

Identification

K₂SO₄
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.

Specifications

assay (acidimetric).....	min. 99,0 %	arsenic (As).....	max. 2 ppm
identity (IR-spectrum).....	passes test	calcium (Ca).....	max. 0,005 %
insoluble in water.....	max. 0,01 %	heavy metals (as Pb).....	max. 5 ppm
pH (5 %, H ₂ O).....	5,5 - 8,0	iron (Fe).....	max. 5 ppm
chlorides (Cl).....	max. 5 ppm	magnesium (Mg).....	max. 0,002 %
total nitrogen (as N).....	max. 5 ppm	sodium (Na).....	max. 0,02 %

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