

ISOBUTANE (C₄H₁₀)

Synonyms : Trimethylmethane; 1,1-Dimethlethane; 2-Methylpropane; iso-butane; i-butane



AIR LIQUIDE™

Gas Description

Isobutane is odourless, colourless, non-toxic, flammable and non-toxic and is considered narcotic with a gas density at STP 2.51 kg/m³.

Typical applications :

Fuel -Aerosol propellant
Solvent
Ionizing particle counters
Refrigerent - Synthesis intermediate
Filling and calibration of temperature and pressure measuring instruments

Transport Regulations :

UN Number : 1969
Shipping Name : ISOBUTANE
Class : 2.1 Flammable Gases
CAS Number : 75-28-5
Hazchem : 2WE

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

Physical Properties

Chemical symbol : C₄H₁₀
Molecular weight : 58.12
Specific gravity (Air=1) : 2.0
Specific volume (m³/kg) : 0.40
Critical temperature : 135°C
Boiling point : -11.7°C

Melting Point : NDA
Critical pressure (bar) : 36.5
Major hazards : Fire
Toxicity : None Established
Flammability Range : 1.3 - 9.8% ref N°29
Odour : Faintly Sweet

[Click here](#) for more information

Application

INDUSTRY

Laboratories and Analysis

APPLICATION

Used in Geiger counters and for the detector in X-Ray Fluorescence (XRF) as quencing gas. Also used as a reagent gas in chemical ionization mass spectrometry.
In mixture with other halocarbons, isobutane is used as a reference point in calorimetric measurements for the measurement of PCI of halocarbons or coal.
Isobutane is used in calibration gas mixtures for the petrochemical industry; environmental emission monitoring, industrial hygiene monitors and trace impurity analyzers.

[Click here](#) for more information

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Isobutane : Insturment Grade

Min Purity 99.5%

<u>Gas</u>		<u>Cylinder information</u>			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
H ₂ O	< 50ppm	110	CGA 350	200	54.5
O ₂	< 800ppm				
THC	< 100ppm				

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.