

Carbon Dioxide (CO₂)

A colorless, odorless nonflammable, liquefied gas.

Purity Specifications	Minimum Purity	H ₂ O	THC (C ₁ -C ₆)	THC(C ₁ -C ₂₆)*	Ar +O ₂ +CO	Ar +O ₂	Halocarbons**	N ₂	O ₂
SFE/SFC	99.9999%	< 250 ppb		< 10 ppb			< 1 ppb		
SFE	99.9995%	< 2	< 0.5		< 0.5			< 2	
Ultra Pure	99.9999%	< 2	< 1	< 50 ppb***					
Research	99.999%	< 3	< 1		< 1			< 5	
Pure Clean	99.995%	< 5	< 5						
Instrument/Coleman (coolant)	99.99%	< 10	< 10					< 70	< 20
Anaerobic	99.9%					< 10			
Bone Dry	99.9%	< 10							

Concentrations given are ppm by volume unless otherwise specified.

*Hexadecane
**Hexachlorobenzene
***C₇-C₂₆

PRODUCT	Ordering Information					Equipment Recommendations		
	Cylinder Size	Contents lbs	Standard Valve Outlet (CGA)	Product Number	Cylinder Pressure at 70°F (psig)	Description Product Number	Delivery Pressure Range (psig)	Page Number
SFE/SFC	150A	39	320	CD SFX15AS	835	Cylinder Connection Kit Y99-TP18C320K	N/A	E128
	An individual or batch analysis is available upon request at a nominal charge. Equipped with siphon tube. Up to 2000 psig helium head option available. Certificate of Conformance provided upon request.							
SFE	150A	39	320	CD SFE15AS	835	Cylinder Connection Kit Y99-TP18C320K	N/A	E128
	An individual or batch analysis is available upon request at a nominal charge. Certificate of Conformance provided upon request.							
Ultra Pure	300A	69	320	CD UP3HAS	835	Cylinder Connection Kit Y99-TP18C320K	N/A	E128
	150A	39	320	CD UP15AS	835			
An individual or batch analysis is available upon request at a nominal charge. Certificate of Conformance provided upon request.								
Research	200	65	320	CD R200	835	Two-Stage Regulators Y12-N145 * 320 Y12-244 * 320 Single-Stage Regulators Y11-N145 * 320 Y11-244 * 320	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E14 E11
	150A	39	320	CD R15A	835			
An individual Certificate of Analysis included. Certificate of Conformance provided upon request.								
Pure Clean	200	65	320	CD PC200S	835	Two-Stage Regulators Y12-N145 * 320 Y12-244 * 320 Single-Stage Regulators Y11-N145 * 320 Y11-244 * 320	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E13 E10
	Impurities listed are typical. Total impurities guaranteed < 0.5%. Certificate of Conformance provided upon request.							
Instrument/Coleman (coolant)	200	65	320	CD I200S	835	Two-Stage Regulators Y12-N145 * 320 Y12-244 * 320 Single-Stage Regulators Y11-N145 * 320 Y11-244 * 320	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E13 E10
	80	26	320	CD I80S	835			
An individual or batch analysis is available upon request at a nominal charge. Certificate of Conformance provided upon request. For cooling applications order this product with a dip tube for liquid withdrawal. Add "S" to end of Product Number.								
Anaerobic	200	65	320	CD AN200	835	Two-Stage Regulator Y12-215 * 320 Single-Stage Regulator Y11-215 * 320	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E8
	80	26	320	CD AN80	835			
An individual or batch analysis is available upon request at a nominal charge. Certificate of Conformance provided upon request.								
Bone Dry	200	65	320	CD BD200	835	Two-Stage Regulator Y12-215 * 320 Single-Stage Regulator Y11-215 * 320	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E7
	80	26	320	CD BD80	835			
An individual or batch analysis is available upon request at a nominal charge. Certificate of Conformance provided upon request.								

* Insert Delivery Pressure Range Code
** Single Stage Only

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** Single Stage Only

Technical Data & Shipping Information	
Molecular Weight	44.01
Specific Volume	8.79 cf/lb @70° F
Flammability Limits in Air	Nonflammable
U.S. DOT Name	Carbon Dioxide
ID Number	UN 1013
U.S. DOT Hazard Class	2.2
U.S. DOT Label	Nonflammable Gas
CAS Registry	124-38-0

For LaserPLUS™ Applications, see SA17.

Need Dry Ice? You'll find it with us. Ask your local Airgas representative.



Ask about our unique SFE/SFC Cylinder connection designed specifically for supercritical applications.