

## Methane (CH<sub>4</sub>)

- Other balance gases and cylinder sizes are available upon request.
- Concentrations over 9400 ppm in the Air are provided at reduced pressure and volume.
- Batch Analysis: order quantities of 6 or more cylinders.

Methane in Air			Pricing Reference Number			Equipment Recommendations						
Concentration	Cylinder Size	Contents ft <sup>3</sup>	Primary Standard	Certified Standard	Batch Analysis	Description Product Number	Delivery Pressure Range (psig)	Page Number				
1 - 99 ppm	200	218	AIBPMEA	AIBCMEA	N/A	<b>Two-Stage Regulators</b> Y12-N145 * 590 Y12-244 * 590  <b>Single-Stage Regulators</b> Y11-N145 * 590 Y11-244 * 590	<b>A = 0-25</b> <b>B = 0-50</b> <b>D = 0-100</b> <b>E = 0-150</b> <b>F = 0-250</b> <b>G = 0-500**</b>	E14				
	150A	146	AIEPMEA	AIECMEA	N/A							
	80	86	AICPMEA	AICCMEA	N/A							
	35	34	AIDPMEA	AIDCMEA	N/A							
100 - 999 ppm	200	218	AIBPMEB	AIBCMEB	N/A					E11		
	150A	146	AIEPMEB	AIECMEB	N/A							
	80	86	AICPMEB	AICCMEB	N/A							
	35	34	AIDPMEB	AIDCMEB	N/A							
1000 - 9400 ppm	200	102	AIBPMEC	AIBCMEC	N/A							E13 E10
	80	40	AICPMEC	AICCMEC	N/A							
	35	16	AIDPMEC	AIDCMEC	N/A							
Can not exceed 2.5% in Air and pressure reduced at concentrations over 1% in Air. Primary Standards available for concentrations greater than 5 ppm. Standard Valve Outlet: CGA 590 Certificate of Analysis included.										* Insert Delivery Pressure Range Code ** Single Stage Only		

Methane in Helium			Pricing Reference Number			Equipment Recommendations						
Concentration	Cylinder Size	Contents ft <sup>3</sup>	Primary Standard	Certified Standard	Batch Analysis	Description Product Number	Delivery Pressure Range (psig)	Page Number				
1 - 99 ppm	200	196	HEBPMEA	HEBCMEA	HEBBMEA	<b>Two-Stage Regulators</b> Y12-N145 * 350 Y12-244 * 350  <b>Single-Stage Regulators</b> Y11-N145 * 350 Y11-244 * 350	<b>A = 0-25</b> <b>B = 0-50</b> <b>D = 0-100</b> <b>E = 0-150</b> <b>F = 0-250</b> <b>G = 0-500**</b>	E14 E11				
	150A	132	HEEPMEA	HEECMEA	HEEBMEA							
	80	77	HECPMEA	HECCMEA	HECBMEA							
	35	30	HEDPMEA	HEDCMEA	HEDBMEA							
100 - 9999 ppm	200	196	HEBPMEB	HEBCMEB	HEBBMEB					E13 E10		
	150A	132	HEEPMEB	HEECMEB	HEEBMEB							
	80	77	HECPMEB	HECCMEB	HECBMEB							
	35	30	HEDPMEB	HEDCMEB	HEDBMEB							
1 - 50%	200	199	HEBPMEC	HEBCMEC	HEBBMEC							
	80	79	HECPMEC	HECCMEC	HECBMEC							
	35	31	HEDPMEC	HEDCMEC	HEDBMEC							
Primary Standards available for concentrations greater than 5 ppm. Standard Valve Outlet: CGA 350 Certificate of Analysis included.										* Insert Delivery Pressure Range Code ** Single Stage Only		

## Methane (CH<sub>4</sub>) Cont.

- Other balance gases and cylinder sizes are available upon request.
- Batch Analysis: order quantities of 6 or more cylinders.

Methane in Nitrogen			Pricing Reference Number			Equipment Recommendations		
Concentration	Cylinder Size	Contents ft <sup>3</sup>	Primary Standard	Certified Standard	Batch Analysis	Description Product Number	Delivery Pressure Range (psig)	Page Number
1 - 99 ppm	200	215	NIBPMEA	NIBCMEA	NIBBMEA	<b>Two-Stage Regulators</b> Y12-N145 * 350 Y12-244 * 350	<b>A = 0-25</b> <b>B = 0-50</b> <b>D = 0-100</b> <b>E = 0-150</b> <b>F = 0-250</b> <b>G = 0-500**</b>	E14 E11
	150A	144	NIEPMEA	NIECMEA	NIEBMEA			
	80	85	NICPMEA	NICCMEA	NICBMEA			
	35	33	NIDPMEA	NIDCMEA	NIDBMEA			
100 - 9999 ppm	200	215	NIBPMEB	NIBCMEB	NIBBMEB	<b>Single-Stage Regulators</b> Y11-N145 * 350 Y11-244 * 350	<b>F = 0-250</b> <b>G = 0-500**</b>	E13 E10
	150A	144	NIEPMEB	NIECMEB	NIEBMEB			
	80	85	NICPMEB	NICCMEB	NICBMEB			
	35	33	NIDPMEB	NIDCMEB	NIDBMEB			
1 - 50%	200	220	NIBPMEC	NIBCMEC	NIBBMEC	Y11-N145 * 350 Y11-244 * 350		
	80	87	NICPMEC	NICCMEC	NICBMEC			
	35	34	NIDPMEC	NIDCMEC	NIDBMEC			

Primary Standards available for concentrations greater than 5 ppm.  
 Standard Valve Outlet: CGA 350  
 Certificate of Analysis included.

\* Insert Delivery Pressure Range Code  
 \*\* Single Stage Only

### Technical Data & Shipping Information

Cylinder Pressure	2000 psig
U.S. DOT Class:	
CH <sub>4</sub> in Air, or ≤ 9.18% in Ar, or ≤ 12.0% in He or ≤ 14.3% in N <sub>2</sub>	2.2
CH <sub>4</sub> in H <sub>2</sub> and All Others	2.1
U.S. DOT Label:	
CH <sub>4</sub> in Air, or ≤ 9.18% in Ar, or ≤ 12.0% in He or ≤ 14.3% in N <sub>2</sub>	Nonflammable Gas
CH <sub>4</sub> in H <sub>2</sub> and All Others	Flammable Gas
ID Number:	
CH <sub>4</sub> in Air, or ≤ 9.18% in Ar, or ≤ 12.0% in He or ≤ 14.3% in N <sub>2</sub>	UN1956
CH <sub>4</sub> in H <sub>2</sub> and All Others	UN1954

### Additional Information:

Methane in Argon:  
 For information about ECD Qualified and Nuclear Counter P-5 (5% Methane/Argon) and P-10 (10% Methane/Argon), see the Special Applications section.

Airgas offers a wide range of specialty gas equipment designed especially for specialty gas mixtures.



Pictured: Y12-N145