

Identification

Na₂S₂O₅
M = 190,10 g/mol
CAS [7681-57-4]
EC number: 231-673-0
Taric code: 2832 10 00

Synonyms

Sodium metabisulfite, Sodium pyrosulfite

Applications

analytical chemistry, laboratory reagent, bleaching agent, reducing agent (manufacture of dyes), antioxidant (in the pharmaceuticals industry), in food industry (E 223), preservative agent, in pharma industry.

Specifications

assay (iodometric).....	95,0 - 100,5 %	iron (Fe).....	max. 20 ppm
assay (iodometric, as SO ₂).....	65,0 - 67,4 %		
identification.....	passes test	Elemental impurities are analysed	
identification (sodium).....	passes test	according to guideline	
reaction of sulphates.....	passes test	CHMP/ICH/353369/2013.	
appearance of solution.....	clear and colourless		
pH (5 %, H ₂ O).....	3,5 - 5,0	Residual solvents are analysed	
chlorides (Cl).....	max. 0,05 %	according to guideline	
thiosulfates (S ₂ O ₃).....	max. 0,05 %	CPMP/ICH/283/95.	
thiosulfates (S ₂ O ₃).....	passes test		
arsenic (As).....	max. 5 ppm		

Physical data

- Appearance: crystals or powder, white
- Spec. Density: 1,48 g/cm³
- Bulk density: ~ 1100 - 1200 kg/m³
- Solub. in water: (20 °C): ~ 650 g/l
- Melting point: ~ 150 °C (decomposes)
- pH(50 g/l H₂O, 20 °C) 3,5 - 5,0

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H318: Causes serious eye damage.
H302: Harmful if swallowed.
EUH031: Contact with acids liberates toxic gas.

**Precautionary Statements:**

- P280: Wear protective gloves / protective clothing / eye protection / face protection.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330: Rinse mouth.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 1540 mg/kg
- WGK: 1
- Poison class CH (Swiss): 3