

PRODUCT DATA SHEET

ETHYLENE GLYCOL POLYESTER GRADE

Produced using technology licensed by The Dow Chemical Company.

CHEMICAL DESCRIPTION:

Name : Monoethylene Glycol

CAS number : 107-21-1

Formula : C₂H₆O₂

Monoethylene glycol is a colorless, practically odorless, low-volatility, low-viscosity, hygroscopic liquid. It is completely miscible with water and in many organic liquids. MEG is mainly used in the production of polyester, polyethylene terephthalate (PET) and antifreeze solutions. Its hygroscopicity makes it useful as a conditioning agent in adhesives, cork, vinyl floor tiles, synthetic rubber, cellulose sponges, printing inks and paper products.

APPLICATIONS:

- Plasticizers
- Solvents Coupler
- Humectants
- Antifreeze additive
- Heat transfer agents or fluids
- Polyester & PET
- Unsaturated polyester resins
- Chemical intermediates

TYPICAL PROPERTIES:

Physical Property*	Units	Typical Value
Molecular Weight	g/mol	62
Boiling Point @ 760 mm Hg	°C	197
Vapor Pressure @ 20°C	mmHg	0.06
Specific Gravity @ 20/20°C	-	1.115
Freezing Point	°C	-11.2
Viscosity @ 20°C	cP	19.8
Surface Tension @ 25°C	dynes/cm	48
Refractive Index @ 20°C,	nD	1.43
Evaporation Rate (Butyl Acetate=1)	-	0.01
Solubility in Water @ 20°C	wt%	100
Electrical Conductivity @ 20°C	micromhos/cm	1.07
Iron	ppm , max	0.10
Chlorides	ppm , max	0.2
UV Transmittance @ 220nm	%T, min	70
UV Transmittance @ 250nm	%T, min	90
UV Transmittance @ 275nm	%T, min	94
UV Transmittance @ 350nm	%T, min	98

*These properties are typical but do not constitute specifications.

FOR MORE INFORMATION

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