

Technical Data Sheet

 **NAEWAI CORPORATION**

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Cerium ammonium nitrate

Product Identification

Product name : Cerium ammonium nitrate
Chemical Formula : $(\text{NH}_4)_2\text{Ce}(\text{NO}_3)_6$
CAS No. : 16774-21-3

Physical and Chemical Properties

Property	Value / Description
Purity	99% min
Physical State	Crystalline solid
Color	Orange-red
Specific gravity	2.5 g/cm ³ (25 °C)
Melting Point	Begins to decompose at approximately 70 °C
Solubility in Water	Highly soluble
Stability	Deliquescent in air; stable under dry conditions
Reactivity	Strong oxidizing agent; reacts violently with reducing agents, organic compounds, combustibles

Applications

Oxidizing agent in organic synthesis for oxidation, nitration, carbon-carbon bond formation, deprotection of ethers, component in chrome etchants for microelectronics, preparation of cerium compounds, catalysts in petroleum refining and environmental protection, polishing powders, specialty glass manufacturing

Packing

50kg net in sealed containers

Shipping Regulations

UN No.3085

Safety Information

May intensify fire; oxidizer. Harmful if swallowed.
Causes severe skin burns and eye damage. May cause respiratory irritation.