

### PRODUCT IDENTIFICATION



**Product Name:** Glycol Ether EE ACS

**CAS Number:** 111-76-2

**Molecular Formula:** C<sub>6</sub>H<sub>14</sub>O<sub>2</sub>

**Molecular Weight:** 118.17 g/mol

**Grade:** ACS Grade

**Purity / Concentration:** Not Available

**Synonyms:** Ethylene Glycol Ether, Glycol Ether EE

### PRODUCT OVERVIEW

Glycol Ether EE ACS is a high-purity solvent characterized by a clear, colorless appearance and a 99.3% assay concentration. This ACS grade chemical is specifically engineered for precision applications, featuring exceptionally low impurity levels such as 0.05 ppm of iron and 0.03% water content, making it ideal for high-performance laboratory and industrial use.

**Grade Significance:** ACS Grade signifies that the product meets the rigorous purity standards set by the American Chemical Society, ensuring it is suitable for demanding laboratory and analytical procedures where trace impurities could compromise results.

### CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (wt%)	%	99.3	99	—	GC-FID
Color (APHA)	APHA	5	—	10	ASTM D1209
Specific Gravity (20°C)	g/mL	0.901	0.899	0.903	USP <841>
Residue After Ignition	%	0.0010	—	0.0050	ACS
Water Content	%	0.03	—	0.1	Karl Fischer Titration
Iron (Fe)	ppm	0.05	—	1	ICP-OES
Chloride (Cl <sup>-</sup> )	ppm	0.1	—	5	Ion Chromatography
Sulfate (SO <sub>4</sub> <sup>2-</sup> )	ppm	0.2	—	5	Ion Chromatography
Acidity As Acetic Acid	%	0.0010	—	0.0050	Titration

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

## PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless liquid	<b>Odor</b>	Mild, ether-like odor
<b>Form</b>	Liquid	<b>Boiling Point</b>	193°C (379.4°F)
<b>Melting / Freezing Point</b>	-70°C (-94°F)	<b>Flash Point</b>	62°C (143.6°F)
<b>Specific Gravity</b>	0.895	<b>Solubility</b>	Soluble in water, alcohols, and many organic solvents
<b>Molecular Formula</b>	C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>	<b>Molecular Weight</b>	118.17 g/mol
<b>Vapor Pressure (20°C)</b>	0.5 mmHg	<b>Viscosity (25°C)</b>	1.2 cP
<b>Refractive Index (20°C)</b>	1.426	<b>Density (25°C)</b>	0.925 g/mL
<b>Partition Coefficient (log P)</b>	0.3	<b>Decomposition Temp.</b>	Not applicable

## APPLICATIONS

- Analytical Chemistry** — Functions as a critical mobile phase component in reversed-phase high-performance liquid chromatography to facilitate the separation of complex organic compounds.
- Coatings and Paints** — Utilized as a high-performance solvent due to its excellent solvency properties, ensuring smooth application and consistent finish in industrial coating formulations.
- Industrial Cleaning** — Acts as a potent cleaning agent capable of effectively dissolving and removing heavy oils, greases, and residues from industrial equipment.
- Chemical Manufacturing** — Serves as a reliable chemical intermediate, facilitating the synthesis of various specialized compounds in complex manufacturing processes.

## STORAGE & HANDLING

Proper storage is essential to maintain the high purity of this grade and to manage its flash point of 62°C, which necessitates keeping the container away from heat sources and open flames. Because the substance is harmful if swallowed and causes skin and eye irritation, it must be stored in a cool, well-ventilated area in a tightly sealed container to prevent accidental exposure and contamination.

- Store in a cool, dry place away from heat sources and direct sunlight.
- Use containers made of HDPE or glass to prevent chemical reactions.
- Avoid contact with strong oxidizing agents and acids.
- Ensure proper ventilation when handling to minimize inhalation risks.
- Wear appropriate personal protective equipment (PPE) including gloves and safety 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:

- H302: Harmful if swallowed [Warning Acute toxicity, oral]
- H315: Causes skin irritation [Warning Skin corrosion/irritation]
- H319: Causes serious eye irritation [Warning Serious eye damage/eye irritation]
- H331: Toxic if inhaled [Danger Acute toxicity, inhalation]

**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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