

Technical Data Sheet



Product Name	DOWANOL™ PM
Synonyms	Propylene glycol methyl ether; 1-Methoxy-2-propanol.
Chemical Formula	CH₃OCH₂CHOHCH₃ (major isomer)

Product Description DOWANOL™ PM glycol ether is the fastest evaporating solvent in the DOWANOL™ glycol ether family. With very high water solubility and active solvency, DOWANOL™ PM glycol ether is widely used in coating and cleaning applications. It offers better viscosity reduction than heavier molecular weight glycol ethers and is particularly effective in epoxy and high solids acrylic systems. DOWANOL™ PM can also be used in combination with DOWANOL™ PnB glycol ether in glass cleaning formulations.

- Applications**
- Active solvent for solvent-based coatings.
 - Active and tail solvent for solvent based gravure and flexographic printing inks.
 - Coupling agent in solvent blends for water-based gravure, flexographic, and silk screen printing inks.
 - Carrier solvent for ball point and felt tip writing pen inks.
 - Coupling agent and solvent for household and industrial cleaners, rust removers, and hard surface cleaners.
 - Solvent for agricultural pesticides, deactivator and emollient for livestock pesticides.

Typical Physical Properties

Property	Value
Molecular Weight (g/mol)	90.1
Boiling Point @ 760 mmHg, 1.01 ar	120 °C (248 °F)
Flash Point (Setaflash Closed Cup)	31 °C (88 °F)
Freezing Point	-96 °C (-141 °F)
Vapor pressure@ 20°C — extrapolated	8.5 mmHg (1.56 kPa)
Specific gravity (25/25°C)	0.919
Liquid Density @ 20°C	0.921 g/cm3
@ 25°C	0.916 g/cm3
Vapor Density (air = 1)	3.1
Viscosity (cP or mPa•s @ 25°C)	1.7
Surface tension (dynes/cm or mN/m @ 20°C)	70.7
Specific heat (J/g°C @ 25°C)	2.44
Heat of vaporization (J/g) at normal boiling point	435
Net heat of combustion (kJ/g) — predicted @ 25°C	24.7
Autoignition temperature	287 °C (549 °F)
Evaporation rate (n-butyl acetate = 1.0)	0.62
Solubility, g/100 g @ 25°C	Completely miscible
Solvent in water	miscible
Hansen solubility parameters	

(J/cm ³) ^{1/2}	
γ_d (Dispersion)	15.6
γ_p (Polar)	7.2
γ_h (Hydrogen bonding)	13.6
Partition Coefficient, n-octanol/water (log Pow)	0.37
Flammable limits (vol.% in air)	
Lower	1.48
Upper	13.7

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#	107-98-2
AICS (Australia)	107-98-2
DSL (Canada)	107-98-2
IECSC (China)	107-98-2
ECI (Korea)	107-98-2
EINECS (EU)	203-539-1
MITI (Japan)	107-98-2
ENCS/ISHL (Japan)	2-404
NZIoC (New Zealand)	107-98-2
PICCS (Philippines)	107-98-2
TSCA (U.S.)	107-98-2

@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
North America: Toll-free 1-800-447-4369
Europe: Toll-free (+800) 3-694-6367
 (+31) 11567-2626
Asia-Pacific: Toll-free (+800) 7776-7776
 (+60) 3-7958-3392
Latin America: (+55) 11-5188-9222

* International toll free from Austria, Belgium, Denmark, Finland (prefix 990), France, Germany, Hungary, Ireland, The Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom

www.dow.com

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.

NOTICE: No freedom from any patent owned by Seller or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. Seller assumes no obligation or liability for the information in this document. References to "Dow" or "Company" mean The Dow Chemical Company and its consolidated subsidiaries unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

