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Mass Spectral Characterization of Oxygen-Containing Aromatics with Methanol Chemical Ionization 546

Isomeric oxygen-containing aromatics, including phenols, ethers, and alcohols, and compounds containing more than one oxygen atom are differentiated. Oxygen-substituted polycyclic aromatic hydrocarbons are characterized in a coal-derived liquid.

Michelle V. Buchanan, Analytical Chemistry Division, Oak Ridge National Laboratory, Oak Ridge, Tenn. 37831
Anal. Chem., 56 (1984)

Interlaboratory Isotopic Ratio Measurement of Nanogram Quantities of Uranium and Plutonium on Resin Beads by Thermal Ionization Mass Spectrometry 550

Forty-five of 70 measurements of major isotopic ratios of unknown samples prepared from standard reference materials are within 0.3% of the absolute value. Mass fractionation is the principal source of imprecision and inaccuracy.

J. D. Fassett* and W. R. Kelly, National Measurement Laboratory, Center for Analytical Chemistry, Inorganic Analytical Research Division, National Bureau of Standards, Washington, D.C. 20234
Anal. Chem., 56 (1984)

Characterization of Isotopically Labeled Coal Liquefaction Solvents and Products by Deuterium and Carbon-13 Nuclear Magnetic Resonance Spectrometry 557

Deuterium-induced carbon-13 NMR isotopic shifts, deuterium NMR, and the attached proton test are useful tools for the characterization of ¹³C- and ²H-labeled coal liquefaction solvents and the resulting products.

Donald C. Young*, Robert I. McNeil, Donald C. Cronauer, Raphaelle G. Ruberto, and Laurine G. Galya, Gulf Research and Development Co., Pittsburgh, Pa. 15230
Anal. Chem., 56 (1984)

Effect of Random Experimental Error on the Generalized Standard Addition Method 562

The effect of experimental error on the final results of multicomponent analysis using the generalized standard addition method is investigated. Recommendations for optimally precise analysis are made.

Mark G. Moran and Bruce R. Kowalski*, Laboratory for Chemometrics, Department of Chemistry, University of Washington, Seattle, Wash. 98195
Anal. Chem., 56 (1984)

Portable Generator for On-Site Calibration of Peroxyacetyl Nitrate Analyzers 569

Peroxyacetyl nitrate (PAN) is synthesized at levels of 2–400 ppb in a constant-output portable photochemical flow reactor. Reactor output is determined by ion chromatography after alkaline hydrolysis of PAN to acetate.

Daniel Grosjean*, Kochy Fung, John Collins, Jeffrey Harrison, and Edmund Breitung, Environmental Research & Technology, Inc., 2625 Townsgate Road, Westlake Village, Calif. 91361
Anal. Chem., 56 (1984)



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