

TECHNICAL DATA SHEET

Trichloroethylene (TCE) ACS Grade

ACS Grade

CAS NUMBER
79-01-6

ALLIANCE CODE
trichloroethylene-tce-acs-grade

GENERATED
2026-07-17

1. IDENTITY & COMPOSITION

PRODUCT NAME
Trichloroethylene (TCE) ACS Grade

ALLIANCE CODE
trichloroethylene-tce-acs-grade

GRADE
ACS Grade

CONCENTRATION
—

CAS NUMBER
79-01-6 [PubChem](#)

FORMULA
C2HCl3 [PubChem](#)

MOLECULAR WEIGHT
131.38 [PubChem](#)

PRODUCT TYPE
pure_substance

AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

GRADE	CONCENTRATION	TYPICAL ASSAY	SKU
THIS GRADE ACS Grade	—		— current
Technical Grade	—		— trichloroethylene-tce-technical-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

One or more physical-property values are temporarily suppressed pending verification against vendor COA data. For complete properties refer to the Safety Data Sheet (SDS) or contact sales@alliancechemical.com.

FORM

Liquid [Product record](#)

DENSITY

1.46 at 68 °F (USCG, 1999) – Denser than water; will sink [Product record](#)

MELTING POINT

–99 °F (NTP, 1992) [Product record](#)

VAPOR PRESSURE

60 mmHg at 68 °F ; 77 mmHg at 77 °F (NTP, 1992) [Product record](#)

ODOR

Ethereal odor [Product record](#)

BOILING POINT

189 °F at 760 mmHg (NTP, 1992) [Product record](#)

FLASH POINT

greater than 200 °F (NTP, 1992) [Product record](#)

SOLUBILITY (WATER)

less than 1 mg/mL at 70 °F (NTP, 1992) [Product record](#)

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

UN1710 [Vendor Label](#)

PACKING GROUP

III [Adjudicated](#)

HAZARD CLASS

6.1 [Adjudicated](#)

PROPER SHIPPING NAME

Trichloroethylene [Adjudicated](#)

GHS / OSHA HAZCOM 2012

SIGNAL WORD

Danger [Adjudicated](#)

H-CODES (HAZARD STATEMENTS)

H315, H319, H336, H341, H350, H412

[ECHA CLP Annex VI](#)

P-CODES (PRECAUTIONARY STATEMENTS)

P201, P202, P261, P264, P271, P273, P280, P281,
P302+P352, P305+P351+P338, P308+P313, P312,
P321, P332+P313, P337+P313, P362, P391,...

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

100 ppm TWA / 200 ppm acceptable ceiling /
300 ppm 5-min peak [OSHA 29 CFR 1910.1000](#)

ACGIH TLV

— [unknown](#)

NIOSH REL

Ca (carcinogen — minimize occupational
exposure) [NIOSH Pocket Guide](#)

NIOSH IDLH

1000 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 Trichloroethylene (TCE) ACS Grade. Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

APPLICATION GUIDANCE

Trichloroethylene (TCE) 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)

UN1710, Trichloroethylene, 6.1, PG III

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

NMFC CLASS
70

PLACARD
Toxic

PACKING GROUP
PG III

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 Trichloroethylene (TCE) ACS Grade

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