

**Sodium thiosulfate pentahydrate, for analysis, ExpertQ®, ACS, ISO,
Reag. Ph Eur****Identification**

$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
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 ₂ 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 ₄).....	max. 0,1 %	magnesium (Mg).....	max. 0,001 %
sulfides (S).....	passes test	potassium (K).....	max. 0,001 %

Physical data

- Appearance: elongate crystals, colourless or white
- Spec. Density: 1,73 g/cm³
- Bulk density: ~ 1000 kg/m³
- Solub. in water: (20 °C): 680 g/l
- Melting point: 48,5 °C
- pH(100 g/l H₂O, 20 °C) 6,0 - 8,4

Transport/storage

- 10°C - 30°C