



Designation: D4490 – 96 (Reapproved 2016)

Standard Practice for Measuring the Concentration of Toxic Gases or Vapors Using Detector Tubes¹

This standard is issued under the fixed designation D4490; 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.

1. Scope

1.1 This practice covers the detection and measurement of concentrations of toxic gases or vapors using detector tubes (1, 2).² A list of some of the gases and vapors that can be detected by this practice, their 1994–95 TLV values recommended by the ACGIH, and their measurement ranges are provided in Annex A1. This list is given as a guide and should be considered neither absolute nor complete.

1.2 *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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.3 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:³

D1356 Terminology Relating to Sampling and Analysis of Atmospheres

2.2 Other Document:

29 CFR 1910 Federal Occupational Safety and Health Standard Title 29⁴

3. Terminology

3.1 For definitions of terms used in this method, refer to Terminology D1356.

¹ This practice is under the jurisdiction of ASTM Committee D22 on Air Quality and is the direct responsibility of Subcommittee D22.04 on Workplace Air Quality. Current edition approved Oct. 1, 2016. Published October 2016. Originally approved in 1985. Last previous edition approved in 2011 as D4490 – 96 (2011). DOI: 10.1520/D4490-96R16.

² The boldface numbers in parentheses refer to the list of references at the end of this practice.

³ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

⁴ Code of Federal Regulations, Part 1910.1000 Subpart 2 and Part 1926.55 Subpart D.

4. Summary of Practice (3)

4.1 Detector tubes may be used for either short-term sampling (grab sampling; 1 to 10 min typically) or long term sampling (actively or passively; 1 to 8 h) of atmospheres containing toxic gases or vapors.

4.1.1 *Short-Term Sampling (Grab Sampling) (4-18)*—A given volume of air is pulled through the tube by a mechanical pump. If the substance for which the detector tube was designed is present, the indicator chemical in the tube will change color (stain). The concentration of the gas or vapor may be estimated by either (a) the length-of-stain compared to a calibration chart, or (b) the intensity of the color change compared to a set of standards.

4.1.2 *Long-Term Active Sampling (Long-Term Tubes) (19-22)*—A sample is pulled through the detector tube at a slow, constant flow rate by an electrical pump. The time-weighted average concentration of the gas or vapor is determined by correlating the time of sampling either with (a) the length-of-stain read directly from the calibration curve imprinted on the tube or (b) the intensity of the color change compared to a set of standards.

4.1.3 *Long-Term Passive Sampling (Diffusion or Dosimeter Tubes) (23)*—The contaminant molecules move into the tube according to Fick's First Law of Diffusion. The driving force is the concentration differential between the ambient air and the inside of the tube. The time-weighted average concentration of the gas or vapor is determined by dividing the indication on the tube by the number of hours sampled (1 to 10 h according to the manufacturers' instructions).

4.2 Instructions are given for the calibration of the sampling pumps required in this practice.

4.3 Information on the correct use of the detector tubes is presented.

5. Significance and Use

5.1 The Federal Occupational Safety and Health Administration, in 29 CFR 1910, designates that certain gases and vapors must not be present in workplace atmospheres at concentrations above specific values.

5.2 This practice will provide a means for the determination of airborne concentrations of certain gases and vapors given in 29 CFR 1910.

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Annual Book of ASTM Standards ASTM International, American Society for Testing and Materials, 2004

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Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination J. Russell Boulding, Jon S. Ginn, 2016-04-19 A synthesis of years of interdisciplinary research and practice the second edition of this bestseller continues to serve as a primary resource for information on the assessment remediation and control of contamination on and below the ground surface Practical Handbook of Soil Vadose Zone and Ground Water Contamination Assessment Prev Managing Soils in an Urban Environment Randall Barber Brown, James Herbert Huddleston, James Leonard Anderson, 2000 Soil science with its roots in both the plant sciences and geology first came into being as a recognizable discipline in response to questions concerning plant growth The chemical and physical characteristics of the soil as well as landscape processes that controlled those characteristics were of great interest to agronomists horticulturists geographers geomorphologists and geologists some of whom drifted into one another's orbit and over the late nineteenth and early twentieth centuries brought their experiences and talents together to form the nucleus of soil science In those early years a perception developed that soil science was simply an agricultural and edaphological science which indeed it was in large measure However pervasive and stubborn that perception was there has been from the beginning a segment of the community of soil scientists that has maintained an interest in soil science writ large These soil scientists while continuing to interact with agronomists horticulturists and foresters have maintained communications collaborations and linkages with such disciplines as geology geomorphology geography land use planning and engineering In the second half of the twentieth century soil science has expanded its

contacts with these nonagricultural disciplines and now finds itself addressing a much wider range of problems questions and issues than it did in the first half of the century In response to a growing demand for information nonagricultural land uses increasingly have been the focus of soil studies and of the development of soil interpretations and other decision tools for land users

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