

Trichloroethylene

DESCRIPTION

Trichloroethylene is produced by the Chlorination of Acetylene gas.

CHEMICAL NAME & FORMULA

TriChloroEthylene
 C_2HCl_3

CHEMICAL FORMATION

Liquid

INPUT

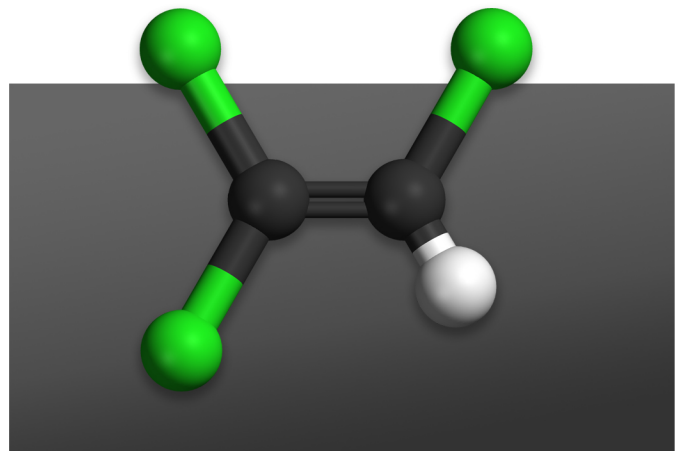
Calcium Carbide
 & Chlorine

OUTPUT

Trichloroethylene

APPLICATIONS

Trichloroethylene is commonly used as a solvent degreasing agent and in refrigerant manufacturing.



Product Properties

Description	Trichloroethylene
Appearance	Colourless Solvent
Corrosive	Yes
Flammability	Flammable
Solubility	Not Soluble
Boiling Point	189°F (87°C)
Melting / Freezing Point	-99°F (-73°C)
Specific Gravity	1.51 at 27°C

Product Specifications

Characteristics	Type 1	Type 2
Colour	20 max.	20 max.
Relative Density at 27°C / 27°C	1.452 to 1.4580	1.447 to 1.4580
Alkalinity as Na₂CO₃ %	0.005 to 0.02	0.0025 max.
Distillation Yield between 86 and 88°C (the temperature being corrected for 760mm Hg Pressure) % by volume	97 to 98	97 to 98
Stability under reflux	Not Applicable	Passes The Test
Residue on Evaporation Mg/100 ml	15 max.	15 max.
Free Chlorine	NIL	NIL
Moisture in ppm	200 max.	200 max.
Resistance to Corrosion	Passes	Passes

Related Information

PACKAGING & HANDLING

Trichloroethylene can be packed in M.S. Drums, HDPE Barrels, Tanker Trucks, Cans, etc. for both, domestic & international marketing.

TRANSPORT CLASSIFICATION

U.N. No. 1710
IMCO Class 6
IMDG Page 6273

PRODUCT USAGES

In metal degreasing, dry cleaning drying electronic parts, as an extractions solvent for oils fats, waxes, refrigerant and also as a fumigant.



Product Safety Data

Name of Product	Trichloroethylene
Composition / Components	Trichloroethylene
Hazard Identification	IMCO Class 6
First Aid Measures	<p>If inhaled, move victim to fresh air area and apply artificial respiration. In case of ingestion, have victim drink water and induce vomiting.</p> <p>Skin: Remove wetted clothes under shower of water and wash affected area with plenty of water and soap.</p> <p>Eyes: Flush with plenty of water for 15 minutes. Seek medical aid.</p>
Measures For Fire Fighting	Not Flammable
First Aid Measures In Case Of Unintentional Release	Shut off leaks and contain liquid on earth or sand.
Handling & Storage	Keep in cool, dry, adequately ventilated place. Preserve in sealed light resistant containers.
Exposure Limit & Staff Protection Equipment	Provide Neoprene hand gloves, suit, side-covered goggles, air-line mask, self-contained breathing apparatus.
Physical & Chemical Properties	<p>Colourless liquid with characteristic odour of Chloroform.</p> <p>Sp. Gravity at 20°C (water) is 1.464</p> <p>Solubility in water at 30°C - Not Soluble</p> <p>Soluble in Ether, Alcohol, chloroform</p>
Stability & Reactivity	Chemically Stable. Can react vigorously with Aluminium, Barium, Lithium, Magnesium, Ozone, Potassium Hydroxide, Potassium Nitrate, Sodium, Sodium Hydroxide, etc.
Information Of Toxicology	Emits Toxic fumes of Chlorine on combustion.
Information About Waste Disposal	Allow the liquid to evaporate into atmosphere at a safe isolated place.
Information About Transport	Transportable on road trucks in M.S./HMHDPE Barrels with the bungs tight and up position.
Statutory Regulatory Information	<p>Shipping Name: Trichloroethylene</p> <p>Solution / Solid. Hazchem Code 2Z</p> <p>Codes / Label Poison, Class 6</p>
Other Information	<p>U.N. No. 1710</p> <p>IMDG Page: 6273</p> <p>IMCO Class 6</p> <p>C.A.S. No. 79-01-6</p>