

PRODUCT IDENTIFICATION



Product Name: Arctic Assist 50/50 Technical Grade

CAS Number: 57-55-6

Molecular Formula: $C_3H_8O_2$

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 reliable, pre-diluted propylene glycol solution designed for industrial and laboratory applications. This pink-dyed liquid offers a consistent 50% concentration, ensuring predictable thermal performance and stability for your operational needs.

Grade Significance: Technical Grade ensures the product meets the necessary purity standards for industrial processes while remaining cost-effective for large-scale operations. It is formulated for functional utility rather than pharmaceutical or food-grade applications.

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	~106 °C	Melting / Freezing Point	-33 °C (freeze / crystallization onset)
Flash Point	Not flammable (aqueous solution)	Specific Gravity	1.046
Solubility	Miscible with water in all proportions	Molecular Formula	$C_3H_8O_2$
Molecular Weight	76.09 g/mol		

APPLICATIONS

- HVAC and Refrigeration** — Used as a heat transfer fluid in secondary cooling systems to prevent freezing and maintain efficient thermal regulation.
- Laboratory Research** — Serves as a stable solvent or reagent carrier in general laboratory testing where a controlled, non-flammable aqueous medium is required.
- Automotive Manufacturing** — Functions as a base component for industrial cooling loops, providing reliable protection against temperature extremes.
- Industrial Processing** — Utilized in various closed-loop systems to manage heat exchange effectively without the risks associated with flammable solvents.
- Facility Maintenance** — Applied in localized cooling systems to ensure equipment longevity and prevent corrosion in stationary industrial machinery.

STORAGE & HANDLING

Proper storage is essential to maintain the integrity of the solution and prevent environmental contamination. Keep containers tightly sealed in a cool, dry, and well-ventilated area to ensure the product remains free from impurities and maintains its specified concentration.

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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