



Designation: D5960 – 03 (Reapproved 2023)

# Standard Specification for Technical Grade Ethylene Dichloride<sup>1</sup>

This standard is issued under the fixed designation D5960; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

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

## 1. Scope

1.1 This specification covers technical grade ethylene dichloride.

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 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:*<sup>2</sup>

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

[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](#)

[D3401 Test Methods for Water in Halogenated Organic Solvents and Their Admixtures](#)

[D6806 Practice for Analysis of Halogenated Organic Solvents and Their Admixtures by Gas Chromatography](#)

2.2 *U.S. Government Documents:*<sup>3</sup>

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

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

## 3. Chemical Composition

3.1 Technical grade ethylene dichloride 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.

## 5. Keywords

5.1 1,2-dichloroethane; ethylene dichloride

<sup>1</sup> 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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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

<sup>3</sup> The *Code of Federal Regulations* may be obtained from U.S. Government Publishing Office (GPO), 732 N. Capitol Street, NW, Washington, DC 20401, <http://www.gpo.gov>.

**TABLE 1 Technical Grade Ethylene Dichloride Requirements**

Property	Specification	Test Method
Color, Pt-Co, max	10	D2108
Ethylene Dichloride, Weight %, min	99.8	D6806
Specific Gravity, 25/25 °C	1.248–1.252	D2111
Acidity (as HCl), ppm, max	10	D2989
Water, ppm, max	200	D3401

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