

Identification

H₃BO₃
M = 61,84 g/mol
CAS [10043-35-3]
EC number: 233-139-2
Taric code: 2810 00 90

Synonyms

Orthoboric acid

Applications

in building materials, in porcelain industry, cosmetics, manufacture of dyes, photography, analytical chemistry, in pharma industry.

Specifications

assay (acidimetric).....	99,0 - 100,5 %	completeness of solution.....	passes test
assay (acidimetric, referred to dried sample).....	99,5 - 100,5 %	pH (3,3 %, H ₂ O).....	3,8 - 4,8
Identification A (EP).....	passes test	solubility in ethanol 96%.....	passes test
Identification B (EP).....	passes test	solubility in alcohol.....	passes test
Identification A (USP).....	passes test	sulfates (SO ₄).....	max. 450 ppm
appearance of solution.....	clear and colourless	organic matter.....	passes test
		loss on drying (over silica gel).....	max. 0,5 %

Physical data

- Appearance: crystals, white
- Spec. Density: 1,51 g/cm³
- Bulk density: ~ 400 - 600 kg/m³
- Solub. in water: (20 °C): 46,5 g/l
- Melting point: 185 °C (decomposes)
- Vapour pressure: (20 °C) 2,7 hPa
- pH(33 g/l H₂O, 20 °C) 3,8 - 4,8

Safety - GHS

Signal Word: Danger

Hazard Statements:

H360FD: May damage fertility. May damage the unborn child.

**Precautionary Statements:**

- P261: Avoid breathing dust / fume / gas / mist / vapours / spray.
P280: Wear protective gloves / protective clothing / eye protection / face protection.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312: Call a POISON CENTER or doctor / physician if you feel unwell.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- 10°C - 30°C