



Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants

Volume 2

COMMITTEE ON TOXICOLOGY
NATIONAL RESEARCH COUNCIL



Spacecraft Maximum Allowable Concentrations For Selected Airborne Contaminants

Lei Shi



Spacecraft Maximum Allowable Concentrations For Selected Airborne Contaminants:

Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Subcommittee on Spacecraft Maximum Allowable Concentration, 1996-01-25 The National Aeronautics and Space Administration NASA has developed spacecraft maximum allowable concentrations SMACs for contaminants that might be found in the atmosphere within spacecraft during space missions to ensure the health and well being of astronauts traveling and working in this unique environment In volume 1 of this series NASA developed SMACs for 11 compounds acetaldehyde ammonia carbon monoxide formaldehyde Freon 113 hydrogen methane methanol octamethyltrisiloxane trimethylsilanol and vinyl chloride Volume 2 includes SMACs for 12 more airborne contaminants acrolein benzene carbon dioxide 2 ethoxyethanol hydrazine indole mercury methylene chloride methyl ethyl ketone nitromethane 2 propoanol and toluene In developing SMACs from the toxicological literature NASA followed the Guidelines for Developing Spacecraft Maximum Allowable Concentrations for Space Station Contaminants published in 1992 by the National Research Council *Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants* National Research Council, Commission on Life Sciences, Board on Environmental Studies and Toxicology, Committee on Toxicology, Subcommittee on Spacecraft Maximum Allowable Concentrations, 2000-03-02 The National Aeronautics and Space Administration NASA is aware of the potential toxicological hazards to crew members that might be associated with prolonged spacecraft missions Despite major engineering advances in controlling the atmosphere within spacecraft some contamination of the air appears inevitable NASA has measured numerous airborne contaminants during space missions As the missions increase in duration and complexity ensuring the health and well being of astronauts traveling and working in this unique environment becomes increasingly difficult As part of its efforts to promote safe conditions aboard spacecraft NASA requested the National Research Council NRC to develop guidelines for establishing spacecraft maximum allowable concentrations SMACs for contaminants and to review SMACs for various spacecraft contaminants to determine whether NASA s recommended exposure limits are consistent with the guidelines recommended by the subcommittee In response to this request the NRC first developed criteria and methods for preparing SMACs for spacecraft contaminants published in its 1992 report Guidelines for Developing Spacecraft Maximum Allowable Concentrations for Space Station Contaminants Since then the NRC s Subcommittee on Spacecraft Maximum Allowable Concentrations has been reviewing NASA s documentation of chemical specific SMACs This report is the fourth volume in the series Spacecraft Maximum Allowable Concentrations for Space Station Contaminants The first volume was published in 1994 and the second and third in 1996 Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants Volume 4 has been reviewed in draft form by individuals chosen for their technical expertise and diverse perspectives in accordance with procedures approved by the NRC s Report Review Committee for reviewing NRC and Institute of Medicine reports The purpose of that Independent review was to

provide candid and critical comments to assist the NRC in making the published report as sound as possible and to ensure that the report meets institutional standards for objectivity evidence and responsiveness to the study charge The review comments and draft manuscript remain confidential to protect the integrity of the deliberative process

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Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Toxicology, Committee on Spacecraft Exposure Guidelines, 2008-12-24 NASA is aware of the potential toxicologic hazards to crew that might be associated with prolonged spacecraft missions Despite major engineering advances in controlling the atmosphere within spacecraft some contamination of the air appears inevitable NASA has measured numerous airborne contaminants during space missions As the missions increase in duration and complexity ensuring the health and well being of astronauts traveling and working in this unique environment becomes increasingly difficult As part of its efforts to promote safe conditions aboard spacecraft NASA requested the National Research Council to develop guidelines for establishing spacecraft maximum allowable concentrations SMACs for contaminants and to review SMACs for various spacecraft contaminants to determine whether NASA's recommended exposure limits are consistent with the guidelines recommended by the committee This book is the fifth volume in the series *Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants* and presents SMACs for acrolein C3 to C8 aliphatic saturated aldehydes C2 to C9 alkanes ammonia benzene carbon dioxide carbon monoxide 1,2-dichloroethane dimethylhydrazine ethanol formaldehyde limonene methanol methylene dichloride n-butanol propylene glycol toluene trimethylsilanol and xylenes

Spacecraft Maximum Allowable Concentrations for Selected Airborne Contaminants National Research Council (U.S.). Subcommittee on Spacecraft Maximum Allowable Concentrations, 1994

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