

SODIUM THIOSULFATE PENTAHYDRATE

- Synonyms: Antichlor
- $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
- $M = 248,18 \text{ g/mol}$
- CAS [10102-17-7]
- EINECS-No.: 231-867-5

- Solub. in water: (20 °C): 680 g/l
- Melting point: 48,5 °C
- LD 50 (oral, rat): > 8000 mg/kg
- Tariff number: 2832 30 00 00

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

SO0725 Sodium thiosulfate pentahydrate, extra pure, Pharmapur®, Ph Eur, BP, USP

assay (iodometric, referred to dried sample) 99,0 - 100,5 %
 assay (iodometric) 99,0 - 101,0 %
 identification passes test
 appearance of solution clear and colourless
 pH (10 %, H_2O) 6,0 - 8,4
 sulfates and sulfites (as SO_3) max. 0,2 %

sulfides (S) passes test
 calcium (Ca) passes test
 water content 32,0 - 37,0 %
 Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

ART. NO.	VOLUME	CONTAINER
SO07250500	500 g	P
SO07251000	1 kg	P
SO0725005P	5 kg	P
SO0725025P	25 kg	P

SO0727 Sodium thiosulfate pentahydrate, ExpertQ®, for analysis, ACS, ISO, Reag. Ph Eur

assay (iodometric) 99,5 - 101,0 %
 identity (IR-spectrum) passes test
 appearance of solution clear and colourless
 insoluble in water max. 0,005 %
 pH (10 %, H_2O) 6,0 - 8,4
 pH (5 %, H_2O) 6,0 - 7,5
 chlorides (Cl) max. 0,008 %
 sulfates and sulfites (as SO_3) max. 0,1 %
 sulfides (S) max. 2,5 ppm

sulfides (S) passes test
 nitrogen compounds (as N) max. 0,002 %
 calcium (Ca) max. 0,002 %
 copper (Cu) max. 5 ppm
 iron (Fe) max. 5 ppm
 lead (Pb) max. 5 ppm
 magnesium (Mg) max. 0,001 %
 potassium (K) max. 0,001 %

ART. NO.	VOLUME	CONTAINER
SO07270500	500 g	P
SO07271000	1 kg	P
SO0727005P	5 kg	P
SO0727025P	25 kg	P

SODIUM THIOSULFATE, VOLUMETRIC SOLUTIONS

SO0730 Sodium thiosulfate, solution 1 mol/l (1 N)

- $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
- $M = 248,18 \text{ g/mol}$
- CAS [10102-17-7]
- EINECS-No.: 231-867-5
- Density: 1,12 g/cm³
- Tariff number: 2832 30 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, reducing agent.

factor 0,999 - 1,001
 uncertainty $\pm 0,001$
 1 ml = 0,2482 g $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
 This volumetric solution was checked by means of potentiometric methods using Scharlau's potassium iodate volumetric standard. Scharlau's volumetric standards are directly traceable to the Standard Reference Materials from NIST (National Institute of Standards and Technology, USA).

ART. NO.	VOLUME	CONTAINER
SO07301000	1 l	P
SO0730005P	5 l	P

SO0729 Sodium thiosulfate, solution 0,5 mol/l (0,5 N)

- $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
- $M = 248,18 \text{ g/mol}$
- CAS [10102-17-7]
- EINECS-No.: 231-867-5
- Density: 1,06 g/cm³
- Tariff number: 2832 30 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, reducing agent.

factor 0,999 - 1,001
 uncertainty $\pm 0,001$
 1 ml = 0,1241 g $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
 This volumetric solution was checked by means of potentiometric methods using Scharlau's potassium iodate volumetric standard. Scharlau's volumetric standards are directly traceable to the Standard Reference Materials from NIST (National Institute of Standards and Technology, USA).

ART. NO.	VOLUME	CONTAINER
SO07291000	1 l	P

SO0732 Sodium thiosulfate, solution 0,282 mol/l (0,282 N)

- $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
- $M = 248,18 \text{ g/mol}$
- CAS [10102-17-7]
- EINECS-No.: 231-867-5
- Density: 1,03 g/cm³
- Tariff number: 2832 30 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, reducing agent.

factor 0,999 - 1,001
 uncertainty $\pm 0,001$
 1 ml = 0,06999 g $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
 This volumetric solution was checked by means of potentiometric methods using Scharlau's potassium iodate volumetric standard. Scharlau's volumetric standards are directly traceable to the Standard Reference Materials from NIST (National Institute of Standards and Technology, USA).

ART. NO.	VOLUME	CONTAINER
SO07321000	1 l	P