

ETHANE (C₂H₆)

Synonyms : Methyl methane, Bymethyl, Dimethyl, Ethyl hydride



Gas Description

Ethane is a colourless, flammable, non-corrosive, non-toxic asphyxiant with a gas density at STP 1.282 kg/m³. Ethane is commonly used in the manufacturing of chemical intermediates and in the manufacturing of calibration mixtures.

Typical applications :

Heat treatment
Fuel gas
Low temperature refrigerent
Raw material in organic synthesis

Transport Regulations :

UN Number : 1035
Shipping Name : ETHANE
Class : 2.1: Flammable gases
CAS Number : 78-84-0
Hazchem : 2PE

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

Physical Properties

Chemical symbol : C₂H₆
Molecular weight : 30.87
Specific gravity (Air=1) : 1.047
Specific volume (m³/kg) : 0.79
Critical temperature : 32°C
Boiling point : -87.7°C

Melting Point : -183.3°C
Critical pressure (bar) : 48.83
Major hazards : Fire
Toxicity : Simple Asphyxiant
Flammability Range : 2.5 - 15.5% ref N°136
Odour : None

[Click here](#) for more information

Application

INDUSTRY

Chemicals

APPLICATION

Ethane is used in the manufacturing of chemical intermediates, eg. by chlorination, ethane produces ethyl chloride.

[Click here](#) for more information

1-Butene : CP

Standard Purity 99.0% wt% (Liquid phase)

Gas		Cylinder information			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
O ₂	<100ppm	49	CGA 350	3,660	15.4
N ₂	<100ppm				
CH ₄	<2000ppm				
C ₃ H ₈	<200ppm				
CO ₂	<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.