

Identification

Na₂B₄O₇ · 10H₂O
M = 381,37 g/mol
CAS [1303-96-4]
EC number: 215-540-4
Taric code: 2840 19 90

Synonyms

Borax, Sodium biborate decahydrate, Sodium borate decahydrate

Applications

reference material, for calibrating pH-meters, for pharmaceuticals synthesizing, in pharma industry.

Specifications

assay (acidimetric).....	99,0 - 103,0 %	pH (4 %, H ₂ O).....	9,0 - 9,6
Identification sodium.....	passes test	carbonate, bicarbonate.....	passes test
Identification borate.....	passes test	sulfates (SO ₄).....	max. 50 ppm
Identification A (EP).....	passes test	ammonium (NH ₄).....	max. 10 ppm
Identification B (EP).....	passes test	arsenic (As).....	max. 5 ppm
appearance of solution.....	clear and colourless	calcium (Ca).....	max. 100 ppm

Physical data

- Appearance: crystals, white
- Spec. Density: 1,72 g/cm³
- Bulk density: ~ 750 kg/m³
- Solub. in water: (20 °C): 51,4 g/l
- Melting point: 75 °C
- Boiling point: 1575 °C (anhydrous)
- Vapour pressure: (20 °C) 0,213 hPa
- pH(47 g/l H₂O, 20 °C) 9,2

Safety - GHS

Signal Word: Danger

Hazard Statements:

H319: Causes serious eye irritation.
H360FD: May damage fertility. May damage the unborn child.



Precautionary Statements:

P280: Wear protective gloves / protective clothing / eye protection / face protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice / attention.
P337+P313: If eye irritation persists: Get medical advice / attention.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.