

Identification

ZnCl₂
 M = 136,28 g/mol
 CAS [7646-85-7]
 EC number: 231-592-0
 Taric code: 2827 39 85

Applications

analytical chemistry, laboratory reagent, catalyst, synthesis of organic products.

Specifications

assay (complexometric).....	98,0 - 100,5 %	total nitrogen (as N).....	max. 0,002 %
identity (IR-spectrum).....	passes test	aluminium, calcium iron and magnesium.....	passes test
insoluble matter.....	max. 0,005 %	cadmium (Cd).....	max. 5 ppm
pH (10 %, H ₂ O).....	4,6 - 5,5	calcium (Ca).....	max. 0,001 %
nitrate (NO ₃).....	max. 0,003 %	copper (Cu).....	max. 0,001 %
sulfate (SO ₄).....	max. 0,002 %	iron (Fe).....	max. 5 ppm
ammonium (NH ₄).....	max. 0,005 %	lead (Pb).....	max. 0,001 %
oxychloride (acidimetric, as ZnO).....	max. 1,2 %	magnesium (Mg).....	max. 0,01 %
oxychlorides.....	passes test	potassium (K).....	max. 0,02 %
		sodium (Na).....	max. 0,005 %

Physical data

- Appearance: powder, white or almost white
- Spec. Density: ~ 2,9 g/cm³
- Bulk density: ~ 1400 - 1800 kg/m³
- Solub. in water: (20 °C): soluble
- Melting point: 318 °C
- Boiling point: 730 °C
- pH(100 g/l H₂O, 20 °C) ~ 5

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H314: Causes severe skin burns and eye damage.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.
 H302: Harmful if swallowed.


Precautionary Statements:

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.
 P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
 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.
 P405: Store locked up.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 8 C2 III • UN 2331 • ZINC CHLORIDE, ANHYDROUS
- IMDG: 8 III • UN 2331 • ZINC CHLORIDE, ANHYDROUS
- IATA/ICAO: 8 III • UN 2331 • ZINC CHLORIDE, ANHYDROUS
- PAX: 822
- CAO: 823
- 10°C - 30°C