

Quantitative determination of formaldehyde in cosmetics using combined headspace–solid-phase microextraction–gas chromatography

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Synopsis

The objective of this research was the application of headspace (HS)–solid-phase microextraction (SPME) for the qualitative and quantitative analysis of formaldehyde in cosmetics. The headspace was extracted for the first time with polydimethylsiloxane (PDMS), as done in previous researches. The solid-phase microextraction was performed on a SPME fiber during successive extraction under constant conditions (time, temperature, volume, etc.). After the extraction step, the SPME fiber was directly inserted into the gas chromatography (GC) injection port in which the analysis was immediately performed. Benzene was used as an internal standard (IS) in order to quantify the formaldehyde content. The GC was equipped with a gas chromatograph equipped with a flame ionization detector (FID). HS–SPME was employed. A gas-tight syringe (graphical) (purchased (GCMSB) was used for the injections. The influence of variables in this work

INTRODUCTION

For decades, formaldehyde was one of the most widely used preservatives in personal care products due to its versatility, cost, and efficiency. In recent years, the potential for carcinogenic and neoplastic conversion from formaldehyde has become widely understood. This has led to a movement in the industry that has imposed regulations, restrictions, and formaldehyde usage being banned.

In scientific and cosmetics industries several analytical procedures have been developed for qualitative as well as quantitative analysis. One of the most well known procedures for qualitative analysis is the *pink-schiff test*, in which formaldehyde reacts in an alkaline medium with *p*-benzylidene aniline to produce a reddish brown color complex. For the quantitative of formaldehyde, several methods have been employed, one of which is based on Nash reagent. In this determination, formaldehyde is not dense with ammonia and acrylamide to form the imidinium derivative 3,5-diacetyl-1,4-dihydroxybenzidine (1,2). Nash reagent is sensitive not only to formaldehyde, but also to other aldehydes. If chromophore compounds are present in the product, they could interfere with the spectrophotometric determination. Formaldehyde can also be determined colorimetrically

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Formaldehyde and Cognition Rongqiao He,2025-09-24 This book presents cutting edge insights into formaldehyde with a particular focus on endogenous formaldehyde revealing its many key roles in the human body It delves into the relationship between endogenous formaldehyde and cognition as well as age related cognitive impairment It discusses different aspects such as formaldehyde metabolism its function in the brain links with epigenetics and neurophysiology and epidemiological and clinical investigations The author also provides suggestions on how to prevent cognitive impairment caused by excessive endogenous formaldehyde This book appeals to all readers who are interested in cognitive science and toxicology This updated edition significantly expands upon the 1st edition The author adds five new chapters to broaden and deepen the progression and knowledge of formaldehyde and cognition in recent years *Textbook of Contact Dermatitis*

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impurities and their impact on the pharmaceutical industry Specific sections examine this from both a toxicological and analytical perspective Within these sections the book defines appropriate strategies to both assess and ultimately control genotoxic impurities thus aiding the reader to develop effective control measures An opening section covers the development of guidelines and the threshold of toxicological concern TTC and is followed by a section on safety aspects including safety tests in vivo and vitro and data interpretation The second section addresses the risk posed by genotoxic impurities from outside sources and from mutagens within DNA In the final section the book deals with the quality perspective of genotoxic impurities focused on two critical aspects the first being the analysis and the second how to practically evaluate the impurities **Analysis of Cosmetic Products** Amparo Salvador,Alberto Chisvert,2017-11-20 Analysis of Cosmetic Products

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Mass Spectrometry Mahmood Aliofkhazraei, 2017-06-07 Mass spectrometry is an analytical technique that can be used for the structural characterization and quantification of a wide range of molecules The technique is extensively used by chemists for the analysis of small and volatile organic compounds Mass spectrometry has long been an important technique for the identification of materials ranging from pure compounds to complex mixtures Mass spectrometry can be used to determine molecular weight of compounds or using different ionization conditions can provide more structural details through the analysis of fragmentation patterns This level of detail can be attained for pure compounds and some mixtures Mass spectrometry can also be combined with separation techniques such as gas chromatography or liquid chromatography to allow more complex mixtures to be examined These hyphenated techniques provide a range of options for the characterization of complex materials

Cosmetic Microbiology Daniel K. Brannan, 1997-04-23 Until now information on cosmetic microbiology was scattered and mostly consisted of oral tradition passed on from mentors to apprentices Finally here is an understandable and easy to read guide documenting cosmetic microbiology practices Cosmetic Microbiology A Practical Handbook contains technical information on sanitation and the preservation of cosmetics for microbiologists as well as for process engineers plant managers and workers The book provides the knowledge needed to create safe and usable cosmetic products All aspects of cosmetic microbiology are covered including testing methods preservation toxicology and regulatory concerns

Monographs in Contact Allergy, Volume 1 Anton C. de Groot, 2021-03-22 Monographs in Contact Allergy Volume 1 Non Fragrance Allergens in Cosmetics Part 1 and Part 2 is the first 2 part volume in an exciting series on contact allergy It presents over 500 natural or synthetic chemicals and compounds which have caused allergic contact dermatitis in cosmetic products Included here are INCI names synonyms description definition CAS and EU numbers chemical class function in cosmetics molecular formula structural formula and advice on patch tests A full literature review is given of patch testing in patients case reports of cosmetic allergic contact dermatitis irritant contact dermatitis photosensitivity immediate contact reactions and systemic side effects This text is suitable for anyone with an interest in contact allergy from university students to professionals and all readers will find this informative and detailed series an invaluable resource Key Features Monographs of all known non fragrance chemicals and substances which have caused allergic contact dermatitis from their presence in cosmetic products Provides lists of all functional groups such as antioxidants preservatives artificial nail building emollients hair dyeing hair colorants in both the EU and US formats and all

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Advances in Applied Chemistry and Industrial Catalysis Binoy K. Saikia, 2022-07-25 Presenting a collection of papers resulting from the conference on Applied Chemistry and Industrial Catalysis ACIC 2021 Qingdao China 24-26 December 2021 The theme of the conference was Clean Production and High Value Utilization discussing how to reduce the environmental footprint at the source and produce high value added end products in chemical manufacturing The conference brought together scholars from the Chinese government top universities business associations research centers and high tech enterprises and was committed to building and enabling a platform for the cooperation among the Chinese government Chemical industry and scholars The goal was to build a bridge between R D results and the Chemical industry The conference conducted in depth exchanges and discussions on relevant topics such as applied chemistry and industrial catalysis aiming to provide an academic and technical communication platform for scholars and engineers engaged in scientific research and engineering practice in the field of chemistry catalysis and function material By sharing the research status of scientific research achievements and cutting edge technologies it helps scholars and engineers all over the world comprehend the academic development trend and broaden research ideas So as to strengthen international academic research academic topics exchange and discussion and promote the industrialization cooperation of academic achievements

Handbook of Occupational Dermatology L. Kanerva, P. Elsner, J.E. Wahlberg, H.I. Maibach, 2013-06-29 A highly practical approach to occupational dermatoses combined with the skill and experience of specialists in clinical and experimental dermatology Great care is taken throughout to provide the information urgently needed for daily patient management with concise tables algorithms and figures on how to optimise the diagnostic procedure for high quality patient care and expert opinion This handbook provides the relevant job descriptions job specific diagnostic algorithms and a detailed description of allergens and irritants such that readers can master even difficult and unusual problems in occupational dermatology **Rook's Textbook of Dermatology** Tony Burns, Stephen M. Breathnach, Neil Cox, Christopher Griffiths, 2008-04-15 The late Arthur Rook established the Textbook of Dermatology as the most comprehensive work of reference available to the dermatologist and it enjoys instant name recognition Each subsequent edition has been expanded as the subject has developed and the book remains the ultimate source of clinical information for the trainee and practising

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Journal of the Association of Official Analytical Chemists Association of Official Analytical Chemists, 1990

Contact Dermatitis Jeanne Duus Johansen, Peter J. Frosch, Jean-Pierre Lepoittevin, 2010-09-29 The fifth edition delivers up to date coverage of every conceivable aspect in modern day management of contact dermatitis Leading experts have thoroughly updated the previous edition while adding new chapters on genetics the skin barrier respiratory symptoms to chemicals and an extensive section on prevention Both irritant and allergic contact dermatitis are covered with special emphasis on immunological mechanisms molecular aspects of sensitizers atypical clinical forms reactions to medicaments occupational and environmental aspects The comprehensive yet approachable text is supplemented by numerous color illustrations and tables Core messages and case reports highlight the most important information and help in gaining better understanding of the topic and greater competence in daily practice An extensive dictionary of allergens gives quick access to specific information

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Table of Contents Quantitative Determination Of Formaldehyde In Cosmetics

1. Understanding the eBook Quantitative Determination Of Formaldehyde In Cosmetics
 - The Rise of Digital Reading Quantitative Determination Of Formaldehyde In Cosmetics
 - Advantages of eBooks Over Traditional Books
2. Identifying Quantitative Determination Of Formaldehyde In Cosmetics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Quantitative Determination Of Formaldehyde In Cosmetics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Quantitative Determination Of Formaldehyde In Cosmetics
 - Personalized Recommendations
 - Quantitative Determination Of Formaldehyde In Cosmetics User Reviews and Ratings
 - Quantitative Determination Of Formaldehyde In Cosmetics and Bestseller Lists
5. Accessing Quantitative Determination Of Formaldehyde In Cosmetics Free and Paid eBooks
 - Quantitative Determination Of Formaldehyde In Cosmetics Public Domain eBooks
 - Quantitative Determination Of Formaldehyde In Cosmetics eBook Subscription Services

- Quantitative Determination Of Formaldehyde In Cosmetics Budget-Friendly Options
- 6. Navigating Quantitative Determination Of Formaldehyde In Cosmetics eBook Formats
 - ePub, PDF, MOBI, and More
 - Quantitative Determination Of Formaldehyde In Cosmetics Compatibility with Devices
 - Quantitative Determination Of Formaldehyde In Cosmetics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Quantitative Determination Of Formaldehyde In Cosmetics
 - Highlighting and Note-Taking Quantitative Determination Of Formaldehyde In Cosmetics
 - Interactive Elements Quantitative Determination Of Formaldehyde In Cosmetics
- 8. Staying Engaged with Quantitative Determination Of Formaldehyde In Cosmetics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Quantitative Determination Of Formaldehyde In Cosmetics
- 9. Balancing eBooks and Physical Books Quantitative Determination Of Formaldehyde In Cosmetics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Quantitative Determination Of Formaldehyde In Cosmetics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Quantitative Determination Of Formaldehyde In Cosmetics
 - Setting Reading Goals Quantitative Determination Of Formaldehyde In Cosmetics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Quantitative Determination Of Formaldehyde In Cosmetics
 - Fact-Checking eBook Content of Quantitative Determination Of Formaldehyde In Cosmetics
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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