



Boron Trifluoride

Description

Synonym: Boron Fluoride
Formula: BF_3


Gas Data

Molecular Weight: 67.81
Density: 2.9 kg/m^3 @ 21.1°C, 101.325 kPa
 0.18 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
LB	180	1,086	7,488	6	3

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model 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	Series 3810
	G1503140	2	15 lb	6.80 kg		Series 3210A-330
	G1503175	LB	0.375 lb	170 gm		Series 3610A Series 3330-180 4775-330

A Certificate of Conformance will be provided on request.