

PRODUCT IDENTIFICATION



Product Name: Glycol Ether EE Technical Grade

CAS Number: 110-80-5

Molecular Formula: $C_4H_{10}O_2$

Molecular Weight: 90.12 g/mol

Grade: Technical Grade

Purity / Concentration: Not Available

Synonyms: Ethylene Glycol Ether, Glycol Ether Ethylene

PRODUCT OVERVIEW

Glycol Ether EE (CAS 110-80-5) is a high-purity technical grade solvent characterized by its clear, colorless appearance and precise chemical consistency. With an assay of 100.0% and extremely low moisture content of 0.03%, this versatile liquid is engineered for demanding industrial applications requiring reliable performance.

Grade Significance: Technical Grade indicates that this product meets high-standard industrial specifications, offering reliable chemical purity suitable for diverse manufacturing and laboratory processes.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay Gc	%	100.0	99.5	100.5	GC
Color (APHA)	APHA	4	—	10	APHA
pH	—	7	6	8	pH Meter
Specific Gravity (20°C)	g/mL	0.9297	0.9277	0.9317	Hydrometer @ 20°C
Water Karl Fischer	%	0.03	0	0.1	Karl Fischer
Acidity As Acetic	%	0.0010	0	0.0050	Titration

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	275 °F at 760 mmHg (NTP, 1992)
Melting / Freezing Point	-94 °F (NTP, 1992)	Flash Point	105 °F (NTP, 1992)
Specific Gravity	0.895	Solubility	High water solubility, miscible with organics
Molecular Formula	$C_4H_{10}O_2$	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 critical mobile phase component in reversed-phase high-performance liquid chromatography for the separation of complex organic compounds.
2. **Paints and Coatings** — Used as a high-performance solvent to improve flow and leveling, ensuring optimal application properties and finish quality.
3. **Metalworking** — Acts as an effective degreasing agent to remove contaminants from metal surfaces, ensuring proper adhesion for subsequent processing or finishing.
4. **Printing and Inks** — Serves as a key solvent in ink formulations, providing the necessary viscosity and drying characteristics for consistent printing performance.

STORAGE & HANDLING

Because Glycol Ether EE is a flammable liquid with a flash point of 105°F, it must be stored in a cool, well-ventilated area away from heat sources and open flames to prevent ignition. Proper storage ensures both the chemical integrity of the product and the safety of your facility by minimizing vapor accumulation.

- 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 vapour
- H302: Harmful if swallowed
- H312: Harmful in contact with skin
- H331: Toxic if inhaled
- H360FD: May damage fertility. May damage the unborn child.

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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