

DIETHYL ETHER



CAS Number: 60-29-7

Other Names: Ether, Ethyl ether, Ethoxyethane, Diethyl oxide, Ethyl oxide,
3-Oxapentane, 1,1'-Oxybisethane

Formula: $C_4H_{10}O$

PRODUCT INTRODUCTION

Diethyl ether is an ether in which the oxygen atom is linked to two ethyl groups. It is colorless, volatile, highly inflammable liquid used in industry and biomedical research, and historically important as an anesthetic agent.

PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------|--------------------------------------|
| Appearance | Clear and free from suspended matter |
| Odour | Conform |
| Water | 0.002% |
| Relative Density 20/20°C | 0.715 |
| Acidity | Conform |
| Peroxides | Negative |
| Nessler Test | Negative |
| Diethyl ether | 99.96 % (a/a) |

APPLICATIONS

- Commonly used as a solvent for waxes, fats, oils, perfumes, alkaloids, dyes, gums, resins, nitrocellulose, hydrocarbons, raw rubber, and smokeless powder

- Diethylether is also used as an inhalation anesthetic, a refrigerant, in diesel fuels, in dry cleaning, as an extractant, and as a chemical reagent for various organic reactions.
- "Unrefined" grade is used as component of cold weather starting fluids for diesel and gasoline engines, usually blended with other volatile, flammable materials such as propane and butane.
- Diethylether is most common solvent used for Grignard reactions.

PACKAGING OPTIONS

Drums

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