

Biological monitoring for exposure assessment of volatile organic compounds by Korean firefighters at the fire site

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Abstract: The VOCs and metabolites in urine for exposed VOCs were evaluated for firefighters who participated in the actual fire fighting to determine whether firefighters were exposed to hazardous chemicals, which is the basic data on cancer risk of firefighters. When the fire extinguishing time is long, the concentration of benzene, PHEMA, and toluene among VOCs and metabolites in the case of fire suppression, rescue, and fire investigation work, which is estimated that the exposure of hazardous substances generated from the fire site at the time of fire suppression was large, significantly increased. In the case where the number of urination is 2 or less, the concentration of TZCA, toluene, and benzene among VOCs and metabolites was significantly increased compared to the number of urinating more than 2 times. In the concentration of VOCs and metabolites in urine corrected with creatinine, the concentrations of toluene and PHEMA in urine were significantly higher. The concentration of PHEMA in urine was higher in the group who participated in the fire suppression for more than 11 hours (long time) than the group who participated in the fire suppression for a short time.

Key words: Biological monitoring, Exposure assessment, Volatile organic compound, Metabolite, Firefighter

Introduction

Firefighters are exposed to various hazardous factors such as noise, particulate matters (PM), heavy metals, aldehydes, volatile organic compounds (VOCs), Polycyclic aromatic hydrocarbons (PAHs), acidic substances and gaseous pollutants during fire extinguishing and at the residual cleanup sites^{1–3).}

omestic hydrocarbons (PAHs), acidic substances and gaseous pollutants during fire extinguishing and at the residual cleanup sites^{1–3).}

In the epidemiological study on cancer of firefighters in Korea, when the firefighters were compared with the general population, the risk of cancer was 0.97 (0.90–1.08 at 95% confidence interval) times for all cancers and 1.81(1.12–2.76 at 95% confidence interval) times for non-Hodgkin's lymphoma (NHL), which was significantly higher than that of the general population^{4).} In a study in-

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Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds

Barbara Cohrssen



Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds:

The Biological Monitoring of Exposure to Chemicals, Volume 1 Mat H. Ho, H. K. Dillon, 1987-08-14 New York John Wiley and Sons 1987 The Biological Monitoring of Exposure to Chemicals, Volume 1 Mat H. Ho, H. K. Dillon, 1987-08-14 New York John Wiley and Sons 1987 **Patty's Industrial Hygiene, 4 Volume Set** Vernon E. Rose, Barbara Cohrssen, 2011-02-14 Since the first edition in 1948 Patty's Industrial Hygiene and Toxicology has become a flagship publication for Wiley. In the course of its nearly six decades in print it has evolved into a standard reference for the fields of occupational health and toxicology. The volumes on Industrial Hygiene are cornerstone reference works for chemists, engineers, toxicologists, and occupational safety personnel. Since the 5th edition was published, the field of IH has changed with personnel often working for multinational firms, self-employed at small consulting firms. Their environment has changed and expanded, and thus also the types of information and resources required have changed. The traditional areas of interest to occupational health and safety professionals include anticipation, recognition, evaluation, and control of potential hazards. In addition to these, the 6th edition provides information and reliable resources to prepare for natural disasters, exposures to biological agents, and potential acts of terrorism.

Health Surveillance of Individual Workers Exposed to Chemical Agents Wilfried R.F. Notten, Rob F.M. Herber, William J. Hunter, Aart C. Monster, Reinier L. Zielhuis, 2012-12-06 Early in 1985 a meeting was held to discuss the organization of a workshop in honour of Professor Reinier L. Zielhuis on the occasion of his retirement on November 30, 1986. Various themes for such a workshop were considered, but it was Zielhuis himself who ultimately selected Health surveillance of individual workers exposed to chemical agents as the theme of the workshop. Although this topic is of the utmost importance for occupational health practice, it is also a very difficult one given our currently limited knowledge on the subject. The choice of this topic is characteristic of Reinier Zielhuis, a scientist and scholar who throughout his career has been deeply concerned with the health and health risks of workers. Because he regards occupational and environmental exposure, including life style, as two aspects of the total exposure to chemical and physical factors, he emphasizes the need to assess the impact of this total exposure on workers' health. The impact of total exposure probably determines to a large extent the individual variability in response. This was the main reason why he selected the above-mentioned topic for the workshop.

Environmental Epidemiology Kopfler, 1986-12-01 This informative book is valuable to a broad spectrum of individuals active in the environmental and health sciences, including chemists, epidemiologists, and mathematics modelers, as well as those involved with measurement and effects of numerous kinds of drinking water contamination and both indoor and ambient air pollution. Environmental researchers involved with human exposure to toxic substances, regulators, and administrators will also find this work of value.

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1993 **Essential Resources for Industrial Hygiene** Michael K. Harris, 2000 International Symposium on Occupational Exposure Limits, 1985 *Patty's Industrial Hygiene*,

Volume 4 Barbara Cohrssen, 2021-04-27 Since the first edition in 1948 Patty's Industrial Hygiene and Toxicology has become a flagship publication for Wiley. During its nearly seven decades in print, it has become a standard reference for the fields of occupational health and toxicology. The volumes on industrial hygiene are cornerstone reference works for not only industrial hygienists but also chemists, engineers, toxicologists, lawyers, and occupational safety personnel. Volume 4 covers environmental and health and safety program management with a number of new chapters on sustainability, construction health and safety, health and safety of new energies, and working with cannabis.

Patty's Toxicology, 6 Volume Set Eula Bingham, Barbara Cohrssen, 2012-07-31 Featuring the improved format used in the 5th edition, this updated set presents in logical groupings comprehensive toxicological data for industrial compounds, including CAS numbers, physical and chemical properties, exposure limits, and biological tolerance values for occupational exposures, making it essential for toxicologists and industrial hygienists. This edition has about 40% new authors who have brought a new and international perspective to interpreting industrial toxicology and discusses new subjects such as nanotechnology, flavorings, and the food industry. reactive chemical control to comprehensive chemical policy, metalworking fluids, and pharmaceuticals.

Report on Carcinogens, 2000 *Hayes' Principles and Methods of Toxicology* A. Wallace Hayes, Tetyana Kobets, 2023-07-03 Hayes' *Principles and Methods of Toxicology* has long been established as a reliable and informative reference for the concepts, methodologies, and assessments integral to toxicology. The new edition contains updated and new chapters with the addition of new authors while maintaining the same high standards that have made this book a benchmark resource in the field.

Key Features: The comprehensive yet concise coverage of various aspects of fundamental and applied toxicology makes this book a valuable resource for educators, students, and professionals. Questions provided at the end of each chapter allow readers to test their knowledge and understanding of the material covered. All chapters have been updated, and over 60 new authors have been added to reflect the dynamic nature of toxicological sciences. New topics in this edition include Safety Assessment of Cosmetics and Personal Care Products, The Importance of the Dose Rate Response, Novel Approaches and Alternative Models, Epigenetic Toxicology, and an Expanded Glossary. The volume is divided into 4 major sections addressing fundamental principles of toxicology: Section I Principles of Toxicology, major classes of established chemical hazards; Section II Agents, current methods used for the assessment of various endpoints indicative of chemical toxicity; Section III Methods, as well as toxicology of specific target systems and organs; Section IV Organ and System Specific Toxicology. This volume will be a valuable tool for the audience that wishes to broaden their understanding of hazards and mechanisms of toxicity and to stay on top of the emerging methods and concepts of the rapidly advancing field of toxicology and risk assessment.

Report summaries United States. Environmental Protection Agency, 1983 **Report on Carcinogens (12th Ed.)** Nat. Toxicology Program (NTP) (NIH), 2011-10-08 The Report on Carcinogens RoC is a congressionally mandated science-based public health document that identifies and discusses agents, substances, mixtures, or exposure circumstances hereinafter referred to as

substances that may pose a hazard to human health by virtue of their carcinogenicity For each listed substance the report contains a substance profile which provides information on 1 the listing status 2 cancer studies in humans and animals 3 studies of genotoxicity ability to damage genes and biologic mechanisms 4 the potential for human exposure to these substances and 5 Federal regulations to limit exposures Eight substances have been added to this 12th ed of the report which now includes 240 listings The industrial chemical formaldehyde and a botanical known as aristolochic acids are listed as known human carcinogens Six other substances captafol cobalt tungsten carbide in powder or hard metal form certain inhalable glass wool fibers o nitrotoluene riddelliine and styrene are added as substances that are reasonably anticipated to be human carcinogens Figures This is a print on demand report *EPA Publications Bibliography* United States. Environmental Protection Agency, 1985 **Indexes** United States. Environmental Protection Agency, 1983 *Federal Register* , 2007-06-18 Energy Abstracts for Policy Analysis , 1989 Current Catalog National Library of Medicine (U.S.), 1993-04 Occupational Health Practice H. A. Waldron, 1989 A new co author together with experienced international authors bring this edition in line with current occupational health thinking With many new chapters and complete revision of existing chapters occupational health professionals in training and in practice will welcome this new edition

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Table of Contents Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds

1. Understanding the eBook Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
 - The Rise of Digital Reading Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
 - Advantages of eBooks Over Traditional Books
2. Identifying Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
 - 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 Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds

- Personalized Recommendations
- Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds User Reviews and Ratings
- Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds and Bestseller Lists
- 5. Accessing Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds Free and Paid eBooks
 - Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds Public Domain eBooks
 - Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds eBook Subscription Services
 - Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds Budget-Friendly Options
- 6. Navigating Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds eBook Formats
 - ePub, PDF, MOBI, and More
 - Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds Compatibility with Devices
 - Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
 - Highlighting and Note-Taking Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
 - Interactive Elements Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
- 8. Staying Engaged with Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
- 9. Balancing eBooks and Physical Books Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
 - Setting Reading Goals Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
 - Fact-Checking eBook Content of Biological Monitoring Of Exposure To Chemicals Vol 1 Organic Compounds
 - 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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