

Dow Industrial Solutions

Solvent for Hardeners in Waterborne Polyurethane Systems

Aprotic Glycol Diether with Active Solvency & Formulating Versatility

PROGLYDE™ DMM Glycol Diether

For waterborne polyurethane (PU) systems, PROGLYDE™ DMM Glycol Diether is unique among typical propylene oxide-based solvents in that it is aprotic (no hydroxyl functionality). As a result, it is relatively inert and can be used in proton-sensitive systems such as water-based PU coatings. PROGLYDE™ DMM Glycol Diether can also be used to replace NMP (N-Methyl-2-pyrrolidone) in polyurethane dispersion (PUD) production. And with its excellent stability, solvency, and coupling performance, PROGLYDE™ DMM Glycol Diether provides excellent compatibility with a wide range of agricultural formulations and cleaning products.



Key Features:

- Aprotic solvent, no hydroxyl group, and excellent water stability
- Effective viscosity reduction as thinner for isocyanate prepolymers which provides easy handling
- High solvent solubility in water facilitates dispersion of the prepolymer in water
- Acts as a coalescent in the coating formulation for MFFT reduction
- Good affinity with many polymers
- Significant water solubility

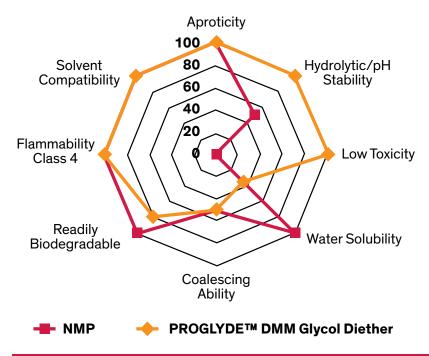
Typical Physical Properties*

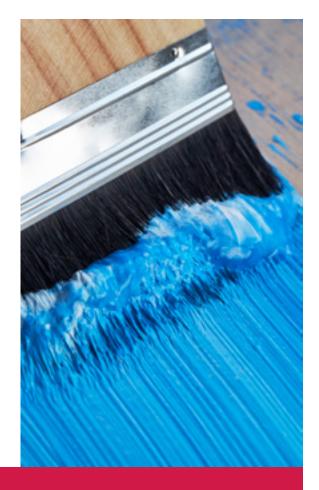
Property	Value			
Molecular Weight (g/mol)	162.23			
Boiling Point @ 760 mmHg	175°C			
Viscosity, cP at 25°C	1.0			
Surface Tension @ 25°C	26.3 dynes/cm			
Evaporation Rate (n-butyl acetate = 100)	13			
Solubility, wt% at 25°C				
Solvent in Water	35 wt%			
Water in Solvent	4.5 wt%			
Hansen Solubility Parameters (joules/cm³)1/2				
Δd (Dispersion)	14.9			
Δp (Polar)	2.1			
Δh (Hydrogen Bonding)	3.8			

^{*}These are typical properties, not to be construed as specifications.

PROGLYDE™ DMM Glycol Diether as NMP Replacement

- Delivers an improved toxicity profile, with comparable biodegradability
- Exhibits increased hydrolytic/pH stability
- Provides comparable aproticity, coalescing ability, flammability, and solvent compatibility





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Dow Industrial Solutions	US		dow.com
	Toll Free	800 441 4DOW	
		989 832 1542	
	International		
	Europe / Middle East	+800 36 94 63 67	
	Italy	+800783825	
	Asia / Pacific	+80077767776	
		+60 37 958 3392	
	South Africa	+800 99 5078	

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