

PROPYLENE (C₃H₆)

Synonyms : Propylene; Methylrthylene; 1-Propylene; Methylethene.
Propene



Gas Description

Propylene is a colourless, flammable, non-corrosive, non-toxic but slightly anesthetic gas with a gas density at STP 1.81 kg/m³.

Typical applications :

Raw material in organic synthesis
Polymers to polypropylene plastics
Fuel gas

Transport Regulations :

UN Number : 1077
Shipping Name : PROPYLENE
Class : 2.1 : Flammable Gas
CAS Number : 115-07-1
Hazchem : 2WE

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

Physical Properties

Chemical symbol : C₃H₆
Molecular weight : 42.08
Specific gravity (Air=1) : 1.476
Specific volume (m³/kg) : 0.587
Critical temperature : 91°C
Boiling point : -47.8°C

Melting Point : -185.3°C
Critical pressure (bar) : 46.1
Major hazards : Fire
Toxicity : Simple Asphyxiant
Flammability Range: 2.20 - 11.0% ref N°251
Odour : Faintly Sweet

[Click here](#) for more information

Application

INDUSTRY

Chemicals

APPLICATION

The uses of propene include blend for gasoline, copolymer for polypropylene, synthesis of isopropanol, trimers and tetramers for detergents, propylene oxide, cumene and glycerine.

Laboratories

Propylene is used in calibration gas mixtures for petrochemical industry; environmental emission monitoring, industrial hygiene monitors and trace impurity analyzers.

[Click here](#) for more information

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Synonyms : Propylene; Methylthylene; 1-Propylene; Methylene.
Propene



AIR LIQUIDE

Propylene : Research

Min Purity 99.9%

<u>Gas</u>	<u>Cylinder information</u>			
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
	1	CGA 510	900	0.3

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.

Propylene : CP

Min Purity 99.0%

<u>Gas</u>	<u>Cylinder information</u>			
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
	110	CGA 510	900	45.3
	55			22.7
	16			5.5
	LB	CGA180		0.14

Recommended Equipment

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

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