



# Product Specification

## Ammonium Thiocyanate

Chemical Name:	Ammonium thiocyanate
Molecular Formula:	NH <sub>4</sub> SCN
Molecular Mass:	76,1 g/mol
CAS-No.:	1762-95-4
EC-No.:	615-004-00-3

### Properties

Bulk density:	approx. 650 kg/m <sup>3</sup>
Solubility in water (20°C):	approx. 1600 g/l
Melting point:	approx. 150 °C

### Specification

Appearance:	white crystals
Content (on dried basis):	min. 99,0 %
Moisture:	max. 1,0 %
Iron:	max. 2 mg/kg
Iodine value:	max. 10 mg I <sub>2</sub> /100 g
pH (5% aqueous solution):	4,0 – 6,0
Sulphides:	max. 5 mg/kg

### Typical Characteristics

Chloride:	< 50 mg/kg
Sulphate:	< 200 mg/kg
Nitrate:	< 50 mg/kg
Heavy metals:	< 5 mg/kg
Content (on dried basis):	> 99,8 %

Analytical methods are available on request.

### Major Applications

- In the water treatment industry as corrosion inhibitor.
- In the textile industry as adjuvant.
- In agriculture as herbicide or as an intermediate in the manufacture of herbicides.
- In the photographic industry as stabilizer and sensitizer.
- In metal plating as a brightener for copper baths.
- In metallurgy for the extraction of zirconium, hafnium, thorium and other rare earths.

### Storage

Store in a cool and dry place. The product is very hygroscopic. Avoid contact with acids. Upon contact with materials containing iron a red colour is obtained. It is advised to re-test the material after three years of storage.

### Packing and Transport

Ammonium thiocyanate is delivered in:	25 kg net in paper bags (SAP-No. 5404288)
Hazard Identification No.:	none
UN-No.:	none

### Safety advice

For transport, handling and first aid instructions we refer to our Material Safety Data Sheet (MSDS).

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