



Standard Specification for Reclaimed Methylene Chloride^{1,2}

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1. Scope

1.1 This specification covers the grade of methylene chloride typically needed in various industries for noncritical applications, such as in paint stripping formulations. It may be used as a reference document by purchasers or by persons establishing in-house methylene chloride recovery programs.

2. Referenced Documents

2.1 ASTM Standards:

- D 2108 Test Method for Color of Halogenated Organic Solvents and Their Admixtures (Platinum-Cobalt Scale)³
- D 2109 Test Methods for Nonvolatile Matter in Halogenated Organic Solvents and Their Admixtures³
- D 2111 Test Methods for Specific Gravity of Halogenated Organic Solvents and Their Admixtures³
- D 2988 Test Method for Water-Soluble Halide Ion in Halogenated Organic Solvents and Their Admixtures³
- D 2989 Test Method for Acidity-Alkalinity of Halogenated Organic Solvents and Their Admixtures³
- D 3401 Test Methods for Water in Halogenated Organic Solvents and Their Admixtures³
- D 3741 Test Method for Appearance of Admixtures Containing Halogenated Organic Solvents³
- D 6806 Practice for Analysis of Halogenated Organic Solvents and Their Admixtures by Gas Chromatography³
- E 1064 Test Method for Water in Organic Liquids by Coulometric Karl Fischer Titration³

¹ This specification is under the jurisdiction of ASTM Committee D26 on Halogenated Organic Solvents and Fire Extinguishing Agents and is the direct responsibility of Subcommittee D26.02 on Vapor Degreasing.

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² Methylene chloride: CAS #75-09-02.

³ *Annual Book of ASTM Standards*, Vol 15.05.

TABLE 1 Physical Properties

Property	Specification	Test Method
Specific gravity, 25/25	1.318 to 1.323	D 2111
Acidity, as HCl, ppm, max	1.0	D 2989
Water, ppm, max	500	D 3401 or E 1064
Appearance	Clear and free from suspended matter	D 3741
Color, Pt-Co, max	50	D 2108
Nonvolatile residue, ppm, max	50	D 2109
Chloride, ppm, max	1.0	D 2988
Assay, weight %	95.0	D 6806
1,1,1-Trichloroethane content, weight %, max	0.5	D 6806

2.2 U.S. Government Documents:⁴

- 49 CFR 100 to 199 Department of Transportation Hazardous Materials Regulations
- 29 CFR 1919.1200 Department of Labor, OSHA Regulations on Hazard Communications

3. Properties

3.1 Reclaimed methylene chloride shall meet the requirements of Table 1.

4. Packaging and Package Marking

4.1 Package and label industrial or commercial quantities in accordance with DOT regulations as found in 49 CFR 100 to 199, and in accordance with state and local regulations, and with OSHA regulations found in 29 CFR 1910.1200.

5. Keywords

5.1 dichloromethane; halogenated solvent; MCL; MCH; MeCl; methylene chloride; reclaimed

⁴ The Code of Federal Regulations may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.