

**Manganese(II) sulfate monohydrate, for analysis, ExpertQ®, ACS,
Reag. Ph Eur**
Identification

MnSO₄·H₂O

M = 169,02 g/mol

CAS [10034-96-5]

EC number: 232-089-9

Taric code: 2833 29 90

Applications

analytical chemistry, in porcelain industry.

Specifications

assay (complexometric)..... 98,0 - 101,0 %
identity (IR-spectrum)..... passes test
appearance of solution..... passes test
insoluble in water..... max. 0,01 %
chlorides (Cl)..... max. 0,001 %
calcium (Ca)..... max. 0,005 %
copper (Cu)..... max. 5 ppm
heavy metals (as Pb)..... max. 0,001 %

iron (Fe)..... max. 0,001 %
lead (Pb)..... max. 0,001 %
magnesium (Mg)..... max. 0,005 %
nickel (Ni)..... max. 5 ppm
potassium (K)..... max. 0,005 %
sodium (Na)..... max. 0,005 %
zinc (Zn)..... max. 0,005 %
substances reducing KMnO₄ passes test
residue on ignition (500 °C)..... 10,0 - 12,0 %

Physical data

- Appearance: lumpy powder, pink
- Spec. Density: 2,95 g/cm³
- Bulk density: ~ 1000 - 1200 kg/m³
- Solub. in water: (20 °C): 762 g/l
- Melting point: 117 °C (decomposes)
- pH(50 g/l H₂O, 20°C) 3,0 - 3,5

Safety - GHS

Signal Word: Warning

Hazard Statements:

H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.


Precautionary Statements:

P260: Do not breathe dust / fume / gas / mist / vapours / spray.
P273: Avoid release to the environment.
P314: Get medical advice / attention if you feel unwell.
P391: Collect spillage.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 9 M7 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Manganese(II) sulfate monohydrate)
- IMDG: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Manganese(II) sulfate monohydrate)
- IATA/ICAO: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Manganese(II) sulfate monohydrate)
- PAX: 911
- CAO: 911
- 10°C - 30°C