



Product Name Methoxytriglycol

Synonyms Triethylene glycol monomethyl ether.

Chemical Formula $\text{CH}_3(\text{OCH}_2\text{CH}_2)_3\text{OH}$

Product Description Methoxytriglycol is a low-volatility, high solvency glycol ether with excellent coupling properties. The versatility of Methoxytriglycol (triethylene glycol monomethyl ether) is demonstrated by the variety of applications in which it may find use. The low volatility and excellent solvency makes this glycol ether an effective carrier solvent for textile dye processes. With superior surface tension characteristics, water solubility and solvency for oils, it has potential for use in household, institutional, industrial and special-purpose cleaners. The coupling ability of this product enhances performance and improves shelf stability of cleaning products.

- Applications
- Active solvent for solvent-based coatings.
 - Dye carrier for textile dye processes.
 - Coupling agent and solvent in household and industrial cleaners, paint and floor polish strippers, hard surface cleaners, and disinfectants.
 - Chemical process solvent and intermediate for ester production
 - Coupling agent for resins and dyes in water-based printing inks.
 - Component of high-boiling hydraulic brake fluids.

Typical Physical Properties

Property	Value
Molecular Weight (g/mol)	164.2
Boiling Point @ 760 mmHg, 1.01 ar	249 °C (181 °F)
Flash Point (Setaflash Closed Cup	110 °C (230 °F)
Freezing Point	-44 °C (-47°F)
Vapor pressure@ 25°C — extrapolated	<0.01 mmHg (0.001 kPa)
Specific gravity (20/20°C)	1.050
Liquid Density @ 20°C	1.05 g/L (8.74 lb/gal)
Vapor Density (air = 1)	5.67
Viscosity (cP or mPa·s @ 25°C)	7.3
Surface tension (dynes/cm or mN/m @ 20°C)	36.4 (neat product) 53.1 (25% aq sol'n)
Specific heat (J/g°C @ 25°C)	2.19
Heat of vaporization (J/g) at normal boiling point	301.1
Net heat of combustion (kJ/g) — predicted @ 25°C	23.9
Autoignition temperature	210 °C (410°F)
Evaporation rate (n-butyl acetate = 1.0)	0.01
Solubility, % @ 25°C	
Solvent in water	100 %

Hansen solubility parameters	
(J/cm ³) ^{1/2}	
σ_d (Dispersion)	15.8
σ_p (Polar)	8.2
σ_h (Hydrogen bonding)	10.9
Partition Coefficient, n-octanol/water (log Pow)	
	-1.12
Flammable limits (vol.% in air)	
Lower	1.3
Upper	9.9

Typical Physical Properties:

This data provided for those properties are typical values, and should not be construed as sales specifications.

Classification/Registry Numbers/Country Inventory@.

CAS#	112-35-6
AICS (Australia)	112-35-6
DSL (Canada)	112-35-6
IECSC (China)	112-35-6
ECI (Korea)	112-35-6/KE-23279
EINECS (EU)	203-962-1
MITI (Japan)	112-35-6
ENCS/ISHL (Japan)	2-442
NZIoC (New Zealand)	112-35-6
PICCS (Philippines)	112-35-6
TSCA (U.S.)	112-35-6

@NOTE: Classifications apply only to this glycol ether product. It is the responsibility of the formulator to ensure that the final finished product complies with the regulations of a given country prior to its sale or distribution in that country.

How Supplied

REGION	PACKAGING	TRANSPORT MODE
Europe/Africa	Bulk/Drum	Tank Truck
North America	Bulk	Tank Truck/Tank Car

Product Stewardship

Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including Material Safety Data Sheets, should be consulted prior to the use.

For More Information

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