Loss on drying (at 105°C)	3.0%
Water insoluble matter	0.01%
Chloride (Cl)	0.005%
Phosphate (PO ₄)	0.005%
Sulphate (SO ₄)	0.025%
Copper (Cu)	0.001%
Iron (Fe)	0.02%
Lead (Pb)	0.001%

Note(s) : Assay (if applicable) method mentioned.

DANGER

Hazard statements : May intensify fire; oxidizer. May be corrosive to metals. Harmful if swallowed. Cause severe skin burns and eye damage. May causes an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : Take any precaution to avoid mixing with combustible or incompatible materials. Wash hands thoroughly after handling. Keep away from heat.

Response: If skin irritation occurs, seek medical advice/attention. Wear eye/ face protection. If eye irritation persists, get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal: Dissolve the chemical to be disposed, in water and allow it to run to waste, diluting with large quantities of water. The quantities greater than 10g should be dissolved in water and transferred to heavy metal waste drums for collection by specialist disposal company.

Hazard Pictogram(s) :



GHS03



GHS07



GHS05



GHS09

IMDG Code : 5.1/II
UN No. : 3085
IATA : 5.1

Replace Date 19-Sep-2025