

**Sodium thiosulfate pentahydrate**, reagent grade, ACS, ISO, Reag. Ph  
Eur**Identification**

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>·5H<sub>2</sub>O  
M = 248,18 g/mol  
CAS [10102-17-7]  
EC number: 231-867-5  
Taric code: 2832 30 00

**Synonyms**

Antichlor





**Applications**

analytical chemistry, titrant in volumetric analysis (iodometric analyses), photography, laboratory reagent, for determination of: cobalt, hydrocyanic acid, quinine.

**Specifications**

assay (iodometric).....	99,5 - 101 %	total nitrogen (as N).....	max. 0,002 %
identity.....	passes test	calcium (Ca).....	max. 0,002 %
appearance of solution.....	passes test	copper (Cu).....	max. 0,0005 %
insoluble in water.....	max. 0,005 %	heavy metals (as Pb).....	max. 0,001 %
pH (5 %, H <sub>2</sub> O).....	6,0 - 7,5	iron (Fe).....	max. 0,0005 %
chlorides (Cl).....	max. 0,008 %	lead (Pb).....	max. 0,0005 %
sulfates and sulfites (as SO <sub>4</sub> ).....	max. 0,1 %	magnesium (Mg).....	max. 0,001 %
sulfides (S).....	passes test	potassium (K).....	max. 0,001 %

**Packaging****Packaging Code**

500 g  SO07270500  
1 kg  SO07271000  
5 kg  SO0727005P  
25 kg  SO0727025P

**Physical data**

- Appearance: elongate crystals, colourless or white
- Spec. Density: 1,73 g/cm<sup>3</sup>
- Bulk density: ~ 1000 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 680 g/l
- Melting point: 48,5 °C
- pH(100 g/l H<sub>2</sub>O, 20 °C) 6,0 - 8,4

**Toxicological data**

- LD 50 (oral, rat): > 8000 mg/kg
- WGK: 1
- Poison class CH (Swiss): 4