Technical Data Sheet

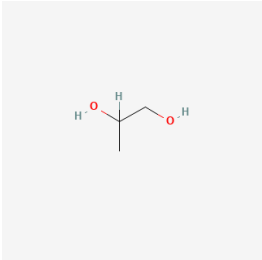
Arctic Assist Technical Grade

Technical

Alliance Code	Revised	Revision
arctic-assist	2026-10-13	1.4

CAS number

57-55-6



Structure · PubChem

Grade

Technical

IDENTITY & COMPOSITION

PRODUCT NAME

Arctic Assist Technical Grade

ALLIANCE CODE

arctic-assist

GRADE

Technical

CONCENTRATION

~96% w/w propylene glycol

CAS NUMBER

57-55-6 Adjudicated

FORMULA

C3H8O2 Adjudicated

MOLECULAR WEIGHT

76.09 g/mol Adjudicated

PRODUCT TYPE

Mixture

SPECIFICATIONS

Not yet characterized — Specification limits for this product have not been published yet. Contact Technical Services for the current specification and available lot-specific documentation.

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE Technical	—	—	current
Technical	59.96%	—	arctic-assist-60-40

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
Technical	49.97%	—	arctic-assist-50-50

Typical assay for each grade is the average of its recent lots. Confirm a grade meets your specification before substituting it.

PHYSICAL & CHEMICAL PROPERTIES

PROPERTY	VALUE	SOURCE
Appearance	Purple dyed liquid	Adjudicated
Odor	Mild, characteristic	Adjudicated
pH	9-10.5	Adjudicated
Specific Gravity	~1.05 (20 °C)	Adjudicated
Density	~1.05 g/mL at 20 °C	Adjudicated
Boiling Point	~185 °C	Adjudicated
Melting Point	~-60 °C (pour point; concentrate)	Adjudicated
Flash Point	~99 °C (210 °F) closed cup — combustible, not classified flammable (>93 °C)	Adjudicated
Solubility (water)	Miscible with water	Adjudicated

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER
Not regulated Adjudicated

HAZARD CLASS
Not regulated Adjudicated

PACKING GROUP
Not regulated Adjudicated

PROPER SHIPPING NAME
Not regulated Adjudicated

GHS / OSHA HCS 2024

SIGNAL WORD
Not regulated Adjudicated

H-CODES (HAZARD STATEMENTS)
Not applicable Adjudicated

P-CODES (PRECAUTIONARY STATEMENTS)
Not applicable Adjudicated

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)
— no canonical

ACGIH TLV
— no canonical

NIOSH REL
— no canonical

NIOSH IDLH
— no canonical

Transport descriptions reflect 49 CFR 172.101 lookup at time of publication. Sourced data: NIOSH Pocket Guide for REL/IDLH, OSHA Z-Tables for PEL. Always verify against the latest regulatory text before shipment-critical decisions.

APPLICATION GUIDANCE

Arctic Assist Technical Grade (Technical) is supplied as a mixture. Refer to the component composition section and consult Alliance Chemical Technical Services for application-specific formulation guidance.

- Application-specific formulation — contact technical services

STORAGE & HANDLING

RECOMMENDED STORAGE
Keep tightly closed (hygroscopic) in a cool, dry place away from oxidizers. Stainless steel, carbon steel, polyethylene or polypropylene containers.

Adjudicated

HANDLING PRECAUTIONS
PPE selected per most-hazardous component. Refer to product SDS for full hazard profile.
Class-level guidance — not product-specific; the SDS controls.

INCOMPATIBILITIES
Strong oxidizing agents; strong acids; strong bases.

Adjudicated

SHELF LIFE
Consult Technical Services for product-specific shelf life

For full hazard, PPE, and emergency response guidance, refer to the Safety Data Sheet (SDS) for this product. The SDS controls in all cases where guidance differs.

PACKAGING & LOGISTICS

SHIPPING DESCRIPTION (US DOT)

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Not regulated for transport.
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A package holding 10,000 lb (4,540 kg), about 1,140 US gal, or more of this product contains a reportable quantity (RQ) and ships as:

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UN3082, Environmentally hazardous substance, liquid, n.o.s. (Sodium nitrite), 9, III, RQ
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Confirm against shipping documents and carrier requirements before tender.

NMFC CLASS
55

REVISION HISTORY

Last reviewed 2026-10-13 by Andre Taki, Chief Commercial Officer, DOT Hazmat–certified (49 CFR 172.704).

VERSION	DATE	CHANGE	TRIGGER
1.4	2026-10-13	Canonical data updated: 4 fields changed via the provenance/adjudication pipeline. • storage_precautions · canonical change (coa.data_provenance / adjudication) • incompatible_materials · canonical change (coa.data_provenance / adjudication) • conditions_to_avoid · canonical change (coa.data_provenance / adjudication) • hazardous_decomposition_products · canonical change (coa.data_provenance / adjudication)	canonical_change
1.3	2026-10-02	Canonical data updated: 2 fields changed via the provenance/adjudication pipeline. • hazard_h_codes · canonical change (coa.data_provenance / adjudication) • hazard_p_codes · canonical change (coa.data_provenance / adjudication)	canonical_change
1.2	2026-07-24	Canonical data updated: 1 field changed via the provenance/adjudication pipeline. • physicalProperties · canonical change (coa.data_provenance / adjudication)	canonical_change

VERSION	DATE	CHANGE	TRIGGER
1.1	2026-06-17	Canonical data re-verified: 6 fields updated against independent vendor SDSs, CLP Annex VI, 49 CFR, and OSHA HazCom 2024 (GHS classification, hazard/precautionary codes, signal word, physical properties as applicable). • casNumber · canonical adjudication / reground (coa.data_provenance) • countryOfOrigin · canonical adjudication / reground (coa.data_provenance) • dotSubsidiaryHazardClass · canonical adjudication / reground (coa.data_provenance) • formula · canonical adjudication / reground (coa.data_provenance) • hsCode · canonical adjudication / reground (coa.data_provenance) • molecularWeight · canonical adjudication / reground (coa.data_provenance)	canonical_change
1.0	2026-05-20	Initial URL-first TDS published from canonical chemistry registry.	initial

This Technical Data Sheet is provided for technical reference. The Safety Data Sheet (SDS) controls in all cases where guidance differs. Values reflect Alliance Chemical canonical data at time of generation; subsequent revisions are recorded in the Revision History above.