

Barium hydroxide octahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

Identification

Ba(OH)₂·8H₂O
M = 315,48 g/mol
CAS [12230-71-6]
EC number: 241-234-5
Taric code: 2816 40 00

Synonyms

Caustic baryta, Barium oxide hydrate octahydrate

Applications

analytical chemistry, for the detection of: carbon dioxide; in pesticide compositions, in lubricant compositions, in the rubber industry.

Specifications

assay (acidimetric).....	min. 98,0 %	iron (Fe).....	max. 5 ppm
insoluble in HCl	max. 0,005 %	lead (Pb).....	max. 5 ppm
carbonates (as BaCO ₃).....	max. 2,0 %	magnesium (Mg).....	max. 0,002 %
chlorides (Cl).....	max. 0,001 %	potassium (K).....	max. 0,01 %
sulfides (S).....	max. 0,0005 %	sodium (Na).....	max. 0,01 %
cadmium (Cd).....	max. 5 ppm	strontium (Sr)	max. 0,5 %
calcium (Ca).....	max. 0,002 %	zinc (Zn).....	max. 5 ppm
heavy metals (as Pb).....	max. 5 ppm	non precipitable with H ₂ SO ₄ (as SO ₄).....	max. 0,2 %

Physical data

- Appearance: crystals, white
- Spec. Density: 2,18 g/cm³
- Bulk density: ~ 900 - 1100 kg/m³
- Solub. in water: (15 °C): 56 g/l
- Melting point: 78 °C
- pH(50 g/l H₂O, 20 °C) ~ 12,5

Safety - GHS

Signal Word: Warning

Hazard Statements:

H302: Harmful if swallowed.
H332: Harmful if inhaled.



Precautionary Statements:

P261: Avoid breathing dust / fume / gas / mist / vapours / spray.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 8 CT2 II • UN 2923 • CORROSIVE SOLID, TOXIC, N.O.S. (Barium hydroxide octahydrate)
- IMDG: 8 II • UN 2923 • CORROSIVE SOLID, TOXIC, N.O.S. (Barium hydroxide octahydrate)
- IATA/ICAO: 8 II • UN 2923 • CORROSIVE SOLID, TOXIC, N.O.S. (Barium hydroxide octahydrate)
- PAX: 859
- CAO: 863
- 10°C - 30°C