

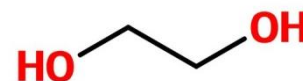
MONOETHYLENE GLYCOL



1,2-ethanediol; Ethylene glycol (MEG)

CAS Number: **107-21-1**

Formula: C₂H₆O₂



DESCRIPTION:

Monoethylene glycol is a clear, colorless and hygroscopic liquid, with moderately viscous. It is completely miscible with water and many organic liquids.

APPLICATION:

Monoethylene glycol (MEG) is most commonly used as chemical intermediate in the manufacture of polyester resins and textile fibers. MEG is also widely used as automotive antifreeze due to its low freezing point when mixed with water and used as heat transfer fluids for ventilation and air-conditioning systems.

<u>Sample</u>		<u>Sample ID, Type & Description</u>				
632-23-07850-002		SHT 1811				
<u>Method</u>	<u>Test</u>	<u>Min</u>	<u>Max</u>	<u>Result</u>	<u>Units</u>	<u>Remarks</u>
ASTM E2409	Monoethylene Glycol	99.9		99.96	%wt	
ASTM E2409	Diethylene Glycol		0.05	< 0.05	%wt	
ASTM E1064	Water Content		0.05	0.012	%wt	
ASTM E2313	Aldehydes as Formaldehyde		10	1.8	mg/kg	
ASTM E1615	Iron		0.1	< 0.010	ppmw	
ASTM E2469	Chloride		0.2	0.02	mg/kg	
ASTM D1613	Acidity as Acetic Acid		20	1	mg/kg	
ASTM E2193	Ultraviolet Transmittance of Monoethylene Glycol					
	Transmittance @ 220 nm by UV	70		80.1	%	
	Transmittance @ 250 nm by UV	85		96.3	%	
	Transmittance @ 275 nm by UV	90		97.4	%	
	Transmittance @ 350 nm by UV	98		100.0	%	
ASTM D4052	Specific Gravity 20/20°C	1.1151	1.1156	1.1153		
ASTM D1209	Platinum Cobalt Color		5	< 5		
Visual Appearance	Appearance			Clear and free from suspended matter		
ASTM D1078	Distillation Range of Volatile Organic Liquids					
	5%	196		197.1	°C	
	95%		199	197.7	°C	
ASTM D482!!	Ash Content		10	< 10	mg/kg	

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