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Essential Oils Analysis by Capillary Gas Chromatography and Carbon 13-NMR Spectroscopy (Hardback)

By V. Formacek, K. H. Kubeczka

John Wiley and Sons Ltd, United Kingdom, 2002. Hardback. Book Condition: New. 2nd Revised edition. 282 x 222 mm. Language: English . Brand New Book. In addition to capillary gas chromatography and GC-MS, carbon-13 NMR spectroscopy provides an alternative method for essential oils analysis. The excellent visual spacing of the signals enables oil samples to be analyzed without preliminary separation of their components. Also, information relating to the molecular structure of the oil constituents can be ascertained from the measured chemical shifts. This second edition clearly demonstrates the power of the technique in the characterization of essential oils, based on 60 sample oils chosen for their industrial importance together with the 188 carbon-13 NMR spectra of significant components. Supporting data are presented using capillary gas chromatography. Key features of the Second Edition: 18 new essential oils are included, five oils are replaced and five oils with less or little importance are deleted Revision of numerous analyses taken over from the 1st edition Capillary gas chromatograms of 60 commercially important essential oils Qualitative and quantitative analytical results of those essential oils Carbon-13 NMR analyses of those essential oils without separation of their components Carbon-13 NMR spectra of 188 most important oil...



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