## Volume 11.07, October 2007 Atmospheric Analysis

## **Standards and Related Materials Contained in this Volume:**

D1356-05 Standard Terminology Relating to Sampling and Analysis of Atmospheres -(View Full Text) D1357-95(2005) Standard Practice for Planning the Sampling of the Ambient Atmosphere - (View Full Text) D1607-91(2005) Standard Test Method for Nitrogen Dioxide Content of the Atmosphere (Griess-Saltzman Reaction) - (View Full Text) D1608-98(2003) Standard Test Method for Oxides of Nitrogen in Gaseous Combustion Products (Phenol-Disulfonic Acid Procedures) - (View Full Text) D1739-98(2004) Standard Test Method for Collection and Measurement of Dustfall (Settleable Particulate Matter) - (View Full Text) D1914-95(2004)e1 Standard Practice for Conversion Units and Factors Relating to Sampling and Analysis of Atmospheres - (View Full Text) D2010/D2010M-98(2004) Standard Test Methods for Evaluation of Total Sulfation Activity in the Atmosphere by the Lead Dioxide Technique - (View Full Text) D2913-96(2007) Standard Test Method for Mercaptan Content of the Atmosphere -(View Full Text) D2914-01(2007) Standard Test Methods for Sulfur Dioxide Content of the Atmosphere (West-Gaeke Method) - (View Full Text) D3154-00(2006) Standard Test Method for Average Velocity in a Duct (Pitot Tube Method) - (View Full Text) D3162-94(2005) Standard Test Method for Carbon Monoxide in the Atmosphere (Continuous Measurement by Nondispersive Infrared Spectrometry) - (View Full Text) D3195-90(2004) Standard Practice for Rotameter Calibration - (View Full Text) D3249-95(2005) Standard Practice for General Ambient Air Analyzer Procedures -(View Full Text) D3266-91(2005) Standard Test Method for Automated Separation and Collection of Particulate and Acidic Gaseous Fluoride in the Atmosphere (Double Paper Tape Sampler Method) - (View Full Text) D3267-91(2005) Standard Test Method for Separation and Collection of Particulate and Water-Soluble Gaseous Fluorides in the Atmosphere (Filter and Impinger Method) -(View Full Text) D3268-91(2005) Standard Test Method for Separation and Collection of Particulate and Gaseous Fluorides in the Atmosphere (Sodium Bicarbonate-Coated Glass Tube and Particulate Filter Method) - (View Full Text) D3269-96(2001)e1 Standard Test Methods for Analysis for Fluoride Content of the Atmosphere and Plant Tissues (Manual Procedures) - (View Full Text) D3270-00(2006) Standard Test Methods for Analysis for Fluoride Content of the Atmosphere and Plant Tissues (Semiautomated Method) - (View Full Text) D3464-96(2007) Standard Test Method for Average Velocity in a Duct Using a Thermal Anemometer - (View Full Text) D3608-95(2005) Standard Test Method for Nitrogen Oxides (Combined) Content in the Atmosphere by the Griess-Saltzman Reaction - (View Full Text) D3609-00(2005) Standard Practice for Calibration Techniques Using Permeation Tubes - (View Full Text)

D3614-07 Standard Guide for Laboratories Engaged in Sampling and Analysis of

<u>Atmospheres and Emissions</u> - (View Full Text)

D3631-99(2004) Standard Test Methods for Measuring Surface Atmospheric Pressure - (View Full Text)

D3670-91(2007) Standard Guide for Determination of Precision and Bias of Methods of Committee D22 - (View Full Text)

D3685/D3685M-98(2005) Standard Test Methods for Sampling and Determination of Particulate Matter in Stack Gases - (View Full Text)

D3686-95(2001)e1 Standard Practice for Sampling Atmospheres to Collect Organic Compound Vapors (Activated Charcoal Tube Adsorption Method) - (View Full Text) D3687-01 Standard Practice for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method - (View Full Text)

D3796-90(2004) Standard Practice for Calibration of Type S Pitot Tubes - (View Full Text)

D3824-95(2005) Standard Test Methods for Continuous Measurement of Oxides of Nitrogen in the Ambient or Workplace Atmosphere by the Chemiluminescent Method -(View Full Text)

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D4323-84(2003) Standard Test Method for Hydrogen Sulfide in the Atmosphere by Rate of Change of Reflectance - (View Full Text)

D4413-98(2003) Standard Test Method for Determination of Ethylene Oxide in Workplace Atmospheres (Charcoal Tube Methodology) - (View Full Text)

D4430-00(2006) Standard Practice for Determining the Operational Comparability of Meteorological Measurements - (View Full Text)

D4490-96(2006)e1 Standard Practice for Measuring the Concentration of Toxic Gases or Vapors Using Detector Tubes - (View Full Text)

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D4765-03 Standard Test Method for Fluorides in Workplace Atmospheres - (View Full Text)

D4766-98(2003) Standard Test Method for Vinyl Chloride in Workplace Atmospheres (Charcoal Tube Method) - (View Full Text)

D4856-99(2004) Standard Test Method for Determination of Sulfuric Acid Mist in the Workplace Atmosphere (Ion Chromatographic) - (View Full Text)

D4861-05 Standard Practice for Sampling and Selection of Analytical Techniques for Pesticides and Polychlorinated Biphenyls in Air - (View Full Text)

D4913-00(2005)e1 Standard Practice for Determining Concentration of Hydrogen

<u>Sulfide by Direct Reading, Length of Stain, Visual Chemical Detectors</u> - <u>(View Full</u> <u>Text)</u>

D4947-05 Standard Test Method for Chlordane and Heptachlor Residues in Indoor Air - (View Full Text)

D5011-92(2003) Standard Practices for Calibration of Ozone Monitors Using Transfer Standards - (View Full Text)

D5012-01 Standard Guide for Preparation of Materials Used for the Collection and Preservation of Atmospheric Wet Deposition - (View Full Text)

D5015-02 Standard Test Method for pH of Atmospheric Wet Deposition Samples by Electrometric Determination - (View Full Text)

D5075-01(2007) Standard Test Method for Nicotine and 3-Ethenylpyridine in Indoor Air - (View Full Text)

D5085-02 Standard Test Method for Determination of Chloride, Nitrate, and Sulfate in Atmospheric Wet Deposition by Chemically Suppressed Ion Chromatography - (View Full Text)

D5086-01 Standard Test Method for Determination of Calcium, Magnesium, Potassium, and Sodium in Atmospheric Wet Deposition by Flame Atomic Absorption Spectrophotometry - (View Full Text)

D5096-02 Standard Test Method for Determining the Performance of a Cup Anemometer or Propeller Anemometer - (View Full Text)

<u>D5110-98(2004) Standard Practice for Calibration of Ozone Monitors and Certification</u> of Ozone Transfer Standards Using Ultraviolet Photometry - (View Full Text)

D5111-99(2006) Standard Guide for Choosing Locations and Sampling Methods to

Monitor Atmospheric Deposition at Non-Urban Locations - (View Full Text)

D5116-06 Standard Guide for Small-Scale Environmental Chamber Determinations of

Organic Emissions From Indoor Materials/Products - (View Full Text)

D5149-02 Standard Test Method for Ozone in the Atmosphere: Continuous Measurement by Ethylene Chemiluminescence - (View Full Text)

D5156-02 Standard Test Methods for Continuous Measurement of Ozone in Ambient, Workplace, and Indoor Atmospheres (Ultraviolet Absorption) - (View Full Text) D5157-97(2003)e1 Standard Guide for Statistical Evaluation of Indoor Air Quality Models - (View Full Text)

D5197-03 Standard Test Method for Determination of Formaldehyde and Other Carbonyl Compounds in Air (Active Sampler Methodology) - (View Full Text) D5280-96(2007) Standard Practice for Evaluation of Performance Characteristics of Air Quality Measurement Methods with Linear Calibration Functions - (View Full Text) D5281-98(2005) Standard Test Method for Collection and Analysis of Hexavalent Chromium in Ambient Atmospheres - (View Full Text)

D5337-04 Standard Practice for Flow Rate for Calibration of Personal Sampling Pumps - (View Full Text)

D5366-96(2002)e01 Standard Test Method for Determining the Dynamic Performance of a Wind Vane - (View Full Text)

D5438-05 Standard Practice for Collection of Floor Dust for Chemical Analysis - (View Full Text)

D5466-01(2007) Standard Test Method for Determination of Volatile Organic Chemicals in Atmospheres (Canister Sampling Methodology) - (View Full Text)

D5527-00(2002)e1 Standard Practices for Measuring Surface Wind and Temperature by Acoustic Means - (View Full Text)

D5578-04 Standard Test Method for Determination of Ethylene Oxide in Workplace Atmospheres (HBr Derivatization Method) - (View Full Text) D5741-96(2002)e1 Standard Practice for Characterizing Surface Wind Using a Wind Vane and Rotating Anemometer - (View Full Text)

D5755-03 Standard Test Method for Microvacuum Sampling and Indirect Analysis of Dust by Transmission Electron Microscopy for Asbestos Structure Number Surface Loading - (View Full Text)

D5756-02 Standard Test Method for Microvacuum Sampling and Indirect Analysis of Dust by Transmission Electron Microscopy for Asbestos Mass Concentration - (View Full Text)

D5791-95(2006) Standard Guide for Using Probability Sampling Methods in Studies of Indoor Air Quality in Buildings - (View Full Text)

D5835-95(2007) Standard Practice for Sampling Stationary Source Emissions for the Automated Determination of Gas Concentrations - (View Full Text)

D5836-03 Standard Test Method for Determination of 2,4-Toluene Diisocyanate (2,4-TDI) and 2,6-Toluene Diisocyanate (2,6-TDI) in Workplace Atmospheres (1-2 PP Method) - (View Full Text)

D5932-96(2002) Standard Test Method for Determination of 2,4-Toluene Diiso cyanate (2,4-TDI) and 2,6-Toluene Diiso cyanate (2,6-TDI) in Air (with 9-(N-

Methylaminomethyl) Anthracene Method) (MAMA) in the Workplace - (View Full Text)

D5952-02 Standard Guide for Inspecting Water Systems for Legionellae and Investigating Possible Outbreaks of Legionellosis (Legionnaires' Disease or Pontiac Fever) - (View Full Text)

D5953M-96(2001) Standard Test Method for Determination of Non-Methane Organic Compounds (NMOC) in Ambient Air Using Cryogenic Preconcentration and Direct Flame Ionization Detection Method (Metric) - (View Full Text)

D5955-02(2007) Standard Test Methods for Estimating Contribution of Environmental Tobacco Smoke to Respirable Suspended Particles Based on UVPM and FPM - (View Full Text)

<u>D6011-96(2003)</u> Standard Test Method for Determining the Performance of a Sonic Anemometer/Thermometer - (View Full Text)

D6056-96(2006) Standard Test Method for Determining Concentration of Airborne Single-Crystal Ceramic Whiskers in the Workplace Environment by Transmission Electron Microscopy - (View Full Text)

D6057-96(2006) Standard Test Method for Determining Concentration of Airborne Single-Crystal Ceramic Whiskers in the Workplace Environment by Phase Contrast Microscopy - (View Full Text)

D6058-96(2006) Standard Practice for Determining Concentration of Airborne Single-Crystal Ceramic Whiskers in the Workplace Environment - (View Full Text)

D6059-96(2006) Standard Test Method for Determining Concentration of Airborne

<u>Single-Crystal Ceramic Whiskers in the Workplace Environment by Scanning Electron</u> <u>Microscopy</u> - <u>(View Full Text)</u>

D6060-96(2001) Standard Practice for Sampling of Process Vents With a Portable Gas Chromatograph - (View Full Text)

D6061-01(2007)e1 Standard Practice for Evaluating the Performance of Respirable Aerosol Samplers - (View Full Text)

<u>D6062-07 Standard Guide for Personal Samplers of Health-Related Aerosol Fractions</u> - (View Full Text)

D6176-97(2003) Standard Practice for Measuring Surface Atmospheric Temperature with Electrical Resistance Temperature Sensors - (View Full Text)

D6177-97(2003) Standard Practice for Determining Emission Profiles of Volatile

Organic Chemicals Emitted from Bedding Sets - (View Full Text)

<u>D6178-97(2003)</u> Standard Practice for Estimation of Short-Term Inhalation Exposure to Volatile Organic Chemicals Emitted from Bedding Sets - (View Full Text)

D6196-03 Standard Practice for Selection of Sorbents, Sampling, and Thermal Desorption Analysis Procedures for Volatile Organic Compounds in Air - (View Full Text)

D6209-98(2004) Standard Test Method for Determination of Gaseous and Particulate Polycyclic Aromatic Hydrocarbons in Ambient Air (Collection on Sorbent-Backed Filters with Gas Chromatographic/Mass Spectrometric Analysis) - (View Full Text) D6216-03 Standard Practice for Opacity Monitor Manufacturers to Certify

Conformance with Design and Performance Specifications - (View Full Text)

D6245-98(2002) Standard Guide for Using Indoor Carbon Dioxide Concentrations to Evaluate Indoor Air Quality and Ventilation - (View Full Text)

<u>D6246-02 Standard Practice for Evaluating the Performance of Diffusive Samplers - (View Full Text)</u>

D6271-04 Standard Test Method for Estimating Contribution of Environmental Tobacco Smoke to Respirable Suspended Particles Based on Solanesol - (View Full Text)

D6281-06 Standard Test Method for Airborne Asbestos Concentration in Ambient and Indoor Atmospheres as Determined by Transmission Electron Microscopy Direct Transfer (TEM) - (View Full Text)

D6306-98(2003) Standard Guide for Placement and Use of Diffusion Controlled Passive Monitors for Gaseous Pollutants in Indoor Air - (View Full Text)

D6327-98(2004) Standard Test Method for Determination of Radon Decay Product Concentration and Working Level in Indoor Atmospheres by Active Sampling on a Filter - (View Full Text)

D6328-06 Standard Guide for Quality Assurance Protocols for Chemical Analysis of Atmospheric Wet Deposition - (View Full Text)

D6329-98(2003) Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers - (View Full Text)

D6330-98(2003) Standard Practice for Determination of Volatile Organic Compounds (Excluding Formaldehyde) Emissions from Wood-Based Panels Using Small Environmental Chambers Under Defined Test Conditions - (View Full Text)

<u>D6331-98(2005) Standard Test Method for Determination of Mass Concentration of</u> <u>Particulate Matter from Stationary Sources at Low Concentrations (Manual Gravimetric</u> <u>Method)</u> - <u>(View Full Text)</u>

D6332-99(2005) Standard Guide for Testing Systems for Measuring Dynamic Responses of Carbon Monoxide Detectors to Gases and Vapors - (View Full Text) D6333-98(2004)e1 Standard Practice for Collection of Dislodgeable Pesticide Residues from Floors - (View Full Text)

D6345-98(2004)e1 Standard Guide for Selection of Methods for Active, Integrative Sampling of Volatile Organic Compounds in Air - (View Full Text)

<u>D6348-03 Standard Test Method for Determination of Gaseous Compounds by</u> <u>Extractive Direct Interface Fourier Transform Infrared (FTIR) Spectroscopy</u> - <u>(View Full Text)</u>

D6363-98(2003)e1 Standard Test Method for Determination of Hydrogen Peroxide and Combined Organic Peroxides in Atmospheric Water Samples by Peroxidase Enzyme Fluorescence Method - (View Full Text)

D6399-04 Standard Guide for Selecting Instruments and Methods for Measuring Air

Quality In Aircraft Cabins - (View Full Text)

D6420-99(2004) Standard Test Method for Determination of Gaseous Organic

<u>Compounds by Direct Interface Gas Chromatography-Mass Spectrometry</u> - <u>(View Full</u> <u>Text)</u>

D6480-05 Standard Test Method for Wipe Sampling of Surfaces, Indirect Preparation, and Analysis for Asbestos Structure Number Concentration by Transmission Electron Microscopy - (View Full Text)

D6485-99(2004) Standard Guide for Risk Characterization of Acute and Irritant Effects of Short-Term Exposure to Volatile Organic Chemicals Emitted from Bedding Sets -(View Full Text)

D6494-99(2004)e1 Standard Test Method for Determination of Asphalt Fume

Particulate Matter in Workplace Atmospheres as Benzene Soluble Fraction - (View Full Text)

D6522-00(2005) Standard Test Method for Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Concentrations in Emissions from Natural Gas-Fired

Reciprocating Engines, Combustion Turbines, Boilers, and Process Heaters Using Portable Analyzers - (View Full Text)

D6552-06 Standard Practice for Controlling and Characterizing Errors in Weighing Collected Aerosols - (View Full Text)

D6561-06 Standard Test Method for Determination of Aerosol Monomeric and Oligomeric Hexamethylene Diisocyanate (HDl) in Air with (Methoxy-2-phenyl-1) Piperazine (MOPIP) in the Workplace - (View Full Text)

D6562-06 Standard Test Method for Determination of Gaseous Hexamethylene Diisocyanate (HDI) in Air with 9-(N-methylaminomethyl) Anthracene Method (MAMA) in the Workplace - (View Full Text)

<u>D6589-05 Standard Guide for Statistical Evaluation of Atmospheric Dispersion Model</u> <u>Performance</u> - <u>(View Full Text)</u>

<u>D6620-06 Standard Practice for Asbestos Detection Limit Based on Counts</u> - <u>(View</u> <u>Full Text)</u>

<u>D6669-01a(2007)e1 Standard Practice for Selecting and Constructing Exposure</u> <u>Scenarios for Assessment of Exposures to Alkyd and Latex Interior Paints</u> - <u>(View Full</u> <u>Text)</u>

D6670-01(2007) Standard Practice for Full-Scale Chamber Determination of Volatile Organic Emissions from Indoor Materials/Products - (View Full Text)

D6735-01 Standard Test Method for Measurement of Gaseous Chlorides and Fluorides from Mineral Calcining Exhaust Sources—Impinger Method - (View Full Text)

D6784-02 Standard Test Method for Elemental, Oxidized, Particle-Bound and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (Ontario Hydro Method) - (View Full Text)

D6785-02 Standard Test Method for Determination of Lead in Workplace Air Using Flame or Graphite Furnace Atomic Absorption Spectrometry - (View Full Text) D6803-02(2007) Standard Practice for Testing and Sampling of Volatile Organic Compounds (Including Carbonyl Compounds) Emitted from Paint Using Small Environmental Chambers - (View Full Text)

D6830-02 Standard Test Method for Characterizing the Pressure Drop and Filtration Performance of Cleanable Filter Media - (View Full Text)

<u>D6831-05a Standard Test Method for Sampling and Determining Particulate Matter in</u> <u>Stack Gases Using an In-Stack, Inertial Microbalance - (View Full Text)</u>

D6832-02 Standard Test Method for the Determination of Hexavalent Chromium in Workplace Air by Ion Chromatography and Spectrophotometric Measurement Using <u>1,5-diphenylcarbazide</u> - (View Full Text)

<u>D6877-03 Standard Test Method for Monitoring Diesel Particulate Exhaust in the</u> <u>Workplace - (View Full Text)</u>

D6966-03 Standard Practice for Collection of Settled Dust Samples Using Wipe Sampling Methods for Subsequent Determination of Metals - (View Full Text) D7034-05 Standard Guide for Deriving Acceptable Levels of Airborne Chemical

Contaminants in Aircraft Cabins Based on Health and Comfort Considerations - (View Full Text)

D7035-04 Standard Test Method for Determination of Metals and Metalloids in Airborne Particulate Matter by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES) - (View Full Text)

D7036-04 Standard Practice for Competence of Air Emission Testing Bodies - (View Full Text)

D7049-04 Standard Test Method for Metal Removal Fluid Aerosol in Workplace Atmospheres - (View Full Text)

D7143-05 Standard Practice for Emission Cells for the Determination of Volatile Organic Emissions from Indoor Materials/Products - (View Full Text)

D7144-05a Standard Practice for Collection of Surface Dust by Micro-vacuum Sampling for Subsequent Metals Determination - (View Full Text)

<u>D7145-05 Standard Guide for Measurement of Atmospheric Wind and Turbulence</u> Profiles by Acoustic Means - (View Full Text)

D7200-06 Standard Practice for Sampling and Counting Airborne Fibers, Including Asbestos Fibers, in Mines and Quarries, by Phase Contrast Microscopy and Transmission Electron Microscopy (View Full Text)

Transmission Electron Microscopy - (View Full Text)

D7201-06 Standard Practice for Sampling and Counting Airborne Fibers, Including Asbestos Fibers, in the Workplace, by Phase Contrast Microscopy (with and Option of <u>Transmission Electron Microscopy</u>) - <u>(View Full Text)</u>

D7202-06 Standard Test Method for Determination of Beryllium in the Workplace Using Field-Based Extraction and Fluorescence Detection - (View Full Text)

D7295-06 Standard Practice for Sampling and Determination of Hydrogen Cyanide (HCN) in Combustion Effluents and Other Stationary Sources - (View Full Text)

D7296-06 Standard Practice for Collection of Settled Dust Samples Using Dry Wipe Sampling Methods for Subsequent Determination of Beryllium and Compounds - (View Full Text)

<u>D7297-06 Standard Practice for Evaluating Residential Indoor Air Quality Concerns</u> - (View Full Text)

D7339-07 Standard Test Method for Determination of Volatile Organic Compounds Emitted from Carpet using a Specific Sorbent Tube and Thermal Desorption / Gas Chromatography - (View Full Text)

E104-02 Standard Practice for Maintaining Constant Relative Humidity by Means of Aqueous Solutions - (View Full Text)

E337-02 Standard Test Method for Measuring Humidity with a Psychrometer (the Measurement of Wet- and Dry-Bulb Temperatures) - (View Full Text)

E1370-96(2002) Standard Guide for Air Sampling Strategies for Worker and Workplace Protection - (View Full Text)

F778-88(2007) Standard Methods for Gas Flow Resistance Testing of Filtration Media - (View Full Text)

F1040-87(2007) Standard Specification for Filter Units, Air Conditioning: Viscous-Impingement and Dry Types, Replaceable - (View Full Text) <u>F1471-93(2001) Standard Test Method for Air Cleaning Performance of a High-Efficiency Particulate Air- Filter System</u> - <u>(View Full Text)</u>

<u>SI Quick Reference Guide: International System of Units (SI) - The Modern Metric</u> <u>System</u> - (View Full Text)

## Withdrawn Standards

D2986 Standard Practice for Evaluation of Air Assay Media by the Monodisperse DOP (Dioctyl Phthalate) Smoke Test (Withdrawn 2004) No Replacement D5014 Standard Test Method for Measurement of Formaldehyde in Indoor Air (Passive Sampler Methodology) (Withdrawn 2006) No Replacement