

Identification

Na₂SO₄·10H₂O
M = 322,19 g/mol
CAS [7727-73-3]
EC number: 231-820-9
Taric code: 2833 11 00

Synonyms

Glauber's salt

Applications

analytical chemistry, laboratory reagent, in food industry (E 514), manufacture of dyes, in pharma industry.

Specifications

assay (titrimetric, on dried sample).....	98,5 - 101,0 %	chlorides (Cl).....	max. 200 ppm
assay (gravimetric, on dried sample).....	min. 99 %	calcium (Ca).....	max. 200 ppm
Identification sodium.....	passes test	iron (Fe).....	max. 40 ppm
Identification sulfates.....	passes test	magnesium (Mg).....	max. 100 ppm
appearance of solution.....	clear and colourless	loss on drying (130 °C).....	52,0 - 57,0 %
acidity or alkalinity.....	passes test	loss on drying (105 °C, 4h)	51,0 - 57,0 %

Physical data

- Spec. Density: 1,46 g/cm³
- Bulk density: ~ 700 kg/m³
- Solub. in water: (20 °C): ~ 900 g/l
- Melting point: 32,4 °C
- Boiling point: > 890 °C (anhydrous substance, decomposes)
- pH(50 g/l H₂O, 20 °C) 5,5 - 7,5

Transport/storage

- 10°C - 30°C