

BORIC ACID

Application Notes:

NuGenTec Inorganic Chemical Group (NICG) Boric acid, also called **boracic acid** or **orthoboric acid** or **Acidum Boricum**, is a weak acid often used as an antiseptic, insecticide, flame retardant, in nuclear power plants to control the fission rate of uranium, and as a precursor of other chemical compounds. It exists in the form of colorless crystals or a white powder and dissolves in water. It has the chemical formula H_3BO_3 , sometimes written $B(OH)_3$.

Typical Parameters:

Boric Acid	
Physical State & Appearance	White crystalline powder or granules
Molecular Formula	H_3BO_3 or $B(OH)_3$
Formula Weight	61.83



Specifications:

Grade	ACS
CAS Number	10043-35-3
Solubility in Water@ 25 °C	5.7g/100 ml
Bulk Density	1.435 gm/cc
Assay	99.5% Min
Insoluble in Methanol	50 ppm
Non-volatile w/Methanol	.05% Max
Chloride (Cl)	10 ppm
Phosphate (PO ₄)	10 ppm
Sulfate (SO ₄)	100 ppm
Calcium (Ca)	50 ppm
Heavy Metals (as Pb)	10 ppm
Iron (Fe)	10 ppm



Availability: Available in 50 Kg fiber drums

Shipment: Not Regulated

Storage: Keep in a well closed container stored under cold to warm conditions, 2 to 40 C, (36 to 104F)

(1) Disposal: Dispose of in accordance with local, state, & federal regulations. For assistance with disposal contact NuGeneration Technologies at 888-99-Nugen or e-mail: nicg@nugentec.com.