Product Specification

Ammonium Thiocyanate 50%

Chemical Name:	Ammonium thiocyanate
Molecular Formula:	NH_4SCN
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 an 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).

Carbosulf Chem. Werke GmbH
Geestemünder Str. 26
50735 Cologne
Germany

T +49-221-7496-101
F +49-221-7496-190
https://sulfurderivatives.nouryon.com/

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