BI0225
Bismuth(III) hydroxide nitrate, Pharmpur®, Ph Eur, BP, USP

Identification

$Bi_5O(OH)_9(NO_3)_4$
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 %
assay (complexometric, as Bi2O3, on dried sample)	min. 79,0 %
Identification bismuth	passes test
Identification nitrates	passes test
Identification A (EP)	passes test
pH	max. 2,0
acidity	passes test
chlorides (Cl)	max. 200 ppm
carbonates	passes test
sulfates (SO_4)	passes test
arsenic (As)	max. 8 ppm
ammonium salts	passes test
copper (Cu)	max. 50 ppm
copper (Cu)	passes test
lead (Pb)	max. 20 ppm
lead (Pb)	passes test
silver (Ag)	max. 25 ppm
silver (Ag)	passes test
alkali and alkaline earth metals	max. 0,5 %
substances not precipitated by ammonia	max. 1,0 %
loss on drying (105 °C)	max. 3,0 %

Physical data

- Appearance: floury powder, white or almost white
- Spec. Density: 4,95 g/cm^3
- Bulk density: ~ 600 kg/m^3
- Solub. in water: (20 °C): almost insoluble
- Melting point: 260 °C
- pH(50 g/l H_2O, 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