

Product Specification

Sodium Thiocyanate crystalline

Chemical Name:	Sodium thiocyanate
Molecular Formula:	NaSCN
Molecular Mass:	81,1 g/mol
CAS-No.:	540-72-7
EC-No.:	208-754-4

Properties

Bulk density:	approx. 750 kg/m ³
Solubility in water (20°C):	approx. 1250 g/l
Melting point:	approx. 310 °C

Specification

Appearance:	white crystals
Content (on dried basis):	min. 99,0 %
Moisture:	max. 3,0 %
Iron:	max. 3 mg/kg
pH (5% aqueous solution):	5,0 – 9,0
Ammonia (as NH ₃):	max. 200 mg/kg

Typical Characteristics

Chloride:	< 200 mg/kg
Sulphate:	< 300 mg/kg
Heavy metals:	< 10 mg/kg

Analytical methods are available on request.

Major Applications

- In the fiber industry in spinning baths for acrylic fibers.
- In the water treatment industry as corrosion inhibitor.
- In agriculture as an intermediate in the manufacture of pesticides.
- In the photographic industry as sensitizer and stabilizer.
- In concrete industry as a hardening accelerator.

Storage & Handling

Store in a cool and dry place and avoid any contact to a strong acid. 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 sodium 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. Sodium 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 sodium thiocyanate in water is available on request.

Packing and Transport

Sodium thiocyanate is delivered in:	25 kg net in paper bags
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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