

**Potassium thiocyanate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph  
Eur****Identification**

KSCN  
M = 97,18 g/mol  
CAS [333-20-0]  
EC number: 206-370-1  
Taric code: 2842 90 80

**Synonyms**

Potassium sulfocyanate, Potassium rhodanide, Potassium sulfocyanide

**Applications**

in the textile industry, photography, analytical chemistry.

**Specifications**

|                                  |              |                                  |              |
|----------------------------------|--------------|----------------------------------|--------------|
| assay (argentometric).....       | min. 99,0 %  | sulfides (S).....                | max. 0,001 % |
| identity (IR-spectrum).....      | passes test  | ammonium (NH <sub>4</sub> )..... | max. 0,002 % |
| insoluble in water.....          | max. 0,003 % | copper (Cu).....                 | max. 2 ppm   |
| pH (5 %, H <sub>2</sub> O).....  | 5,3 - 8,5    | heavy metals (as Pb).....        | max. 5 ppm   |
| chlorides (Cl).....              | max. 0,005 % | iron (Fe).....                   | max. 1 ppm   |
| sulfates (SO <sub>4</sub> )..... | max. 0,002 % | lead (Pb).....                   | max. 2 ppm   |
| matter consuming I (as I).....   | passes test  | sodium (Na).....                 | max. 0,005 % |

**Physical data**

- Appearance: humid crystals, colourless or white
- Spec. Density: 1,89 g/cm<sup>3</sup>
- Bulk density: ~ 750 - 1000 kg/m<sup>3</sup>
- Solub. in water: (20 °C): soluble
- Melting point: 175 °C
- Boiling point: 500 °C (decomposes)
- pH(50 g/l H<sub>2</sub>O, 20 °C) ~ 5 - 7
- Hygroscopic

**Safety - GHS**

Signal Word: Danger

**Hazard Statements:**

- H302: Harmful if swallowed.  
H312: Harmful in contact with skin.  
H318: Causes serious eye damage.  
H332: Harmful if inhaled.  
H412: Harmful to aquatic life with long lasting effects.  
EUH032: Contact with acids liberates very toxic gas.

**Precautionary Statements:**

- P261: Avoid breathing dust / fume / gas / mist / vapours / spray.  
P280: Wear protective gloves / protective clothing / eye protection / face protection.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor / physician.  
P321: Specific treatment (see on this label).  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- 10°C - 30°C