

## 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 <sup>3</sup>
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 <sub>3</sub> ):	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 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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