

PRODUCT IDENTIFICATION



Product Name: Arctic Assist 50/50 Technical Grade

CAS Number: 57-55-6

Molecular Formula: C₃H₈O₂

Molecular Weight: 76.09 g/mol

Grade: Technical Grade

Purity / Concentration: 50%

Synonyms: Not Available

PRODUCT OVERVIEW

Arctic Assist 50/50 Technical Grade is a pre-diluted propylene glycol solution engineered for efficient heat transfer and freeze protection. This 50% concentration provides a stable, low-viscosity liquid ideal for demanding industrial and laboratory applications.

Grade Significance: Technical Grade indicates that this product is formulated for industrial performance rather than food or pharmaceutical consumption. It ensures that the chemical composition is consistent and reliable for standard mechanical and laboratory tasks.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	pink dyed liquid, low viscosity	Form	Liquid
Boiling Point	165°C (329°F)	Melting / Freezing Point	Freezing point ≈ -33 °C
Flash Point	Non-flammable (50/50 propylene glycol/water blend).	Specific Gravity	1.045
Solubility	Moderate organic solvent solubility	Molecular Formula	C ₃ H ₈ O ₂
Molecular Weight	76.09 g/mol		

APPLICATIONS

- HVAC and Refrigeration** — Used as a reliable heat transfer fluid in closed-loop systems to prevent freezing and ensure consistent thermal regulation.
- Manufacturing** — Serves as an effective coolant for industrial machinery, helping to maintain optimal operating temperatures during high-demand cycles.
- Laboratory Research** — Utilized as a solvent or bath medium in controlled environments requiring stable thermal properties.
- Automotive Maintenance** — Provides essential freeze protection for heavy-duty engines and industrial cooling systems in colder climates.

STORAGE & HANDLING

Proper storage is essential to maintain the concentration of this 50/50 blend and prevent contamination from external elements. While the product is non-flammable, keeping containers tightly sealed in a cool, dry area ensures long-term chemical stability and safety.

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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