

# PERCHLOROETHYLENE

CAS Number: 127-18-4

Other Names: Tetrachloroethene; Perc; PCE; Ethylene tetrachloride

Formula:  $C_2Cl_4$

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## PRODUCT INTRODUCTION

Perchloroethylene (Tetrachloroethene) is a chlorocarbon having formula  $C_2Cl_4$ . It appears as a clear colorless volatile liquid having an ether-like odor. It is miscible with alcohol, ether, chloroform, benzene and hexane and slightly miscible with water. Tetrachloroethylene is mainly used as a cleaning solvent in dry cleaning and textile processing.

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## PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Conform
Purity (without stabilizer)	$\geq 99.90$ % w/w
Moisture	$\leq 30$ mg/kg
Color	$\leq 15$ APHA
Non-Volatile Residue	$\leq 30$ mg/kg
Alkalinity (NaOH)	$\leq 30$ mg/kg
Acid Acceptance (NaOH)	$\leq 0.3$ g/kg
Density Range (25/25 °C)	1.616 – 1.621
Odor	Conform
Cu corr. , wt loss, Flask	$\leq 10$ mg
Cu corr., wt loss, Soxhlet	$\leq 20$ mg
Cu corr., wt loss, Condenser	$\leq 20$ mg
Cu corr., wt loss, Acid	$\leq 15$ mL

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## APPLICATION

- Tetrachloroethylene is used as a solvent.
- It is involved in dry cleaning as well as in degreasing of metal parts.
- It finds application as a neutrino detector.
- It is utilized as a paint stripper and as a spot remover in consumer products.

- It acts as a precursor for the manufacture of other chemicals.
- It plays an important role in water repellants, paint removers, printing inks, glues, sealants, polishes and lubricants.
- As a film-forming electrolyte additive, it is used in the manufacture of lithium ion batteries and is actively involved as an extraction solvent in the determination of oil and grease in water by FT-IR.

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## **PACKAGING OPTIONS**

Drums

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