

Glycol Monomethyl Ether

Ethylene Glycol Monomethyl Ether (EM):

CAS: 109-86-4 Chemical Formula: $\text{CH}_3\text{OCH}_2\text{CH}_2\text{OH}$

Diethylene Glycol Monomethyl Ether (DM):

CAS: 111-77-3 Chemical Formula: $\text{CH}_3\text{OCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OH}$

Polyethylene Glycol Monomethyl Ether (TM):

Chemical Formula: $\text{CH}_3\text{O}(\text{C}_2\text{H}_4\text{O})_n\text{H}$ n=3~4

Product Specification

Product: Methoxy Polyethylene Glycols (MPEG)

Formula: $\text{CH}_3\text{O}(\text{C}_2\text{H}_4\text{O})_n\text{H}$, n=22~45

Molecular weight: 1000~2000

CAS number: 9004-74-4

Technical Index

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| Item | EM | DM | NPEG |
|--|----------------------------------|----------------------------------|------------------|
| Appearance | Colorless and transparent liquid | Colorless and transparent liquid | White waxy solid |
| Purity \geq %(GC) | 99.5 | 99.0 | / |
| Water Content \leq %(KF) | 0.1 | 0.1 | 0.5 |
| Distillation Range(760mmHg) $^{\circ}\text{C}$ | 123.5~127.0 | 191.0~198.0 | / |
| Specific Gravity (d_4^{20}) | 0.9646 \pm 0.005 | 1.0210 \pm 0.005 | / |
| Color (Pt-Co) \leq | 10 | 15 | 50 |

Application

EM is mainly used as solvent for grease, nitrocellulose, synthetic resin, alcoholate dyestuff and vinylcellulose. In coating industry, it can be used as varnish dryer and coating diluent. In printing and dyeing industry, it can be used as osmosis reagent and leveling agent. It also can be used as additive in fuel industry and dyestuff in textile industry and as organic synthesis intermediate.

DM is mainly used as high-boiling point solvent for printing ink, dyestuff, resin, cellulose and painting. It makes paint easily flow, cover and flow flat when put it into paint. It also can be used as extraction of hydrocarbon and the ester derivative intermediate in synthetic industry. And it can be used as chemical reagent in analysis chemistry.

MPEG is mainly used as water-reducing admixture in concrete.

Package:

190KGS, 200KGS/Iron Drum for EM, 200KGS/Iron Drum for DM, 220 KG/Iron Drum for MPEG.

Storage and Transportation:

Store in cool, dry well-ventilated location, for EM transport as hazard chemicals, while the DM and TM transport as common chemicals.