Product Specification

Potassium Thiocyanate

Chemical Name:	Potassium thiocyanate
Molecular Formula:	KSCN
Molecular Mass:	97,2 g/mol
CAS-No.:	333-20-0
EC-No.:	206-370-1

Properties	
Bulk density:	approx. 750 kg/m^3
Solubility in water (20°C):	approx. 2300 g/l
Melting point:	approx. 172 °C

Specification	
Appearance:	white crystals
Content (on dried basis):	min. 98,0 %
Moisture:	max. 2,5 %
Iron:	max. 3 mg/kg
pH (5% aqueous solution):	5,5 – 7,5

Typical Characteristics	
Chloride:	< 500 mg/kg
Sulphate:	< 500 mg/kg
Heavy metals:	< 20 mg/kg

Analytical methods are available on request.

Major Applications

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 metallurgy for the extraction of zirconium, hafnium, thorium and other rare earths.
In analytical chemistry as reagent.

Storage

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. Thiocyanates are hygroscopic and will attract humidity from air. This might result in higher moisture content in the product after some time.

Packing and Transport

Potassium 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).

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

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

Issue June 2018/T. Morris