



## DOWANOL TPM

Tripropylene Glycol Methyl Ether

$\text{CH}_3\text{O}[\text{CH}_2\text{CH}(\text{CH}_3)\text{O}]_3\text{H}$  (One of several isomers)

**A hydrophilic, slow-evaporating glycol ether with an excellent active solvency and coupling power**

### Introduction

DOWANOL\* TPM glycol ether is an ideal choice when high polymer solvency and extended system residence time are required. It can maintain rheological properties over time in products such as stamp pads and ball point pen inks. Its high boiling and flash points make it an excellent choice for use in oven cleaners, and as a tailing solvent in high-solids, solvent-based coatings.

### Physical properties†

Molecular weight (g/mol)		206.3
Boiling point @ 760 mmHg, 1.01 bar	469°F	243°C
Flash point (Closed Cup)	250°F	121°C
Freezing point	-108°F	-78°C
Vapor pressure@ 20°C — extrapolated		0.01 mmHg 0.02 mbar
Specific gravity (25/25°C)		0.965
Density @ 20°C @ 25°C	8.06 lb/gal 8.03 lb/gal	0.966 g/cm <sup>3</sup> 0.962 g/cm <sup>3</sup>
Viscosity (cP or mPa.s @ 25°C)		5.5
Surface tension (dynes/cm or mN/m @ 25°C)		30.0
Specific heat (J/g°C @ 25°C)		2.12
Heat of vaporization (J/g) at normal boiling point		210
Net heat of combustion (kJ/g) — predicted @ 25°C		27.8
Autoignition temperature	531°F	277°C
Evaporation rate	(n-butyl acetate = 1.0) (diethyl ether = 1.0)	0.0026 >1200
Solubility, g/100 g @ 25°C		
Solvent in water		∞
Water in solvent		∞
Hansen solubility parameters (J/cm <sup>3</sup> ) <sup>1/2</sup>		
<sub>d</sub> (Dispersion)		15.1
<sub>p</sub> (Polar)		3.5
<sub>h</sub> (Hydrogen bonding)		11.5

Flammable limits (vol.% in air)	
Lower	0.7
Upper	14.8

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

## Classification/Registry Numbers††

CAS Number	25498-49-1
AICS (Australia)	25498-49-1
DSL (Canada)	25498-49-1
ECL (Korea)	9212-3913
EINECS (EU)	247-045-4
MITI (Japan)	2-348
TSCA (U.S.)	25498-49-1

†† **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.

### Suggested Applications

- Solvent for stamp pad inks and ballpoint and felt tip writing pen inks.
- Coupling agent and solvent in rust, paint, and varnish removers, hard surface cleaners, and penetrating oils.

### Features

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

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

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