

Identification

Ba(NO₃)₂
M = 261,35 g/mol
CAS [10022-31-8]
EC number: 233-020-5
Taric code: 2834 29 20

Synonyms

Nitric acid barium salt

Applications

analytical chemistry, in explosive compositions.

Specifications

assay (complexometric).....	min. 99 %	calcium (Ca).....	max. 0,1 %
insoluble in water.....	max. 0,02 %	chlorides (Cl).....	max. 0,002 %
acidity (as HNO ₃).....	max. 0,01 %	iron (Fe).....	max. 5 ppm
pH (5 %, H ₂ O).....	5,0 - 8,0	strontium (Sr)	max. 0,1 %

Physical data

- Spec. Density: 3.2 g/cm³
- Bulk density: ~ 1750 kg/m³
- Solub. in water: (20 °C): 90 g/l
- Melting point: 592 - 595 °C
- pH(50 g/l H₂O, 20 °C) ~ 5,2

Safety - GHS

Signal Word: Danger

**Hazard Statements:**

- H272: May intensify fire; oxidiser.
H301: Toxic if swallowed.
H332: Harmful if inhaled.
H319: Causes serious eye irritation.

Precautionary Statements:

- P221: Take any precaution to avoid mixing with combustibles.
P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
P220: Keep / Store away from clothing / combustible materials.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378: In case of fire: Use ... for extinction.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 5.1 OT2 II • UN 1446 • BARIUM NITRATE
- IMDG: 5.1 II • UN 1446 • BARIUM NITRATE
- IATA/ICAO: 5.1 II • UN 1446 • BARIUM NITRATE
- PAX: 508
- CAO: 511
- 15°C - 25°C