



Boric Acid Analysis

Chemical Specification of Grade A

Component	Unit	Content
B ₂ O ₃	%	55.73-56.29
Purity (H ₃ BO ₃)	%	99-100
SO ₄	ppm	300 max
Cl	ppm	2 max
Fe	ppm	5 max
As	ppm	-
Pb	ppm	-
Insoluble in water	%	0.005 max

Particle Size Specification

Size	Content
+0.212 mm	10% max
-0.125 mm	70% min



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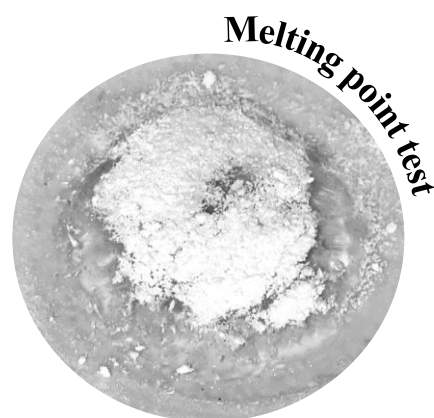
Boric Acid Analysis

Chemical Specification of Grade B

Component	Unit	Content
B ₂ O ₃	%	55.45- 56.01
Purity (H ₃ BO ₃)	%	98.5-99.5
SO ₄	ppm	500 max
Cl	ppm	5 max
Fe	ppm	7 max
As	ppm	-
Pb	ppm	-
Insoluble in water	%	0.005 max

Particle Size Specification

Size	Content
+0.250 mm	10% max
-0.150 mm	70% min



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Boric Acid Analysis

Physical Specification

Specific Gravity	1.51 g/cm ³ (20 °C)
Bulk Density	0.750 g/cm ³ (Powder)
Molecular Weight	61.83 g/mol
Melting Point	170.9 °C
Boiling Point	300 °C
pH (1% Solution in water)	5.2

Chemical and Physical Properties

Boric acid is soluble in boiling water. When heated above 170 °C, it dehydrates, forming metaboric acid (HBO₂). Boric acid is usually present in the form of white crystalline or white powder, colorless and odorless.

Solubility in Other Solvents

Soluble in lower **alcohols**

moderately soluble in **pyridine**

very slightly soluble in **acetone**

Solubility in Alcohol

1 g in 10 mL of boiling alcohol dissolves completely.

Completeness of Solution

1 g in 25 mL of water produces a clear solution.

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