



Designation: D7509 – 09 (Reapproved 2021)

## Standard Specification for Fluorocarbon Feedstock Grade Chloroform<sup>1</sup>

This standard is issued under the fixed designation D7509; 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.

### 1. Scope

1.1 This specification specifies chloroform (trichloromethane) that is suitable for use as feedstock for fluorocarbons.

1.2 *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.*

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)

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

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

<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 D26.08 on Halogenated Organics Used as Feed Stocks.

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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.

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

D3741 Test Methods for Appearance of Admixtures Containing Halogenated Organic Solvents

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

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

2.2 *Federal Documents:*<sup>3</sup>

29 CFR 1910.1200 Department of Labor, OSHA Regulations on Hazard Communication

49 CFR 100 to 199 Department of Transportation Hazardous Materials Regulations

### 3. Properties

3.1 Fluorocarbon feedstock grade chloroform shall conform to the requirements prescribed in Table 1.

### 4. Packaging

4.1 Package and label industrial or commercial quantities in accordance with Department of Transportation (DOT) regulations in 49 CFR 100 to 199, in accordance with state and local regulations, and in accordance with Occupational Safety and Health Administration (OSHA) regulations found in 29 CFR 1910.1200.

### 5. Keywords

5.1 chloroform; feedstock; fluorocarbon; trichloromethane

<sup>3</sup> *Code of Federal Regulations*, 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	ASTM Test Method
Appearance	Clear, free of sediment and suspended matter	D3741
Water, ppm, max	50	D3401
Non-volatile residue, ppm, max	10	D2109
Color, PtCo, Max	10	D2108
Free halogens, ppm, max	1	D4755
Acidity as HCl, ppm, max	5	D2989
1,1-Dichloroethane, ppm, max	80	D6806
Carbon Tetrachloride, ppm, max	50	D6806
Methylene Chloride, ppm, max	50	D6806
1,2-Dichloroethylene, ppm, max	100	D6806
Assay, wt, %, min	99.95	D6806

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