



Designation: D4079 – 00 (Reapproved 2022)

Standard Specification for Vapor-Degreasing Grade Methylene Chloride¹

This standard is issued under the fixed designation D4079; 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.

1. Scope

1.1 This specification covers vapor-degreasing 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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

NOTE 1—Guide D3844, Practice D4276, and MNL2² provide additional important information on vapor degreasing and solvent properties.

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

- 2.1 *ASTM Standards:*³
- D1078 Test Method for Distillation Range of Volatile Organic Liquids
 - D2108 Test Method for Color of Halogenated Organic Solvents and Their Admixtures (Platinum-Cobalt Scale)

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.

Current edition approved May 1, 2022. Published May 2022. Originally approved in 1981. Last previous edition approved in 2016 as D4079-00 (2016). DOI: 10.1520/D4079-00R22.

² *Manual on Vapor Degreasing, MNL2, third edition, ASTM.*

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.

- 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
- D2942 Test Method for Total Acid Acceptance of Halogenated Organic Solvents (Nonreflux Methods)
- D2989 Test Method for Acidity-Alkalinity of Halogenated Organic Solvents and Their Admixtures
- 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 (Withdrawn 2013)⁴
- D4276 Practice for Confined Area Entry
- 2.2 Code of Federal Regulations:⁵
 - 29 CFR 1910.1200 Department of Labor, OSHA Regulations, Hazard Communication
 - 49 CFR Parts 100 to 199 Department of Transportation Hazardous Materials Regulations

3. Properties

3.1 Vapor-degreasing grade methylene chloride shall conform to the requirements prescribed in Table 1.

4. Packaging

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

5. Keywords

5.1 dichloromethane; methylene chloride; vapor-degreasing solvent

⁴ The last approved version of this historical standard is referenced on www.astm.org.

⁵ Available from U.S. Government Publishing Office (GPO), 732 N. Capitol St., NW, Washington, DC 20401-0001, <http://www.gpo.gov>.

TABLE 1 Properties

Property	Specification	Test Method
Specific gravity, 25/25 °C	1.300 to 1.325	D2111
Distillation Range (760 mm Hg)		D1078
Initial boiling point, °C, min	39.0	
Dry point, °C, max	45.0	
Acidity (as HCl), weight, %, max	0.0010	D2989
Water, weight, %, max	0.0100	D3401
Appearance	clear and free from suspended matter	D3741
Color, Pt-Co, max	20	D2108
Nonvolatile residue, weight, %, max	0.0025	D2109
Acid acceptance (as NaOH), weight, %, min	0.160	D2942

ASTM International takes no position respecting the validity of any patent rights asserted in connection with any item mentioned in this standard. Users of this standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, are entirely their own responsibility.

This standard is subject to revision at any time by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn. Your comments are invited either for revision of this standard or for additional standards and should be addressed to ASTM International Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. If you feel that your comments have not received a fair hearing you should make your views known to the ASTM Committee on Standards, at the address shown below.

This standard is copyrighted by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959, United States. Individual reprints (single or multiple copies) of this standard may be obtained by contacting ASTM at the above address or at 610-832-9585 (phone), 610-832-9555 (fax), or service@astm.org (e-mail); or through the ASTM website (www.astm.org). Permission rights to photocopy the standard may also be secured from the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, Tel: (978) 646-2600; <http://www.copyright.com/>


 (https://standards.iteh.ai)
 Document Preview

[ASTM D4079-00\(2022\)](#)

<https://standards.iteh.ai/catalog/standards/sist/b2f804d4-5ef8-4cf5-be14-e59bedfb04f8/astm-d4079-002022>