



NOVOLYTE

technologies

Product Data Sheet

Ethylglyme (CAS# 629-14-1)

Ethylene glycol diethyl ether $\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_2\text{OCH}_2\text{CH}_3$

An aprotic glycol diether with active solvency and formulating versatility

Ethyl glyme is unique among ethylene oxide based solvents in that it is aprotic (no hydroxyl functionality). As a result it is a relatively inert solvent with outstanding stability at high pH. The moderate boiling point allows for easy separation from reaction mixtures, and recovery. Used as a solvent for Organometallic reactions involving reductions, alkylations, Grignard and in reactions involving alkali metals. Take advantage of its partial water solubility for efficient purification.

Physical Properties

| | | |
|-------------------|------------------------|-------------------------------------|
| Empirical Formula | | $\text{C}_6\text{H}_{14}\text{O}_2$ |
| Molecular Weight | | 118.18 |
| Boiling Point | (°C 760 mm Hg) | 121 |
| Freezing Point | (°C) | -74 |
| Specific Gravity | (20°C) | 0.8417 |
| Vapor Pressure | (mm Hg/ 20°C) | 9.0 |
| Volatility | (n-butylacetate = 100) | 105 |
| Viscosity | (cp 20°C) | 0.7 |
| Surface Tension | (dynes/cm 20°C) | 23.8 |

Reaction solvent for:

- Organometallics for API synthesis
- Grignard reagents
- Synthesis and reaction of organolithium reagents

| | | |
|---------------------------|------------------|----------|
| Flash Point | (°C, closed cup) | 27 |
| Refractive Index | (20°C) | 1.3922 |
| Appearance | | Clear |
| Odor | | Ethereal |
| Solubility at 25°C | | |
| in water | | 20.4% |
| water in | | 3.3% |

Features

- Aprotic
- Moderate boiling point
- Partially water soluble
- High solvency characteristics
- Excellent thermal and chemical stability
- Refer to MSDS for detailed handling and disposal information
- Use with proper PPE and engineering controls

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