



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

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## 1. Scope

1.1 This specification covers technical grade ethylene dichloride.

## 2. Referenced Documents

### 2.1 ASTM Standards:

- D 2108 Test Method for Color of Halogenated Organic Solvents and Their Admixtures (Platinum-Cobalt Scale)<sup>2</sup>
- D 2111 Test Methods for Specific Gravity of Halogenated Organic Solvents and Their Admixtures<sup>2</sup>
- D 2989 Test Method for Acidity-Alkalinity of Halogenated Organic Solvents and Their Admixtures<sup>2</sup>
- D 3401 Test Methods for Water in Halogenated Organic Solvents and Their Admixtures<sup>2</sup>
- D 6806 Practice for Analysis of Halogenated Solvents and Their Admixtures by Gas Chromatography<sup>2</sup>

### 2.2 U. S. Government Documents:

- 49 CFR 100 to 199 Department of Transportation Hazardous Materials Regulations<sup>3</sup>

<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> *Annual Book of ASTM Standards*, Vol 15.05.

<sup>3</sup> The Code of Federal Regulations may be obtained from the Superintendent of Documents, U. S. Government Printing Office, Washington, DC 20402.

**TABLE 1 Technical Grade Ethylene Dichloride Requirements**

Property	Specification	Test Method
Color, Pt-Co, max	10	D 2108
Ethylene Dichloride, Weight %, min	99.8	D 6806
Specific Gravity, 25/25°C	1.248–1.252	D 2111
Acidity (as HCl), ppm, max	10	D 2989
Water, ppm, max	200	D 3401

- 29 CFR 1919.1200 Department of Labor, OSHA Regulations on Hazard Communications<sup>3</sup>

## 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 ethylene dichloride; 1,2-dichloroethane

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