



# Boron Trifluoride

## Description

Synonym: Boron Fluoride  
Formula:  $\text{BF}_3$


## Gas Data

Molecular Weight: 67.81  
Density:  $2.9 \text{ kg/m}^3$  @ 21.1°C, 101.325 kPa  
 $0.18 \text{ lb/ft}^3$  @ 70°F, 14.696 psia  
Specific Volume:  $0.35 \text{ m}^3/\text{kg}$  @ 21.1°C, 101.325 kPa  
 $5.6 \text{ ft}^3/\text{lb}$  @ 70°F, 14.696 psia

## Safety Information

Permissible  
Exposure Limit (TLV): 1 ppm

## Shipping Information

CAS Registry Number: 7637-07-2  
UN Number: UN 1008  
ECCN Number: EAR99  
DOT Proper Shipping Name: Boron Trifluoride, Compressed  
DOT Classification: 2.3, Hazard Zone B (gas poisonous by inhalation)  
DOT Label: INHALATION HAZARD   
TC Shipping Name: Boron Trifluoride, Compressed  
TC Classification: 2.3  
TC Label: POISON GAS

## Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight	
				lb	kg
1A	330	1,294	8,922	175	80
2	330	1,600	11,032	79	36
LB	180	1,086	7,488	6	3

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
Boron Trifluoride, CP Grade 99.5 wt. %	G1503101	1A	50 lb	22.68 kg	Dual Stage Reg. Single Stage Reg. Tied Seat Reg. LB Regulator Cross Purge Personal Monitor	Series 3810	318
	G1503140	2	15 lb	6.80 kg		Series 3210A-330	301
	G1503175	LB	0.375 lb	170 gm		Series 3610A	316
				Series 3330-180		302	
				4775-330		423	
				IQ250		398	

A Certificate of Conformance will be provided on request.