

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

A flammable, colorless, odorless gas.

Purity Specifications	Grade 1.3 93%	Grade 2.0 99%	Grade 2.5 99.5%	Grade 3.0 99.9%	Grade 3.5 99.95%	Grade 3.7 99.97%
Nitrogen	< 5000 ppm	< 3000 ppm	< 2000 ppm	< 200 ppm	< 100 ppm	< 100 ppm
Oxygen	< 1000 ppm	< 750 ppm	< 500 ppm	< 50 ppm	< 20 ppm	< 10 ppm
Other Hydrocarbons	< 7.0 %	< 1.0 %	< 3000 ppm	< 800 ppm	< 400 ppm	< 250 ppm
Moisture	< 10 ppm	< 10 ppm	< 10 ppm	< 5 ppm	< 5 ppm	< 5 ppm
Total Impurities	< 7.0 %	< 1.0 %	< 5000 ppm	< 1000 ppm	< 500 ppm	< 300 ppm

Purity Specifications	Grade 4.0 99.99%	Grade 4.5 99.995%	Grade 5.0 99.999%	Grade 5.5 99.9995%	Grade 6.0 99.9999%
Nitrogen	< 40 ppm	< 20 ppm	< 5 ppm	< 1 ppm	< 0.5 ppm
Oxygen	< 5 ppm	< 5 ppm	< 2 ppm	< 1 ppm	< 0.5 ppm
Ethane	< 60 ppm	< 30 ppm	< 5 ppm	< 3 ppm	< 0.5 ppm
Other Hydrocarbons	< 10 ppm	< 5 ppm	< 2 ppm	< 1 ppm	< 0.5 ppm
Moisture	< 5 ppm	< 5 ppm	< 2 ppm	< 1 ppm	< 0.5 ppm
Total Impurities	< 100 ppm	< 50 ppm	< 10 ppm	< 5 ppm	< 1 ppm

Moisture level guaranteed only when AGT prepares the cylinders.  
All concentrations are on a mol/mol basis unless otherwise stated.  
This product is analyzed gas phase.

Cylinder Size	Fill Weight (lbs)	Fill Volume (scf)
49	15.2	360
44	11.0	260
16	4.0	94
7	2.0	47
29AL	7.4	175

### Technical Data:

Mol. Wt: ..... 16.043  
 Sp. Volume: ..... 23.7 cf/lb  
 Flammability Limits: ..... 5.0 - 15.0% in Air  
 Valve Outlet: ..... CGA 350  
 LB CGA 170 or CGA 350

### Shipping Information:

DOT Name: ..... Methane, Compressed  
 Hazard Class: ..... 2.1  
 DOT No.: ..... UN 1971  
 DOT Label: ..... Flammable Gas  
 CAS No.: ..... 74-82-8