

## METHOD 8000A

### TOTAL DISSOLVED CARBON

#### 1.0 SCOPE AND APPLICATION

1.1 This method is used to determine the concentration of organic carbon in ground water, surface and saline waters, and domestic and industrial wastes. Some restrictions are noted in Items 1.5 and 1.6.

1.2 This method is most applicable to measurement of organic carbon above 1 mg/L.

#### 2.0 SUMMARY OF METHOD

2.1 Organic carbon is measured using a carbon-toxicity analyzer. This instrument converts the organic carbon in a sample to carbon dioxide ( $\text{CO}_2$ ) by either catalytic combustion or wet chemical oxidation. The  $\text{CO}_2$  formed is then either measured directly by an infrared detector or converted to methane ( $\text{CH}_4$ ) and measured by a flame-ionization detector. The amount of  $\text{CO}_2$  or  $\text{CH}_4$  in a sample is directly proportional to the concentration of carbonaceous material in the sample.

2.2 Carbon-toxicity analyzers are capable of measuring all forms of carbon in a sample. However, because of various properties of carbon-containing compounds in found samples, the number of preliminary sample treatments as well as the instrument settings will determine which forms of carbon are actually measured. The forms of carbon that can be measured by this method are:

1. Soluble, nonvolatile organic carbon: e.g., natural sugars.
2. Soluble, volatile organic carbon: e.g., methanols, alcohols, low molecular weight aldehydes.
3. Insoluble, partially volatile carbon: e.g., low molecular weight oils.
4. Insoluble, partially carbonaceous materials: e.g., cellulose fibers.
5. Soluble or insoluble carbonaceous materials adsorbed or entrapped on insoluble inorganic suspended matter: e.g., oily matter adsorbed on silt particles.

2.3 Carbonate and bicarbonate are inorganic forms of carbon and must be separated from the total organic carbon value. Depending on the instrument manufacturer's instructions, this separation can be accomplished by either a simple mathematical subtraction, or by removing the carbonate and bicarbonate by converting them to  $\text{CO}_2$  with degassing prior to analysis.

#### 3.0 INTERFERENCES

3.1 Carbonate and bicarbonate carbon represent an interference under the term of this test and must be removed or accounted for in the final calculation.

# Method 9060a Total Organic Carbon Us Epa

**Rosina Ehmann**



## **Method 9060a Total Organic Carbon Us Epa:**

**Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlamm-Untersuchung** Wasserchemische Gesellschaft, Fachgruppe in der GDCh, in Gemeinschaft mit dem Normenausschuss Wasserwesen (NAW) im DIN e.V., 1991-01-08 Schon seit ber 50 Jahren sind die Deutschen Einheitsverfahren das Standardwerk f r alle die mit der Untersuchung von Wasser Abwasser oder Schlamm zu tun haben und sich detailliert ber anerkannte Analysenmethoden informieren m chten Inzwischen enth lt das Werk ber 300 Verfahrensvorschriften darunter auch DIN EN und ISO Normen Die Deutschen Einheitsverfahren d rfen daher in keinem wasseranalytischen Labor fehlen ob es zur Industrie oder einer Beh rde geh rt oder selbst ndig ist Die Erscheinungsweise als Loseblattsammlung gew hrleistet dabei gr tm gliche Aktualit t denn neue und ge nderte Normen werden im Rahmen der j hrlich bis zu vier Erg nzungslieferungen hinzugef gt Weitere Informationen zu diesem Produkt finden Sie auf unserer DEV Serviceseite <https://application.wiley-vch.de/dev/home> Handbook of Water Analysis Leo M.L. Nollet, Leen S. P. De Gelder, 2013-07-29 Extensively revised and updated Handbook of Water Analysis Third Edition provides current analytical techniques for detecting various compounds in water samples Maintaining the detailed and accessible style of the previous editions this third edition demonstrates water sampling and preservation methods by enumerating different ways to measure c *Solutions Manual to Accompany Fundamentals of Environmental Sampling and Analysis* Chunlong Zhang, 2024-07-04 This is the Solutions Manual to accompany Fundamentals of Environmental Sampling and Analysis Second Edition It provides solutions to the exercises and problems found in the main volume This book introduces a comprehensive overview on the fundamentals and applications of environmental sampling and analysis for students in environmental science and engineering as well as environmental professionals involved in sampling and analytical work The book details fundamentals of sampling selection of standard methods QA QC sample preparation chemical and instrumental principles and method applications to various contaminants in environmental matrices air water soil waste and biological samples The book gives an integrated introduction to sampling and analysis both are essential to quality environmental data For example contrary to other books that introduce a specific area of sampling and analysis this text provides a balanced mix of field sampling and laboratory analysis essential knowledge in chemistry statistics hydrology regulations wet chemical methods for conventional chemicals as well as various modern instrumental techniques for contaminants of emerging concerns The new edition adds three standalone chapters regarding the basics of analytical and organic chemistry environmental data analysis mass spectrometry and other significant amounts of new materials such as time integrated passive sampling incremental sampling green sample preparation Raman spectroscopy chiral separation and non target analysis In addition the second edition provides more examples visual aids case studies and end of chapter exercise problems to enhance a better understanding of the fundamentals of environmental sampling and analysis while incorporating current literature mostly peer reviewed journal papers regarding the applications and challenges in the field of

environmental sampling and analysis      **Analytical Measurements in Aquatic Environments** Jacek Namiesnik, Piotr Szefer, 2009-08-26 Even a cursory perusal of any analytical journal will demonstrate the increasing importance of trace and ultra trace analysis And as instrumentation continues to develop the definition of the term trace element will undoubtedly continue to change Covering the composition and underlying properties of freshwater and marine systems Analytical Mea

*Herbicides* Mohammed Nagib Hasaneen, 2012-01-13 This book is divided into two sections namely synthesis and properties of herbicides and herbicidal control of weeds Chapters 1 to 11 deal with the study of different synthetic pathways of certain herbicides and the physical and chemical properties of other synthesized herbicides The other 14 chapters 12 to 25 discussed the different methods by which each herbicide controls specific weed population The overall purpose of the book is to show properties and characterization of herbicides the physical and chemical properties of selected types of herbicides and the influence of certain herbicides on soil physical and chemical properties on microflora In addition an evaluation of the degree of contamination of either soils and or crops by herbicides is discussed alongside an investigation into the performance and photochemistry of herbicides and the fate of excess herbicides in soils and field crops      **Coal and Peat**

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