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An American National Standard

Standard Test Methods for Sulfur Dioxide Content of the Atmosphere (West-Gaeke Method)¹

This standard is issued under the fixed designation D 2914; 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 These test methods cover the bubbler collection and colorimetric determination of sulfur dioxide (SO₂) in the ambient or workplace atmosphere.

1.2 These test methods are applicable for determining SO₂ over the range from approximately 25 µg/m³ (0.01 ppm(v)) to 1000 µg/m³ (0.4 ppm(v)), corresponding to a solution concentration of 0.03 µg SO₂/mL to 1.3 µg SO₂/mL. Beer's law is followed through the working analytical range from 0.02 µg SO₂/mL to 1.4 µg SO₂/mL.

¹ These test methods are under the jurisdiction of ASTM Committee D22 on Sampling and Analysis of Atmospheres and are the direct responsibility of Subcommittee D22.03 on Ambient Atmospheres and Source Emissions.

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