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/m³
-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 NH₃): 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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