

cis-2-BUTENE (C₄H₈)

Synonyms : cis-Butene 2; cis-Butene 2; cis-1,2-Dimethylethylene;
cis-2-Butene; (Z)-2-Butene



AIR LIQUIDE

Gas Description

cis-2-Butene is a colourless, flammable, non-corrosive, non-toxic and narcotic gas with a gas density at STP 2.46 kg/m³.

Typical applications :

Solvent
Chemical intermediate for organic compounds
Synthesis of high octane gasoline, rubber or plastics

Transport Regulations :

UN Number : 1012
Shipping Name : PETROLEUM GASES,
LIQUIFIED (cis-2-Butene)
Class : 2.1: Flammable gases
CAS Number : 590-18-1
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 : 155°C
Boiling point : -3.7°C

Melting Point : NDA
Critical pressure (bar) : 41.57
Major hazards : Fire
Toxicity : None Established
Flammability Range : 1.60 - 10% ref N°36
Odour : Slightly Aromatic

[Click here](#) for more information

Application

INDUSTRY

Chemicals

APPLICATION

2-Butenes have end uses in the production of butyl rubber. Butene-2 is used as a feedstock for the production of propylene by metathesis or for the production of mixed octenes by butene-2 dimerization. No specific or industrial use has been found.

[Click here](#) for more information

cis-2-Butadiene : CP

Standard Purity 99.0% wt% (Liquid phase)

Gas

Typical impurities
(ppm molar)

trans-2-butene 0.6%

Cylinder information

Cylinder Size

Valve Connection

Pressure (kPa)

Contents (m³)

15

CGA 510

90

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.