



Boron Trichloride


Description

Synonym: Boron Chloride
 Formula: BCl₃

Gas Data

Molecular Weight: 117.17
 Density: 4.8 kg/m³ @ 21.1°C, 101.325 kPa
 0.30 lb/ft³ @ 70°F, 14.696 psia
 Specific Volume: 0.21 m³/kg @ 21.1°C, 101.325 kPa
 3.3 ft³/lb @ 70°F, 14.696 psia

Shipping Information

CAS Registry Number: 10294-34-5
 UN Number: UN 1741
 ECCN Number: EAR99
 DOT Proper Shipping Name: Boron Trichloride
 DOT Classification: 2.3, Hazard Zone C (gas poisonous by inhalation)
 DOT Label: INHALATION HAZARD
 CORROSIVE GAS 
 TC Shipping Name: Boron Trichloride
 TC Classification: 2.3, 8
 TC Label: POISON GAS, CORROSIVE GAS

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight	
				lb	kg
1V	660	4.4	30	197	89
2	660	4.4	30	114	52
3	660	4.4	30	49	22
4	660	4.4	30	27	12
LB	180	4.4	30	6	3
QF	660	4.4	30	202	92
UF	660	4.4	30	40	18

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content US	Metric	Equipment Recommendations	Model No.	Page No.
Boron Trichloride, Research Purity 99.999% <i>Guaranteed Specifications</i>	G2102123	QF	100 lb	45.36 kg	Manual Control Valve Cross Purge Personal Monitor Cyl. Valve Wrench	61A-660	417
	G2673833	UF	10 lb	4.54 kg		4775-660	422
Carbon Dioxide	< 2 ppm					IQ250	398
Carbon Monoxide	<0.5 ppm					TW-2	430
Methane	<0.5 ppm						
Nitrogen	< 4 ppm						
Oxygen	< 1 ppm						
<i>A Certificate of Analysis is available upon request at a nominal charge..</i>							
Boron Trichloride, Matheson Purity 99.998% <i>Guaranteed Specifications</i>	G1802123	QF	100 lb	45.36 kg	Manual Control Valve Cross Purge Personal Monitor Cyl. Valve Wrench	61A-660	417
	G2674726	UF	10 lb	4.54 kg		4775-660	420
Carbon Monoxide	< 1 ppm					IQ250	398
Methane	< 1 ppm					TW-2	430
Nitrogen	< 5 ppm						
Oxygen	< 2 ppm						
<i>A Certificate of Analysis is available upon request at a nominal charge.</i>							
Boron Trichloride, CP Grade 99.9%	G1502122	1V	100 lb	45.36 kg	Manual Control Valve LB Control Valve Cross Purge Personal Monitor Cyl. Valve Wrench	55A-660	417
	G1502145	2	40 lb	18.14 kg		4333-180	416
	G1502156	3	10 lb	4.54 kg		4775-660	423
	G1502165	4	5 lb	2.27 kg		IQ250	398
	G1502175	LB	1 lb	454 gm		TW-2*	430

Liquid phase, weight/weight%
A Certificate of Conformance will be provided on request.
 *Except LB