

ETHYLENE (C₂H₄)

Synonyms : Ethene



Gas Description

Ethylene is a colourless, flammable, non-toxic, non-corrosive gas with a gas density at STP 1.26 kg/m³.

Typical applications :

Refrigerant
Ripening agent for bananas and citrus fruits
Oxyethylene welding and cutting of metals
Raw material for organic synthesis
reagent for ozone analysis by chemiluminescence

Transport Regulations :

UN Number : 1962
Shipping Name : ETHYLENE, COMPRESSED
Class : 2.1: Flammable gases
CAS Number : 74-85-1
Hazchem : 2PE

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

Physical Properties

Chemical symbol : C₂H₄
Molecular weight : 28.054
Specific gravity (Air=1) : 0.974
Specific volume (m³/kg) : 0.86
Critical temperature : 10°C
Boiling point : -103.8°C

Melting Point : -169.2°C
Critical pressure (bar) : 51.2
Major hazards : High Pressure, Fire
Toxicity : Simple Asphyxiant
Flammability Range : 2.3 - 36% ref N°151
Odour : Sweet

[Click here](#) for more information

Application

INDUSTRY

Food & Beverages

Chemicals

APPLICATION

Ethylene is used to ripen various fruits.

Ethylene is the most important organic chemical. The feedstock in the manufacture of the most important polymer: polyethylene.

[Click here](#) for more information

Ethylene : CP

Standard Purity 99.9%

<u>Gas</u>	<u>Cylinder information</u>			
Typical impurities (ppm molar)	Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
	49	CGA 350	11,000	16.8

Recommended Equipment

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

For further information [Contact](#) the specialty gases representative in your region.