

Articles

Anal. Chem. 1994, 66, 425-430

Multidimensional Gas Chromatography Coupled with Infrared and Mass Spectrometry for Analysis of Eucalyptus Essential Oils

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A parallel cryogenic trapping multidimensional gas chromatography/Fourier transform infrared spectrometry/mass spectrometry combination (MDGC/FT-IR/MS) is evaluated for analysis of essential oils. As a demonstration of the value of this analytical approach, analysis of several essential oil samples are reported. The method developed to differentiate these oils is quite general and can be applied equally well to analysis of various other complex mixtures. By use of a multipoint manual valve system in conjunction with multiple parallel cryogenic traps, it is demonstrated that three-stage or higher order gas chromatographic separations (GCⁿ) are practical, providing the expected improvements in separation efficiency needed for accurate qualitative analysis. Chromatographic and spectroscopic data obtained by analysis of two adulterated and one known adulterated *Eucalyptus australicum* oil samples are utilized as benchmarks for analysis of a fourth sample which is suspected of being adulterated and a fifth sample from an unknown source. It is concluded that the presence of either camphor or a combination of α -caryophyllene, decane, sabinene, β -phellandrene, and γ -terpinene is indicative of eucalyptus oil adulteration.

Gas chromatography has been the analytical tool of choice for separation and identification of essential oil components for many years. Traditionally, oil analysis has been performed mainly with flame ionization detection (FID) or with mass spectral detection.¹ However, there are several potential difficulties with both of these methods. When FID detectors are employed, retention times from separation on two different polarity columns are used to identify various components, requiring that retention times of authentic standards must be known for chromatography on both columns for each component of interest. Furthermore, because FID detectors are nonspecific, it is difficult to deal with component overlap.

Mass spectrometry (MS) offers many advantages over FID detection with respect to specificity. In fact, usually, because most essential oils contain significant numbers of compounds which are isomers of one another, the *n* positive identification using only mass spectral detection is often precluded. A well-known method of overcoming this difficulty is to incorporate infrared (IR) spectroscopy in the analytical system. Use of this complementary detector, in addition to mass spectrometry, greatly enhances the reliability of component identification.²⁻⁴ However, the accuracy of the identification step is still very much dependent upon the purity of the compounds resulting from a chromatographic separation. With mixtures consisting of many compounds as an essential oil, it is virtually certain that components will be incompletely separated using a single stage of separation.⁵ An appealing potential solution to this dilemma is the use of multidimensional gas chromatography (MDGC),^{6,7} as reported here. With MDGC, it should be possible to conventionally achieve much greater separation efficiencies than is practical for a single-stage separation. When this methodology is coupled with infrared and mass spectral detection, the accuracy of qualitative analysis is limited by the quality and size of spectral databases available, rather than by an inability to obtain spectra of pure mixture components.⁸

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Eucalyptus John J.W. Coppen,2002-04-25 Eucalyptus a genus of over 800 species is a multiproduct crop par excellence Not only is it grown for timber pulp and fuelwood but as the Aborigines discovered thousands of years ago it has numerous medicinal and aromatic properties Since the first commercial distillation of eucalyptus oil 150 years ago a vast array of eucalyptus based pro

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Essential Oils AntonC. deGroot,Erich Schmidt,2021-04-11 Essential Oils Contact Allergy and Chemical Composition provides a full review of contact allergy to essential oils along with detailed analyses of the chemical composition of essential oils known to cause contact allergy In addition to literature data this book presents the results of nearly 6 400 previously unpublished sample analyses by far the largest set of essential oils analyses ever reported in a single source of scientific literature Covering 91 essential oils and two absolutes the book presents an alphabetical list of all 4 350 ingredients that have been identified in them a list of chemicals known to cause contact allergy and allergic contact dermatitis and tabular indications of the ingredients that can be found in each essential oil The book discusses contact allergy and allergic contact dermatitis for each of the oils and absolutes sometimes able to provide only one or two reports but drawing upon considerable amounts of literature in other cases such as with tea tree oil ylang ylang oil lavender oil rose oil turpentine oil jasmine absolute and sandalwood oil While limited information on the main components and their concentrations would be enough for most dermatologists this book gives extensive coverage not only to improve levels of medical knowledge and quality of patient care but also for the benefit of professionals beyond clinical study and practice such as chemists in the perfume and cosmetics industries perfumers academic scientists working with essential oils and fragrances aromatherapists legislators and those involved in the production sale and acquisition of essential oils

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web oct 31 2023 hotel hideaway habbo nun yaratıcıları tarafından geliştirilen casual bir oyundur bu oyun benzer bir tecrübe sunar fakat dilediğiniz kişi olabileceğiniz tümüyle 3d bir çevrede geçer oynamaya başlamak için adınızı ve cinsiyetinizi seçerek karakterinizi oluşturmalsınız

hotel hideaway virtual world android için son sürüm apk yı - Feb 17 2022

web oct 23 2023 oyun açıklaması sulake oy tarafından geliştirilen android uygulaması hotel hideaway virtual world rol oyunu kategorisi altında listelenmiştir mevcut sürüm 3 48 dur 23 10 2023 de güncellenir google play hotel hideaway virtual world ya göre 14 milyon den fazla kurulum elde etti