

PRODUCT IDENTIFICATION

**Product Name:** Trichloroethylene (TCE) Technical Grade**CAS Number:** 79-01-6**Molecular Formula:** C_2HCl_3 **Molecular Weight:** 131.38 g/mol**Grade:** Technical Grade**Purity / Concentration:** Not Available**Synonyms:** Trichloroethene, TCE

PRODUCT OVERVIEW

Trichloroethylene (TCE) is a colorless, volatile organic compound with a sweet odor, primarily used as an industrial solvent. It is known for its effectiveness in degreasing metals and as a solvent in various chemical processes.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay Gc Fid	%	99.7	99.5	—	GC-FID
Color (APHA)	APHA	5	—	15	ASTM D1209
Specific Gravity (20°C)	g/mL	1.467	1.459	1.47	Hydrometer @ 25°C
Non-Volatile Residue	%	0.0030	0	0.01	Residue on Ignition
Water Karl Fischer	%	0.0087	—	0.01	ASTM E203 / ISO 6296
Acidity As Acetic	ppm	3	—	10	Titration

ND = Not Detected. Values are typical and may vary by lot.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear volatile liquid	Odor	Sweet, chloroform-like odor
Form	Liquid	Boiling Point	189 °F at 760 mmHg (NTP, 1992)
Melting / Freezing Point	-99 °F (NTP, 1992)	Flash Point	greater than 200 °F (NTP, 1992)
Specific Gravity	1.46	Solubility	Low water solubility, excellent organic solvent
Molecular Formula	C_2HCl_3	Molecular Weight	131.38 g/mol
Vapor Pressure (20°C)	74 mmHg	Viscosity (25°C)	0.89 cP
Refractive Index (20°C)	1.466	Density (25°C)	1.463 g/mL

APPLICATIONS

- Industrial** — Used extensively for cleaning and degreasing metal parts in manufacturing processes.
- Manufacturing** — Acts as a solvent in the formulation of adhesives and coatings.
- Chemical Research** — Utilized in the extraction of various compounds in laboratory settings.
- Pharmaceutical** — Serves as an intermediate in the synthesis of various pharmaceuticals.
- Analytical Chemistry** — Commonly used as a solvent in chromatographic techniques for analysis.

STORAGE & HANDLING

- Store in a cool, well-ventilated area away from heat sources.
- Use materials compatible with TCE, such as HDPE or glass containers.
- Avoid contact with strong oxidizing agents and acids.
- Ensure proper PPE is worn, including gloves and goggles, when handling.
- Keep containers tightly closed to prevent evaporation and contamination.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 55 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: Danger



Hazard Statements:

- H315: Causes skin irritation [Warning Skin corrosion/irritation]
- H319: Causes serious eye irritation [Warning Serious eye damage/eye irritation]
- H336: May cause drowsiness or dizziness [Warning Specific target organ toxicity, single exposure; Narcotic effects]
- H341: Suspected of causing genetic defects [Warning Germ cell mutagenicity]
- H350: May cause cancer [Danger Carcinogenicity]
- H412: Harmful to aquatic life with long lasting effects [Hazardous to the aquatic environment, long-term hazard]

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

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