

## Styrene; CASRN 100-42-5

Human health assessment information on a chemical substance is included in the IRIS database only after a comprehensive review of toxicity data, as outlined in the [IRIS assessment development process](#). Sections I (Health Hazard Assessments for Noncarcinogenic Effects) and II (Carcinogenicity Assessment for Lifetime Exposure) present the conclusions that were reached during the assessment development process. Supporting information and explanations of the methods used to derive the values given in IRIS are provided in the [guidance documents located on the IRIS website](#).

### STATUS OF DATA FOR Styrene

File First On-Line 01/31/1987

Category (section)	Assessment Available?	Last Revised
Oral RfD (I.A.)	yes	01/31/1987
Inhalation RfC (I.B.)	yes	11/01/1992
Carcinogenicity Assessment (II.)	not evaluated	

### I. Chronic Health Hazard Assessments for Noncarcinogenic Effects

#### I.A. Reference Dose for Chronic Oral Exposure (RfD)

Substance Name — Styrene

CASRN — 100-42-5

Last Revised — 01/31/1987

The oral Reference Dose (RfD) is based on the assumption that thresholds exist for certain toxic effects such as cellular necrosis. It is expressed in units of mg/kg-day. In general, the RfD is an estimate (with uncertainty spanning perhaps an order of magnitude) of a daily exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime. Please refer to the Background Document for an

# Iris Chemical Information Database

**Ken Geiser**

## Iris Chemical Information Database:

**IRISChemical Information Database** Lawrence H. Keith,1992-09-29 The Integrated Risk Information System IRIS is the EPA's most comprehensive database for hazardous environmental chemicals Updated quarterly it covers five major subject categories Chronic health hazard assessment for noncarcinogenic effects Carcinogenicity assessment for lifetime exposure Health hazard assessments for varied exposure durations U S EPA regulatory actions Supplementary data references and synonyms IRIS Integrated Risk Information System Features Our version of the IRIS database is available at a significant savings over the government's version and features powerful searching capabilities printing and exporting features and automatic installation Data for this package is compiled into a series of alphabetized searchable files that comes complete with a menu driven search program to make finding information quick and painless The database also features an automatic installation program and can generate reports as printed copies or electronic files ready for import into a word processor Load as much or as little of the information you need from the database for fast results on your personal computer When your IRIS quarterly updates arrive simply load the new disks on your computer and the latest version of the complete IRIS database is at your fingertips Even better our version of the IRIS database is available at a significant savings over the government's version and features powerful searching capabilities printing and exporting features and automatic installation The most comprehensive data available for hazardous substances IRIS Integrated Risk Information System features comprehensive information for about 500 hazardous regulated and unregulated substances This number increases every three months with the addition of new files and revisions to existing information Unlike other databases that provide summaries or abbreviated data IRIS gives you extensive textual and numeric information complete with EPA contacts and full references IRIS is the database to use to obtain the critical toxicity regulatory risk assessment medical chemical and physical property data you'll need for risk evaluations regulatory decisions and other uses And with its quarterly updates your information never grows old Chronic health hazard assessments include reference doses for chronic oral exposure and inhalation exposure Carcinogenicity assessment data includes evidence for classification as to human carcinogenicity quantitative estimates of carcinogenic risk from oral exposure and inhalation exposure and EPA documentation review and contacts Health hazards assessments provide information from EPA's Drinking Water Health Advisories including health advisories for children and adults organoleptic properties taste and odor analytical methods for detection in drinking water water treatment documentation and EPA contacts What Does IRIS Provide Complete U S EPA regulatory action data is presented for Clean Air Act including NAAQS NESHAP and NSPS Safe Drinking Water Act including MCLGs MCLs and SMCLs Clean Water Act Federal Insecticide Fungicide and Rodenticide Act FIFRA Toxic Substances Control Act TSCA Resource Conservation and Recovery Act RCRA including Appendix 9 Comprehensive Environmental Response Compensation and Liability Act CERCLA including Superfund data Reportable quantity data for the release of substances into

the environment IRIS's supplementary data includes important information such as Acute health hazard information e g toxicity medical conditions Physical and chemical properties e g formula vapor pressure flash point References and synonyms IRIS Chemical Information Database is one of the most important reference sources available for toxicologists chemists chemical engineers ecologists environmental scientists regulators industrial hygienists occupational physicians government administrators emergency response personnel hazardous material response teams lawyers union representatives insurance companies commercial realtors and lending institutions property pre acquisition auditors analytical laboratories and libraries System Requirements To use the IRIS Chemical Information Database you need IBM or IBM compatible equipment with 640K RAM and a hard drive with 2 to 15MB of available disk space depending on the number of disks you load DOS 2.0 or higher is also required Diskettes can be ordered in either 5.25 or 3.5 formats The IRIS Chemical Information Database is an annual subscription product updated on a quarterly basis A user's manual is included in the subscription price Each update will be automatically sent to you unless you cancel your subscription Because each update replaces the previous version of the IRIS database you can be sure that you will receive the most current version including searching printing and installation capabilities regardless of what time of year you initially subscribe Subscription renewal information for 1993 will automatically be sent to current subscribers

#### **E.P.A.'s IRIS Chemical Information Database ,1992      Information**

**Resources in Toxicology** Philip Wexler,2000 History K D Watson P Wexler and J Everitt Highlights in the History of Toxicology Selected References in the History of Toxicology A Historical Perspective of Toxicology Information Systems Books and Special Documents G L Kennedy Jr P Wexler N S Selzer and L A Malley General Texts Analytical Toxicology Animals in Research Biomonitoring Biomarkers Biotechnology Biotoxins Cancer Chemical Compendia Chemical Cosmetics and Other Consumer Products Chemical Drugs Chemical Dust and Fibers Chemical Metals Chemicals Pesticides Chemicals Solvents Chemical Selected Chemicals Clinical Toxicology Developmental and Reproductive Toxicology Environmental Toxicology General Environmental Toxicology Aquatic Environmental Toxicology Atmospheric Environmental Toxicology Hazardous Waste Environmental Toxicology Terrestrial Environmental Toxicology Wildlife Ep

#### **Public Health Risk**

**Assessment for Human Exposure to Chemicals** K. Asante-Duah,2012-12-06 In fact with the control and containment of most infectious conditions and diseases of the past millennium having been achieved in most developed countries and with the resultant increase in life expectancies much more attention seems to have shifted to degenerative health problems Many of the degenerative health conditions have been linked to thousands of chemicals regularly encountered in human living and occupational work environments It is important therefore that human health risk assessments are undertaken on a consistent basis in order to determine the potential impacts of the target chemicals on public health

**Carcinogenicity** Kirk T. Kitchin,2021-12-16 Offers comprehensive coverage of currently available cancer predictors the most recent research on carcinogenicity and the design and interpretation of carcinogenicity experiments Presents mouse rat and human

carcinogenicity data for the liver kidney breast cervix prostate hematopoietic system colon skin urinary bladder mouth stomach thyroid and pancreas    **Chemicals without Harm** Ken Geiser,2015-06-19 A proposal for a new chemicals strategy that we work to develop safer alternatives to hazardous chemicals rather than focusing exclusively on controlling them Today there are thousands of synthetic chemicals used to make our clothing cosmetics household products electronic devices even our children s toys Many of these chemicals help us live longer and more comfortable lives but some of these highly useful chemicals are also persistent toxic and dangerous to our health and the environment For fifty years the conventional approach to hazardous chemicals has focused on regulation barriers and protection In Chemicals without Harm Ken Geiser proposes a different strategy based on developing and adopting safer alternatives to hazardous chemicals rather than focusing exclusively on controlling them Geiser reviews past government policies focused on controlling chemicals describes government initiatives outside the United States that have begun to implement a more sustainable chemical policy and offers an overview of the chemicals industry and market He develops a safer chemicals policy framework that includes processes for characterizing classifying and prioritizing chemicals generating and using new chemical information and promoting transitions to safer chemicals The shift in strategy described by Geiser will require broad changes in science the chemicals economy and government policy Geiser shows that it is already beginning identifying an emerging movement of scientists corporate managers environmental activists and government leaders who are fashioning a new twenty first century approach to chemicals    **Science Under Siege** United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Oversight and Investigations,2010

#### **Management of Contaminated Site Problems, Second Edition**

Kofi Asante-Duah,2019-04-12 This book outlines the strategies used in the investigation characterization management and restoration and remediation for various contaminated sites It draws on real world examples from across the globe to illustrate remediation techniques and discusses their applicability It provides guidance for the successful corrective action assessment and response programs for any type of contaminated land problem and at any location The systematic protocols presented will aid environmental professionals in managing contaminated land and associated problems more efficiently This new edition adds twelve new chapters and is fully updated and expanded throughout

[EPA Publications Bibliography](#)

[Quarterly Abstract Bulletin](#) United States. Environmental Protection Agency,1998-04    **CARA (Chemical Assessments and Related Activities)** United States. Environmental Protection Agency,1993    [Federal Register](#) ,2012-05    [Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories](#) United States. Environmental Protection Agency. Office of Water, Fish Contaminant Section,2000

*Environmental Assessment of Products* Henrik Wenzel,Michael Hauschild,1997-12-31 This major two volume work presents a new decision making tool which enables manufacturers and scientists to undertake life cycle assessment LCA of new products from the design and development stages The methodology allows the environmental consequences of a product to enter into decision making in the same way as traditional commercial

parameters such as price quality etc Significantly it is in accordance with international consensus as defined by SETAC Society of Environmental Toxicology and Chemistry and ISO International Organization for Standardization Moreover the individual steps have been made operational through the creation of a collection of tools for assessment The books are derived from the Environmental Design of Industrial Products EDIP programme organized by the Technical University of Denmark and five leading Danish companies The project was sponsored by the Danish Environmental Protection Agency EPA and the Confederation of Danish Industries

**The NLM Technical Bulletin**,1991

Enzymes in the Valorization of Waste

Pradeep Verma,2022-12-19 Enzymes in the Valorization of Waste Next Gen Technological Advances for Sustainable Development of Enzyme based Biorefinery focusses on key enzymes which are involved in the development of integrated biorefinery It highlights the modern next gen technologies for promoting the application of sustainable and greener enzymatic steps at industrial scale for the development of futuristic and self sustainable consolidated integrated biorefinery enzyme based biorefinery It also deals with technological advancement for improvement of enzyme yield or specificity conversion capability such as protein and metabolic engineering and advances in next generation technologies and so forth Features Explores all modern day technologies that can potentially be used in enzyme based biorefinery conversion of wastes to value added products Covers technological economic and environmental assessments of enzyme based biorefinery prospects Deliberates all possible products that can be generated from wastes including biofuel and essential chemicals Illustrates techniques for enhanced yield and properties to be used in various industrial applications Reviews advanced information of relevant sources and mechanism of enzymes This book is aimed at graduate students researchers and related industry professionals in biochemical engineering environmental science wastewater treatment biotechnology applied microbiology biomass based biorefinery biochemistry green chemistry sustainable development waste treatment enzymology microbial biotechnology and waste valorization

**Toxicological Risk Assessment of Chemicals** Elsa Nielsen,Grete

Ostergaard,John Christian Larsen,2008-02-21 Unlike many existing books on toxicology that cover either toxicity of a particular substance or toxicity of chemicals on particular organ systems Toxicological Risk Assessment of Chemicals A Practical Guide lays out the principle activities of conducting a toxicological risk assessment including international approaches and methods for the risk

Risk Assessment in Environmental Management D. Kofi Asante-Duah,1998-10-20

Attempts to provide a concise yet comprehensive overview of the many facets aspects relating to chemical risk assessments It presents some very important tools and methodologies that can be used to help resolve environmental contamination problems in a consistent efficient and cost effective way

*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

**Arsenic in Groundwater** M. Manzurul Hassan,2018-03-08 Arsenic contaminated groundwater is considered one of the world's largest environmental health crises as more than 300 million people in more than one third of countries worldwide are at risk of groundwater arsenic poisoning This book addresses how arsenic in groundwater impacts human health by using the frameworks of natural sciences social sciences and health sciences in the context set by environmental and legal considerations Arsenic in Groundwater Poisoning and Risk Assessment examines the spatial quantitative and qualitative aspects on arsenic poisoning for instance using geographical information systems GIS to investigate the spatial discontinuity of arsenic laced water in spatial and temporal dimensions to uncover patterns of variations over scales from meters to kilometers Spatial risk mapping provides insight for academics researchers policy makers and politicians on possible long term strategies for arsenic mitigation Qualitative methodological approaches uncover the hidden issues of arsenic poisoning on human health and the related social implications The book also examines legal aspects such as the right to safe drinking water as well as an in depth look at how community participation can shape public policy Features Describes arsenic poisoning from both the scientific and social science perspectives Includes technical insights drawn from GIS based modeling for spatial arsenic discontinuity and spatial health risks of arsenic poisoning Provides a state of the art review of the human health literature and cutting edge scientific evidence for arsenic related health and social implications Examines the environmental justice and legal issues of drinking water and its quality Presents environmental policy and public mitigation strategies with Public Participation GIS PPGIS related to arsenic contamination More than 2 000 references serve as valuable resources for various aspects of arsenic poisoning

**Public Health Risk Assessment for Human Exposure to Chemicals** Kofi Asante-Duah,2017-06-22 This book provides a concise yet comprehensive overview of the many facets relating to human health risk assessments in relation to chemical exposure problems It presents

some very important tools and methodologies that can be used to address chemical exposure and public health risk management problems in a consistent efficient and cost effective manner On the whole the book represents a collection and synthesis of the principal elements of the risk assessment process that may be used to more effectively address issues pertaining to human exposures to chemicals found in modern societies This also includes an elaboration of pertinent risk assessment concepts and techniques methodologies for performing human health risk assessments Written for both the novice and the experienced the subject matter of this book is an attempt at offering a simplified and systematic presentation of public health risk assessment methods and application tools all these facilitated by a layout that will carefully navigate the user through the major processes involved A number of illustrative example problems are interspersed throughout the book in order to help present the book in an easy to follow pragmatic manner

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## **Table of Contents Iris Chemical Information Database**

1. Understanding the eBook Iris Chemical Information Database
  - The Rise of Digital Reading Iris Chemical Information Database
  - Advantages of eBooks Over Traditional Books
2. Identifying Iris Chemical Information Database
  - 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 Iris Chemical Information Database
  - User-Friendly Interface
4. Exploring eBook Recommendations from Iris Chemical Information Database
  - Personalized Recommendations
  - Iris Chemical Information Database User Reviews and Ratings
  - Iris Chemical Information Database and Bestseller Lists
5. Accessing Iris Chemical Information Database Free and Paid eBooks
  - Iris Chemical Information Database Public Domain eBooks
  - Iris Chemical Information Database eBook Subscription Services

- Iris Chemical Information Database Budget-Friendly Options
- 6. Navigating Iris Chemical Information Database eBook Formats
  - ePUB, PDF, MOBI, and More
  - Iris Chemical Information Database Compatibility with Devices
  - Iris Chemical Information Database Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Iris Chemical Information Database
  - Highlighting and Note-Taking Iris Chemical Information Database
  - Interactive Elements Iris Chemical Information Database
- 8. Staying Engaged with Iris Chemical Information Database
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Iris Chemical Information Database
- 9. Balancing eBooks and Physical Books Iris Chemical Information Database
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Iris Chemical Information Database
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Iris Chemical Information Database
  - Setting Reading Goals Iris Chemical Information Database
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Iris Chemical Information Database
  - Fact-Checking eBook Content of Iris Chemical Information Database
  - 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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