

Glycol Ether PM-EL

Electronic Grade

CAS No. 107-98-2



Description

Glycol Ether PM-EL is a colorless, flammable liquid with low toxicity, having a mild, pleasant odor. It is completely water soluble, miscible with a number of organic solvents, and has good solvency for a number of substances. *Glycol Ether* PM and blends can be used as replacements for ethylene glycol (E-series) ether acetates, particularly EEA and EMA.

Product Identification

- Chemical Name 1-methoxy-2-propanol
- Chemical Family propylene glycol ether
- Other Names propylene glycol methyl ether
1-methoxy-2-hydroxypropane
methoxy propanol
2-methoxy-1-methyl ethanol
- Chemical Formula C₄H₁₀O₂

Typical Purity Levels

Purity, min	99 wt.%
Acidity (Acetic Acid), max	0.01 wt.%
Color, APHA, max	10
β isomer, max	0.5 wt.%
Water, max	0.10 wt.%
Chlorides, Cl, max	500 ppb
Silver, Ag, max	50 ppb
Aluminum, Al, max	50 ppb
Gold, Au, max	50 ppb
Calcium, Ca, max	50 ppb
Cadmium, Cd, max	50 ppb
Chromium, Cr, max	50 ppb
Copper, Cu, max	50 ppb
Iron, Fe, max	50 ppb
Mercury, Hg, max	50 ppb
Potassium, K, max	50 ppb
Magnesium, Mg, max	50 ppb
Manganese, Mn, max	50 ppb
Sodium, Na, max	50 ppb
Nickel, Ni, max	50 ppb
Lead, Pb, max	50 ppb
Zinc, Zn, max	50 ppb

Please contact customer service for the most up to date specifications at 1-888-777-0232.

Application

In the electronics market, *Glycol Ether* PM-EL is used in conjunction with other solvents (like DMF and/or acetone) in the manufacture of laminates for printed circuit boards. Additionally, *Glycol Ether* PM-EL may be used in the cleaning and removal of solder flux and masks, and in blends as an edge bead remover.

Physical Properties

Vapor Pressure, mm Hg @ 25°C	12.6
Evaporation Rate (BuAc=100)	66
Boiling Point (@ 760 mm Hg)	117°C
Flash Point (TCC)	32°C /89°F
Specific Gravity (25/25°C)	0.9195

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**Product Quality Commitment**

As the semiconductor industry continually reduces chip architecture, Lyondell Chemical has maintained high purity wet process chemicals to support the emerging technology. With high purity and metal levels below 50 ppb, *Glycol Ether* PM-EL is well suited for electronics applications.

Lyondell Chemical Company is committed to quality and customer service. With production and shipment facilities worldwide, order fulfillment is but a phone call away. In addition our customer service and technical staff are always available to provide you assistance. In the US, please call 1-888-777-0232.

Storage

General industry practice is to store *Glycol Ether* PM 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. Flammable, 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.

Safety and Handling

Glycol Ether PM has a flash point of 89°F. It is a flammable liquid as defined under SARA Title III, section 311/312 hazard category, but is not subject to the reporting requirements of SARA Title

111, section 313. Undue exposure or spillage should be strictly avoided as a matter of good practice. Refer to the Material Safety Data Sheet for *Arcosolv* PM for more specific information.

Hazard ratings are summarized as follows:

	<u>NPCAHMIS</u>	<u>NFPA</u>
Health	1	0
Flammability	3	3
Reactivity	0	0
Personal Protection	B*	

*Personal protection recommendation should be made with consideration of specific work place conditions.

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Users should review the applicable Safety Data Sheet before handling the product.

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Propylene Glycol (Mono) Methyl Ether

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