

PRODUCT IDENTIFICATION



Product Name: 30% Propylene Glycol Inhibited

CAS Number: 57-55-6

Molecular Formula: C₃H₈O₂

Molecular Weight: 76.09 g/mol

Grade: Technical

Purity / Concentration: 30%

Synonyms: Propylene Glycol Inhibited Solution, Inhibited Propylene Glycol 30%

PRODUCT OVERVIEW

Alliance Chemical offers a 30% inhibited propylene glycol solution, a reliable technical-grade heat transfer fluid designed for efficiency. This clear, colorless liquid features a precise 30.1% assay and a pH of 8.5, making it an ideal choice for cooling systems requiring consistent performance.

Grade Significance: Technical grade indicates that this product is manufactured for industrial and commercial use where consistency and performance are the primary requirements for non-laboratory applications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay Gc	%	30	29.5	30.5	GC
Color (APHA)	APHA	3	—	10	APHA
Specific Gravity (20°C)	g/mL	1.011	1.008	1.014	Hydrometer @ 25°C
Water Karl Fischer	%	0.01	0	—	Karl Fischer
Heavy Metals As Pb	ppm	≤ 1.5 ppm	—	—	ICP-MS
Iron (Fe)	ppm	≤ 0.15 ppm	—	—	ICP-MS
Chlorides As Cl	ppm	≤ 0.15 ppm	—	—	ICP
Acidity As Acetic	%	≤ 0.001 %	—	—	Titration

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	Odor	Slightly sweet odor
Boiling Point	188°C (371°F)	Melting / Freezing Point	-59°C (-74°F)
Flash Point	104°C (219°F)	Solubility	Miscible in water and many organic solvents
Molecular Formula	C ₃ H ₈ O ₂	Molecular Weight	76.09 g/mol
Vapor Pressure (20°C)	0.1 mmHg	Viscosity (25°C)	60 cP
Refractive Index (20°C)	1.431	Density (25°C)	1.036 g/mL

APPLICATIONS

1. **Automotive** — Used in vehicle cooling systems to effectively lower the freezing point of the coolant while protecting internal engine components.
2. **Industrial Manufacturing** — Serves as a high-performance heat transfer medium for industrial processes that require stable temperature regulation.
3. **Metalworking** — Provides essential corrosion protection in metalworking fluids to extend the lifespan of equipment and improve machining quality.
4. **Food Processing** — Functions as a moisture-retaining agent in specialized food applications where regulated chemical purity is required.

STORAGE & HANDLING

Proper storage is essential to maintain the integrity of the corrosion inhibitors and prevent contamination that could compromise the fluid's effectiveness. While the product is not classified as hazardous, keeping it in a cool, dry environment ensures the stability of its chemical properties over time.

- Store in a cool, dry place away from direct sunlight.
- Use materials compatible with polyethylene or stainless steel 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: WARNING

No GHS pictograms assigned.

Hazard Statements:

- Not Classified
- Reported as not meeting GHS hazard criteria by 6762 of 6899 companies (only 2% companies provided GHS information). For more detailed information, please visit ECHA C&L website.

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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