



## Boric Acid

### Product Information

**Chemical name :** Boric Acid

Syn: Hydrogen Borate, Orthoboric acid, Boracic acid; Trihydroxidoboron, Sassolite, Optibor, Borofax, Trihydroxyborane, Boron(III) hydroxide, Boron Trihydroxide

**Cat. Number :** UP070440, 1KG    UP07044A, 2KG  
UP07044B, 500 g

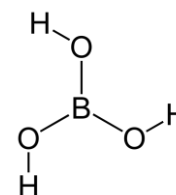
**Structure :**  $\text{H}_3\text{BO}_3$

**Molecular Weight :** 61.83

**CAS:** 10043-35-3

**Storage:** Room temperature (Z)

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### Technical information

Boric Acid is used in R&D laboratories as a popular multi-purpose buffering agent, for alkaline pH range 7-10, with high bacteriocidal effect. Furthermore it is less toxic and non-volatile. It is used also in other area, as an antiseptic, insecticide, flame retardant, neutron absorber, or precursor in synthesis.

Readily soluble in water (25.2g/L at 0°C, 47.2g/L at 20°C, 191g/L at 80°C), and soluble in lower alcohols.

Boric Acid is a weak, monobasic Lewis acid of boron. Polyborate anions are formed at pH 7–10 if the boron concentration is higher than about 0.025 mol/L.

Acidity (pKa): 9.24, 12.4, 13.3

Borate buffered saline should not be used in gel electrophoresis in the presence of polyols, including carbohydrates and their derivatives with which they make chelate complexes and give a bent zone with lateral spreading.

Borate's antibacterial and fungicidal properties are taken to good account in buffers and in many applications. For example it inhibits *Candida albicans* fungal infection (used to treat vaginal infection) and favors osteoblasts activity and inhibit bone loss (odontology).

FT-070440

## Test Specifications

Appearance:	White granular powder
Purity	Min 99.5 %
Calcium	Max 0.005 %
Chloride	Max 0.001 %
Heavy Metals (as Pb)	Max 0.001 %
Insolubles (Methanol)	Max 0.005 %
Iron	Max 0.001 %
Nonvolatiles (Methanol)	Max 0.05 %
Phosphate	Max 0.001 %
Sulfate	Max 0.01 %
Rnase/Dnase	Non detected

## Regulatory information

Hazard Codes:



(SGH08)

Sentitizing, mutagenic,  
cancerigenic, reprotoxic  
*Sensibilisant, mutagène,  
cancérogène, reprotoxique*

UN Number: none ☐

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