

Standard Test Methods for Analysis of Sulfuric Acid¹

This standard is issued under the fixed designation E 223; 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 approval. A superscript sign (1) indicates an editorial change since the last revision or approval.

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

1. Scope

- 1.1 These test methods cover the analysis of sulfuric acid.
- 1.2 The analytical procedures appear in the following order:

	Sections
Total Acidity	8 to 10
Barium Gravity	17 to 20
Nonvolatile Matter	27 to 30
Iron	34 to 43
Sulfur Dioxide	44 to 51
Arsenic	52 to 61

1.3 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. Specific hazards statements are given in Section 5.

2. Referenced Documents

2.1 ASTM Standards:

- D 1193 Specification for Reagent Water²
- E 1 Specification for ASTM Thermometers³
- E 60 Practice for Analysis of Metals, Ores, and Related Materials by Molecular Absorption Spectrometry⁴
- E 180 Practice for Determining the Precision of ASTM Methods for Analysis and Testing of Industrial Chemicals⁵
- E 200 Practice for Preparation, Standardization, and Storage of Standard and Reagent Solutions for Chemical Analysis⁶

3. Significance and Use

3.1 These test methods provide for the classification of various grades of sulfuric acid and for the determination of

various impurities. Acid strength and impurity levels are important factors in many uses of sulfuric acid.

4. Purity of Reagents

4.1 *Purity of Reagents*—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, where such specifications are available.⁷ Other grades may be used, provided it is first ascertained that the reagent is of sufficiently high purity to permit its use without lessening the accuracy of the determination.

4.2 *Purity of Water*—Unless otherwise indicated, references to water shall be understood to mean Type II or Type III reagent water conforming to Specification D 1193.

5. Hazards

5.1 Sulfuric acid is a strong corrosive acid and is dangerous if improperly handled. Avoid any skin or eye contact.

5.2 Clean up all spills immediately by covering the spill with vermiculite or some other inert absorbent material and sweeping into a pan. Dispose of the absorbent by flooding with water and discarding in a suitable container. Flush the area with water.

6. Photometers and Photometric Practice

6.1 Photometers and the photometric practice used in these test methods shall conform to Practice E 60.

7. Sampling

7.1 Sampling of sulfuric acid is not within the scope of these test methods.

7.2 The sample to be analyzed shall be considered to be that sample in a single bottle submitted to the analytical laboratory.

¹ These test methods are under the jurisdiction of ASTM Committee E15 on Industrial and Specialty Chemicals and are the direct responsibility of Subcommittee E15.02 on Product Standards.

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² Annual Book of ASTM Standards, Vol. 11.01.

³ Annual Book of ASTM Standards, Vol. 14.03.

⁴ Annual Book of ASTM Standards, Vol. 03.05.

⁵ Annual Book of ASTM Standards, Vol. 13.03.

⁶ 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 *Annual Standards for Laboratory Chemicals*, BDH Ltd., Poole, Dorset, U.K., and the *United States Pharmacopoeia and National Formulary*, U.S. Pharmacopoeial Convention, Inc. (USPC), Rockville, MD.

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