CI0200

Zinc oxide, for analysis, ExpertQ®, ACS, Reag. Ph Eur

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 pharmaceutics industry, in food industry, cosmetics.

Specifications

assay (complexometric)	min. 99,0 %
assay (complexometric, on ignited sample)	99,0 - 100,5 %
Identification A	passes test
Identification B	passes test
insoluble in diluted H2SO4	max. 0,01 %
carbonates and substances insoluble in acids	passes test
alkalinity	passes test
chlorides (Cl)	max. 10 ppm
nitrates (NO3)	max. 30 ppm
sulphur compounds (as SO4)	max. 100 ppm
arsenic (As)	max. 5 ppm
cadmium (Cd)	max. 10 ppm
calcium (Ca)	max. 50 ppm
iron (Fe)	max. 10 ppm
lead (Pb)	max. 50 ppm
magnesium (Mg)	max. 50 ppm
manganese (Mn)	max. 5 ppm
potassium (K)	max. 100 ppm
sodium (Na)	max. 500 ppm
loss on ignition (500 °C)	max. 1,0 %

Physical data

- Appearance: lumpy powder, white, up to 1 µm
- Spec. Density: 5,47 g/cm^3
- Bulk density: ~ 300 - 500 kg/m^3
- Solub. in water: (20 ºC): insoluble
- Melting point: ~ 1970 ºC
- pH(50 g/l H_2O, 20 ºC) ~ 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