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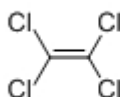
Site: www.tnjchem.com

## Technical Data Sheet

# Perchloroethylene

### Product Information

Product Name	Perchloroethylene
Synonyms	PCE;Tetrachloroethylene;Porklone;Carbon bichloride
CAS No.	127-18-4
EINECS No.	204-825-9
Molecular formula	C2Cl4
Molecular weight	165.83
Chemical structure	



### Physical Properties

Appearance	Colorless transparent liquid
Melting Point	-22°C
Boiling Point	120~122°C
Flashing Point	27.4°C
Density	1.625 g/mL at 25°C
Solubility in water	<0.1mg/ml
Refractive index	1.505
Vapor pressure	19.3mmHg at 25°C
Vapor density	5.83 (vs air)
Solubility	Miscible with alcohol, ether, chloroform, benzene, hexane. It dissolves in most of the fixed and volatile oils. Solubility in water: 0.015 g/100 ml at 25°C. It slowly decomposes in water to yield Trichloroacetic and Hydrochloric acids.

### Specification

### 1) Dry Cleaning Grade

<u>Items</u>	<u>Specification</u>
Appearance	Colorless transparent liquid without impurities emulsified and suspended particles
Color, Pt-Co	≤15
Density,ρ20	1.620 ~ 1.624g/cm <sup>3</sup>
Water content	≤50ppm
Non Volatile Matter	≤10ppm
Alkalinity as NaOH	≤30ppm
PH Value	8.0 ~ 9.0
Purity	≥99.90%

### 2) Catalyst Grade

<u>Items</u>	<u>Specification</u>
Appearance	Colorless transparent liquid without suspension and sediment
Color, Pt-Co	≤10
Density,ρ20	1.620 ~ 1.628 g/cm <sup>3</sup>
Moisture	≤30ppm
Non Volatile Matter	≤10ppm
Stabilizers	≤5ppm
PH Value	6.0 ~ 7.5
Oxygen and Nitrogen compounds	≤10ppm
Chlorine	≤1ppm
Free Chlorine	Pass test
Purity	≥99.99%

### Safety

DOT Classification: CLASS 6.1: Poisonous material.  
Identification: : Tetrachloroethylene UNNA: 1897 PG: III  
Special Provisions for Transport: Marine Pollutant  
Always refer to the Material Safety Data Sheet (MSDS)

### Applications

- 1) Mainly used as organic solvent, dry cleaning agent and metal degreaser as well as anthelmintic.
- 2) It can be applied to all kinds of nature and synthetic fabrics as a dry cleaner, and the fabric will be soft, glossy, odorless, fade proof, in shape and free of damage after being washed.
- 3) Used as fatty extracting and the raw material for HCFC-123. CFC-124,CFC-125,HCFC-134a etc.
- 4) It is mainly used for the chloride catalyst in the process of oil refining.

### Packaging

300kg per drum, packed in iron drum;  
Total 24 MT per 20ft container on pallets or without pallets

### **Storage & Handling**

Keep away from heat and flame. Store in a cool, dry place. Keep containers tightly closed.  
Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.*

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