

MILES® PROPYLENE GLYCOL

Industrial Grade

Product Data Sheet

PRODUCT DESCRIPTION

Miles® Propylene 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, good water solubility, and excellent solvent and heat-transfer characteristics.

Propylene Glycol Industrial Grade is commonly utilized as a functional fluid, solvent, chemical intermediate, viscosity modifier, and raw material in numerous industrial formulations.

Chemical Name: 1,2-Propanediol / Propylene Glycol

CAS Number: 57-55-6

Chemical Formula: C₃H₈O₂

Molecular Weight: 76.10 g/mol

TYPICAL APPLICATIONS

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

- Industrial heat-transfer fluids
- Antifreeze and coolant formulations
- Deicing and anti-icing formulations
- Unsaturated polyester resins
- Paints and coatings
- Liquid detergents and cleaners
- Chemical intermediates
- Industrial solvents and coupling agents
- Agriculture formulations
- General industrial processing

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Appearance	Clear, colorless liquid
Propylene Glycol Purity	≥ 99.5%
Molecular Weight	76.10 g/mol
Boiling Point @ 1 atm	187.4°C (369.3°F)
Distillation Range	186–189°C (367–372°F)
Specific Gravity @ 20/20°C	1.038
Specific Gravity @ 25/4°C	1.033
Viscosity @ 25°C	48.6 mPa·s (cP)
Viscosity @ 60°C	8.42 mPa·s (cP)
Vapor Pressure @ 20°C	0.011 kPa (0.08 mm Hg)
Pour Point	< -57°C (< -71°F)
Refractive Index @ 20°C	1.4310–1.4330
Flash Point, PMCC	104°C (220°F)
Autoignition Temperature	371°C (700°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. Propylene glycol is hygroscopic and can absorb moisture from the atmosphere; containers should therefore remain sealed when not in use.

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® Propylene 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® Propylene Glycol – Industrial Grade

CAS No.: 57-55-6

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.