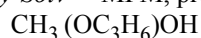




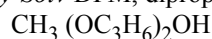
Poly-Solv[®] Propylene Glycol Ethers

Arch offers three propylene glycol monomethyl ethers:

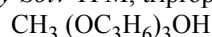
Poly-Solv[®]* MPM, propylene glycol monomethyl ether



Poly-Solv DPM, dipropylene glycol monomethyl ether



Poly-Solv TPM, tripropylene glycol monomethyl ether



These products are colorless liquids having mild, characteristic odors. They are miscible with water and many organic solvents. Because of their mutual solubility, they have found use in paints, varnishes, cutting oils and hydraulic fluids. Specifications and typical physical properties are given in Tables 1 and 2.

Table 1
Specifications

	MPM	DPM	TPM
Acidity, as acetic acid, max (% by weight)	0.005	0.01	0.01
Water, max (% by weight)	0.1	0.1	—
Specific Gravity @ 20/20°C	0.922–0.925	0.953–0.957	0.964–0.976 ^a
Color, max (APHA)	10	15	15
Suspended Matter	S ^b	S	S
Boiling Range @ 760 mm Hg (°C)			
Initial Boiling Point, min	119	180	236
Dry Point, max	125	196	251

^a@ 25/25°C

^b= Substantially free

Applications

Poly-Solv propylene glycol ethers are used in cleaning compounds for aluminum, stainless steel and titanium surfaces. Cleaning with such compounds improves the adhesion of coatings to these metal surfaces.

Table 2
Typical Physical Properties

	MPM	DPM	TPM
Boiling Point @ 760 mm Hg (°C)	120	187	242
Flash Point ^c (°C)	32	78	107
(°F)	89	172	225
Molecular Weight	90.1	148.2	206.3
Pour Point (°C)	–97	–83	–78
Refractive Index, n _D @ 25°C	1.4036 ^d	1.419	1.428
Solubility in Water	Complete	Complete	Complete
Specific Gravity @ 20/20	0.923	0.954	0.969
Vapor Pressure @ 20°C (mm Hg)	12.5	0.4	0.02
Viscosity @ 20°C (cs)	1.9	3.9	6.1

^cPensky Martin Closed Flask Test

^d@ 20°C

Because of its low-temperature properties, *Poly-Solv* TPM glycol ether is used as a component in brake fluids. Aqueous solutions of *Poly-Solv* MPM glycol ether are used in anti-freeze formulations. They are also used as heat transfer fluids.

Storage and Handling

Storage of *Poly-Solv* propylene glycol ethers in mild steel is satisfactory except where color requirements are critical. Protection against discoloration can be achieved by storage in vessels made of steel lined with Lithcote.^e

Shipping Information

Containers: tank cars, tank trucks and non-returnable 55-gallon resin-lined drums (420 lbs net for MPM, 440 lbs net for DPM and TPM).

^eLithcote Company



**Technical
Product
Information**

GLYCOL ETHERS

For More Information

Technical Service

Technical service is available to facilitate further use of *Poly-Solv* glycol ethers. If you have a specific question or need further information, please write or call Organics Technical Service, Arch Chemicals Inc., P.O. Box 547, 2450 Highway 933, Brandenburg, KY 40108-0547; (502) 422-6924 or fax: (502) 422-6909.

How To Order

To place orders for delivery in the U.S. or Canada and to get fast answers on order status or product availabilities, call our toll-free number: (800) 636-3786. (From Kentucky, call (502) 422-6457, collect.)

For written inquiries about orders, and to place confirmations, we have set up a special box number for you. Just address your envelope to Arch Chemicals Inc., P.O. Box 547, Brandenburg, KY 40108-0547.

Please refer to the Material Safety Data Sheet (MSDS) for complete information on Storage and Handling, Toxicological Properties, Personal Protection, First Aid, Spill and Leak Procedures, and Waste Disposal. To order an MSDS, call the Arch sales office listed below or the MSDS Control Group at (800) 511-MSDS. Before using or handling this product, the MSDS should be thoroughly reviewed.

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Sales Office

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