



Designation: D 513 – 02

Standard Test Methods for Total and Dissolved Carbon Dioxide in Water¹

This standard is issued under the fixed designation D 513; 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 test methods provide for the measurement of total or dissolved carbon dioxide present as carbon dioxide (CO_2), carbonic acid, bicarbonate ion, and carbonate ion in water:

	Range	Sections
Test Method A (Gas Sensing Electrode)	2 to 800 mg/L	8 to 15
Test Method B (CO_2 Evolution, Coulometric Titration)	5 to 800 mg/L	16 to 24

1.2 Carbon dioxide may also be detected from carbonates present in particulates in samples.

1.3 Test Method A is applicable to various natural waters and brines.

1.4 Test Method B is applicable to natural waters, brines, and various industrial waters as delineated in 16.4.

1.5 It is the user's responsibility to ensure the validity of these test methods on waters of untested matrices.

1.6 Several test methods were discontinued from this standard in 1988. Refer to **Appendix X1** for historical information.

1.7 *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:

- D 1066 Practice for Sampling Steam²
- D 1129 Terminology Relating to Water²
- D 1192 Guide for Equipment for Sampling Water and Steam in Closed Conduits²
- D 1193 Specification for Reagent Water²
- D 1293 Test Methods for pH of Water²
- D 2777 Practice for Determination of Precision and Bias of Applicable Test Methods of Committee D19 on Water²
- D 3370 Practices for Sampling Water from Closed Conduits²

¹ These test methods are under the jurisdiction of ASTM Committee D19 on Water and are the direct responsibility of Subcommittee D19.05 on Inorganic Constituents in Water.

Current edition approved July 10, 2002. Published August 2002. Originally published as D 513 – 98. Last previous edition D 513 – 92 (1996).

² Annual Book of ASTM Standards, Vol. 11.01.

D 5847 Practice for Writing Quality Control Specifications for Standard Test Methods for Water Analysis³

E 200 Practice for Preparation, Standardization, and Storage of Standard and Reagent Solutions for Chemical Analysis⁴

3. Terminology

3.1 **Definitions**—For definitions of terms used in these test methods, refer to Terminology D 1129.

4. Significance and Use

4.1 Carbon dioxide is a major respiration product of plants and animals and a decomposition product of organic matter and certain minerals. The atmosphere averages about 0.04 vol % of CO_2 . Surface waters generally contain less than 10 mg/L, except at local points of abnormal organic or mineral decomposition; however, underground water, particularly deep waters, may contain several hundred mg/L.

4.2 When dissolved in water, CO_2 contributes significantly to corrosion of water-handling systems. This is particularly troublesome in steam condensate systems. Loss of CO_2 from an aqueous system can disturb the carbonate equilibrium and result in calcite encrustation of confining surfaces. Sealing of water heaters is a good example. Because of the delicate balance between corrosion and encrustation tendencies, much care must be given to control of CO_2 and related species in water systems. Recarbonation of municipal supplies during final stages of softening and amine neutralization of steam condensate are applied for these purposes.

5. Purity of Reagents

5.1 Reagent grade chemicals shall be used in all tests. Unless otherwise indicated, it is intended that all reagents shall conform to the specifications of the Committee on Analytical Reagents of the American Chemical Society.⁵ Other grades

³ Annual Book of ASTM Standards, Vol. 11.02.

⁴ Annual Book of ASTM Standards, Vol. 15.05.

⁵ Reagent Chemicals, American Chemical Society Specifications, American Chemical Society, Washington, DC. For suggestions on the testing of reagents not listed by the American Chemical Society, see *Analyst Standards for Laboratory Chemicals*, BDH Ltd., Poole, Dorset, U.K., and the *United States Pharmacopeia and National Formulary*, U.S. Pharmacopeial Convention, Inc. (USPC), Rockville, MD.

Astm Standard Test Methods On Total Organic Carbon In Water 1999

**ASTM International, American Society
for Testing and Materials**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the ASTM text box.

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Index of Specifications and Standards ,2005 **Annual Book of ASTM Standards** American Society for Testing and Materials,2007 **Annual Book of ASTM Standards** ASTM International,American Society for Testing and Materials,2003

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