

# n-BUTANE (C<sub>4</sub>H<sub>10</sub>)

Synonyms : Butane; Butyl hydride



## Gas Description

n-Butane is a colourless, non-corrosive, flammable and slightly toxic gas with a natural gas odour.  
n-Butane has a gas density at STP 2.52 kg/m<sup>3</sup>.

### Typical applications :

Heating fuel  
Reference gas for temperature and pressure calibration  
Raw material for organic chemicals  
Fuel gas for testing gaseous fuels and flame analyzers

### Transport Regulations :

UN Number : 1011  
Shipping Name : BUTANE  
Class : 2.1 Flammable Gases  
CAS Number : 106-97-8  
Hazchem : 2WE

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

## Physical Properties

Chemical symbol : C<sub>4</sub>H<sub>10</sub>  
Molecular weight : 58.12  
Specific gravity (Air=1) : 2.076  
Specific volume (m<sup>3</sup>/kg) : 0.40  
Critical temperature : 152°C  
Boiling point : -0.5°C

Melting Point : NDA  
Critical pressure (bar) : 37.99  
Major hazards : Fire  
Toxicity : TWA 800ppm STEL  
Flammability Range : 1.40 - 9.3% ref N°28  
Odour : Faintly Disagreeable

[Click here](#) for more information

## Application

### INDUSTRY

Laboratories and Analysis

### APPLICATION

Used in calibration gas mixtures for the petrochemical industry; environmental emission monitoring, industrial hygiene monitors and trace impurity analyzers.  
n-butane could be a fuel gas in atomic absorption spectrometry (AAS)

Other

n-butane is used as a propellant for aerosol production.

[Click here](#) for more information

# n-BUTANE (C<sub>4</sub>H<sub>10</sub>)

Synonyms : Butane; Butyl hydride



AIR LIQUIDE

## Butane : Research

Min Purity 99.9%

<u>Gas</u>	<u>Cylinder information</u>			
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m <sup>3</sup> )
	LBX	CGA 510	110	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.

## Butane : Instrument Grade

Min Purity 99.5%

<u>Gas</u>	<u>Cylinder information</u>			
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m <sup>3</sup> )
	L10	CGA 510	110	54.5
	LB			0.2

### Recommended Equipment

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

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## Butane : CP

Min Purity 99.0%

<u>Gas</u>	<u>Cylinder information</u>			
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m <sup>3</sup> )
O <sub>2</sub> < 50ppm	L10	CGA 510	110	54.5
N <sub>2</sub> < 150ppm	LB			0.2
C <sub>4</sub> H <sub>8</sub> < 2500ppm				
C <sub>4</sub> H <sub>10</sub> < 1500ppm				

### Recommended Equipment

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

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