

Identification

CaCO₃
M = 100,09 g/mol
CAS [471-34-1]
EC number: 207-439-9
Taric code: 2836 50 00

Synonyms

Lime, Chalk, Marble

Applications

painting, in the rubber industry, plasticizer, dentifrices, in porcelain industry, insecticide, in food industry, cosmetics, for pharmaceuticals synthesizing, in pharma industry.

Specifications

assay (complexometric, on dried sample).....	98,5 - 100,5 %	arsenic (As).....	max. 3 ppm
Identification A (EP).....	passes test	barium (Ba).....	passes test
Identification B (EP).....	passes test	mercury (Hg).....	max. 0,5 ppm
insoluble in CH ₃ COOH.....	max. 0,2 %	fluorides (F).....	max. 50 ppm
insoluble in HCl	max. 0,2 %	lead (Pb).....	max. 3 ppm
chlorides (Cl).....	max. 330 ppm	iron (Fe).....	max. 200 ppm
sulfates (SO ₄).....	max. 0,25 %	magnesium and alkali metals.....	max. 1,0 %
		loss on drying (200°C, 4 h).....	max. 2,0 %

Physical data

- Appearance: lumpy powder, white or almost white
- Spec. Density: 2,71 g/cm³
- Bulk density: ~ 400 - 700 kg/m³
- Solub. in water: (20 °C): 14 mg/l
- Melting point: 825 °C (decomposes)
- pH(100 g/l H₂O, 20 °C) ~ 9,5 - 10,5

Transport/storage

- 10°C - 30°C