



Designation: **D4376 – 02 (Reapproved 2012) D4376 – 15**

Standard Specification for Vapor-Degreasing Grade Perchloroethylene¹

This standard is issued under the fixed designation D4376; 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*~~Scope~~

1.1 This specification covers vapor-degreasing grade perchloroethylene.²

NOTE 1—Guide [D3844](#) and Practice [D4276](#) provide additional important information on solvent properties.

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.*

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)~~

~~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)~~

~~D2988 Test Methods for Water-Soluble Halide Ion in Halogenated Organic Solvents and Their Admixtures~~

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

~~D3316 Test Method for Stability of Perchloroethylene with Copper~~

~~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~~D3844 Guide for Labeling Chlorinated Hydrocarbon Solvent Containers (Withdrawn 2013)⁴~~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~~

~~D6806 Practice for Analysis of Halogenated Organic Solvents and Their Admixtures by Gas Chromatography~~

2.2 *Other Documents:*⁵

~~49 CFR 100 to 199~~ [CFR 100 to 199](#) Department of Transportation Hazardous Materials Regulations

~~29 CFR 1910.1200~~ [CFR 1919.1200](#) Department of Labor, OSHA Regulations on Hazard Communications

3. Properties

3.1 Vapor-degreasing grade perchloroethylene shall conform to the requirements prescribed in [Table 1](#).

4. Packaging and Package Marking

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

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 Contains inhibitors.

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.

⁴ The last approved version of this historical standard is referenced on [www.astm.org](#).

⁵ ~~The Code of Federal Regulations, may be obtained from the U.S. Government Printing Office Superintendent of Documents, Available from U.S. Government Publishing Office, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, [http://www.access.gpo.gov/20401-0001](#), [http://www.gpo.gov](#).~~

*A Summary of Changes section appears at the end of this standard