



METHYL PROXITOL ACETATE

Propylene Glycol Monomethyl Ether Acetate

Chemical Formula: $\text{CH}_3\text{-O-CH}_2\text{-CH(CH}_3\text{)-O-C(O)-CH}_3$

CAS Registry Number: 108-65-6

Molecular Weight: 132

PRODUCT INFORMATION

Synonyms:

- 1-METHOXY 2-PROPYL ACETATE
- 1-METHOXY-2-ACETOXYPROPANE
- 1-Methoxy-2-Propanol Acetate
- 1-Methoxy-2-propanol, acetate
- 1-Methoxy-2-propyl acetate
- 1-METHOXY-PROPYL-2-ACETATE
- 2-ACETOXY-1-METHOXYPROPANE
- 2-methoxy-1-methylethyl acetate
- 2-Methoxy-1-methylethylacetat
- 2-METHOXYPROPYL ACETATE
- 2-Propanol, 1-methoxy-, 2-acetate
- 2-Propanol, 1-methoxy-, acetate
- 2-Propanol, 1-methoxy-, acetate (
- Acetate de 2-methoxy-1-methylethyle
- ACETATE, 1-METHOXY-2-PROPYL
- acetato de 1-metil-2-metoxietilo
- ESSIGSAEURE-(1-METHOXY-2-PROPYL)-ESTER
- KR 20
- NSC 2207
- PGMEA
- PROPYLENE GLYCOL 1-METHYL ETHER 2-ACETATE
- PROPYLENE GLYCOL METHYL ETHER ACETATE
- Propylene glycol monomethyl ether acetate
- PROPYLENGLYCOL MONO-METHYL ETHER ACETATE

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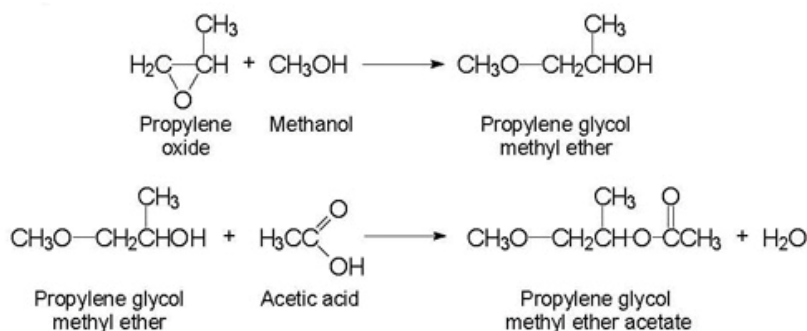
Description

Methyl PROXITOL Acetate is a colourless, neutral propylene oxide-based glycol ether acetate with a mild odour and a volatility, viscosity and solvent power similar to those of ethylene glycol-based glycol ether acetates, e.g. methyl and ethyl OXITOL acetates.

Typical Properties			
Property	Unit	Method	Value
Purity	%m/m	DIN 55689	Min 99.5
Water	%m/m	ASTM D1364	0.02
Density @20°C	Kg/L	ASTM D4056	0.967
Cubic Expansion Coefficient @20°C	(10 ⁻⁴)/°C	Calculated	10
Refractive Index @20°C	-	ASTM D1218	1.403
Color	Pt-Co	ASTM D1209	5
Boiling point	°C	-	146
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.33
Relative Evaporation Rate (Ether=1)	-	DIN 53170	34
Antoine Constant A #	kPa, °C	-	6.02968
Antoine Constant B #	kPa, °C	-	1353.82
Antoine Constant C #	kPa, °C	-	192.628
Antoine Constants: Temperature range	°C	-	0 to +150
Vapor Pressure @20°C	kPa	Calculated	0.46
Vapor Pressure @50°C	kPa	Calculated	2.8
Saturated Vapor Concentration @20°C	g/m ³	Calculated	25
Flash Point	°C	IP 170	45
Auto Ignition Temperature	°C	ASTM E659	315
Explosion Limit: Lower	%v/v	-	1.5
Explosion Limit: Upper	%v/v	-	7.0
Electrical Conductivity @20°C	µS/m	ASTM D4308	0.2
Dielectric Constant @20°C	-	-	8.3
Freezing Point °C	-	-	65
Surface Tension @20°C	mN/m	-	28
Viscosity @20°C	mPa.s	ASTM D445	1.3
Hildebrand Solubility Parameter	(cal/cm ³) ^½	-	8.5
Hydrogen Bonding Index	-	-	10
Fractional Polarity	-	-	0.090
Dilution Ratio: Toluene	-	ASTM D1720	2.5
Dilution Ratio: SBP 100/140	-A	STM D1720	0.4
Heat of Vaporization @Tboil	kJ/kg	-	302
Heat of Combustion (Net) @25°C	kJ/kg	-	24000
Specific Heat @20°C	kJ/kg/°C	-	1.8



Thermal Conductivity @20°C	W/m/°C	-	0.13
Miscibility @20°C: Solvent in Water	% m/m	-	23
Miscibility @20°C: Water in Solvent	% m/m	-	5.5
Azeotrope with Water: Boiling Point	°C	-	98.3
Azeotrope with Water: Solvent Content	% m/m	-	51.5
Molecular Weight	g/mol	-	132
(#) In the Antoine temperature range, the vapor pressure P (kPa) at temperature T (°C) can be calculated by means of the Antoine equation: $\log P = A - B/(T+C)$			



Propylene glycol ethers are manufactured in closed, continuous system . Produced by the reacting Propylene glycol monomethyl ether (PM) with acetic acid.

Applications

Methyl PROXITOL acetate is widely used in the surface coatings industry as a solvent and to regulate flow and coalescence. It is also used in wood stains, printing inks, adhesives, cleaners, polishes and other household products.

Test Methods

Methyl PROXITOL Acetate can be supplied to meet the requirements of ASTM D4835, BS 509 and DIN 53247.

Quality

Methyl PROXITOL acetate is manufactured to the highest standards. It does not contain detectable quantities of heavy metals, chlorinated compounds or polycyclic aromatic hydrocarbons.

Composition

Provided proper storage and handling precautions are taken we would expect Methyl PROXITOL acetate to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Material Safety Data Sheet.



Storage and Handling

For detailed Hazard Information please refer to the Material Safety Data Sheet.