

PRODUCT IDENTIFICATION



Product Name: Arctic Assist 50/50

CAS Number: 57-55-6

Molecular Formula: C₃H₈O₂

Molecular Weight: 76.09 g/mol

Grade: Technical

Purity / Concentration: 50%

Synonyms: Not Available

PRODUCT OVERVIEW

Arctic Assist 50/50 is a technical grade, pink-dyed liquid formulated with a 50% concentration of propylene glycol. It serves as a reliable, low-viscosity solution for diverse general industrial and laboratory applications requiring consistent thermal properties.

Grade Significance: Technical grade indicates that the product is manufactured for industrial use rather than pharmaceutical or food-grade applications, offering a cost-effective solution for non-sensitive processes.

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 heat transfer fluid in secondary cooling systems to prevent freezing and ensure efficient thermal regulation.
- Laboratory Research** — Functions as a stable solvent or carrier fluid in controlled experiments where high purity analytical standards are not strictly required.
- Manufacturing** — Utilized in industrial equipment maintenance to maintain optimal operating temperatures within machinery cooling loops.
- Automotive Maintenance** — Applied in various closed-loop systems to provide reliable antifreeze protection and corrosion inhibition for metallic components.

STORAGE & HANDLING

Proper storage in a cool, well-ventilated area is essential to maintain the integrity of the chemical and prevent degradation. While the product is not classified as hazardous, keeping containers tightly sealed prevents contamination and ensures the liquid remains stable for long-term use.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: Not Classified

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.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

Disclaimer: The information contained herein is believed to be accurate and represents the best information currently available to us. However, Alliance Chemical makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.