## Volume 03.06, October 2007 Molecular Spectroscopy; Surface Analysis

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

E131-05 Standard Terminology Relating to Molecular Spectroscopy - (View Full Text) E168-06 Standard Practices for General Techniques of Infrared Quantitative Analysis - (View Full Text)

<u>E169-04 Standard Practices for General Techniques of Ultraviolet-Visible Quantitative</u> Analysis - (View Full Text)

E204-98(2002) Standard Practices for Identification of Material by Infrared Absorption Spectroscopy, Using the ASTM Coded Band and Chemical Classification Index - (View Full Text)

E250-98(2002) Standard Practice for Use of CODEN - (View Full Text)

<u>E260-96(2006) Standard Practice for Packed Column Gas Chromatography</u> - <u>(View Full Text)</u>

E275-01 Standard Practice for Describing and Measuring Performance of Ultraviolet, Visible, and Near-Infrared Spectrophotometers - (View Full Text)

E334-01(2007) Standard Practice for General Techniques of Infrared Microanalysis - (View Full Text)

<u>E355-96(2007) Standard Practice for Gas Chromatography Terms and Relationships</u> - (View Full Text)

E386-90(2004) Standard Practice for Data Presentation Relating to High-Resolution

Nuclear Magnetic Resonance (NMR) Spectroscopy - (View Full Text)

E387-04 Standard Test Method for Estimating Stray Radiant Power Ratio of Dispersive

<u>Spectrophotometers by the Opaque Filter Method</u> - (View Full Text)

E388-04 Standard Test Method for Wavelength Accuracy of Spectral Bandwidth

Fluorescence Spectrometers - (View Full Text)

E516-95a(2005) Standard Practice for Testing Thermal Conductivity Detectors Used in Gas Chromatography - (View Full Text)

<u>E573-01(2007) Standard Practices for Internal Reflection Spectroscopy</u> - <u>(View Full Text)</u>

<u>E578-07 Standard Test Method for Linearity of Fluorescence Measuring Systems</u> - (View Full Text)

<u>E579-04 Standard Test Method for Limit of Detection of Fluorescence of Quinine Sulfate in Solution</u> - (View Full Text)

E594-96(2006) Standard Practice for Testing Flame Ionization Detectors Used in Gas or Supercritical Fluid Chromatography - (View Full Text)

E673-03 Standard Terminology Relating to Surface Analysis - (View Full Text)

<u>E682-92(2006)</u> Standard Practice for Liquid Chromatography Terms and Relationships - (View Full Text)

<u>E684-04 Standard Practice for Approximate Determination of Current Density of Large-</u> Diameter Ion Beams for Sputter Depth Profiling of Solid Surfaces - (View Full Text)

E685-93(2005) Standard Practice for Testing Fixed-Wavelength Photometric Detectors

<u>Used in Liquid Chromatography - (View Full Text)</u>

E697-96(2006) Standard Practice for Use of Electron-Capture Detectors in Gas Chromatography - (View Full Text)

<u>E827-02 Standard Practice for Indentifying Elements by the Peaks in Auger Electron Spectroscopy</u> - (View Full Text)

E840-95(2005) Standard Practice for Using Flame Photometric Detectors in Gas

Chromatography - (View Full Text)

E902-05 Standard Practice for Checking the Operating Characteristics of X-Ray

Photoelectron Spectrometers - (View Full Text)

E925-02 Standard Practice for Monitoring the Calibration of Ultraviolet-Visible

Spectrophotometers whose Spectral Slit Width does not Exceed 2 nm - (View Full Text)

E932-89(2002) Standard Practice for Describing and Measuring Performance of

Dispersive Infrared Spectrometers - (View Full Text)

E958-93(2005) Standard Practice for Measuring Practical Spectral Bandwidth of

Ultraviolet-Visible Spectrophotometers - (View Full Text)

E983-05 Standard Guide for Minimizing Unwanted Electron Beam Effects in Auger

Electron Spectroscopy - (View Full Text)

E984-06 Standard Guide for Identifying Chemical Effects and Matrix Effects in Auger

Electron Spectroscopy - (View Full Text)

E995-04 Standard Guide for Background Subtraction Techniques in Auger Electron

Spectroscopy and X-ray Photoelectron Spectroscopy - (View Full Text)

E996-04 Standard Practice for Reporting Data in Auger Electron Spectroscopy and X-

ray Photoelectron Spectroscopy - (View Full Text)

E1016-07 Standard Guide for Literature Describing Properties of Electrostatic Electron

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E1078-02 Standard Guide for Specimen Preparation and Mounting in Surface Analysis

- (View Full Text)

E1127-03 Standard Guide for Depth Profiling in Auger Electron Spectroscopy - (View Full Text)

E1140-95(2005) Standard Practice for Testing Nitrogen/Phosphorus Thermionic

Ionization Detectors for Use In Gas Chromatography - (View Full Text)

E1151-93(2006) Standard Practice for Ion Chromatography Terms and Relationships -(View Full Text)

E1162-06 Standard Practice for Reporting Sputter Depth Profile Data in Secondary Ion

Mass Spectrometry (SIMS) - (View Full Text)

E1217-05 Standard Practice for Determination of the Specimen Area Contributing to

the Detected Signal in Auger Electron Spectrometers and Some X-Ray Photoelectron

Spectrometers - (View Full Text)

E1252-98(2002) Standard Practice for General Techniques for Obtaining Infrared

Spectra for Qualitative Analysis - (View Full Text)

E1303-95(2005) Practice for Refractive Index Detectors Used in Liquid

Chromatography - (View Full Text)

E1421-99(2004) Standard Practice for Describing and Measuring Performance of

Fourier Transform Mid-Infrared (FT-MIR) Spectrometers: Level Zero and Level One

Tests - (View Full Text)

E1438-06 Standard Guide for Measuring Widths of Interfaces in Sputter Depth

Profiling Using SIMS - (View Full Text)

E1449-92(2006) Standard Guide for Supercritical Fluid Chromatography Terms and

Relationships - (View Full Text)

E1504-06 Standard Practice for Reporting Mass Spectral Data in Secondary Ion Mass

Spectrometry (SIMS) - (View Full Text)

E1505-92(2001) Standard Guide for Determining SIMS Relative Sensitivity Factors

from Ion Implanted External Standards - (View Full Text)

E1510-95(2005) Standard Practice for Installing Fused Silica Open Tubular Capillary

Columns in Gas Chromatographs - (View Full Text)

E1511-93(2005) Standard Practice for Testing Conductivity Detectors Used in Liquid

and Ion Chromatography - (View Full Text)

E1523-03 Standard Guide to Charge Control and Charge Referencing Techniques in X-

Ray Photoelectron Spectroscopy - (View Full Text)

E1577-04 Standard Guide for Reporting of Ion Beam Parameters Used in Surface

Analysis - (View Full Text)

<u>E1578-06 Standard Guide for Laboratory Information Management Systems (LIMS)</u> - (View Full Text)

E1614-94(2004) Standard Guide for Procedure for Measuring Ionizing Radiation-

Induced Attenuation in Silica-Based Optical Fibers and Cables for Use in Remote

<u>Fiber-Optic Spectroscopy and Broadband Systems</u> - (View Full Text)

<u>E1634-02(2007) Standard Guide for Performing Sputter Crater Depth Measurements</u> - (View Full Text)

E1635-06 Standard Practice for Reporting Imaging Data in Secondary Ion Mass

Spectrometry (SIMS) - (View Full Text)

E1636-04 Standard Practice for Analytically Describing Sputter-Depth-Profile Interface

Data by an Extended Logistic Function - (View Full Text)

E1642-00(2005) Standard Practice for General Techniques of Gas Chromatography

Infrared (GC/IR) Analysis - (View Full Text)

E1653-94(2004) Standard Guide for Specifying Dynamic Characteristics of Optical

Radiation Transmitting Fiber Waveguides - (View Full Text)

E1654-94(2004) Standard Guide for Measuring Ionizing Radiation-Induced Spectral

Changes in Optical Fibers and Cables for Use in Remote Raman FiberOptic

Spectroscopy - (View Full Text)

<u>E1655-05 Standard Practices for Infrared Multivariate Quantitative Analysis</u> - <u>(View Full Text)</u>

E1657-98(2006) Standard Practice for Testing Variable-Wavelength Photometric

Detectors Used in Liquid Chromatography - (View Full Text)

E1683-02(2007) Standard Practice for Testing the Performance of Scanning Raman Spectrometers - (View Full Text)

E1698-95(2005) Standard Practice for Testing Electrolytic Conductivity Detectors

(ELCD) Used in Gas Chromatography - (View Full Text)

E1747-95(2005) Standard Guide for Purity of Carbon Dioxide Used in Supercritical

Fluid Applications - (View Full Text)

E1790-04 Standard Practice for Near Infrared Qualitative Analysis - (View Full Text)

E1791-96(2000) Standard Practice for Transfer Standards for Reflectance Factor for

Near-Infrared Instruments Using Hemispherical Geometry - (View Full Text)

E1813-96(2007) Standard Practice for Measuring and Reporting Probe Tip Shape in

Scanning Probe Microscopy - (View Full Text)

E1829-02 Standard Guide for Handling Specimens Prior to Surface Analysis - (View Full Text)

E1840-96(2007) Standard Guide for Raman Shift Standards for Spectrometer

Calibration - (View Full Text)

E1865-97(2002) Standard Guide for Open-Path Fourier Transform Infrared (OP/FT-IR)

Monitoring of Gases and Vapors in Air - (View Full Text)

E1866-97(2002) Standard Guide for Establishing Spectrophotometer Performance Tests - (View Full Text)

E1880-06 Standard Practice for Tissue Cryosection Analysis with SIMS - (View Full Text)

E1881-06 Standard Guide for Cell Culture Analysis with SIMS - (View Full Text)

E1944-98(2002) Standard Practice for Describing and Measuring Performance of

<u>Laboratory Fourier Transform Near-Infrared (FT-NIR) Spectrometers: Level Zero and</u> Level One Tests - (View Full Text)

E1947-98(2004) Standard Specification for Analytical Data Interchange Protocol for Chromatographic Data - (View Full Text)

E1948-98(2004) Standard Guide for Analytical Data Interchange Protocol for Chromatographic Data - (View Full Text)

E1982-98(2002) Standard Practice for Open-Path Fourier Transform Infrared (OP/FT-

IR) Monitoring of Gases and Vapors in Air - (View Full Text)

<u>E1989-98(2004)</u> Standard Specification for Laboratory Equipment Control Interface (LECIS) - (View Full Text)

E2056-04 Standard Practice for Qualifying Spectrometers and Spectrophotometers for Use in Multivariate Analyses, Calibrated Using Surrogate Mixtures - (View Full Text) E2066-00(2007) Standard Guide for Validation of Laboratory Information Management Systems - (View Full Text)

E2077-00(2005) Standard Specification for Analytical Data Interchange Protocol for Mass Spectrometric Data - (View Full Text)

E2078-00(2005) Standard Guide for Analytical Data Interchange Protocol for Mass Spectrometric Data - (View Full Text)

E2105-00(2005) Standard Practice for General Techniques of Thermogravimetric Analysis (TGA) Coupled With Infrared Analysis (TGA/IR) - (View Full Text)

E2106-00(2006) Standard Practice for General Techniques of Liquid Chromatography-Infrared (LC/IR) and Size Exclusion Chromatography-Infrared (SEC/IR) Analyses -

(View Full Text)

E2108-05 Standard Practice for Calibration of the Electron Binding-Energy Scale of an X-Ray Photoelectron Spectrometer - (View Full Text)

E2143-01(2006)e1 Standard Practice for Using Field-Portable Fiber Optics

Synchronous Fluorescence Spectrometer for Quantification of Field Samples for

Aromatic and Polycyclic Aromatic Hydrocarbons - (View Full Text)

E2310-04 Standard Guide for Use of Spectral Searching by Curve Matching Algorithms

with Data Recorded Using Mid-infrared Spectroscopy - (View Full Text)

E2382-04 Guide to Scanner and Tip Related Artifacts in Scanning Tunneling

Microscopy and Atomic Force Microscopy - (View Full Text)

E2412-04 Standard Practice for Condition Monitoring of Used Lubricants by Trend

<u>Analysis Using Fourier Transform Infrared (FT-IR) Spectrometry</u> - (View Full Text)

<u>E2426-05 Standard Practice for Pulse Counting System Dead Time Determination by Measuring Isotopic Ratios with SIMS - (View Full Text)</u>

E2529-06 Standard Guide for Testing the Resolution of a Raman Spectrometer - (View Full Text)

E2530-06 Standard Practice for Calibrating the Z-Magnification of an Atomic Force Microscope at Subnanometer Displacement Levels Using Si(111) Monatomic Steps - (View Full Text)

SI Quick Reference Guide: International System of Units (SI) - *The Modern Metric System* - (View Full Text)

## Withdrawn Standards

E924 Standard Guide for Quality Assurance of Laboratories Using Molecular Spectroscopy (Withdrawn 2003) No Replacement