



Designation: ~~D 3373 – 93 (Reapproved 1998)~~ 3373 – 03

Standard Test Method for Vanadium in Water¹

This standard is issued under the fixed designation D 3373; 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.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope*

1.1 This test method covers the determination of dissolved and total recoverable vanadium in most waters and wastewater by graphite furnace atomic absorption spectrophotometry.

1.2 The optimum range of this test method is 10 to 200 µg/L of vanadium based on a 20-µL sample size. Concentrations higher than 200 µg/L may be determined by proper dilution of sample. A detection level as low as 4 µg/L of vanadium has been reported.

1.3 This test method has been used successfully with reagent water, lake water, tap water, river water, condensate from a medium Btu coal gasification process, and well water. It is the user's responsibility to ensure the validity of this test method for waters of untested matrices.

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 and health practices and determine the applicability or regulatory limitations prior to use.*

1.5 Former Test Method A (Catalytic) was discontinued. Refer to Appendix X1 for historical information.

2. Referenced Documents

2.1 *ASTM Standards:*

¹ This test method is under the jurisdiction of ASTM Committee D-19 on Water and is the direct responsibility of Subcommittee D19.05 on Inorganic Constituents in Water. Current edition approved ~~Sept. 15, 1993~~, June 10, 2003. Published ~~November 1993~~, July 2003. Originally published as ~~D 3373 – 75~~, approved in 1975. Last previous edition approved in 1998 as D 3373 – 93 (1998ε).