

## AMMONIUM CERIC NITRATE

PRODUCT CODE	RE0100
SYNONYMS	[Ammonium Cerium (IV) Nitrate]
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)	98.0%

### MAXIMUM LIMIT OF IMPURITIES

Loss on drying(at 150°C)	5.0%
Chloride (Cl)	0.05%
Sulphate (SO <sub>4</sub> )	0.05%
Iron (Fe)	0.1%

**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.

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

**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

Replace Date 30-Sep-2025