

# 1,2 DICHLORPROPAN

## TECHNICAL GRADE

Last revision 2008

**Chemical Name:** Molecular formula:  $C_3H_6Cl_2$   
 No. CAS: 78-87-5  
 Abbreviation: DCP  
 Propylene dichloride

### General Description:

1,2-Dichloropropane is produced by the chlorination of propylene.

1,2-Dichloropropane (dichloropropane) is an organic liquid with a chloroform-like odor, a flammable solvent that evaporates quickly at room temperature. The product is very stable when dry; in presence of humidity it decomposes relatively quickly and releases hydrogen chloride. Its vapors are easily inflammable and they form explosive mixtures with oxygen within 3.4-14.5% limits. When burning, hydrogen chloride and phosgene are released. By exposing the product to air or light, it becomes black.

Maximum permissible concentration of 1,2 Dichloropropane in the environment is of 100mg/m<sup>3</sup> of air.

1,2-Dichloropropane is used as degreaser and dry cleaning fluid.

### Technical Quality Conditions:

Characteristics	MU	Values	Test methods
Appearance	-	Yellow greenish liquid	visual
1,2 Dichloropropane, min.	%	99	ILL-003/1-03-21
Epichlorhydrin, max	%	0.3	ILL-003/1-03-21
Water (Karl-Fischer), max.	%	0.05	ASTM E 203
Distillation range (95% vol)	°C	94-97	ASTM D 1078
Color, max.	Hazen units	30	SR ISO 2211
Acidity (HCl) ABT, max	%	0.05	ASTM D 2989

### Specific Properties:

Density at 20°C, g/cm <sup>3</sup>	1.156
Boiling temperature, °C	95-96
Ignition temperature, °C	15
Index of refraction at 20°C	1.438-1.440

*The specific properties present approximate values and contain general information, without being part of the technical quality conditions.*

## Main Applications:

- as solvent in organic synthesis and polystyrene industry;
- as degreasing substance; as detergent;
- to obtain adhesives used in road constructions;
- as raw material in organic synthesis.

**Shipping information:** railroad or road tanks from carbon steel, stainless steel or galvanized iron.

## Storage:

Dichloropropane is stored in containers in clean and dry storage area protected against weather conditions. The product should be stored under nitrogen atmosphere, at max. 20°C. Protect containers against physical damage and check regularly for leaks.

Under given conditions six-month storage life is guaranteed.

## Safety Considerations:

Please refer to the product Material Safety Data Sheet (MSDS) offering customers help to better satisfy their particular handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations.

## Warning:

Dichloropropane is a flammable product. Keep the liquid and its vapors away from sparks and open flames. When dichloropropane enters the environment, it can seep into the groundwater or evaporate into the air.

**MATERIALS TO AVOID:** Strong acids, oxidizers, and active metals. Reacts with aluminum to form aluminum chloride and this reaction, when confined, leads to a violent explosion.

The product can cause Central Nervous System depression. May cause liver, kidney and heart damage, irritation to the eyes, skin and respiratory tract.

## Attention:

Information contained in this document is provided to the best of our knowledge and experience. Please contact OLTCHIM to see if the document has been revised.

## Important:

For a better suitability of the product for your particular purpose, tests are recommended prior product use. You are advised to make your own determination as to safety, appropriate manner of handling, storage, use and disposal. All the information contained in this product technical sheet is offered for your consideration, investigation and verification. The data is presented in good faith and is believed to be reliable. You should not consider the descriptions, information, data or design as a part of our terms and conditions of sale. We expressly disclaim responsibility or liability for any loss, damage or expense arising out of reliance on the information provided herein.