### Physical Properties

Chlorinated Solvents are clear, colorless liquids that are free of suspended matter. They are used in a wide variety of applications, primarily for their solvency and low fire hazard.

<table>
<thead>
<tr>
<th>CAS#</th>
<th><strong>METHYLENE CHLORIDE</strong></th>
<th><strong>PERCHLOROETHYLENE</strong></th>
<th><strong>TRICHLOROETHYLENE</strong></th>
<th><strong>1,1,1 TRICHLOROETHANE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>71-55-06</td>
<td>AEROTHEME* MM</td>
<td>PERCHLOROETHYLENE, INDUSTRIAL</td>
<td>NEU-TRI*</td>
<td>1,1,1 TRICHLOROETHANE</td>
</tr>
<tr>
<td></td>
<td>METHYLENE CHLORIDE, TECHNICAL GRADE</td>
<td>PERCHLOROETHYLENE, SVG DOUBLE STABILIZED ISOFORM*, ISOMERIZATION GRADE ISOFORM*, REFORMING GRADE</td>
<td>HI-TRI*</td>
<td>1,1,1 TRICHLOROETHANE</td>
</tr>
<tr>
<td>75-09-02</td>
<td>METHYLENE CHLORIDE, URETHANE GRADE</td>
<td>METHYLENE CHLORIDE, FCC/NF</td>
<td>CAS# 79-01-06</td>
<td>CAS# 71-55-06</td>
</tr>
</tbody>
</table>

### Freezing Point

- **METHYLENE CHLORIDE**: -139°F (-95.0°C)
- **PERCHLOROETHYLENE**: -9°F (-22.8°C)
- **TRICHLOROETHYLENE**: -123.7°F (-86.4°C)
- **1,1,1 TRICHLOROETHANE**: -9°F (-22.8°C)

### Molecular Weight

- **METHYLENE CHLORIDE**: 84.9
- **PERCHLOROETHYLENE**: 165.4
- **TRICHLOROETHYLENE**: 131.4
- **1,1,1 TRICHLOROETHANE**: 165.4

### Boiling Point

- **METHYLENE CHLORIDE**: 103.5°F (39.7°C)
- **PERCHLOROETHYLENE**: 325°F (121°C)
- **TRICHLOROETHYLENE**: 189°F (87°C)
- **1,1,1 TRICHLOROETHANE**: 133.4°F (56.9°C)

### Flash Point

- **METHYLENE CHLORIDE**: NONE
- **PERCHLOROETHYLENE**: NONE
- **TRICHLOROETHYLENE**: NONE
- **1,1,1 TRICHLOROETHANE**: NONE

### Solubility Parameter

- **METHYLENE CHLORIDE**: 1.90
- **PERCHLOROETHYLENE**: 2.84
- **TRICHLOROETHYLENE**: 2.23
- **1,1,1 TRICHLOROETHANE**: 2.62

### Optical Properties

- **METHYLENE CHLORIDE**: 1.142
- **PERCHLOROETHYLENE**: 1.503
- **TRICHLOROETHYLENE**: 1.474
- **1,1,1 TRICHLOROETHANE**: 1.435

### Dielectric Properties

- **METHYLENE CHLORIDE**: > 24,000 V
- **PERCHLOROETHYLENE**: > 45,700 V
- **TRICHLOROETHYLENE**: > 30,000 V
- **1,1,1 TRICHLOROETHANE**: > 30,000 V

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**OSHA PEL ppm (mg/m³)**
- **METHYLENE CHLORIDE**: 25
- **PERCHLOROETHYLENE**: 25
- **TRICHLOROETHYLENE**: 25
- **1,1,1 TRICHLOROETHANE**: 25

**ACGIH TLV ppm (mg/m³)**
- **METHYLENE CHLORIDE**: 175
- **PERCHLOROETHYLENE**: 168
- **TRICHLOROETHYLENE**: 335
- **1,1,1 TRICHLOROETHANE**: 335

**Electrical Conductivity @ 20° mho**
- **METHYLENE CHLORIDE**: 4.3 x 10⁻¹¹
- **PERCHLOROETHYLENE**: 8 x 10⁻¹²
- **TRICHLOROETHYLENE**: 7.3 x 10⁻⁹
- **1,1,1 TRICHLOROETHANE**: N/A

**Dielectric Strength**
- **METHYLENE CHLORIDE**: > 24,000 V
- **PERCHLOROETHYLENE**: > 45,700 V
- **TRICHLOROETHYLENE**: > 30,000 V
- **1,1,1 TRICHLOROETHANE**: > 30,000 V

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Form No. 100-06358

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1Occupational Safety and Health Administration Permissible Exposure Limit
2American Conference of Governmental Industrial Hygienists - Threshold Limit Value
Chlorinated Solvents

Physical Properties

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