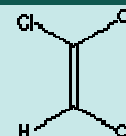


# TRICHLOROETHYLENE

## PRODUCT IDENTIFICATION

CAS NO	79-01-6
EINECS NO.	201-167-4
FORMULA	$\text{ClCH}=\text{CCl}_2$
MOL WT.	131.39
H.S. CODE	2903.22
TOXICITY	Oral rat LD50: 5650 mg/kg
SYNONYMS	Trichloroethene; TCE; Acetylene trichloride; Ethinyl trichloride; 1,1,2-Trichloroethylene; 1,1-Dichloro-2-chloroethylene; 1,2,2-Trichloroethylene; 1-Chloro-2,2-dichloroethylene; Benzinol; Blacosolv; Blancosolv; Chlorilen; Chlorylen; Circosolv; Ethylene trichloride; Threthylene; Trichloraethen; Trichloraethen (German); Trichloraethylen, tri (German); Trichloran; Trichlorethene (French); Trichlorethylene, tri (French); Tricloretene (Italian); Tricloroetilene (Italian); Trielina (Italian);
DERIVATION	chlorination of ethylene or ethylene dichloride
CLASSIFICATION	



## GENERAL DESCRIPTION

Trichloroethylene is a heavy, stable, toxic, nonflammable liquid with a chloroform aroma; boiling at 87 C; slightly soluble in water, soluble with greases and common organic solvents; Trichloroethylene is prepared by the chlorination of ethylene or ethylene dichloride. Because of concerns about its toxicity, the use is declining. It is prohibited to use in food, drugs and cosmetics. It is now mainly used in vapor degreasing of fabricated or assembling metal parts. It is also used as an industrial solvent in extraction processes, as a diluent in paints and adhesives, in textile processing, and other ways. It is used as a chain terminator for PVC production. It is also used as a refrigerant, as a heat exchange liquid, as a chemical intermediate or raw material in the production of chloroacetic acid, pesticides, gums, resins, tars, paints and varnishes. It is used in dry cleaning operations.

## PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Clear, colorless liquid with mild chloroform-like odor
MELTING POINT	-73 C
BOILING POINT	85 - 87 C
SPECIFIC GRAVITY	1.463
SOLUBILITY IN WATER	slightly soluble
pH	
VAPOR DENSITY	4.5
AUTOIGNITION	414 C
NFPA RATINGS	Health: 2 Flammability: 1 Reactivity: 0
REFRACTIVE INDEX	1.4760
FLASH POINT	None
STABILITY	Stable under ordinary conditions

## APPLICATIONS

vapor degreasing of fabricated or assembling metal parts; as a solvent in other ways; chemical intermediate;

## SALES SPECIFICATION

APPEARANCE	clear liquid
SPECIFIC GRAVITY	1.45 - 1.46
ACIDITY	0.2% max
NONVOLATILES	20ppm
DISTILLATION RANGE	86 - 88 C (IBP - DP)
WATER	0.1% max
FREE CHLORINE	Not detected
COLOR (APHA)	15 max

## TRANSPORTATION

PACKING	300kgs in Drum
HAZARD CLASS	6.1 (Packing Group: III)
UN NO.	1710

## OTHER INFORMATION

European Hazard Symbols: XN, Risk Phrases: 40/52/53, Safety Phrases: 23/36/37/61