

Product Specification

Ammonium Thiocyanate Tech. Grade 50%

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

Properties

Miscibility with water:	any desired ratio
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Specification

Appearance:	liquid
Content:	49,0 – 51,0 %
Iron:	max. 10 mg/kg
pH (as is):	3,5 – 6,5
Color (APHA):	max. 80
Density (20/4°C):	1,111 – 1,121 g/ml

Typical Characteristics

Heavy metals:	< 10 mg/kg
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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

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.

Packing and Transport

Ammonium thiocyanate 50% is delivered in:	Rail tank cars Road tankers 1000 l Containers
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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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