

PRODUCT IDENTIFICATION



Product Name: 30% Propylene Glycol Inhibited

CAS Number: 57-55-6

Molecular Formula: $C_3H_8O_2$

Molecular Weight: 76.09 g/mol

Grade: Inhibited

Purity / Concentration: 30%

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

PRODUCT OVERVIEW

Alliance Chemical offers high-quality 30% Inhibited Propylene Glycol, a clear, colorless aqueous solution engineered for reliable thermal performance. With a specific gravity of 1.0302 and low impurity levels, this product is ideal for industrial heat transfer and cooling applications requiring consistent fluid stability.

Grade Significance: The 'Inhibited' grade indicates that the solution includes additives specifically formulated to prevent corrosion, which protects metal components within your systems from degradation and rust over time.

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	1.0302	1.0252	1.0352	Hydrometer @ 20°C
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	~102 °C	Melting / Freezing Point	-13 °C (freeze / crystallization onset)
Flash Point	Not flammable (aqueous solution)	Specific Gravity	1.031
Solubility	Miscible in water and many organic solvents	Molecular Formula	$C_3H_8O_2$
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** — Utilized in cooling systems to effectively lower the freezing point of coolant, ensuring engine protection in cold climates.
2. **Industrial Manufacturing** — Serves as a critical heat transfer medium in various closed-loop industrial processes, maintaining thermal regulation.
3. **Metalworking** — Provides essential corrosion protection in metalworking fluids, extending the lifespan of equipment and parts.
4. **Food Processing** — Acts as a moisture-retaining agent, helping to maintain the texture and quality of processed food products.

STORAGE & HANDLING

Proper storage in a cool, dry, and well-ventilated area is essential to maintain the integrity of the inhibited formulation and prevent contamination. While the solution is not flammable, maintaining tight seals prevents moisture absorption and oxidation, which could otherwise degrade the effectiveness of the corrosion inhibitors.

- 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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