



Chlorine

Description

Formula: Cl₂


Gas Data

Molecular Weight: 70.91
 Density: 2.9728 kg/m³ @ 21.1°C, 101.325 kPa
 0.18559 lb/ft³ @ 70°F, 14.696 psia
 Specific Volume: 0.33638 m³/kg @ 21.1°C, 101.325 kPa
 5.3882 ft³/lb @ 70°F, 14.696 psia

Safety Information

Permissible Exposure Limit (TLV): 0.5 ppm

Shipping Information

CAS Registry Number: 7782-50-5
 UN Number: UN 1017
 ECCN Number: EAR99
 DOT Proper Shipping Name: Chlorine
 DOT Classification: 2.3, Hazard Zone B (gas poisonous by inhalation)
 DOT Label: INHALATION HAZARD  CORROSIVE GAS
 TC Shipping Name: Chlorine
 TC Classification: 2.3, 5.1

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight	
				lb	kg
1V	660	85	588	247	112
2	660	85	588	114	52
3	660	85	588	54	24
4	660	85	588	27	12
7C	660	85	588	6	3
7B	660	85	588	6	3
7A	660	85	588	6	3
7	660	85	588	6	3
LB	180	85	588	6	3
QF	660/728	85	588	232	105
GF	660/728	85	588	114	52
UF	660/728	85	588	54	24
JF	660/728	85	588	15	7
SA	660/180	85	588	6	3

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.
			US	Metric		
Chlorine, Research Purity 99.999%	G2128101	QF	100 lb	45.36 kg	Single Stage Reg. Cross Purge Leak Detector Detector Tube Cyl. Valve Wrench Manual Control Valve	Series 3210A-660 4775-660 8081A 8014-109SB TW-2 55A-660
<i>Guaranteed Specifications</i>	G2128140	GF	40 lb	18.14 kg		
Carbon Dioxide < 4 ppm	G2128165	JF	5 lb	2.27 kg		
Carbon Monoxide < 0.5 ppm	G2128184	7C	3.53 ft ³	100 L		
Methane < 0.1 ppm	G2128183	7B	1.77 ft ³	50 L		
Nitrogen < 2 ppm	G2128182	7A	0.88 ft ³	25 L		
Oxygen < 1 ppm	G2128181	7	0.25 ft ³	7 L		
Water < 2 ppm	G2128186	SA	1 lb	454 gm		

A Certificate of Analysis is available on request at a nominal charge..



Chlorine (continued)

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content US	Content Metric	Equipment Recommendations	Model No.
Chlorine Matheson Purity 99.99%	G1821823	QF	100 lb	45.36 kg	Single- Stage Reg.	Series 3210A-660
<i>Guaranteed Specifications</i>	G1821843	GF	40 lb	18.14 kg	Cross Purge	4775-660
Carbon Dioxide < 5 ppm	G1821855	UF	15 lb	6.80 kg	Manual Control Valve	55A-660
Carbon Monoxide < 5 ppm	G1821867	JF	5 lb	2.27 kg	Leak Detector	8081A
Methane < 1 ppm	G1821886	SA	1 lb	454 gm	Detector Tube	8014-109SB
Nitrogen < 50 ppm					Cyl. Valve Wrench	TW-2
Oxygen < 50 ppm						
<i>A Certificate of Analysis is available on request at a nominal charge.</i>						
Chlorine, Ultra High Purity 99.9%	G1919101	1A	100 lb	45.36 kg	Single- Stage Reg.	Series 3903-660**
<i>Guaranteed Specifications</i>	G1919140	2	40 lb	18.14 kg	Cross Purge	4775-660
Carbon Dioxide < 50 ppm	G1919150	3	15 lb	6.80 kg	Manual Control Valve	55A-660
Nitrogen < 100 ppm	G1919165	4	5 lb	2.27 kg	Leak Detector	8081A
Oxygen < 100 ppm	G1919175	LB	1 lb	454 gm	Detector Tube	8014-109SB
					Cyl. Valve Wrench	TW-2*
<i>A lot analysis will be provided with each cylinder. Please inquire for individual cylinder analysis.</i>						
<i>Supplied with full length eductor tube. Pressurized to 1500 psig with helium on request.</i>						
<i>Ton containers for Chlorine available upon request.</i>						
<i>Caution: Not for use as a pesticide, disinfectant, slimicide or algacide.</i>						
<i>*Except LB</i>						
<i>**Regulators for gas phase only</i>						
Chlorine, High Purity 99.5%	G1513122	1V	150 lb	68.04 kg	Single-Stage Reg.	Series 3903-660**
	G1513140	2	40 lb	18.14 kg	LB Regulator	Series 3570-180**
	G1513150	3	15 lb	6.80 kg	Cross Purge	4775-660
	G1513165	4	5 lb	2.27 kg	Manual Control Valve	55A-660
	G1513175	LB	1 lb	454 gm	Leak Detector	8081A
					Detector Tube	8014-109SB
					Cyl. Valve Wrench	TW-2*
<i>Liquid phase, weight/weight%</i>						
<i>A Certificate of Conformance will be provided on request.</i>						
<i>By request, all except LB can be furnished with full length eductor tubes for liquid withdrawal.</i>						
<i>Ton containers for Chlorine available upon request.</i>						
<i>Caution: Not for use as a pesticide, disinfectant, slimicide or algacide.</i>						
<i>*Except LB</i>						
<i>**Regulators for gas phase only</i>						

⚠WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.