

Identification

K_2SO_4
M = 174,27 g/mol
CAS [7778-80-5]
EC number: 231-915-5
Taric code: 3104 30 00

Synonyms

Sulfuric acid potassium salt

Applications

analytical chemistry, laboratory reagent, for determination of: nitrogen (Kjeldahl), in fertilizer compositions, manufacture of glass, in pharma industry.

Specifications

assay (acidimetric, referred to dried sample).....	98,5 - 101,0 %	chlorides (Cl).....	max. 40 ppm
Identification potassium.....	passes test	calcium (Ca).....	max. 200 ppm
Identification sulfates.....	passes test	iron (Fe).....	max. 10 ppm
appearance of solution.....	clear and colourless	magnesium (Mg).....	max. 20 ppm
acidity or alkalinity.....	passes test	sodium (Na).....	max. 0,10 %
		loss on drying (130 °C).....	max. 1,0 %

Physical data

- Appearance: crystals, white
- Spec. Density: 2,66 g/cm³
- Bulk density: ~ 1050 kg/m³
- Solub. in water: (20 °C): 110 g/l
- Melting point: 1069 °C
- Boiling point: 1689 °C
- pH(50 g/l H₂O, 20 °C) 5,5 - 7,5
- Hygroscopic

Transport/storage

- 10°C - 30°C