

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

- Other balance gases and cylinder sizes are available upon request.
- Concentrations over 9400 ppm in Air are provided at reduced pressure and volume.

Methane in Air			Methane in Helium		
Concentration	Cylinder Size	≈Contents ft <sup>3</sup>	Concentration	Cylinder Size	≈Contents ft <sup>3</sup>
0.5 ppm – < 100 ppm	200	218	0.5 ppm – < 100 ppm	200	196
	150A	146		150A	132
	80	86		80	77
	35	34		35	30
100 ppm – < 1000 ppm	200	218	100 ppm – <1%	200	196
	150A	146		150A	132
	80	86		80	77
	35	34		35	30
1000 ppm – 9400 ppm	200	218	> 1%	200	199
	80	86		80	79
	35	34		35	31

Primary Standards for concentrations greater than 1 ppm.  
Standard Valve Outlet: CGA 590  
Individual Certificate of Analysis or Certificate of Batch Analysis included.

Primary Standards for concentrations greater than 1 ppm.  
Standard Valve Outlet: CGA 350  
Individual Certificate of Analysis or Certificate of Batch Analysis included.

Methane in Nitrogen		
Concentration	Cylinder Size	≈Contents ft <sup>3</sup>
0.5 ppm – < 100 ppm	200	215
	150A	144
	80	85
	35	33
100 ppm – < 1%	200	215
	150A	144
	80	85
	35	33
> 1%	200	219
	80	87
	35	34

Primary Standards for concentrations greater than 1 ppm.  
Standard Valve Outlet: CGA 350  
Individual Certificate of Analysis or Certificate of Batch Analysis included.

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



Pictured: Y12-N145

Technical Data & Shipping Information		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.
Cylinder Pressure	2000 psig	
U.S. DOT Class:		
CH <sub>4</sub> in Air, or ≤ 7.7% in Ar*, or ≤ 10.1% 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 ≤ 7.7% in Ar*, or ≤ 10.1% 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 ≤ 7.7% in Ar*, or ≤ 10.1% in He or ≤ 14.3% in N <sub>2</sub>	UN1956	
CH <sub>4</sub> in H <sub>2</sub> and All Others	UN1954	

\*A mixture of 10% methane in argon has been determined by testing to be nonflammable (Table 1: CGA P-23-2008)

Equipment Recommendations are found on page 36