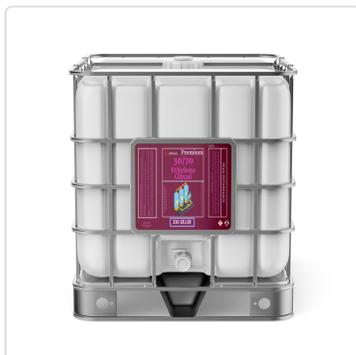


### PRODUCT IDENTIFICATION



**Product Name:** Ethylene Glycol 30/70

**CAS Number:** 107-21-1

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

**Molecular Weight:** 62.07 g/mol

**Grade:** Technical Grade

**Purity / Concentration:** 30%

**Synonyms:** Ethylene Glycol Solution, Ethylene Glycol Blend

### PRODUCT OVERVIEW

Alliance Chemical's Ethylene Glycol 30/70 is a Technical Grade solution, characterized as a colorless to pale yellow translucent liquid with an assay of 99.2%. This solution is commonly used as a heat transfer fluid and antifreeze agent.

**Grade Significance:** Technical Grade Ethylene Glycol 30/70 is suitable for industrial applications where high purity is not critical, offering a cost-effective solution for heat transfer and antifreeze needs. While it meets certain quality standards, it may contain trace impurities that do not affect its performance in these applications.

### CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (wt%)	%	99.2	98	—	Gas Chromatography
Color (APHA)	APHA	5	—	15	ASTM D1209
Specific Gravity (20°C)	g/mL	1.114	1.113	1.116	ASTM D4052
Water Content	%	0.05	—	0.1	ASTM E203
Iron (Fe)	ppm	0.05	—	0.5	ICP-OES
Chloride (Cl <sup>-</sup> )	ppm	0.1	—	1	Ion Chromatography
Acidity As Acetic Acid	%	0.0010	—	0.0050	Titration
Diethylene Glycol	%	0.2	—	0.5	Gas Chromatography

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

## PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Colorless to pale yellow translucent liquid	<b>Odor</b>	Slightly sweet odor
<b>Form</b>	liquid	<b>Boiling Point</b>	197°C (387°F)
<b>Melting / Freezing Point</b>	-13°C (9°F)	<b>Flash Point</b>	111°C (232°F)
<b>Solubility</b>	Fully miscible with water, moderate organic sol...	<b>Molecular Formula</b>	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>
<b>Molecular Weight</b>	62.07 g/mol	<b>Vapor Pressure (20°C)</b>	0.06 mmHg
<b>Viscosity (25°C)</b>	20.1 cP	<b>Refractive Index (20°C)</b>	1.431
<b>Density (25°C)</b>	1.115 g/mL	<b>Partition Coefficient (log P)</b>	-0.5 to -0.3
<b>Decomposition Temp.</b>	Not applicable (stable under normal handling)		

## APPLICATIONS

- HVAC** — In heating, ventilation, and air conditioning (HVAC) systems, Ethylene Glycol 30/70 acts as a crucial heat transfer fluid, efficiently circulating heat to maintain desired temperatures within buildings.
- Automotive** — Ethylene Glycol 30/70 is commonly used as an antifreeze in vehicle cooling systems, preventing the engine from freezing in cold temperatures and overheating in hot conditions.
- Chemical Processing** — This solution serves as a heat transfer medium in various chemical processes, helping to regulate temperature during reactions and maintain optimal operating conditions.
- Pharmaceuticals** — Ethylene Glycol 30/70 acts as a solvent in the synthesis of pharmaceutical compounds, aiding in the dissolution and mixing of ingredients during drug manufacturing.
- De-Icing** — While not the primary application for this specific blend, ethylene glycol solutions can be used in de-icing applications, preventing ice formation on surfaces.

## STORAGE & HANDLING

Proper storage of Ethylene Glycol 30/70 is essential to maintain its purity and prevent degradation. Exposure to extreme temperatures or contamination can alter its properties and reduce its effectiveness. As it is harmful if swallowed, store in a tightly sealed container in a well-ventilated area.

- Store in a cool, dry place away from direct sunlight.
- Use materials compatible with ethylene glycol, such as HDPE or stainless steel.
- Avoid contact with strong oxidizing agents.
- Ensure proper ventilation when handling to minimize inhalation risks.
- Wear appropriate personal protective equipment (PPE) including 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: **Warning**



**Hazard Statements:**

- H302: Harmful if swallowed [Warning Acute toxicity, oral]

**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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