

PRODUCT IDENTIFICATION



Product Name: Glycol Ether EE
CAS Number: 110-80-5
Molecular Formula: C₄H₁₀O₂
Molecular Weight: 90.12 g/mol
Grade: Technical
Purity / Concentration: Not Available
Synonyms: Ethylene Glycol Ether, Glycol Ether Ethylene

PRODUCT OVERVIEW

Glycol Ether EE is a high-purity, technical grade solvent characterized by its clear, colorless appearance and precise chemical composition. With an assay of 99.2% and a water content of just 0.05%, this versatile liquid is engineered for consistent performance in industrial solvent and analytical applications.

Grade Significance: Technical grade indicates that this product is manufactured for industrial and manufacturing use where high performance and chemical consistency are required, rather than for pharmaceutical or food applications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (wt%)	%	99.2	98	—	GC
Color (APHA)	APHA	5	—	10	ASTM D1209
Specific Gravity (20°C)	g/mL	0.93	0.928	0.932	ASTM D4052
Water Content	%	0.05	—	0.1	ASTM E203
Acidity As Acetic Acid	%	0.0010	—	0.0050	ASTM D1613

ND = Not Detected. Values are typical and may vary by lot.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless mobile liquid	Odor	Mild, ether-like odor
Form	Liquid	Boiling Point	135°C (275°F)
Melting / Freezing Point	-75°C (-103°F)	Flash Point	41°C (105.8°F)
Specific Gravity	0.895	Solubility	High water solubility, miscible with organics
Molecular Formula	C ₄ H ₁₀ O ₂	Molecular Weight	90.12 g/mol
Vapor Pressure (20°C)	0.5 mmHg	Viscosity (25°C)	1.5 cP
Refractive Index (20°C)	1.420	Density (25°C)	0.905 g/mL
Partition Coefficient (log P)	0.8	Decomposition Temp.	Not readily decomposed under normal handling; >300°C typical

APPLICATIONS

1. **Analytical Chemistry** — Functions as a reliable mobile phase component in high-performance liquid chromatography for the effective separation of complex organic compounds.
2. **Paints and Coatings** — Acts as a key solvent additive to improve flow, leveling, and overall application properties of industrial coatings.
3. **Metalworking** — Utilized as a high-efficiency degreasing agent to remove contaminants from metal surfaces prior to finishing or assembly.
4. **Printing and Inks** — Incorporated into ink formulations to achieve the ideal drying rate and viscosity for consistent print quality.

STORAGE & HANDLING

Due to its flash point of 41°C, Glycol Ether EE must be stored in a cool, well-ventilated area away from heat, sparks, and open flames to prevent fire hazards. Proper containment is essential to manage its status as a flammable liquid and to protect personnel from potential inhalation risks.

- Store in a cool, dry place away from heat sources.
- Use materials compatible with HDPE or glass for storage.
- Avoid contact with strong oxidizing agents.
- Ensure proper ventilation when handling to minimize inhalation exposure.
- Use appropriate personal protective equipment (PPE) such as gloves and goggles.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



Hazard Statements:

- H226: Flammable liquid and vapor [Warning Flammable liquids]
- H302: Harmful if swallowed [Warning Acute toxicity, oral]
- H331: Toxic if inhaled [Danger Acute toxicity, inhalation]
- H360FD: May damage fertility; May damage the unborn child [Danger Reproductive toxicity]

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

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