



# Standard Methods for the Examination of Water and Wastewater

*By American Public Health Association, AWWA (American Water Works Association), Water Environment Federation*

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**Standard Methods for the Examination of Water and Wastewater** By American Public Health Association, AWWA (American Water Works Association), Water Environment Federation

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The 22nd edition advances the science of water analysis with input and consensus of hundreds of water and wastewater experts from around the world. Laboratories worldwide rely on this comprehensive reference as a trusted source of accurate, proven methodology for analysis of water, water supplies, and wastewater. It is the essential resource.

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All methods are dated to identify which ones changed significantly between editions.

New in the 22nd edition

\*The Quality Control for Parts 2000 7000 has been expanded and significantly revised to make the methods more suitable for regulatory compliance.

\*Twenty-two sections in Part 9000 Microbiological Examination were revised and new procedures added. These include information on viable but

nonculturable bacteria, new information on the fluorogenic substrate test for E. coli, and an expansion of the section on identification of iron and sulfur bacteria.

\* Flavor Profile Analysis for drinking water was expanded with an extended introduction and new taste-and-odor color wheel.

\*The determination of metals using Inductively Coupled Plasma/Mass Spectrometry (ICP-MS) contains updated quality control requirements and added collision cell technology.

\*Additional sampling, filtering, and storage requirements were added to UV-Absorbing Organic Constituents.

\*New methods have been added for the determination of nitrosamines in drinking water.

\*The method for radium was updated.

\*The references and bibliography were updated for Part 8000 Toxicity.

\*The section on plankton was revised to include more in-depth procedures for collecting and processing samples.

\*New figures were added to Identification of Aquatic Organisms.

An Errata was posted December, 2012 on the standard methods.org website.

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