

# PROPANE (C<sub>3</sub>H<sub>8</sub>)

A colorless, flammable, liquefied gas with a faint odor.

Purity Specifications	Grade 2.0 99%	Instrument Grade 2.5 99.5%	Grade 3.0 99.9%	Grade 3.5 99.95%	Grade 4.0 99.99%
Nitrogen	< 800 ppm	< 400 ppm	< 100 ppm	< 30 ppm	< 10 ppm
Oxygen	< 200 ppm	< 100 ppm	< 25 ppm	< 10 ppm	< 2 ppm
Carbon Dioxide	< 200 ppm	< 100 ppm	< 20 ppm	< 10 ppm	< 2 ppm
Propylene	< 800 ppm	< 400 ppm	< 200 ppm	< 50 ppm	< 10 ppm
Other Hydrocarbons	< 9000 ppm	< 4000 ppm	< 900 ppm	< 400 ppm	< 80 ppm
Moisture	< 10 ppm	< 5 ppm	< 5 ppm	< 5 ppm	< 3 ppm
Total Impurities	< 1 %	< 5000 ppm	< 1000 ppm	< 500 ppm	< 100 ppm

Purity Specifications	Grade 4.5 99.995%	Grade 5.0 99.999%
Nitrogen	< 5 ppm	< 2 ppm
Oxygen	< 1 ppm	< 1 ppm
Carbon Dioxide	< 2 ppm	< 1 ppm
Propylene	< 10 ppm	< 2 ppm
Other Hydrocarbons	< 40 ppm	< 8 ppm
Moisture	< 3 ppm	< 2 ppm
Total Impurities	< 50 ppm	< 10 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 liquid phase.

Cylinder Size	Fill Weight (lbs)
1/2 ton	420.0
LP30	100.0
LP15	50.0
LP05	20.0
LP01	5.0
49	45.0
44	40.0
16	14.0
7	6.0

### Technical Data:

Mol. Wt: ..... 44.1  
 Sp. Volume: ..... 8.5 cf/lb  
 Pressure @ 70°F: ..... 109 psig  
 Flammability Limits: ..... 2.1 - 9.5% in Air  
 Valve Outlet: ..... CGA 510  
                                LB CGA 170

### Shipping Information:

DOT Name: ..... Propane  
 Hazard Class: ..... 2.1  
 DOT No.: ..... UN 1978  
 DOT Label: ..... Flammable Gas  
 CAS No.: ..... 74-98-6

## ADVANCED GAS TECHNOLOGIES