

AMMONIUM THIOCYANATE



CAS Number: 1762-95-4

Other Names: Ammonium thiocyanate, Ammonium isothiocyanate,
Ammonium rhodanide, Ammonium sulfocyanide, thiocyanic acid

Formula: NH_4SCN or $\text{CH}_4\text{N}_2\text{S}$

PRODUCT INTRODUCTION

Ammonium thiocyanate is a toxic, colorless, crystalline solid inorganic compound with the molecular formula NH_4SCN or $\text{CH}_4\text{N}_2\text{S}$. It is the salt of the ammonium cation and the thiocyanate anion. It is hygroscopic in nature.

PHYSICAL AND CHEMICAL PROPERTIES

Purity	99.0% min
Appearance	White Crystalline
PH value in water (50g/l)	4.5-6
Sulfate (SO_4)	0.02% max
Chloride (Cl)	0.02% max
Insoluble substance in water	0.02% max
Ignition Residue	0.01% max
Heavy Metal (Pb)	0.002% max
Iron (Fe)	0.003% max
Moisture	1.0% max

APPLICATIONS

- Ammonium thiocyanate is used in the textile industry, for various printing, dyeing and finishing operations.
- In the photographic industry as an acceleration in fixing baths.
- In agrochemical industry, to stabilize various herbicides.
- In the steel industry, for coating and as a corrosion inhibitor against acidic gases.
- In the metal industry, as an additive for silver and tin plating baths and for the etching of aluminum.
- In the nuclear power industry, as an extraction agent in the separation of hafnium and zirconium.

PACKAGING OPTIONS

Bags

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