

**Potassium sulfate, Pharnpur®, Ph Eur, BP****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/cm<sup>3</sup>
- Bulk density: ~ 1050 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 110 g/l
- Melting point: 1069 °C
- Boiling point: 1689 °C
- pH(50 g/l H<sub>2</sub>O, 20 °C) 5,5 - 7,5
- Hygroscopic

**Transport/storage**

- 10°C - 30°C