

Identification

ZnO
M = 81,37 g/mol
CAS [1314-13-2]
EC number: 215-222-5
Taric code: 2817 00 00

Applications

analytical chemistry, laboratory reagent, reference material, in the pharmaceuticals industry, in food industry, cosmetics.

Specifications

assay (complexometric).....	min. 99,0 %	arsenic (As).....	max. 5 ppm
assay (complexometric, on ignited sample).....	99,0 - 100,5 %	cadmium (Cd).....	max. 10 ppm
Identification A.....	passes test	calcium (Ca).....	max. 50 ppm
Identification B.....	passes test	iron (Fe).....	max. 10 ppm
insoluble in diluted H ₂ SO ₄	max. 0,01 %	lead (Pb).....	max. 50 ppm
carbonates and substances insoluble in acids.....	passes test	magnesium (Mg).....	max. 50 ppm
alkalinity.....	passes test	manganese (Mn).....	max. 5 ppm
chlorides (Cl).....	max. 10 ppm	potassium (K).....	max. 100 ppm
nitrates (NO ₃).....	max. 30 ppm	sodium (Na).....	max. 500 ppm
sulphur compounds (as SO ₄).....	max. 100 ppm	loss on ignition (500 °C).....	max. 1,0 %

Physical data

- Appearance: lumpy powder, white, up to 1 µm
- Spec. Density: 5,47 g/cm³
- Bulk density: ~ 300 - 500 kg/m³
- Solub. in water: (20 °C): insoluble
- Melting point: ~ 1970 °C
- pH(50 g/l H₂O, 20 °C) ~ 7

Safety - GHS

Signal Word: Warning

Hazard Statements:

- H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.



Precautionary Statements:

- P273: Avoid release to the environment.
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.(Zinc oxide)
- IMDG: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Zinc oxide)
- IATA/ICAO: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Zinc oxide)
- PAX: 911
- CAO: 911
- 10°C - 30°C