



## Product Data Sheet

**Polyglyme = Polyethyleneglycol dimethylether**  
**Molecular Formula:  $\text{CH}_2\text{O}(\text{CH}_2\text{CH}_2\text{O})_n\text{OCH}_3$  (CAS# 24991-55-7)**

**An aprotic glycol diether with well established use as a gas scrubbing solvent, and as a medium for reactions and separations. Polyglyme is an ethylene oxide based solvent that it is aprotic (no hydroxyl functionality). As a result of its chemical stability, it can function as a solvent in reactions using basic initiators. The high water solubility and high boiling point allow for easy separation from reaction mixtures and recovery. Low VOC by 110C oven test.**

## Physical Properties

Empirical Formula	$\text{C}_n\text{H}_{2n+2}\text{O}_{n/2}$
Molecular Weight	236
Boiling Point (°C 760 mm Hg)	>275
Freezing Point (°C)	-28
Specific Gravity (20/20°C)	1.03
Vapor Pressure (mm Hg/ 20°C)	0.01
Viscosity (cp 20°C)	12
Auto Ignition temp (°C)	230
Flash Point (°C, closed cup)	135
Refractive Index (20°C)	1.3782
Appearance	Clear, Slight yellow
Odor	Ethereal non-residual
<b>Solubility at 25°C</b>	
in water	100%
water in	100%
% VOC 1hr wt loss in 110C over 0.3g	6% (236 MW) 4% (274 MW)

## Acid Gas Scrubbing

- For removal of H<sub>2</sub>S and CO<sub>2</sub> from natural gas or combustion off-gas
- Available with 236 or 274 Mol. Wt.

## Process solvent

- For solvation of polysilicones
- Solvent vehicle for fine chemical syntheses
- Application in cleaning in electronic chips and components

## Reaction solvent

- For anionic polymerizations
- Acting as a polymer swelling agent
- Solvent for reactions run under basic conditions

## Features

- Aprotic
- High boiling point – for ease of separation from gases and lower boiling liquids
- High solvency characteristics
- Powerful diluent
- 97% Minimum; 1000ppm water max
- Low toxicity
- See MSDS for handling and hazard details

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