

TECHNICAL DATA SHEET

10% Vinegar - Concentrated Industrial Strength

Industrial · 10%

CAS NUMBER
64-19-7

ALLIANCE CODE
10-vinegar-concentrated-industrial-strength

GENERATED
2026-07-17

1. IDENTITY & COMPOSITION

PRODUCT NAME	ALLIANCE CODE
10% Vinegar - Concentrated Industrial Strength	10-vinegar-concentrated-industrial-strength
GRADE	CONCENTRATION
Industrial	10%
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 Industrial	10%	—	current
Food Grade	10%	—	10-acetic-acid-food-grade

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 [Product record](#)

PH

2.3–2.4 (10% aqueous solution) [Product record](#)

DENSITY

1.01–1.013 g/mL (10% aqueous solution, 20 °C)

[Product record](#)

MELTING POINT

~0 °C (dilute aqueous, near water)

[Product record](#)

SOLUBILITY (WATER)

Miscible with water [Product record](#)

ODOR

Pungent, vinegar-like [Product record](#)

SPECIFIC GRAVITY (20 °C)

1.01–1.013 (10% aqueous solution, 20 °C)

[Product record](#)

BOILING POINT

~100 °C (dilute aqueous, near water)

[Product record](#)

FLASH POINT

Not flammable (10% aqueous solution)

[Product record](#)

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER	HAZARD CLASS
UN2790 Adjudicated	8 Adjudicated
PACKING GROUP	PROPER SHIPPING NAME
III Adjudicated	Acetic acid solution Adjudicated

GHS / OSHA HAZCOM 2012

SIGNAL WORD	H-CODES (HAZARD STATEMENTS)
Danger Adjudicated	H314 Adjudicated
P-CODES (PRECAUTIONARY STATEMENTS)	
P260, P264, P280, P301+P330+P331, P303+P361+P353, P304+P340, P305+P351+P338, P310, P321, P363, P405, P501 Adjudicated	

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)	ACGIH TLV
10 ppm TWA OSHA 29 CFR 1910.1000	— unknown
NIOSH REL	NIOSH IDLH
10 ppm TWA / 15 ppm STEL NIOSH Pocket Guide	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 10% Vinegar – Concentrated Industrial Strength. 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

10% Vinegar – Concentrated Industrial Strength (Industrial) 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, 8, PG III

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

NMFC CLASS 65	PLACARD Corrosive	PACKING GROUP PG III
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REVISION HISTORY

Last reviewed 2026-05-20 by Hossein Taki, Vice President (Vice President, Alliance Chemical · CAGE Code 1LT50 · DOT Hazmat Registrant #2188383).

VERSION	DATE	CHANGE	TRIGGER
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 10% Vinegar – Concentrated Industrial Strength

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