

Identification

MgO
M = 40,30 g/mol
CAS [1309-48-4]
EC number: 215-171-9
Taric code: 2519 90 10

Synonyms

Magnesia usta

Applications

in the ceramics industry, in optics, in building materials, in pharma industry.

Specifications

assay (complexometric).....	98,0 - 100,5 %	soluble substances.....	max. 2,0 %
assay (chromatography, on ignited substance).....	96,0 - 100,5 %	free alkali and soluble salts.....	max. 2,0 %
Identification magnesium.....	passes test	chlorides (Cl).....	max. 0,15 %
Identification B (USP).....	passes test	sulfates (SO ₄).....	max. 1,0 %
appearance of solution.....	passes test	arsenic (As).....	max. 4 ppm
insoluble in CH ₃ COOH.....	max. 0,1 %	calcium (Ca).....	max. 1,1 %
acid-insoluble matter.....	max. 0,1 %	iron (Fe).....	max. 0,05 %
		residue on ignition (900 °C).....	max. 8,0 %

Physical data

- Spec. Density: 3,58 g/cm³
- Bulk density: ~ 145 kg/m³
- Solub. in water: (20 °C): insoluble
- Melting point: ~ 2800 °C
- Boiling point: 3600 °C
- pH(saturated solution H₂O, 20 °C) ~ 10

Transport/storage

- 10°C - 30°C