



Product Data Sheet

Ethyl diglyme (CAS: 112-36-7)

Diethylene Glycol Diethyl Ether $\text{CH}_3\text{CH}_2\text{O}-(\text{CH}_2\text{CH}_2\text{O})_2-\text{CH}_2\text{CH}_3$

A polar aprotic glycol diether with active solvency and formulating versatility

Ethyldiglyme has become a favorite solubilizing agent for water-based inkjet inks. Ethyl diglyme 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 chemical and thermal stability. The moderate high boiling point allows for easy separation of products from reaction mixtures and provides the ability to conduct reactions at high temperature. Used as a solvent for Organometallic reactions involving reductions, alkylations and in reactions involving alkali metals.

Physical Properties

Empirical Formula	$\text{C}_8\text{H}_{18}\text{O}_3$
Molecular Weight	162.23
Boiling Point (°C 760 mm Hg)	189
Freezing Point (°C)	-44.3
Specific Gravity (20/20°C)	0.9082
Vapor Pressure (mm Hg/ 20°C)	0.5
Volatility (n-butylacetate = 100)	4
Viscosity (cp 20°C)	1.4
Surface Tension (dynes/cm 20°C)	27.2
Specific Heat (cal/gm°C)	0.41
Auto Ignition temp (°C)	213
Heat of Vaporization (K cal/mole)	10.5
Heat of Combustion (K Cal/mole)	1199
Heat of Formation (K cal/mole)	152
Flash Point (°C, closed cup)	90
Refractive Index (20°C)	1.4115
Appearance	Clear, Colorless
Odor	mild non-residual
Solubility at 25°C	
in water	Complete
water in	Complete

Process solvent

- For formulation of water-based inkjet inks
- Solubilization for textile and printing inks
- Fixing dyes

Reaction solvent

- For manufacture of agrochemicals
- For enhancing rates of nucleophilic substitution
- Enhances yield and selectivity for NaBH_4 reductions

Inks

Strong solvency to formulate stable aqueous inks

Moderate boiling point for delivery to surface and inkjet clogging prevention

Gives sharp characters with long-lasting color

Ethyl Diglyme Offers

- High boiling point
- Water soluble
- High solvency characteristics
- Powerful diluent & cleaner
- Excellent thermal and chemical stability

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