



Carbon Monoxide

Description

Synonym: Carbon Oxide
Formula: CO


Gas Data

Molecular Weight: 28.01
Density: 1.16 kg/m³ @ 21.1°C, 101.325 kPa
0.0725 lb/ft³ @ 70°F, 14.696 psia
Specific Volume: 0.862 m³/kg @ 21.1°C, 101.325 kPa
13.8 ft³/lb @ 70°F, 14.696 psia

Safety Information

LFL in Air: 12.5%
UFL in Air: 74%
Permissible Exposure Limit (TLV): 25 ppm

Shipping Information

CAS Registry Number: 630-08-0
UN Number: UN 1016
ECCN Number: 1C980
DOT Proper Shipping Name: Carbon Monoxide, Compressed
DOT Classification: 2.3, Hazard Zone D (gas poisonous by inhalation)
DOT Label: INHALATION HAZARD 
FLAMMABLE GAS
TC Shipping Name: Carbon Monoxide, Compressed
TC Classification: 2.3, 2.1
TC Label: POISON GAS, FLAMMABLE GAS

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight	
				lb	kg
1A	350	1,650	11,376	145	66
1R	350	1,650	11,376	58	26
2	350	1,650	11,376	69	31
2R	350	1,650	11,376	36	16
3	350	1,650	11,376	31	14
3R	350	1,650	11,376	18	8
6A	180	1,500	10,342	2	1
LB	170	1,500	10,342	4	2

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content US	Metric	Equipment Recommendations	Model No.
Carbon Monoxide, Research Purity 99.999%	G2119118	1R	117 ft ³	3.31 m ³	Dual Stage Reg. Single Stage Reg. Cross Purge Leak Detector Detector Tube Cyl. Valve Wrench	Series 3810-350 Series 3610A-350 4774-350 8081A 8014-106S TW-5
<i>Guaranteed Specifications</i>	G2119147	2R	62 ft ³	1.8 m ³		
Carbon Dioxide < 2 ppm	G2119159	3R	23 ft ³	0.7 m ³		
Methane < 2 ppm	G2119172	6A	3.06 ft ³	86.6 L		
Nitrogen/Argon < 5 ppm						
Oxygen < 2 ppm						
Water < 2 ppm						
<i>A Certificate of Analysis is available on request at a nominal charge.</i>						
Carbon Monoxide, Matheson Purity 99.99%	G1821101	1A	175 ft ³	4.96 m ³	Dual Stage Reg. Single Stage Reg. Tee Purge Leak Detector Detector Tube Cyl. Valve Wrench	Series 3120-350 Series 3530-350 4753-350 8081A 8014-106S TW-5
<i>Guaranteed Specifications</i>	G1821140	2	66 ft ³	1.87 m ³		
Nitrogen/Argon < 80 ppm	G1821150	3	26 ft ³	0.74 m ³		
Oxygen < 5 ppm						
Methane < 10 ppm						
Water < 4 ppm						
<i>NOTE: In Aluminum cylinders Carbon Dioxide < 10ppm</i> <i>A Certificate of Analysis is available on request at a nominal charge.</i>						
Carbon Monoxide, Ultra High Purity 99.9%	G1918701	1A	175 ft ³	4.96 m ³	Dual Stage Reg. Single Stage Reg. LB Regulator Tee Purge Leak Detector Detector Tube Cyl. Valve Wrench	Series 1250-350 Series 3530-350 Series 3550-170 4753-350 8081A 8014-106S TW-5
<i>Guaranteed Specifications</i>	G1918740	2	66 ft ³	1.87 m ³		
Nitrogen/Argon < 900 ppm	G1918750	3	26 ft ³	0.74 m ³		
Oxygen < 10 ppm	G1918775	LB	1.5 ft ³	44 L		
Methane < 50 ppm						
Water < 5 ppm						
<i>NOTE: In Aluminum cylinders Carbon Dioxide < 50ppm</i> <i>A Certificate of Conformance will be provided on request.</i> <i>A lot analysis is available at a nominal charge.</i>						



Carbon Monoxide *(continued)*

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.
			US	Metric		
Carbon Monoxide, CP Grade 99.5%	G1132212	1L	236 ft ³	6.68 m ³	Dual Stage Reg.	Series 81-350
	G1132201	1A	175 ft ³	4.96 m ³	Single Stage Reg.	Series 18-350
	G1132240	2	66 ft ³	1.87 m ³	LB Regulator	Series 3320-170
	G1132250	3	26 ft ³	0.74 m ³	Tee Purge	4753-350
	G1132275	LB	1.5 ft ³	44 L	Leak Detector	8081A
					Detector Tube	8014-106S
					Cyl. Valve Wrench	TW-5
<i>A Certificate of Conformance will be provided on request.</i>						
Carbon Monoxide, Technical Purity 99%	G1132112	1L	236 ft ³	6.68 m ³	Dual Stage Reg.	Series 81-350
	G1132101	1A	175 ft ³	4.96 m ³	Single Stage Reg.	Series 18-350
	G1132140	2	66 ft ³	1.87 m ³	LB Regulator	Series 3320-170
	G1132150	3	26 ft ³	0.74 m ³	Tee Purge	4753-350
	G1132175	LB	1.5 ft ³	44 L	Leak Detector	8081A
					Detector Tube	8014-106S
					Cyl. Valve Wrench	TW-5
<i>A Certificate of Conformance will be provided on request.</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.