

1-BUTENE (C₄H₈)

Synonyms : alpha-Butene; alpha-Butylene; But-1-ene; Butene-1; Ethylethylene; 1-Butylene



Gas Description

1-Butene is a colourless, flammable, non-corrosive, non-toxic and slightly anesthetic gas with a gas density at STP 2.38 kg/m³.

Typical applications :

Chemical intermediate in preparation of a great variety of organic compounds : alcohols, acids and high octane fuels.

Transport Regulations :

UN Number : 1012
Shipping Name : PETROLEUM GASES, LIQUIFIED (1-Butene)
Class : 2.1: Flammable gases
CAS Number : 106-98-9
Hazchem : 2WE

[Click here](#) for MSDS

[Click here](#) for more information

Physical Properties

Chemical symbol : C₄H₈
Molecular weight : 56.11
Specific gravity (Air=1) : 1.998
Specific volume (m³/kg) : 0.42
Critical temperature : 40.35°C
Boiling point : -6.3°C

Melting Point : -185.4°C
Critical pressure (bar) : 40.35
Major hazards : Fire
Toxicity : None Established
Flammability Range : 1.60 - 10% ref N°32
Odour : Slightly Aromatic

[Click here](#) for more information

Application

INDUSTRY

Chemicals

APPLICATION

A co-monomer in the production of high density (HDPE) and linear low density (LLDPE) polyethylene products and for the manufacture of polybutylene.
Butene-1 has good solvent properties.

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1-Butene : CP

Standard Purity 99.0% wt% (Liquid phase)

<u>Gas</u>	<u>Cylinder information</u>			
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
Consult ALA	15	CGA 510	150	17.0
	6			7.0
	2			2.0

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.