

ETHYLENE OXIDE (C₂H₄O)

Synonyms : Oxirane; Dimethylene oxide; Epoxyethane;
Ethene oxide; Oxacyclopropane; 1-2-Epoxyethane



Gas Description

Ethylene Oxide is a colourless, highly flammable gas but non-corrosive gas with a gas density at STP 1.85 kg/m³.

Typical applications :

Sterilant, fumigant and fungicide gas
Manufacture of ethylene glycol and other organic products such as surfactants, pigments, fibers etc
Rocket propellant

Transport Regulations :

UN Number : 1040
Shipping Name : ETHYLENE OXIDE
Class : 2.3 (2.1) Toxic gases (flammable)
CAS Number : 75-21-8
Hazchem : 2PE

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

Physical Properties

Chemical symbol : C₂H₄O
Molecular weight : 44.047
Specific gravity (Air=1) : 1.52
Specific volume (m³/kg) : 0.548
Critical temperature : 196°C
Boiling point : 10.4°C

Melting Point : -112°C
Critical pressure (bar) : 1.4
Major hazards : Fire
Toxicity : TWA 1ppm STEL
Flammability Range : 2.6 - 100% ref N°153
Odour : NDA

[Click here](#) for more information

Application

INDUSTRY

Pharmaceuticals

Chemicals

APPLICATION

Ethylene oxide/halocarbons or carbon dioxide mixes are a good medical equipment sterilant

Ethylene oxide is an intermediate in the production of ethylene glycol and other chemicals.

[Click here](#) for more information

Ethylene Oxide

Gas

Typical impurities
(ppm molar)

Cylinder information

Cylinder Size

Valve Connection

Pressure (kPa)

Contents (m³)

Available Upon Request
Call For Supply Information

Recommended Equipment

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