

Carbon Monoxide CO

Synonyms: Carbonic Oxide, Exhaust Gas

Physical Constants of Gas

Molecular Weight 28.01
 Specific Volume 13.7 CF/lb. (0.86 m³/kg)
 Boiling Point -312.7°F (-191.5°C) 1 atm
 Gas Density 70°F 1 atm 1.184 kg/m³

Cylinder Data

CGA Valve Outlet 350, 724
 LB CGA Outlet 110, 170

Shipping Data

Shipping Class 150
 DOT/TC Name ... Carbon Monoxide, Compressed
 DOT Class 2.3 (Poisonous Gas)
 Hazard Zone D
 TC Class 2.3 (2.1) Toxic Gas (Flammable Gas)
 WHMIS Class AB1D1AD2A
 DOT Label Poison Gas, Flammable
 CAS Registry No. 630-08-0
 UN No./ATA No. UN1016

Safety Information

Poisonous, flammable, odorless, high-pressure gas.
 Flammability limits: lower 12.5%; upper 74%.
 Use carbon monoxide monitors in enclosed space – can be fatal even with adequate oxygen.
 Can form explosive mixtures with air.

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure*		Weight		Description Model Number	Page
			CF	m ³	psig	bar	lbs.	kg		
CHEMGAZ 3 Ar < 1 ppm CO ₂ < 15 ppm H ₂ < 30 ppm Kr < 5 ppm N ₂ < 200 ppm THC < 10 ppm	99.97%	44	175	5	1660	115	145	66	Two-Stage Regulator Q1-318B-350 Q1-14C-350 LB Regulator Q1-20B-170	270 275 294
		16	70	2	1660	115	68	31		
		7	27	0.8	1660	115	30	14		
		LB	2	0.1	1500	103	4	2		
CHEMGAZ 2	99.5%	49	236	7	2000	138	160	73	Two-Stage Regulator Q1-211B-350 Q1-209A-350 Q1-14C-350 Single-Stage Regulator Q1-205B-350 Q1-202B-350 LB Regulator Q1-20B-170	269 268 275 269 268 294
		44	175	5	1660	115	145	66		
		LB	2	0.1	1500	103	4	2		
CHEMGAZ 1 O ₂ < 10 ppm	99%	49	236	7	2000	138	160	73	Two-Stage Regulator Q1-211B-350 Q1-209A-350 LB Regulator Q1-20B-170	269 268 294
		44	175	5	1660	115	145	66		
		LB	2	0.1	1500	103	4	2		

* In Canada, cylinder pressure is 1500 psig (103 bar).

Tube trailer quantities of carbon monoxide are available – please contact your Air Liquide representative.

Our SCOTT™ gas delivery equipment is guaranteed to preserve the purity and integrity of your gas. See page 261.

Carbon Monoxide continued

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			CF	m ³	psig	bar	lbs.	kg		
Electronic Grade 2 Ar < 10 ppm CH ₄ < 2 ppm CO ₂ < 1 ppm Fe(CO) ₅ < 0.5 ppm H ₂ < 1 ppm H ₂ O < 3 ppm N ₂ < 10 ppm O ₂ < 3 ppm	99.995%	47AL	227	6	2000	138	120	54	Two-Stage Regulator Q1-318B-(*)	270
		30AL	125	4	1660	115	60	27		
Electronic Grade 1 CH ₄ < 30 ppm CO ₂ < 80 ppm H ₂ < 5 ppm H ₂ O < 5 ppm N ₂ < 40 ppm O ₂ < 5 ppm	99.98%	44	175	5	1660	115	145	66	Two-Stage Regulator Q1-318B-(*)	270
		30AL	125	4	1660	115	60	27		

* Specify CGA. Only brass models are available for these grades.

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Most SCOTT™ gas handling and distribution equipment is available for same-day shipping.