

CAS Number: 110-71-4

Other Names: Ethylene glycol dimethyl ether; Glyme; Dimethyl Cellosolve;
Egdme; 2,5-Dioxahexane; Glycol dimethyl ether;
Ethylene dimethyl ether

Formula: C₄H₁₀O₂

PRODUCT INTRODUCTION

Monoglyme is an excellent aprotic solvent, which is almost unlimited miscible with water, but also with many organic compounds. It appears like clear liquid with ethereal odour.

PHYSICAL AND CHEMICAL PROPERTIES

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|--------------------|----------------------------------|
| Appearance | Colorless and Transparent Liquid |
| Color (Pt-Co) | 5 |
| Purity | 99.97 % |
| Acidity (as HAC) | 0.0028 % |
| Moisture | 0.022 % |
| Distillation Range | 84.3 – 86.0 °C |

APPLICATIONS

- Monoglyme is used as the low-viscosity component of the solvent for electrolytes of lithium batteries.
- In the laboratory, it is used as a coordinating solvent.
- Monoglyme is often used as a higher boiling alternative to diethyl ether and THF.
- It forms chelate complexes with cations and acts as a bidentate ligand.
- It is often used in organometallic chemistry like Grignard reactions, hydride reductions, and palladium-catalyzed reactions like Suzuki reactions and Stille couplings.
- It is also a good solvent for oligo- and polysaccharides.

PACKING OPTIONS

Drums
