




## BORON TRIFLUORIDE COMPLEXES

Properties	BF <sub>3</sub> Ethyl ether	BF <sub>3</sub> Acetic acid	BF <sub>3</sub> Mono ethyl amine	BF <sub>3</sub> Phenol		
Formula	BF <sub>3</sub> ·(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O	BF <sub>3</sub> ·CH <sub>3</sub> COOH	BF <sub>3</sub> ·C <sub>2</sub> H <sub>5</sub> NH <sub>2</sub>	BF <sub>3</sub> ·(C <sub>6</sub> H <sub>5</sub> OH) <sub>2</sub>		
Mol. Wt.	142	188	113	256		
CAS No.	109-63-7	372-61-5	75-23-0	372-44-1		
BF <sub>3</sub> content %	47-49	37-40	60	25-27		
State	Liquid	Liquid	Solid	Liquid		
B.P., °C	124	145	Decomposes at 90° C	Decomposes at 50° C		
Density at 20 °C	1.13	1.33	1.42	1.23		
Vapor pressure @ 20 mmHg	2.5	1	-	-		
Solubility in water	Hydrolyzes	Hydrolyzes	Soluble	Hydrolyzes		
Flammability	Flammable F.P.= 47.5 °C	Non flammable	Burns in presence of flame	Non flammable		
Packing	HM HDPE drum 30 kg	HM HDPE drum 30 kg	PP lined polybags of 1 kg, 5kg, 20 kg	HM HDPE drum 30 kg		
<b>HAZARD DATA</b>						
Pl.refer MSDS for details		 NFPA Ratings BF <sub>3</sub> ether	Health	Flammable	Reactivity	Other
			3	2	1	0
Hazard Class	6.1		TLV As BF <sub>3</sub>	1 ppm = 3mg/m <sup>3</sup>		
Flash Point	N.A.		LC 50	Ihl-rat., 1 180 mg/m <sup>3</sup> /4hr		
				3mg/m <sup>3</sup>	1180 mg/m <sup>3</sup> /4hr	
Auto Ignition BF <sub>3</sub> ethyl ether	185°C		Label required	Toxic, Corrosive. Avoid inhalation, skin contact. Keep away from food		
Extinguishers	Use fog type of Water spray to scurb the fumes					
<b>APPLICATION</b>	Catalyst for Polymerization, Alkylation, Isomerization, etc.					