

TECHNICAL DATA SHEET

75% Vinegar ACS Grade

ACS Grade · 75%

CAS NUMBER
64-19-7

ALLIANCE CODE
vinegar-75-acs-grade

GENERATED
2026-07-26

1. IDENTITY & COMPOSITION

PRODUCT NAME	ALLIANCE CODE
75% Vinegar ACS Grade	vinegar-75-acs-grade
GRADE	CONCENTRATION
ACS Grade	75%
CAS NUMBER	FORMULA
64-19-7 PubChem	C2H4O2 PubChem
MOLECULAR WEIGHT	PRODUCT TYPE
60.05 PubChem	solution

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE ACS Grade	75%	—	current
Food Grade	75%	—	75-acetic-acid-food-grade
Technical	75%	—	75-vinegar

Typical assay shown is the rolling-window mean from the sibling product's most recent lots. Grade selection drives downstream end-use — verify the sibling grade matches your specification before substitution.

PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE

Clear colorless liquid with a vinegar odor (75% aqueous acetic acid solution). [Product record](#)

ODOR

Pungent [Product record](#)

DENSITY

1.069 g/mL at 20 °C (75% w/w aqueous acetic acid; CRC) [Product record](#)

MELTING POINT

not characterized for the solution
[Product record](#)

VAPOR PRESSURE

11.4 mmHg at 68 °F ; 20 mmHg at 86 °F (NTP, 1992) [Product record](#)

FORM

Liquid [Product record](#)

PH

Aqueous solution 1.0 molar = 2.4; 0.1 molar = 2.9; 0.01 molar = 3.4 [Product record](#)

BOILING POINT

not characterized for the solution
[Product record](#)

FLASH POINT

Combustible only; closed cup >100 °C (INEOS/Columbus) — not flammable. (Prior 104 °F was the glacial value.) [Product record](#)

SOLUBILITY (WATER)

greater than or equal to 100 mg/mL at 73 °F (NTP, 1992) [Product record](#)

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

UN2790 [Vendor Label](#)

PACKING GROUP

II [Adjudicated](#)

HAZARD CLASS

8 [Adjudicated](#)

PROPER SHIPPING NAME

Acetic acid solution, not less than 50 percent but not more than 80 percent acid, by mass

[Adjudicated](#)

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Danger [Adjudicated](#)

H-CODES (HAZARD STATEMENTS)

H314 [Adjudicated](#)

P-CODES (PRECAUTIONARY STATEMENTS)

P210, P233, P240, P241, P242, P243, P260, P264,
P280, P301+P330+P331, P303+P361+P353,
P304+P340, P305+P351+P338, P310, P321, P363,...

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

10 ppm TWA [OSHA 29 CFR 1910.1000](#)

ACGIH TLV

— [unknown](#)

NIOSH REL

10 ppm TWA / 15 ppm STEL [NIOSH Pocket Guide](#)

NIOSH IDLH

50 ppm [NIOSH Pocket Guide](#)

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

Supplier Qualification Packet

One zipped download containing the TDS, SDS, latest lot COA (when available), and a fresh Letter of Continuing Guaranty for 75% Vinegar ACS Grade. Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

CATALOG EQUIVALENTS CROSS-REFERENCE VS MAJOR CHEMICAL SUPPLIERS

HONEYWELL

SKU	GRADE	CONC.	MATCH	NOTES
33209	ACS	99.8%	Exact	Fluka ACS grade

SIGMA-ALDRICH

SKU	GRADE	CONC.	MATCH	NOTES
320099	ACS Reagent	99.7%	Exact	ACS Reagent ≥99.7%

Cross-references are informational. Confirm against the manufacturer's current specification before substitution. Competitor trademarks are property of their respective owners.

APPLICATION GUIDANCE

75% Vinegar ACS Grade (ACS Grade) application guidance is available on request. Contact Alliance Chemical Technical Services for grade-specific use recommendations.

STORAGE & HANDLING

RECOMMENDED STORAGE

Cool, dry, well-ventilated area in original sealed containers. Refer to product SDS for material-specific guidance.

INCOMPATIBILITIES

Consult the SDS for material-specific incompatibilities.

HANDLING PRECAUTIONS

Use standard chemical PPE — splash goggles, gloves, lab coat. Refer to SDS for hazard-specific PPE requirements.

SHELF LIFE

24 months from date of manufacture in sealed, original packaging

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)

UN2790, Acetic acid solution, not less than 50 percent but not more than 80 percent acid, by mass, 8, PG II

Sourced from 49 CFR 172.101. Confirm against shipping documents and carrier requirements before tender.

NMFC CLASS 60	PLACARD Corrosive	PACKING GROUP PG II
-------------------------	-----------------------------	-------------------------------

REVISION HISTORY

Last reviewed 2026-07-17 by Andre Taki, DOT Hazmat Specialist.

VERSION	DATE	CHANGE	TRIGGER
1.2	2026-07-22	Canonical data updated: 2 fields changed via the provenance/adjudication pipeline. - dotSubsidiaryHazardClass · canonical change (coa.data_provenance / adjudication) - dotProperShippingName · canonical change (coa.data_provenance / adjudication)	canonical_change
1.1	2026-07-17	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). - countryOfOrigin · canonical adjudication / reground (coa.data_provenance) - ghsClassification · canonical adjudication / reground (coa.data_provenance) - hazard_h_codes · canonical adjudication / reground (coa.data_provenance) - hazard_p_codes · canonical adjudication / reground (coa.data_provenance) - hsCode · canonical adjudication / reground (coa.data_provenance) - physicalProperties · 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.

ALLIANCE CHEMICAL

Order 75% Vinegar ACS Grade

Bulk & packaged sizes · COA/SDS ships with every order