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.

Designation: D3694 – 96 (Reapproved 2024)

Standard Practices for Preparation of Sample Containers and for Preservation of Organic Constituents[1]

This standard is issued under the fixed designation D3694; 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 These practices cover the various means of (*1*) preparing sample containers used for collection of waters to be analyzed for organic constituents and (*2*) preservation of such samples from the time of sample collection until the time of analysis.

1.2 The sample preservation practice is dependent upon the specific analysis to be conducted. See Section 9 for preservation practices listed with the corresponding applicable general and specific constituent test method. The preservation method for waterborne oils is given in Practice D3325. Use of the information given herein will make it possible to choose the minimum number of sample preservation practices necessary to ensure the integrity of a sample designated for multiple analysis. For further considerations of sample preservation, see the *Manual on Water*.[2]

1.3 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.4 *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.* For specific hazard statements, see 6.7, 6.24, and 8.1.3.

1.5 *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]

D1129 Terminology Relating to Water
D1193 Specification for Reagent Water
D1252 Test Methods for Chemical Oxygen Demand (Dichromate Oxygen Demand) of Water
D1783 Test Methods for Phenolic Compounds in Water
D2036 Test Methods for Cyanides in Water
D2330 Test Method for Methylene Blue Active Substances
D2579 Test Method for Total Organic Carbon in Water (Withdrawn 2002)[4]
D2580 Test Method for Phenols in Water by Gas-Liquid Chromatography (Withdrawn 2021)[4]
D2908 Practice for Measuring Volatile Organic Matter in Water by Aqueous-Injection Gas Chromatography
D3113 Test Methods for Sodium Salts of EDTA in Water (Withdrawn 2005)[4]
D3325 Practice for Preservation of Waterborne Oil Samples
D3371 Test Method for Nitriles in Aqueous Solution by Gas-Liquid Chromatography (Withdrawn 2002)[4]
D3534 Test Method for Polychlorinated Biphenyls (PCBs) in Water (Withdrawn 2003)[4]
D3590 Test Methods for Total Kjeldahl Nitrogen in Water
D3695 Test Method for Volatile Alcohols in Water by Direct Aqueous-Injection Gas Chromatography
D3856 Guide for Management Systems in Laboratories Engaged in Analysis of Water (Withdrawn 2024)[4]
D3871 Test Method for Purgeable Organic Compounds in Water Using Headspace Sampling
D3921 Test Method For Oil and Grease and Petroleum Hydrocarbons in Water (Withdrawn 2013)[4]
D3973 Test Method for Low-Molecular Weight Halogenated Hydrocarbons in Water

[1] These practices are under the jurisdiction of ASTM Committee D19 on Water and are the direct responsibilities of Subcommittee D19.06 on Methods for Analysis for Organic Substances in Water.

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[2] *Manual on Water*, ASTM STP 442, ASTM International, 1969.

[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.

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