

Methane (CH₄)

A colorless, odorless, flammable compressed gas.

Product Specifications	Minimum Purity	O ₂	H ₂ O	CO ₂	CO	C ₂ H ₆	Other HC	H ₂	N ₂	C ₃ H ₈	C ₃ H ₆
Research	99.999%	≤ 1	≤ 2	≤ 2	≤ 1	≤ 5	≤ 1	1	≤ 5	≤ 1	≤ 1
Ultra High Purity (UHP)	99.99%	≤ 5	≤ 5			≤ 20	≤ 20		≤ 70		
Chemically Pure (CP)	99.5%	≤ 50	≤ 10			≤ 1000			≤ 4000		

Concentrations given are ppm by volume unless otherwise specified.

PRODUCT	Ordering Information					Equipment Recommendations		
	Cylinder Size	Contents ft ³	Standard Valve Outlet (CGA)	Product Number	Cylinder Pressure at 70°F (psig)	Description Product Number	Delivery Pressure Range (psig)	Page Number
Research	300	360	350	ME R300	2,400	Two-Stage Regulators Y12-N245 * 350 Y12-244 * 350	A = 0-25 B = 0-50 D = 0-100 *E = 0-150 F = 0-250 *G = 0-500	E21 E12
	200	262	350	ME R200	2,000			
	80	100	350	ME R80	2,000			
	35	40	350	ME R35	2,000			
	Certificate of Analysis is included.							
Ultra High Purity (UHP)	300	360	350	ME UHP300	2,400	Single-Stage Regulators Y11-N245 * 350 Y11-244 * 350	* Only available for the N245 series	E20 E11
	200	262	350	ME UHP200	2,000			
	80	100	350	ME UHP80	2,000			
	35	40	350	ME UHP35	2,000			
	Individual or Batch Certificate of Analysis available upon request.					* Insert Delivery Pressure Range Code		
Chemically Pure (CP)	300	360	350	ME CP300	2,400	Two-Stage Regulators Y12-215 * 350	A = 0-25 B = 0-50 D = 0-100 F = 0-250	E9
	200	262	350	ME CP200	2,000			
	80	100	350	ME CP80	2,000			
	35	40	350	ME CP35	2,000			
	Individual or Batch Certificate of Analysis available upon request.					* Insert Delivery Pressure Range Code		

Technical Data & Shipping Information

Molecular Weight	16.0425
Specific Volume	24.11 cf/lb @70° F & 1 ATM
Flammability Limits in Air	5 - 15% in Air
U.S. DOT Name	Methane, Compressed
ID Number	UN 1971
U.S. DOT Hazard Class	2.1
U.S. DOT Label	Flammable Gas
CAS Registry	74-82-8

Airgas Quality Policy

The purpose of the Airgas Quality System is to continually improve our manufacturing and related processes to provide our customers with the highest product purity, consistency, and service.