

Tetrachloroethylene

Chemical Name:	Tetrachloroethylene
Synonyms:	Perchloroethylene, PCE
CAS Number:	127-18-4
EC (EINECS) Number:	204-825-9
Revision Number:	1-2026

Chemical identification and uses

Tetrachloroethylene, also known as perchloroethylene (PCE), is a colorless liquid with a characteristic odor. It is primarily used as a solvent in dry cleaning and metal degreasing, as well as in the production of other chemicals.

Potential exposures

Exposure to tetrachloroethylene can occur in industrial and laboratory settings, primarily through inhalation, skin, and eye contact. Proper handling and adherence to safety practices are essential to minimize exposure.

Human Health hazards

- Acute toxicity: Harmful if swallowed. Toxic if inhaled.
- Skin and eye irritation: Causes skin irritation and serious eye irritation. May cause an allergic skin reaction.
- Carcinogenicity: Classified as a probable human carcinogen (Group 2A) by IARC. Confirmed as an animal carcinogen by ACGIH.
- Specific target organ toxicity: May cause drowsiness or dizziness. Affects the central nervous system.
- ACGIH has established Time Weighted Average of 25 ppm.

This product stewardship summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to provide an in-depth discussion of all health and safety information. Additional information on the chemical is available through the applicable Material Safety Data Sheet which should be consulted before use of the chemical. The product stewardship summary does not supplant or replace required regulatory and/or legal communication documents. Statements concerning use of our products are made without warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.

Product Stewardship Summary

Environmental Health hazards

- Aquatic toxicity: Toxic to fish and aquatic invertebrates. LC50 for fish (Oncorhynchus mykiss) is 5 mg/l (96 h).
- Persistence and degradability: Not readily biodegradable. May persist in the environment.
- Bioaccumulation: Has the potential to bioaccumulate in aquatic organisms.
- Environmental precautions: Prevent release into the environment. Proper containment measures should be implemented to avoid contamination.

For more detailed safety and regulatory information, please refer to the Safety Data Sheet (SDS) or contact Solstice at PSCustomerCare@Solstice.com. Additional information can also be found on PubChem.

[Tetrachloroethylene | Cl2C=CCl2 | CID 31373 - PubChem](#)

This product stewardship summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to provide an in-depth discussion of all health and safety information. Additional information on the chemical is available through the applicable Material Safety Data Sheet which should be consulted before use of the chemical. The product stewardship summary does not supplant or replace required regulatory and/or legal communication documents. Statements concerning use of our products are made without warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.