

trans-1,2 Dichloroethylene (t-DCE)

trans-1,2 DCE; 1,2 trans-dichloroethene

Chemical/Physical Properties:

- Strong Solvent
- Flammable
- Fast Evaporation Rate
- Clear, Colorless
- Light Ether-Like Odor
- Insoluble in Water
- Compatible with Petroleum Solvents and Propellants, Alcohols, Ketones, Glycol Ethers, Fluorinated Solvents, and Propellants

Applications:

- Precision Cleaning in Electronics and Computer Components
- Vapor Degreasing
- Aerosol Cleaning
- Foam Blowing
- Specialty Cleaning Products
- Co-solvent in Paints, Adhesives, Lubricants, Penetrating Fluids
 - * Enhances functionality and economics of blends
 - * Replacement for MeCl, nPB, PERC, and TCE

Physical Properties

Molecular Weight	96.95
CAS #	156-60-5
Chemical Formula	C ₂ H ₂ Cl ₂
Chemical Family	CHC
Boiling Point	118 F (48 C)
Flash Point (Closed Cup)	36 F (2.2 C)
Freezing Point	-56.9 F (-49.4C)
Kauri-Butanol Value (KB)	117
Vapor Density (air = 1.00)	3.34
Liquid Density, lb/gal (kg/L)	10.53 (1.26)
Vapor Pressure, kPa @ 25 C	44.8
Autoignition Temp	460 C
Flammability Limits in Air, % by vol.	LEL: 6.7% UEL: 18%
Specific Gravity @ 25 C	1.27
Viscosity, cP @ 20 C	0.41
Solubility in Water @ 70 F	< 0.1%
Dielectric Strength (0.1 in gap)	39.0 kV

Environmental Properties:

- SEPA SNAP approved solvent in aerosol, electronic, metal, precision cleaning applications, and some foam blowing formulations
- Occupational Exposure Limit is 200 ppm (8 hr TWA)

Environmental Properties

Global Warming Potential (GWP)	None
Ozone Depleting Potential (ODP)	None
Volatile Organic Compound (VOC)	Yes

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