



Technical Data Sheet

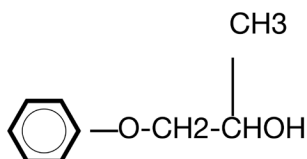
DOWANOL™ PPh Glycol Ether

Synonyms

Propylene glycol phenyl ether.

Sustainability Attribute:

Chemical Formula



Product Description

DOWANOL™ PPh Glycol Ether is a slow-evaporating, very hydrophobic glycol ether ideal in coalescing and carrier solvent applications. DOWANOL™ PPh Glycol Ether is a slow evaporating, very hydrophobic glycol ether — more hydrophobic than would be expected based simply on its molecular weight. This product has low odor. With its aromatic structure, DOWANOL™ PPh Glycol Ether is an excellent match for phenolic coatings and linings; it is also an excellent coalescent for acrylic-based latexes. DOWANOL™ PPh Glycol Ether is also used extensively in dyeing applications, where it can function as both a dye solubilizer and as a dye carrier. DOWANOL™ PPh Glycol Ether has superior viscosity reduction properties in metalworking fluids.

Applications

- Latex coalescent in water-based architectural and industrial coatings.
- Carrier solvent for textile dyes.
- Solvent for inks in ball point and felt tip pens, stamp pads, and textile printing pastes.
- Paint removers.
- Coalescent for latex adhesives.
- Useful in the formulation of homogeneous, stable metalworking fluids.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Properties	Unit	Result
Molecular Weight	g/mol	152.2
Boiling Point @ 760 mmHg, 1.01 bar	°C (°F)	241.2 (466)
Flash Point (Setaflash Closed Cup)	°C (°F)	115 (239)
Freezing Point	°C (°F)	11 (51.8)
Vapor Pressure @ 20°C — Extrapolated	mmHg hPa	< 0.01 0.01
Property	Unit	Result
Specific Gravity (25/25°C)		1.060
Liquid Density @ 20°C	g/cm ³	1.06
Vapor Density (Air = 1)		5.27

Typical Properties (Cont.)

Properties	Unit	Result
Viscosity	cP or mPa•s @ 20°C	34 (22.7 @ 25°C)
Surface Tension	dynes/cm or mN/m @ 20°C	38.1
Specific Heat	J/g/°C @ 25°C)	2.18
Heat of Vaporization at Normal Boiling Point	J/g	319
Net Heat of Combustion — Predicted @ 25°C	kJ/g	30.4
Autoignition Temperature	°C (°F)	480 (896)
Evaporation Rate (N-butyl Acetate = 1.0)		< 0.01
Solubility, g/L or % @ 20°C Solvent in Water	g/L	15.1
Hansen Solubility Parameters	(J/cm ³) ^{1/2}	
_d (Dispersion)		17.4
_p (Polar)		5.3
_h (Hydrogen bonding)		11.5
Partition Coefficient, N-octanol/Water (log Pow)		1.41
Flammable Limits	vol.% in air	
Lower		0.8
Upper		

Classification/ Registry Numbers/Country Inventory¹

CAS#	770-35-4
AICS (Australia)	770-35-4
DSL (Canada)	770-35-4
IECSC (China)	770-35-4
ECI (Korea)	770-35-4/KE-28261
EINECS (EU)	212-222-7
MITI (Japan)	SJE070078
ENCS/IHSL (Japan)	7-78
NZIoC (New Zealand)	770-35-4/HSR003522
PICCS (Philippines)	770-35-4
TSCA (U.S.)	770-35-4

¹NOTE: 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

**Handling
Precautions**

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

**Health and
Environmental
Information**

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com, or consult your local Dow representative.

**Disposal
Considerations**

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

**Product
Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products — from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

dow.com

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