EASTMAN

Technical Data Sheet

Eastman™ PM Solvent

Applications

- Architectural coatings
- Auto oem
- Auto refinish
- Automotive
- Building materials
- Commerical printing inks
- General industrial coatings
- Graphic arts
- Janitorial & household cleaners
- Marine
- Paints & coatings
- Protective coatings
- Wood coatings

Key Attributes

- Excellent solvent activity
- Good coupling efficiency
- High dilution ratio
- Inert - Food use with limitations
- Inert - Nonfood use
- Medium evaporation rate
- Miscible with water and most organic liquids
- Non-HAP
- Non-SARA
- Readily biodegradable

Product Description

Eastman™ PM Solvent (Propylene Glycol Monomethyl Ether), a medium-boiling glycol ether, is an active solvent for cellulose acetate butyrate, nitrocellulose, epoxy, phenolic, acrylic, and alkyd resins. It is used in a variety of coating, printing ink, and cleaning applications.

The chemical substances for this product are listed as Inert Ingredients Permitted for Use in Nonfood Use Pesticide Products, and in Food Use Pesticide Products with limitations, under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). For details on specific permissions, click here .

Typical Properties

Property	Typical Value, Units
General	
Acidity as Acetic Acid	 0.01 wt % max.
Assay	99.0 wt % min.
Autoignition Temperature	277 °C (530 °F)
Blush Resistance @ 80°F (26.7°C)	 56 % RH
Boiling Point @ 760 mm Hg Initial	 121 °C (248 °F)
Color Pt-Co	 10 max.
Critical Pressure	42.8 ATM
Critical Temperature	279.7 °C
Critical Volume	291.5 ml/g·mol
Dilution Ratio Toluene VMP Naphtha	 5.2 0.9
Electrical Resistance	0.4 Megohms
Empirical Formula	$C_4H_{10}O_2$

Evaporation Rate	
(ether = 1)	17.3
(n-butyl acetate = 1)	0.7
Expansion Coefficient, per °C	
@ 20°C	0.00122
Flash Point	
Tag Closed Cup	33 °C (91 °F)
Freezing Point	-95 °C (-139 °F)
Hansen Solubility Parameters	
Hydrogen Bonding	5.7
Nonpolar	7.6
Polar	3.1
Total	10
Heat of Combustion	-556.3 kcal/g·mol
Heat of Vaporization	10937 cal/g·mol
Liquid Heat Capacity	
@ 25°C	47.69 cal/(g*mol)(°C)
Liquid Viscosity	
@ 20°C	1.9 cP (mPa·s)
Maximum Incremental Reactivity (MIR)	2.62
Molecular Weight	90.1
Nitrocellulose Solubility	Active
Refractive Index	
@ 20°C	1.4036
Solubility	
in Water, @ 20°C	Complete
Water in, @ 20°C	Complete
Specific Gravity	
@ 20°C/20°C	0.923
Surface Tension	
@ 25°C	28.3 dynes/cm
TLV PPM 1998	100
Vapor Density	
(air = 1)	3.1
Vapor Pressure	
@ 20°C	8 mm Hg
@ 55°C	8.1 kPa
Viscosity	
@ 20°C	1.9 cP
Wt/Vol	
@ 20°C	0.92 kg/L (7.69 lb/gal)

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.