

Offer Sheet

Product	Ethylene glycol
Quantity	~5,000 gal. in tank
Net weight	~46,500 lbs.
Manufacture date	
Availability	One time (potential for an additional 1,000 gallons)
Location	Channahon, IL 60410
Date	2/23/26
COA	Attached below



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Ethylene glycol (MEG) is a high-volume commodity diol used primarily as an **antifreeze, heat-transfer fluid, and polyester feedstock**. Global demand is heavily driven by PET plastics and automotive fluids.

1) Polyester & PET Resin Production (*largest global outlet*)

Primary demand driver

- Raw material for **polyethylene terephthalate (PET)**
- Used in **polyester fiber** manufacturing
- Feedstock for **polyester films and resins**

End markets

- Beverage bottles
- Food packaging
- Textile fibers
- Industrial films

👉 This typically consumes **~70–80% of global MEG supply**

2) Antifreeze & Engine Coolants

Major North American use

- Automotive radiator coolant
- Heavy-duty diesel coolant
- HVAC antifreeze loops
- Industrial cooling systems

Why used

- Low freezing point
 - High boiling point
 - Good heat capacity
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3) Heat Transfer Fluids

- Closed-loop HVAC systems
- Chilled water systems
- Process cooling loops
- Geothermal systems
- Solar thermal systems

Often formulated as **inhibited glycol solutions**.

4) Deicing & Anti-Icing Fluids

- Aircraft deicing blends (less common than propylene glycol but still used)
 - Runway and pavement deicing
 - Industrial freeze protection systems
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5) Chemical Intermediate

Ethylene glycol is used to produce:

- Glycol ethers
 - Polyester polyols
 - Unsaturated polyester resins
 - Alkyd resins
 - Plasticizers
 - Explosives intermediates (limited niche)
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6) Natural Gas Processing

- Dehydration of natural gas streams
- Water removal in gas pipelines
- Hydrate inhibition

(Note: *triethylene glycol is more common, but MEG is used in some systems.*)

7) Hydraulic Fluids & Specialty Formulations

- Fire-resistant hydraulic fluids
 - Brake fluid components (blended systems)
 - Industrial lubricants (niche)
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Commercial Profile

Attribute	Position
Market type	Large-volume commodity
Typical packaging	Bulk truck, rail, ISO, totes
Density	~9.3 lb/gal
Hazard profile	Toxic if ingested
Primary demand driver	PET/polyester



CANAL TERMINAL COMPANY

CERTIFICATE OF ANALYSIS

Sample Number: 2025122201

Sample Date: 12/22/2025

Container: Tank 200-08

Product: Shell Ethylene Glycol

Sample Time: 04:05

Sampler: MB

Property	Units	Minimum	Maximum	Result	Method
Acidity (Total as acetic acid)	Wt%		0.0010	0.0004	D1613
Acid/Ester	ppmw		150	<20	D7736
Aldehydes as ACH	ppmw		10	2.88	E2313
Appearance	Pass/Fail			PASS	D4176
Ash	ppmw		10	<4.0	D482
Chlorides as Cl-	ppmw		0.10	<0.1	SMS 2901
Color	Pt-Co Scale		5	1.9	D5386
Diethylene Glycol	Wt%		0.050	0.023	E2409
Distillation, IBP	°C	196		197.5	D1078
Distillation, 5%	°C	196.6		198.0	D1078
Distillation, 95%	°C		198	197.6	D1078
Distillation, DP	°C		199	198.0	D1078
Distillation Include 197.6 C	Pass/Fail			PASS	D1078
Ethylene Glycol	Wt%	99.5		99.98	E2409
Iron	ppmw		0.05	<0.02	E394
Odor	N/A			PASS	SMS2903
pH, 50% aq. sol.	N/A	5	9	7.61	D1287
Purity	Wt%	99.9		99.96	E2409
Density	g/ml	1.1131	1.1136	1.1134	D4052
Specific gravity at 20°C	N/A	1.1151	1.1156	1.1154	D4052
UV Transmittance at 220 nm	%T	80		88.5	E2193
UV Transmittance at 250 nm	%T	90		93.1	E2193
UV Transmittance at 275 nm	%T	95		96.0	E2193
UV Transmittance at 350 nm	%T	98		99.4	E2193
Water Miscibility	Pass/Fail			PASS	D1722
Water	Wt%		0.0500	0.0164	E1064

Comments:

Determined and reported under the
direction and authority of:

Duane Miller, Laboratory Manager

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