

ARSINE AsH₃

– See Electronic Gases Section –

BORON TRICHLORIDE BCl₃

General Characteristics: A colorless, corrosive, and liquefied gas which is broken down by water to hydrogen chloride and boric acid. Penetrating odor. Forms white smoke in humid air.

Health Hazards: Toxic. Attacks eyes and the mucous membranes. Can cause lung damage.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
ELECTRONIC GRADE Min. Purity 99.99%		- See Electronic	Gases Section -
C.P. GRADE Min. Purity 99.9% (Liquid Phase)	044	100 lbs	Stainless-steel high purity single-stage regulator, refer to page 144
	016	40 lbs	
	008	10 lbs	Stainless-steel lecture bottle regulator, refer to page 149
	LB	1 lb	

TECHNICAL INFORMATION

Molecular Weight	117.17	Dot Name	Boron Trichloride
Specific Volume	3.3CF/lb	UN No.	UN1741
Fire Potential	Nonflammable	Dot Class	2.3
TLV-TWA	None established	Dot Label	Poison Gas, Corrosive
CGA Valve	660	Cas Registry	10294-35-1
LB	180	Cylinder Pressure @ 70°F	4.4 psig

BORON TRIFLUORIDE BF₃

General Characteristics: A colorless, nonflammable, and compressed gas which is broken down by water to hydrogen fluoride and boric acid. Penetrating odor. Forms white smoke in humid air.

Health Hazards: Toxic. Attacks eyes and the mucous membranes. Can cause lung damage and a high concentration will cause burns on the skin similar to those that are caused by hydrogen fluoride.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
ELECTRONIC GRADE Min. Purity 99.99%		- See Electronic	Gases Section -
C.P. GRADE Min. Purity 99.5%	044	60 lbs	Stainless-steel high purity double-stage regulator, refer to page 146
	008	5.5 lbs	
	LB	0.375 lbs	Stainless-steel lecture bottle regulator, refer to page 149

TECHNICAL INFORMATION

Molecular Weight	67.82	Dot Name	Boron Trifluoride
Specific Volume	5.6CF/lb	UN No.	UN1008
Fire Potential	Nonflammable	Dot Class	2.3
TLV-TWA	1 ppm (ACGIH 1991-1992)	Dot Label	Poison Gas
CGA Valve	330	Cas Registry	7637-07-2
LB	180	Cylinder Pressure @ 70°F	1600 psig