



Designation: D4701 – 00(Reapproved 2011)

Standard Specification for Technical Grade Methylene Chloride¹

This standard is issued under the fixed designation D4701; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers technical grade methylene chloride.

1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

NOTE 1—See Practices D3844 and D4276 and STP 403A² for additional important information on solvent handling and solvent properties.

2. Referenced Documents

2.1 *ASTM Standards:*³

D2108 Test Method for Color of Halogenated Organic Solvents and Their Admixtures (Platinum-Cobalt Scale)

D2109 Test Methods for Nonvolatile Matter in Halogenated Organic Solvents and Their Admixtures

D2111 Test Methods for Specific Gravity and Density of Halogenated Organic Solvents and Their Admixtures

D2989 Test Method for Acidity-Alkalinity of Halogenated Organic Solvents and Their Admixtures

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 D26.03 on Cold Cleaning.

Current edition approved Aug. 1, 2011. Published November 2011. Originally approved in 1987. Last previous edition approved in 2006 as D4701 – 00 (2006). DOI: 10.1520/D4701-00R11.

² *Cold Cleaning with Halogenated Solvents, ASTM STP 403 A*, ASTM, 1981.

³ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

D3401 Test Methods for Water in Halogenated Organic Solvents and Their Admixtures

D3741 Test Methods for Appearance of Admixtures Containing Halogenated Organic Solvents

D3844 Guide for Labeling Chlorinated Hydrocarbon Solvent Containers

D4276 Practice for Confined Area Entry

D4755 Test Method for Free Halogens in Halogenated Organic Solvents and Their Admixtures

E300 Practice for Sampling Industrial Chemicals

2.2 *Federal Documents:*

29 CFR, Section 1910.1200 Department of Labor, OSHA Regulations on Hazard Communication⁴

49 CFR, Sections 100 to 199 Department of Transportation Hazardous Materials Regulations⁴

3. Chemical Properties

3.1 Technical grade methylene chloride shall conform to the requirements prescribed in Table 1.

4. Sampling

4.1 Conduct sampling by any of the appropriate procedures for simple liquids as specified in Practice E300.

5. Packaging and Package Marking

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

6. Keywords

6.1 dichloromethane; methylene chloride

⁴ The *Code of Federal Regulations*, Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, <http://www.access.gpo.gov>.