

# Glycol Ether TPM

CAS No. 25498-49-1

Molecular Weight = 206



## Description

*Glycol Ether* TPM is a colorless, combustible liquid with low toxicity. It has very little odor and is completely soluble in water. It has excellent solvency for many polar and non-polar substances. *Glycol Ether* TPM has a very low vapor pressure and may not be considered a VOC under some circumstances of use. *Glycol Ether* TPM is a good substitute for slow evaporating ethylene glycol (E-series) ethers.

## Product Identification

Chemical Name	Methoxy Methyl Ethoxy Methyl Ethoxy Propanol
Chemical Family	Propylene Glycol Ether
Other Names	Tripropylene Glycol Methyl Ether Tripropylene Glycol Mono Methyl Ether TPG Methyl Ether
Chemical Formula	$C_{10}H_{22}O_4$

## Product Specifications

Property	Specifications	Test Method
Specific Gravity @ 25/25°C	0.962-0.970	USP XXI
Distillation @ 760mm Hg IBP, min. DP, max.	236°C 251°C	ASTM D-1078 E-202
Acidity, wt. % as Acetic acid, max.	0.01	ASTM E-202; USP XXI
Water, Wt. %, max.	0.15	ASTM E-202 E-203
Color, APHA, max.	15	ASTM E-202; D-1209

For the most current product specification, please call 1-888-777-0232 or your local sales contact.

## Typical Properties

- Density (pounds per gallon at 25°C) 8.0
- Evaporation Rate (BuAc = 100) < 1
- Flash Point (Tag Closed Cup) °C(°F) >93 (>200)
- Solubility by weight in water at 20°C Complete
- Solubility Parameter (Total Hansen) 9.5
- Surface Tension (Dynes/cm) @ 25°C (77°F) 29
- Refractive Index @ 25°C (77°F) 1.43
- Viscosity (centistokes) @ 25°C (77°F) 5.6
- Vapor Pressure @ 25°C (mm Hg) <0. 1

## Applications

**Coatings:** *Glycol Ether* TPM has very low volatility and evaporates slowly. It is completely water miscible and has good solvency with numerous non-polar substances. It can be blended with faster evaporating solvents to moderate evaporation.

**Cleaners:** Surface tension reduction and slow evaporation are some of the benefits of using *Glycol Ether* TPM in your cleaning formulation.

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TPM has a low odor and slow evaporation rate. It is a good choice for wax strippers and floor cleaners which are spread over a large area. When used in an enclosed area, a floor cleaner containing a fast-evaporating solvent might produce an undesirable amount of solvent vapor.

*Glycol Ether* TPM provides good solvency for polar and non-polar materials.

Other Applications: The properties listed in the previous section also support the use of *Glycol Ether* TPM in agricultural, electronic, ink, textile and adhesive products.

## Storage

General industry practice is to store *Glycol Ether* TPM in carbon steel vessels. Avoid contact with air when storing for long periods of time.

Store only in tightly closed, properly vented containers away from heat, sparks, open flame or strong oxidizing agents. Use only non-sparking tools. Ground containers before beginning transfer. Electrical equipment should conform to national electric code.

Handle empty containers carefully. Combustible residue remains after emptying. Store in properly lined steel or stainless steel to avoid slight discoloration from mild steel. Glycol ethers should never be stored or handled in copper or copper alloys. This product may absorb water if exposed to air.

Undue exposure or spillage should be strictly avoided as a matter of good practice. Refer to the Safety Data Sheet for *Glycol Ether* TPM for more specific information.

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Hazard ratings are summarized as follows:

		<b>NPCAHMIS</b>	<b>NEPA</b>
Health	0	0	
Flammability	1	1	
Reactivity	0	0	
Personal Protection	B	-	

## Material Compatibility Guidelines

Stainless steel is recommended for valves, pumps and filters. *Teflon* is suitable for gaskets. Buna N, butylene polymers and Neoprene are known to swell in contact with *Glycol Ether* TPM. Information from material suppliers and specific conditions of contact should be considered in the selection of suitable materials.

Trippropylene Glycol (Mono) Methyl Ether  
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Users should review the applicable Safety Data Sheet before handling the product.

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