



## Chem-Metals & Rare Earth

### ■ Boric Acid



**High purity Boric Acid** of 99.99% is used in a wide range of industrial products and consumer, such as flame retardants, nutritional supplements, pharmaceuticals, glass and fiberglass, wood preservatives, pest control,

metallurgy and as raw material in manufacturing high purity lithium borate flux etc.

Formula	H <sub>3</sub> BO <sub>3</sub>
Appearance	White powder
Molecular weight	61.83
Density	1.435 g/cm <sup>3</sup>
Melting Point	170.9 °C
CAS No.	10043-35-3

No.	Item	Standard Specification				
1	H <sub>3</sub> BO <sub>3</sub> ≥	99.99%				
2	Impurity PCT Max each	S/Cl <sup>-</sup>	Si	Ca/P	As/Cu/Mg	Al/Fe/K/Na/Pb
		0.001	0.0005	0.0003	0.0001	0.0002
3	Packing	25kgs in double plastic bags with carton outside				

### ■ Lithium Borate



**Lithium borate**, white powder or pellet, is hardly soluble in water. It is mainly used as flux for X-ray fluorometric analysis preparing vitrescence substance. It is suggested to fuse Cao, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, Na<sub>2</sub>O, K<sub>2</sub>O, MgO,

P<sub>2</sub>O<sub>5</sub> and sulfide etc.

Formula	Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub>
Appearance	White powder
Molecular weight	169.12
Density	1.88 g/mm <sup>3</sup>
Melting Point	930 °C
CAS No.	12007-60-2

No.	Item	Standard Specification				
1	Lithium Borate ≥	Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	LiBO <sub>2</sub>	LBO6733	LBO1222	
		99.99%	99.99%	99.99%	99.99%	
2	Impurity PPM Max	Ca	10	10	10	10
		Cu	5.0	5.0	5.0	5.0
		Mg	5.0	5.0	5.0	5.0
		K	5.0	5.0	5.0	5.0
		Na	5.0	5.0	5.0	5.0
		Fe	5.0	5.0	5.0	5.0
		As	1.0	1.0	1.0	1.0
		Al	5.0	5.0	5.0	5.0
3	Bulk Density(g/cm <sup>3</sup> )	0.6-0.8	0.5-0.7	0.58-0.7	0.58-0.7	
4	LOI	0.4%	0.4%	0.4%	0.4%	
5	Size	Powder or pellet				
6	Packing	500g in plastic bottle with cardboard box outside				