

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

Synonyms : n-Propane; Dimethylmethane



## Gas Description

Propane is a colourless, flammable, non-corrosive, non-toxic but slightly narcotic gas with a gas density at STP 1.91 kg/m<sup>3</sup>.

### Typical applications :

Fuel gas for industrial, domestic and analytical applications  
Raw material on organic synthesis  
Refrigerant  
Aerosol propellant  
Carbon carrier in metallurgy  
Nuclear meter counter  
Solvent in gas extraction

### Transport Regulations :

UN Number : 1978  
Shipping Name : PROPANE  
Class : 2.1 : Flammable Gas  
CAS Number : 74-98-6  
Hazchem : 2WE

[Click here](#) for MSDS  
[Click here](#) for more information

## Physical Properties

Chemical symbol : C<sub>3</sub>H<sub>8</sub>  
Molecular weight : 44.10  
Specific gravity (Air=1) : 1.550  
Specific volume (m<sup>3</sup>/kg) : 0.54  
Critical temperature : 97°C  
Boiling point : -42.1°C

Melting Point : -187.7°C  
Critical pressure (bar) : 42.58  
Major hazards : Fire  
Toxicity : Simple Asphyxiant  
Flammability Range: 1.7 - 10.9% ref N°248  
Odour : Faintly Disagreeable

[Click here](#) for more information

## Application

### INDUSTRY

Laboratories and Analysis

### APPLICATION

Propane is used to calibrate environmental emission monitoring, industrial hygiene monitors and trace impurity analyzers.

[Click here](#) for more information

## Propane : Research

Min Purity 99.95%

| <u>Gas</u>                     | <u>Cylinder information</u> |                  |                |                            |
|--------------------------------|-----------------------------|------------------|----------------|----------------------------|
| Typical impurities (ppm molar) | Cylinder Size               | Valve Connection | Pressure (kPa) | Contents (m <sup>3</sup> ) |
|                                | 1                           | CGA 510          | 700            | 27                         |

### Recommended Equipment

Single stage chrome plated brass body regulator with a stainless steel diaphragm.

For further information [Contact](#) the specialty gases representative in your region.

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

Synonyms : n-Propane; Dimethylmethane



## Propane : Instrument Grade

Min Purity 99.5%

| <u>Gas</u>                        | <u>Cylinder information</u> |                  |                |                            |
|-----------------------------------|-----------------------------|------------------|----------------|----------------------------|
| Typical impurities<br>(ppm molar) | Cylinder Size               | Valve Connection | Pressure (kPa) | Contents (m <sup>3</sup> ) |
|                                   | 110                         | CGA 510          | 700            | 45.5                       |
|                                   | 16                          |                  |                | 5.5                        |
|                                   | LB                          | CGA 180          |                | 0.14                       |

### Recommended Equipment

Single stage chrome plated brass body regulator with a stainless steel diaphragm.

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## Propane : CP

Min Purity 99.0%

| <u>Gas</u>                        | <u>Cylinder information</u> |                  |                |                            |
|-----------------------------------|-----------------------------|------------------|----------------|----------------------------|
| Typical impurities<br>(ppm molar) | Cylinder Size               | Valve Connection | Pressure (kPa) | Contents (m <sup>3</sup> ) |
|                                   | 110                         | CGA 510          | 700            | 45.44                      |
|                                   | 16                          | CGA180           |                | 5.5                        |

### Recommended Equipment

Single stage chrome plated brass body regulator with a stainless steel diaphragm.

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