

Zinc sulfate heptahydrate, Pharmpur®, Ph Eur, BP, USP**Identification**

ZnSO₄·7H₂O
M = 287,54 g/mol
CAS [7446-20-0]
EC number: 231-793-3
Taric code: 2833 29 20

Synonyms

Sulfuric acid zinc salt heptahydrate, Zinc vitriol

Applications

analytical chemistry, laboratory reagent, in galvanotechnology, for deproteinating blood and urine, in pharma industry.

Specifications

assay (complexometric).....	99,0 - 104,0 %	acidity.....	passes test
assay (complexometric, referred to dried sample).....	55,6 - 61,0 %	pH (5 %, H ₂ O).....	4,4 - 5,6
Identification sulfates.....	passes test	alkalies and alkaline earths.....	max. 0,9 %
Identification zinc.....	passes test	chlorides (Cl).....	max. 300 ppm
appearance of solution.....	clear and colourless	arsenic (As).....	max. 14 ppm
		iron (Fe).....	max. 100 ppm
		lead (Pb).....	max. 20 ppm

Physical data

- Appearance: crystals, white
- Spec. Density: 1,97 g/cm³
- Bulk density: ~ 800 - 1000 kg/m³
- Solub. in water: (20 °C): 960 g/l
- Melting point: ~ 40 °C (decomposes)
- pH(50 g/l H₂O, 20 °C) ~ 4 - 6

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H318: Causes serious eye damage.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H302: Harmful if swallowed.

**Precautionary Statements:**

- P280: Wear protective gloves / protective clothing / eye protection / face protection.
P273: Avoid release to the environment.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor / physician.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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.(Zinc sulfate heptahydrate)
- IMDG: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Zinc sulfate heptahydrate)
- IATA/ICAO: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Zinc sulfate heptahydrate)
- PAX: 911
- CAO: 911
- 10°C - 30°C