

Applied Headspace Gas Chromatography

Edited by
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Hans-Joachim Hübschmann



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Applied Headspace Gas Chromatography Bruno Kolb, 1980 Static Headspace-Gas Chromatography Bruno Kolb, Leslie S. Ettre, 2006-05-05

STATIC HEADSPACE GAS CHROMATOGRAPHY THE ONLY REFERENCE TO PROVIDE BOTH CURRENT AND THOROUGH COVERAGE OF THIS IMPORTANT ANALYTICAL TECHNIQUE

Static headspace gas chromatography HS GC is an indispensable technique for analyzing volatile organic compounds enabling the analyst to assay a variety of sample matrices while avoiding the costly and time consuming preparation involved with traditional GC

Static Headspace Gas Chromatography Theory and Practice has long been the only reference to provide in depth coverage of this method of analysis The Second Edition has been thoroughly updated to reflect the most recent developments and practices and also includes coverage of solid phase microextraction SPME and the purge and trap technique Chapters cover Principles of static and dynamic headspace analysis including the evolution of HS GC methods and regulatory methods using static HS GC Basic theory of headspace analysis physicochemical relationships sensitivity and the principles of multiple headspace extraction HS GC techniques vials cleaning caps sample volume enrichment and cryogenic techniques Sample handling Cryogenic HS GC Method development in HS GC Nonequilibrium static headspace analysis Determination of physicochemical functions such as vapor pressures activity coefficients and more Comprehensive and focused Static Headspace Gas Chromatography Second Edition provides an excellent resource to help the reader achieve optimal chromatographic results Practical examples with original data help readers to master determinations in a wide variety of areas such as forensic environmental pharmaceutical and industrial applications

Static Headspace Sampling Followed by Gas Chromatography and Gas Chromatography-mass Spectrometry Applied to Various Complex Matrices Michael Edward Miller, 1999

Static headspace sampling was studied to 1 minimize the effect of a soil's matrix on the analysis of benzene toluene ethylbenzene and xylenes from soils 2 determine the Henry's law coefficients for various fuel components 3 compare gas sampled and solid phase microextraction SPME sampled static headspace and 4 successfully couple static headspace sampling to high speed GC The effects of various matrix modifiers were studied in addition to alternative techniques such as the full evaporation technique to determine an effective way to eliminate the effect of the matrix on analyte recovery The full evaporation technique used very high temperatures to force the analytes of interest into the gaseous phase Using these high temperatures and no matrix modifying solution provided an analysis free of matrix effects Henry's Law coefficients were determined for several compounds found in reformulated gasolines This new method relies only on the knowledge of the phase ratio defined by the experimental apparatus The value obtained for MTBE using the method was in excellent agreement with other literature values specifically 1.7 M atm Other compounds studied included ETBE TAME DIPE benzene toluene and ethylbenzene The comparison of gas sampled and SPME sampled static headspace methods when applied to GC MS analyses was examined for the effectiveness of transferring of volatile components of several juices from sample vial to

chromatograph The results of this study showed the SPME fiber to be approximately 1400 time more effective owing to the ability of the fiber to concentrate the analytes and transfer them without the need to inject large volumes of inert gas into the instrument Finally the coupling of static headspace to high speed GC allowed the reduction of the analysis time reported in the SPME study by a factor of approximately twenty times from 75 to just 4 minutes The sampling system designed used batch equilibration of many samples to enhance the speed of analysis in conjunction with a sample collection method that used a trapping column to collect the sample which is rapidly transferred from the sample vial to the instrument by a stream of nitrogen

Handbook of Advanced Materials Testing Louise Ferrante,1994-11-29 This work discusses techniques for developing new engineering materials such as elastomers plastic blends composites ceramics and high temperature alloys Instrumentation for evaluating their properties and identifying potential end uses are presented The book is intended for materials manufacturing mechanical chemical and metallurgical engi

Handbook of GC/MS Hans-Joachim Hübschmann,2008-11-21 This is the first comprehensive reference work for GC MS now in its second edition It offers broad coverage from sample preparation to the evaluation of MS Data including library searches Fundamentals techniques and applications are described A large part of the book is devoted to numerous examples for GC MS applications in environmental food pharmaceutical and clinical analysis These proven examples come from the daily practice of various laboratories The book also features a glossary of terms and a substance index that helps the reader to find information for his particular analytical problem The author presents in a consistent and clear style his experience from numerous user workshops which he has organized This is a thoroughly revised and updated English edition based on an edition which was highly successful in Germany

Principles and Practice of Modern Chromatographic Methods Kevin Robards,Danielle Ryan,2021-12-03 Principles and Practice of Modern Chromatographic Methods Second Edition takes a comprehensive unified approach in its presentation of chromatographic techniques Like the first edition the book provides a scientifically rigid but easy to follow presentation of chromatography concepts that begins with the purpose and intent of chromatographic theory the what and why that are left out of other books attempting to cover these principles This fully revised second edition brings the content up to date covering recent developments in several new sections and an additional chapter on composite methods New topics include sample profiling sample preparation sustainable green chemistry 2D chromatography miniaturization nano LC HILIC and more Contains thorough chapters that begin with an updated schematic overview and a visual representation of the content Avoids the obfuscation of different terminologies and classification systems that are prevalent in the area such as the relationship between liquid chromatography and column chromatography Provides integrated and comprehensive topic coverage based on chromatographic bibliometrics and survey reports on the relative usage of chromatographic techniques

Gas Chromatographic Techniques and Applications Alan John Handley,E. R. Adlard,2001 This volume provides an overview of the state of the art in gas chromatography with an emphasis on new

technologies The authors all drawn from respected industrial and academic laboratories consider developments in gas chromatographic techniques over the last decade Application areas are addressed within individual chapters *Lipid Analysis in Oils and Fats* R.J. Hamilton,2012-12-06 This book focuses on the developments in the field of lipid analysis providing an up to date review of the analytical techniques available to chemists and technologists to identify complex molecules The requisite theoretical background will be provided for individual techniques together with their strengths and weaknesses and a guide to the enormous range of commercial applications It will be an invaluable reference source to all sectors of the oils and fats industry where accurate labeling of foods food contamination and adulteration are issues of increasing interest and concern *Applications of Glass Capillary Gas Chromatography* Walter Jennings,1981-08-01

Practical Gas Chromatography Katja Dettmer-Wilde,Werner Engewald,2014-11-05 Gas chromatography continues to be one of the most widely used analytical techniques since its applications today expand into fields such as biomarker research or metabolomics This new practical textbook enables the reader to make full use of gas chromatography Essential fundamentals and their implications for the practical work at the instrument are provided as well as details on the instrumentation such as inlet systems columns and detectors Specialized techniques from all aspects of GC are introduced ranging from sample preparation solvent free injection techniques and pyrolysis GC to separation including fast GC and comprehensive GCxGC and finally detection such as GC MS and element specific detection Various fields of application such as enantiomer food flavor and fragrance analysis physicochemical measurements forensic toxicology and clinical analysis are discussed as well as cutting edge application in metabolomics is covered

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