

Bismuth(III) hydroxide nitrate, Pharmpur®, Ph Eur, BP, USP**Identification**

$\text{Bi}_5\text{O}(\text{OH})_9(\text{NO}_3)_4$
M = 1461,99 g/mol
CAS [1304-85-4]
EC number: 215-136-8
Taric code: 2834 29 80

Synonyms

Bismuth subnitrate, Bismuth nitrate basic

Applications

analytical chemistry, cosmetics, in pharma industry.

Specifications

assay (complexometric, as Bi, on dried sample)	71,0 - 74,0 %	arsenic (As).....	max. 8 ppm
assay (complexometric, as Bi_2O_3 , on dried sample)	min. 79,0 %	ammonium salts.....	passes test
Identification bismuth.....	passes test	copper (Cu).....	max. 50 ppm
Identification nitrates.....	passes test	copper (Cu).....	passes test
Identification A (EP).....	passes test	lead (Pb).....	max. 20 ppm
pH	max. 2,0	lead (Pb).....	passes test
acidity.....	passes test	silver (Ag).....	max. 25 ppm
chlorides (Cl).....	max. 200 ppm	silver (Ag).....	passes test
carbonates	passes test	alkali and alkaline earth metals
sulfates (SO_4).....	passes test	max. 0,5 %
		substances not precipitated by ammonia.....	max. 1,0 %
		loss on drying (105 °C).....	max. 3,0 %

Physical data

- Appearance: flouy powder, white or almost white
- Spec. Density: 4,95 g/cm³
- Bulk density: ~ 600 kg/m³
- Solub. in water: (20 °C): almost insoluble
- Melting point: 260 °C
- pH(50 g/l H₂O, 20 °C) ~ 3,2

Safety - GHS

Signal Word: Danger

Hazard Statements:

H272: May intensify fire; oxidiser.

**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.
P280: Wear protective gloves / protective clothing / eye protection / face protection.
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 O2 II • UN 1477 • NITRATES, INORGANIC, N.O.S.
- IMDG: 5.1 II • UN 1477 • NITRATES, INORGANIC, N.O.S.
- IATA/ICAO: 5.1 II • UN 1477 • NITRATES, INORGANIC, N.O.S.
- PAX: 508
- CAO: 511
- 10°C - 30°C