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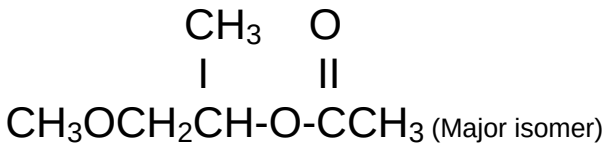
DOWANOL Glycol Ether Products

Global Product Information

DOWANOL PMA

Propylene Glycol Methyl Ether Acetate



$CH_3OCH_2CH\text{-}O\text{-}CCH_3$ (Major isomer)

A relatively fast-evaporating, moderately hydrophobic glycol ether with low viscosity and excellent properties for solvent-borne systems.

- Physical Properties
- Printer-friendly Downloads, including Material Safety Data Sheet and Sales Specifications

Introduction

DOWANOL* PMA glycol ether has the lowest viscosity of the entire line of DOWANOL glycol ethers (1.1 centipoise 25°C), and it provides superb viscosity reduction. The remaining OH group in the glycol ether molecule is capped with an acetate group, which reduces its polarity and reduces the solvents viscosity. The acetate group also eliminates the reactive hydrogen from the OH group found in other glycol ethers; thus, DOWANOL PMA glycol ether is an excellent solvent choice for urethanes and other proton-sensitive systems. DOWANOL PMA glycol ether is a relatively fast-evaporating glycol ether, and it sets a performance standard in high-solids, solvent-borne systems. It provides excellent active solvency for a very wide range of resin types, including acrylics, epoxies alkyds, polyesters, and many others.

Suggested Applications

- Active solvent for solvent-based coatings.
- Active solvent for solvent-based silkscreen printing inks.
- Aprotic solvent in coating systems where OH reactivity is unwanted (e.g. PU/isocyanate and epoxy).

Features

- Powerful solvency
- High dilution ratio
- Moderate evaporation rate
- Viscosity control

NOTE: Consult the appropriate Material Safety Data Sheet for safety and handling guidelines for this product.

Physical Properties *

Molecular weight (g/mol)	132.2	
Boiling point @ 760 mmHg, 1.01 bar	295°F	146°C
Flash point (Tag Closed Cup)	108°F	42°C
Freezing point	-87°F	-66°C
Vapor pressure @ 20°C – extrapolated	2.8 mmHg 3.7 mbar	
Specific gravity (25/25°C)	0.966	
Density @ 20°C	8.08 lb/gal	0.968 g/cm^3
@ 25°C	8.04 lb/gal	0.963 g/cm^3
Viscosity (cP or mPa·s @ 25°C)	0.8	
Surface tension (dynes/cm or mN/m @ 25°C)	26.9	
Specific heat (J/g/°C @ 25°C)	1.85	
Heat of vaporization (J/g) at normal boiling point	296	
Net heat of combustion (kJ/g) – predicted @ 25°C	23.8	
Autoignition temperature	631°F	333°C
Evaporation rate	(n-butyl acetate = 1.0) (diethyl ether = 1.0)	0.33 37
Solubility, g/100 g @ 25°C	Solvent in water Water in solvent	19 (16 wt %) 3.5 (3 wt %)
Hansen solubility parameters (J/cm^3)$^{1/2}$	δ_d (Dispersion) δ_p (Polar) δ_h (Hydrogen bonding)	16.1 6.1 6.6
Flammable limits (vol. % in air)	Lower Upper	1.50 7.00

* The physical property data listed here are considered to be typical properties, not specifications.