

ISOBUTYLENE (C₄H₈)

Synonyms : 2-Methyl-propene; gamma-Butylene; Isobutene; Isobutylene; 1,1-Dimethylethylene; 2-Methylpropene



Gas Description

Isobutylene is also known as Isobutene is a colourless, flammable, slightly toxic and non-corrosive gas with an unpleasant odour and a gas density at STP 2.45 kg/m³.

Typical applications :

Chemical intermediate in the production of butyl rubber and other polymers
Organic synthesis and in the production of high octane aviation fuels

Transport Regulations :

UN Number : 1955
Shipping Name : ISOBUTYLENE
Class : 2.1: Flammable Gases
CAS Number : 115-11-7
Hazchem : 2WE

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

Physical Properties

Chemical symbol : C₄H₈
Molecular weight : 56.11
Specific gravity (Air=1) : 1.997
Specific volume (m³/kg) : 0.42
Critical temperature : 145°C
Boiling point : -7.2°C

Melting Point : NDA
Critical pressure (bar) : 39.94
Major hazards : Fire
Toxicity : None Established
Flammability Range : 1.6% - 1.0% ref N°33
Odour : Coal Gas

[Click here](#) for more information

Application

INDUSTRY

Chemicals

APPLICATION

Isobutylene or Isobutene is the feedstock for production of polybutene (butyl rubber). Isobutene is an intermediate in the manufacturing of methyl tertbutyl ether (MTBE).

[Click here](#) for more information

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Isobutylene; 1,1-Dimethylethylene; 2-Methylpropene



Isobutylene : Research

Min Purity 99.6%

<u>Gas</u>	<u>Cylinder information</u>			
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
Air + CO ₂ + THC + H ₂ O < 5000ppm	1	CGA 510	160	0.4
S < 1ppm				0.2

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.

Isobutylene : 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	160	56.8
	16			7.3

Recommended Equipment

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

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