

Product Specification

Ammonium Thiocyanate 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

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

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

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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