Technical Data Sheet



Product Name	DOWANOL™ DPM	
Synonyms	Dipropylene glycol methyl ether.	
Chemical Formula	$CH_3O[CH_2CH(CH_3)O]_2H$	
Product Description	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 glycol ether has a higher flash point than DOWANOL [™] PM glycol ether making it easier to handle, store, and ship. Often incorporated into latex emulsion coatings DOWANOL [™] DPM glycol ether 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.	
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 	
Typical Physical Properties	Property	Value
	Molecular Weight (g/mol)	148.2
	Boiling Point @ 760 mmHg, 1.01 ar	190 °C (374 °F)
	Flash Point (Setaflash Closed Cup	75 °C (167 °F)
	Freezing Point	-83 °C (-117°F)
	Vapor pressure@ 20°C — extrapolated	0.28 mmHg

Vapor pressure@ 20°C — extrapolated	0.28 mmHg	
	37.1 Pa	
Specific gravity (25/25°C)	0.951	
Liquid Density @ 20°C	0.953 g/cm3	
@ 25°C	0.948 g/cm3	
Vapor Density (air = 1)	5.11	
Viscosity (cP or mPa•s @ 25°C)	3.7	
Surface tension (dynes/cm or mN/m @ 20°C)	68.7 @ 1000 mg/L	

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	0.05
Specific heat (J/g/°C @ 25°C)	2.25
Heat of vaporization (J/g) at normal boiling	267
point	
Net heat of combustion (kJ/g) — predicted	27.2
@ 25°C	
Autoignition temperature	207 °C (405 °F)
Evaporation rate (n-butyl acetate = 1.0)	0.035
Solubility, g/100 or % @ 25°C	100%
Solvent in water	
Hansen solubility parameters	
(J/cm ³)1/2	
_d (Dispersion)	15.5
_p (Polar)	4.0
_h (Hydrogen bonding)	11.5
Partition Coefficient, n-octonol/water	1.01
(log Pow)	
Flammable limits (vol.% in air)	
Lower	1.1
Upper	14

Typical Physical Properties:

This data provided for those properties are typical values, and should not be construed as sales specifications.

Classification/Registry Numbers/Country Inventory@.

CAS#	34590-94-8	
AICS (Australia)	34590-94-8	
DSL (Canada)	34590-94-8	
IECSC (China)	34590-94-8	
ECI (Korea)	34590-94-8	
EINECS (EU)	252-104-2	
MITI (Japan)	34590-94-8	
ENCS/ISHL (Japan)	7-97	
NZIoC (New Zealand)	34590-94-8	
PICCS (Philippines)	34590-94-8	
TSCA (U.S.)	34590-94-8	

@NOTE: Classifications apply only to this glycol ether product. It is the responsibility of the formulator to ensure that the final finished product complies with the regulations of a given country prior to its sale or distribution in that country.

How Supplied

REGION	PACKAGING	TRANSPORT MODE
Europe/Africa	Bulk/Drum	Tank Truck
Latin America	Bulk/Drum	Tank Truck
North America	Bulk/Drum	Tank Truck/Tank Car
Pacific	Bulk/Drum	Tank Truck

Product Stewardship

Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including Material Safety Data Sheets, should be consulted prior to the use.



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