



Product Name DOWANOL™ TPM

Synonyms Tripropylene glycol methyl ether.

Chemical Formula  $\text{CH}_3\text{O}[\text{CH}_2\text{CH}(\text{CH}_3)\text{O}]_3\text{H}$

Product Description DOWANOL™ TPM glycol ether is a hydrophilic, slow-evaporating glycol ether with an excellent active solvency and coupling power. 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.

- 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.
  - Mutual solvent, coupling agent, and emollient in cosmetic formulations.
  - Stabilizer for agricultural herbicides.

Typical Physical Properties

Property	Value
Molecular Weight (g/mol)	206.3
Boiling Point @ 760 mmHg, 1.01 ar	243 °C (469 °F)
Flash Point (Setaflash Closed Cup)	124 °C (255 °F)
Freezing Point	-78 °C (-108 °F)
Vapor pressure@ 20°C — extrapolated	0.01 mmHg 1.7 Pa
Specific gravity (25/25°C)	0.965
Liquid Density @ 20°C	0.965 g/cm3
@ 25°C	0.962 g/cm3
Vapor Density (air = 1)	7.15
Viscosity (mm <sup>2</sup> /s @ 25°C)	5.5
Surface tension (dynes/cm or mN/m @ 20°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	277 °C (531 °F)
Evaporation rate (n-butyl acetate = 1.0)	<0.01
Solubility, g/100 or % @ 25°C	100%
Solvent in water	
Hansen solubility parameters	

(J/cm <sup>3</sup> ) <sup>1/2</sup>	15.1
$\mu_d$ (Dispersion)	3.5
$\mu_p$ (Polar)	11.5
$\mu_h$ (Hydrogen bonding)	
Partition Coefficient, n-octanol/water (log Pow)	0.309
Flammable limits (vol.% in air)	
Lower	0.8
Upper	8.5

**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#	25498-49-1
AICS (Australia)	25498-49-1
DSL (Canada)	25498-49-1
IECSC (China)	25498-49-1
ECI (Korea)	25498-49-1/KE-23313
EINECS (EU)	247-045-4
MITI (Japan)	25498-49-1
ENCS/ISHL (Japan)	7-97
NZIoC (New Zealand)	25498-49-1
PICCS (Philippines)	25498-49-1
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.

**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**

**For More Information**

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(+31) 11567-2626

**Asia-Pacific:**

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(+60) 3-7958-3392

**Latin America:**

(+55) 11-5188-9222

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