

MILES® ETHYLENE GLYCOL

Industrial Grade

Product Data Sheet**PRODUCT DESCRIPTION**

Miles® Ethylene Glycol Industrial Grade is a high-purity, versatile glycol designed for a broad range of industrial and commercial applications. It is a clear, colorless, hygroscopic liquid with low volatility, excellent water solubility, and strong heat-transfer and solvent characteristics.

Ethylene Glycol Industrial Grade is commonly utilized as a heat-transfer fluid, antifreeze/coolant component, chemical intermediate, and raw material in numerous industrial formulations.

Chemical Name: 1,2-Ethanediol / Ethylene Glycol (MEG)**CAS Number:** 107-21-1**Chemical Formula:** C₂H₆O₂**Molecular Weight:** 62.07 g/mol**TYPICAL APPLICATIONS**

Miles® Ethylene Glycol Industrial Grade is suitable for use in applications including:

- Industrial heat-transfer fluids
- Automotive and industrial antifreeze/coolant formulations
- Deicing and anti-icing formulations
- Unsaturated polyester resins and PET intermediates
- Paints and coatings
- Liquid detergents and cleaners
- Chemical intermediates
- Industrial solvents and coupling agents
- Electrolytic capacitor manufacturing
- General industrial processing

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Appearance	Clear, colorless liquid
Ethylene Glycol Purity	≥ 99.5%
Molecular Weight	62.07 g/mol
Boiling Point @ 1 atm	197–198°C (387–388°F)
Freezing Point	-12°C to -13°C (9–10°F)
Specific Gravity @ 20/20°C	1.115
Viscosity @ 20°C	19.83 mPa·s (cP)
Viscosity @ 40°C	8.7 cSt
Vapor Pressure @ 20°C	0.05–0.06 mm Hg (0.007–0.008 kPa)
Refractive Index @ 20°C	1.4306–1.4321
Flash Point, PMCC	111°C (232°F)
Autoignition Temperature	398°C (748°F)
Solubility in Water	Completely miscible

The values shown are typical physical properties and are not intended to constitute product specifications.

PRODUCT FEATURES

- High purity
- Excellent water miscibility
- Low volatility
- Low vapor pressure
- Excellent solvent and coupling properties
- Good heat-transfer characteristics
- Wide useful temperature range
- Hygroscopic

- Suitable for numerous industrial formulations

STORAGE & HANDLING

Store in tightly closed containers in a cool, dry, well-ventilated area, ideally under an inert (nitrogen) atmosphere for longer-term color stability. Ethylene glycol is hygroscopic and can absorb moisture from the atmosphere; containers should therefore remain sealed when not in use.

Keep the material in the anhydrous state to help prevent corrosion to carbon steel or aluminum tanks and related equipment. Avoid contamination with incompatible materials. Consult the applicable Miles® Safety Data Sheet (SDS) before handling, storing, or using this product.

AVAILABLE PACKAGING

- 55-Gallon Drums
- Totes / IBCs
- Bulk

Packaging availability may vary. Contact Miles Lubricants LLC for current packaging and minimum-order requirements.

IMPORTANT

Miles® Ethylene Glycol Industrial Grade is intended for industrial applications. It should not be represented or used as USP, pharmaceutical, food, cosmetic, or personal-care grade unless the specific product supplied is independently certified for those applications.

PRODUCT INFORMATION

Miles Lubricants LLC

Industrial Lubricants, Chemicals & Specialty Fluids

Product: Miles® Ethylene Glycol – Industrial Grade

CAS No.: 107-21-1

For product availability, technical information, and Safety Data Sheets, contact Miles Lubricants LLC.

DISCLAIMER

The information and typical properties contained in this Product Data Sheet are provided for general informational purposes and are believed to be accurate at the time of publication. Typical values are not specifications or guaranteed properties. Product users are responsible for determining the suitability, compatibility, safety, and regulatory compliance of the product for their particular application. Please consult the applicable Safety Data Sheet before use.