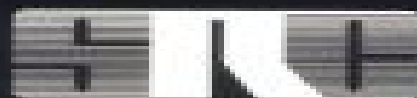


# Hydrolysis Rate Program



**William M. Meylan**  
**Philip H. Howard**

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**Philip H. Howard, William M. Meylan**



## Hydrolysis Rate Program:

*Hydrolysis Rate Program* Philip H. Howard, William M. Meylan, 1992-06-26 Now you can calculate hydrolysis rates for chemicals without experimental data using the Hydrolysis Rate Program This powerful software package calculates the hydrolysis rate constant for esters carbamates halomethanes alkyl halides and epoxides using the method developed by the U S Environmental Protection Agency s EPA Office of Toxic Substances The program uses SMILES notation structural input to calculate a second order acid or base catalyzed hydrolysis rate constant at 25 C Acid and base catalyzed half lives are calculated for pH7 and or pH8 Hydrolysis Rate Program will run on any IBM or IBM compatible personal computer with 320K RAM and will be a valuable asset for any environmental chemist analytical lab regulator or chemical company

*Research Program* Forest Products Laboratory (U.S.), 1948      **Forest Products Laboratory Research Program** Forest Products Laboratory (U.S.), 1950      Substitute Chemical Program United States. Environmental Protection Agency. Office of Pesticide Programs. Criteria and Evaluation Division, 1975      *Transformation Products of Synthetic Chemicals in the Environment* Alistair Boxall, 2009-09-01 When a synthetic chemical is released into the environment it may be degraded by abiotic and biotic processes These degradation processes usually involve a cascade of reactions resulting in the formation of a number of transformation products While we usually know a great deal about the environmental properties fate and effects of parent synthetic chemicals our understanding of the impacts of transformation products is much less developed As such this volume brings together chapters from leading researchers in the field of transformation products in the environment and describes how these products are formed how they move through the environment and their environmental effects The book also presents modelling and analytical approaches for understanding the occurrence fate and effects of transformation products in the environment It is of interest to scientists in academia the chemicals industry and regulators as well as graduate students in Environmental Chemistry and Ecotoxicology      *Analysis of Engineering Design Studies for Demilitarization of Assembled Chemical Weapons at Pueblo Chemical Depot* National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Review and Evaluation of Alternative Technologies for Demilitarization of Assembled Chemical Weapons: Phase II, 2001-09-27 The Program Manager for Assembled Chemical Weapons Assessment PMACWA of the Department of Defense DOD requested the National Research Council NRC to assess the engineering design studies EDSs developed by Parsons Honeywell and General Atomics for a chemical demilitarization facility to completely dispose of the assembled chemical weapons at the Pueblo Chemical Depot in Pueblo Colorado To accomplish the task the NRC formed the Committee on Review and Evaluation of Alternative Technologies for Demilitarization of Assembled Chemical Weapons Phase II ACW II Committee This report presents the results of the committee s scientific and technical assessment which will assist the Office of the Secretary of Defense in selecting the technology package for destroying the chemical munitions at Pueblo The committee evaluated the engineering

design packages proposed by the technology providers and the associated experimental studies that were performed to validate unproven unit operations A significant part of the testing program involved expanding the technology base for the hydrolysis of energetic materials associated with assembled weapons This process was a concern expressed by the Committee on Review and Evaluation of Alternative Technologies for Demilitarization of Assembled Chemical Weapons ACWI Committee in its original report in 1999 NRC 1999 The present study took place as the experimental studies were in progress In some cases tests for some of the supporting unit operations were not completed in time for the committee to incorporate results into its evaluation In those cases the committee identified and discussed potential problem areas in these operations Based on its expertise and its aggressive data gathering activities the committee was able to conduct a comprehensive review of the test data that had been completed for the overall system design This report summarizes the study

**Environmental Health Perspectives** ,2003-07 **Bacterial Circadian Programs** Jayna L. Ditty, Shannon R. Mackey, Carl H. Johnson, 2009-02-01 Since the discovery of circadian rhythms in cyanobacteria in the late 1980s the field has exploded with new information The cyanobacterial model system for studying circadian rhythms *Synechococcus elongatus* has allowed a detailed genetic dissection of the bacterial clock due to the methods currently available in molecular structural and evolutionary biology This book addresses multiple aspects of bacterial circadian programs the history and background of the cyanobacteria and circadian rhythms in microorganisms the molecular basis structure and evolution of the circadian clock entrainment of the oscillator with the environment and the control of downstream processes by the clock the demonstration of adaptive significance and the prokaryotic clock's remarkable stability and mathematical and synthetic oscillator models for clock function Experts in the field provide a timely and comprehensive review and a stepping stone for future work on this amazing group of microorganisms and timing

*Soil/Sediment Adsorption Constant Program* Philip H. Howard, William M. Meylan, 1992-06-26 Soil Sediment Adsorption Constant Program uses the SMILES notation structural input to calculate the soil or sediment adsorption coefficient  $K_{oc}$  from a correlation of the molecular connectivity indices and correction factors for certain chemical classes This method was developed by the U S Environmental Protection Agency's EPA Office of Toxic Substances and is now available for use on any IBM or IBM compatible computer with 240K RAM This powerful user friendly program provides reliable data that will benefit any environmental chemist or regulator chemical companies and analytical labs

**Chemical Property Estimation** Edward Baum, 2018-05-11 Our world is widely contaminated with damaging chemicals and companies create thousands of new potentially dangerous chemicals each year Due to the difficulty and expense of obtaining accurate measurements and the unreliability of reported values we know surprisingly little about the properties of these contaminants Determining the properties of chemicals is critical to judging their impact on environmental quality and in making decisions about emission rates clean up and other important public health issues Chemical Property Estimation describes modern methods of estimating chemical properties methods which cost

much less than traditional laboratory techniques and are sufficiently accurate for most environmental applications. Estimation methods are used to screen chemicals for testing design monitoring and analysis methods design clean up procedures and verify experimental measurements. The book discusses key methods for estimating chemical properties and considers their relative strengths and weaknesses. Several chapters are devoted to the partitioning of chemicals between air water soil and biota and properties such as solubility vapor pressure and chemical transport. Each chapter begins with a review of relevant theory and background information explaining the applications and limitations of each method. Sample calculations and practical advice on how and when to use each method are included as well. Each method is evaluated for accuracy and reliability. Computer software databases and internet resources are evaluated as well as other supplementary material such as fundamental constants units of measure and more.

GEOLOGY- Volume III Benedetto De Vivo, Bernhard Grasemann, Kurt Stüwe, 2009-12-11. Geology is the Component of Encyclopedia of Earth and Atmospheric Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias. The theme on geology in the Encyclopedia of Earth and Atmospheric Sciences presents many aspects of geology under the following nine different topics: The Organized Earth Tectonics and Geodynamics Igneous and Metamorphic Petrology Sedimentary Geology and Paleontology Overview of the Mineralogical Sciences Geology of Metallic and Non Metallic Mineral Resources Regional Geology Geology of Petroleum Gas and Coal Environmental and Engineering Geology.

*Risk Assessment of Chemicals: An Introduction* C.J. van Leeuwen, J.L.M. Hermens, 2012-12-06. In recent years many developments have taken place in promote co operation between governments and other the field of risk assessment of chemicals. Many reports parties involved in chemical safety and to provide policy have been published by national authorities industries guidance with emphasis on regional and subregional co and scientific researchers as well as by international bod operation. The Inter Organization Programme for the ies such as the European Union the Organization of Sound Management of Chemicals IOMC was estab Economic Cooperation and Development OECD and lished in 1995 and provides a mechanism for the six par the joint International Programme on Chemical Safety ticipating organizations UNEP ILO FAO UNIDO WHO IPCS of the World Health Organization WHO the and OECD to better co ordinate policies and activities in International Labour Organization ILO and the United the field of chemical risk management Nations Environment Programme UNEP. The present book is an introduction to risk assessment of The development and international harmonization of risk chemicals. It contains basic background information on assessment methods is an important challenge. In sources emissions distribution and fate processes for Agenda 21 of the United Nations Conference on exposure estimation. It includes dose effects estimation Environment and Development UNCED chapter 19 is for both human health related toxicology and ecotoxicol entirely devoted to the management of chemicals. For ogy as well as information on estimation methodologies one of its recommendations i e

**Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination** J. Russell

Boulding, Jon S. Ginn, 2016-04-19 A synthesis of years of interdisciplinary research and practice the second edition of this bestseller continues to serve as a primary resource for information on the assessment remediation and control of contamination on and below the ground surface Practical Handbook of Soil Vadose Zone and Ground Water Contamination Assessment Prev

**Energy Research Abstracts** ,1993      **ENVIRONMENTAL AND ECOLOGICAL CHEMISTRY - Volume III** Aleksandar Sabljic, 2009-02-04 Environmental and Ecological Chemistry is a component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Environmental and Ecological Chemistry presents the essential aspects such as Fundamental Environmental Chemistry Atmospheric Chemistry Soil Chemistry Aquatic Chemistry Ecological Chemistry Chemistry of Organic Pollutants Including Agrochemicals These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

*Review and Evaluation of Alternative Technologies for Demilitarization of Assembled Chemical Weapons* National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee on Review and Evaluation of Alternative Technologies for Demilitarization of Assembled Chemical Weapons, 1999-11-24 This report examines seven disposal technologies being considered by the U S government as alternative methods to the process of incineration for destroying mortars rockets land mines and other weapons that contain chemical warfare agents such as mustard gas These weapons are considered especially dangerous because they contain both chemical warfare agent and explosive materials in an assembled package that must be disassembled for destruction The study identifies the strengths and weaknesses and advantages and disadvantages of each technology and assesses their potential for full scale implementation

**Selected Water Resources Abstracts** ,1989-04      **Nuclear Science Abstracts** ,1975-06      *Environmental Investigation and Remediation* Thomas K.G. Mohr, 2016-04-19 A ubiquitous largely overlooked groundwater contaminant 1,4-dioxane escaped notice by almost everyone until the late 1990s While some dismissed 1,4-dioxane because it was not regulated others were concerned and required testing and remediation at sites they oversaw Drawing years of 1,4-dioxane research into a convenient resource

Environmental      **Toxicological Profile for Endrin and Endrin Aldehyde** ,1996

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