

VIMAL INTERTRADE PVT LTD

E-Mail : marketing@vimalagencies.net

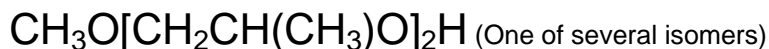
Website : www.vimalagencies.net

DOWANOL Glycol Ether Products

Global Product Information

DOWANOL DPM

Dipropylene Glycol Methyl Ether



A hydrophilic glycol ether with a moderate evaporation rate and excellent coupling abilities.

- [Physical Properties](#)
- [Printer-friendly Downloads, including Material Safety Data Sheet and Sales Specifications](#)

Introduction

DOWANOL* DPM glycol ether is a mid-to slow evaporating solvent. This hydrophilic solvent has 100% water solubility and is ideally suited as a coupling agent in a wide range of solvent systems. DOWANOL DPM has a higher flash point than DOWANOL PM making it easier to handle, store, and ship. Often incorporated into latex emulsion coatings DOWANOL DPM can be used to prevent shocking (coagulation of emulsion) when hydrophobic solvents are used. More broadly, its hydrophilic nature makes it an ideal coupling aid in water reducible coatings, and cleaning applications. DOWANOL DPM glycol ether's intermediate evaporation rate allow it to be used in a potentially wider range of systems than many other solvents.

Suggested Applications

- Coupling agent (often in blends) for water-based dilutable coatings.
- Active solvent for solvent-based coatings.
- Coupling agent and solvent in household and industrial cleaners, grease and paint removers, metal cleaners, and hard surface cleaners.
- Tail solvent for solvent-based gravure and flexographic printing inks.
- Primary solvent in solvent-based silk screen printing inks.
- Coupling agent in solvent blends for water-based gravure, flexographic, and silk screen printing inks.
- Coupling agent and solvent for vat dyeing fabrics.
- Mutual solvent, coupling agent, and emollient in cosmetic formulations.
- Stabilizer for agricultural herbicides.
- Coalescent for floor polishes and finishes.

Features

- Powerful solvency
- High dilution ratio
- Moderate evaporation rate
- Low viscosity
- Coupling ability

- Wide range of applications

NOTE: Consult the appropriate Material Safety Data Sheet for safety and handling guidelines for this product.

Physical Properties *

Molecular weight (g/mol)	148.2	
Boiling point @ 760 mmHg, 1.01 bar	374°F	190°C
Flash point (Tag Closed Cup)	167°F	75°C
Freezing point	-117°F	-83°C
Vapor pressure @ 20°C – extrapolated	0.28 mmHg 0.37 mbar	
Specific gravity (25/25°C)	0.951	
Density @ 20°C	7.95 lb/gal	0.953 g/cm ³
@ 25°C	7.91 lb/gal	0.948 g/cm ³
Viscosity (cP or mPa·s @ 25°C)	3.7	
Surface tension (dynes/cm or mN/m @ 25°C)	28.8	
Specific heat (J/g/°C @ 25°C)	2.25	
Heat of vaporization (J/g) at normal boiling point	267	
Net heat of combustion (kJ/g) – predicted @ 25°C	27.2	
Autoignition temperature	405°F	207°C
Evaporation rate	(n-butyl acetate = 1.0) (diethyl ether = 1.0)	0.035 351
Solubility, g/100 g @ 25°C	Solvent in water Water in solvent	∞ ∞
Hansen solubility parameters (J/cm ³) ^{1/2}	δ _d (Dispersion) δ _p (Polar) δ _h (Hydrogen bonding)	15.5 4.0 11.5
Flammable limits (vol. % in air)	Lower Upper	1.10 14.00

* The physical property data listed here are considered to be typical properties, not specifications.

