

**Sodium sulfate anhydrous, powder, for analysis, ExpertQ®, ACS,  
ISO, Reag. Ph Eur****Identification**

Na<sub>2</sub>SO<sub>4</sub>  
M = 142,04 g/mol  
CAS [7757-82-6]  
EC number: 231-820-9  
Taric code: 2833 11 00

**Synonyms**

Sulfuric acid sodium salt

**Applications**

analytical chemistry, organic solvents drying.

**Specifications**

assay.....	99 - 101 %	phosphates (as PO <sub>4</sub> ).....	max. 0,001 %
identification.....	passes test	arsenic (As).....	max. 1 ppm
appearance of solution.....	clear and colourless	calcium (Ca).....	max. 0,005 %
insoluble matter.....	max. 0,01 %	heavy metals (as Pb).....	max. 0,0005 %
pH (5 %, H <sub>2</sub> O).....	5,2 - 8,0	iron (Fe).....	max. 5 ppm
acidity or alkalinity.....	passes test	magnesium (Mg).....	max. 0,001 %
nitrogen compounds (as N).....	max. 0,0005 %	potassium (K).....	max. 0,002 %
chlorides (Cl).....	max. 0,001 %	zinc (Zn).....	max. 0,01 %
		loss on ignition (600 °C).....	max. 0,5 %

**Physical data**

- Appearance: powder, white or almost white
- Spec. Density: 2,70 g/cm<sup>3</sup>
- Bulk density: ~ 1400 - 1600 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 160 g/l
- Melting point: 888 °C
- Boiling point: > 890 °C (decomposes)
- pH(50 g/l H<sub>2</sub>O, 20 °C) 5 - 8
- Hygroscopic

**Transport/storage**

- 10°C - 30°C