

## Product Specification

### Ammonium Thiocyanate crystalline

Chemical Name:	Ammonium thiocyanate
Molecular Formula:	NH <sub>4</sub> SCN
Molecular Mass:	76,1 g/mol
CAS-No.:	1762-95-4
EC-No.:	217-175-6

#### 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. 2,0 %
Iron:	max. 2 mg/kg
pH (5% aqueous solution):	4,0 – 6,0
Sulphides:	max. 5 mg/kg

#### Typical Characteristics

Chloride:	< 100 mg/kg
Sulphate:	< 200 mg/kg
Heavy metals:	< 10 mg/kg

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 pesticides.
- 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 & Handling

Store in a cool and dry place and avoid any contact to a strong acid or a strong alkaline. Use resistant equipment like polymer materials and high grade alloys. Iron corrosion can result in red coloration of product when exposed to UV-light. Although the product is stable when stored under ambient conditions without exposure to other chemicals, it is advised to re-analyze before use after 3 years of storage. High purity ammonium thiocyanate is hygroscopic and the low levels of moisture present in the product will result in an agglomeration of the crystals to form a solid. Ammonium thiocyanate has good solubility, e.g. in water and solid product can be easily dissolved without prior crushing or grinding. A simple procedure for dissolving ammonium thiocyanate in water is available on request.

#### Packing and Transport

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

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