



Boron Trifluoride

Description

Synonym: Boron Fluoride
 Formula: BF_3


Gas Data

Molecular Weight: 67.81
 Density: 2.9 kg/m³ @ 21.1°C, 101.325 kPa
 0.18 lb/ft³ @ 70°F, 14.696 psia
 Specific Volume: 0.35 m³/kg @ 21.1°C, 101.325 kPa
 5.6 ft³/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	1,800	12,410	192	87
2	330	1,600	11,032	79	36
3	330	1,600	11,032	45	20
4	330	1,600	11,032	24	11
LB	180	1,600	11,032	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.	Series 3810	318
	G1503140	2	15 lb	6.80 kg	Single Stage Reg.	Series 3210A-330	301
	G1503150	3	5.5 lb	2.49 kg	Tied Seat Reg.	Series 3610A	316
	G1503165	4	2 lb	0.91 kg	LB Regulator	Series 3330-180	302
	G1503175	LB	0.375 lb	170 gm	Cross Purge Personal Monitor	4775-330 IQ250	423 398

A Certificate of Conformance will be provided on request.