

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 on, is the cause of revisions, the year of last revisions. A number is parentheurs indicates the year of last reapproval. A superscript opsidos (s) indicates an odinarial change since the last revision or rangeously.

1. Scope

1.1 These test methods provide for the measurement of total or dissolved carbon dioxide present as carbon dioxide (CO₂), carbonic acid, bicarbonate ion, and carbonate ion in water.

	Flamos	Seection 1
Test Method A (Gas Sensing Electrode)	2 to 800 mg/L	6 to 15
Test Method B (CO), Evolution, Coulometric	5 to 800 mg/L	76 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 sufety 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

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 CO₂. 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, CO₂ contributes significantly to corrosion of water-handling systems. This is particularly troublesome in steam condensate systems. Loss of CO₂ from an aqueous system can disturb the carbonate equilibrium and result in calcite encrustation of confining surfaces. Scaling 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 CO₂ 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

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

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

Current edition approved July 10, 2002. Published August 2002. Originally published as D 513 - 38. Last previous edition D 513 - 92 (1996).

³ Annual Book of ASTM Sundands, Vol. 11.01.

³ Annual Book of ASTM Standards, Vol 11302.

[&]quot;Annual Book of ASTM Standards, Vol 15.05.

^{**} Reagent Chemicals, American Chemical Society Specifications, American Chemical Society, Washington, DC. For suggestions on the testing of suggests not listed by the American Chemical Society, see Amalan Society. Laboratory Chemicals, BDH Ltd., Poole, Donet, U.K., and the United States Pharmacopeia and National Formulary, U.S. Pharmacopeia Convention, Inc. (USPC), Bockville, MD.

<u>Astm Standard Test Methods On Total Organic Carbon</u> <u>In Water 1999</u>

Brendan G. Carr

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