

HYDROCARBONS



Hydrocarbon Compounds

Hydrocarbon compounds are compounds that consist only of carbon and hydrogen atoms. Hydrocarbons can be divided into 2, namely:

a. Saturated Hydrocarbons: single bonds

including saturated hydrocarbons :

- Alkane : open chain (C_nH_{2n+2})
- Cycloalkane : closed chain (C_nH_{2n})

b. Unsaturated Hydrocarbons: double bonds

- Alkene : double bond (C_nH_{2n})
- Alkyne : triple bond (C_nH_{2n-2})
- Alkadiene : two double bonds (C_nH_{2n-2})



Nomenclature of Alkanes

The nomenclature of alkanes is the basis for the nomenclature of other carbon compounds. Therefore the nomenclature of alkanes must be thoroughly understood.

Here are the names of alkanes from C_1 - C_{10} :

Formula	Name	Formula	Name
CH_4	methane	C_6H_{14}	hexane
C_2H_6	ethane	C_7H_{16}	heptane
C_3H_8	propane	C_8H_{18}	octane
C_4H_{10}	butane	C_9H_{20}	nonane
C_5H_{12}	pentane	$C_{10}H_{22}$	decane

Alkene names :

C_2H_4 = ethylene

C_3H_6 = propene

Hydrocarbon Study Guide

Jicheng Xie



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Student Guide For Living Chemistry Barbara Ucko, 2012-12-02 Student Guide for Living Chemistry is a 23 chapter textbook guide that allows students to study and review on their own and test their understanding to help them prepare for examinations Every chapter begins with a list of objectives stating exactly the skills to develop in a particular unit Each objective corresponds to a section in the textbook Living Chemistry Three kinds of questions are provided for each objective to check the student's understanding namely short answer Study Questions multiple choice and fill in The answers for all questions are provided at the end of the chapter The opening chapters cover the SI units composition of matter chemical bonding compounds chemical change gases respiration and water The subsequent chapters deal with solutions acids bases salts nuclear and organic chemistry oxygen derivatives and hydrocarbons polymers and other organic derivatives This textbook also explores the chemistry of carbohydrates lipids proteins enzymes and energy and carbohydrate metabolism The remaining chapters discuss the chemistry of vitamins hormones body fluid drugs and poisons Undergraduate chemistry students will find this book invaluable Student Guide for Workplace Monitor Training: Specific hazards monitoring, 1985

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Hydrocarbon Seals P. Møller-Pedersen,A.G. Koestler,1997-12-18 In January 1996 a total of 270 conference participants gathered for 3 days in Trondheim Norway to focus on and to discuss the complex topic of hydrocarbon seals particularly related to deformation zones and to caprocks The conference was the first in Norway and one of the first in Europe to exclusively address this very important subject The purpose of the conference was to present some of the most recent research results to establish state of the art with respect to understanding hydrocarbon seals and to discuss where to go from here to find some of the keys to successful future exploration and enhanced oil and gas recovery Out of the presented papers and posters 17 are compiled and published in this volume These provide a good overview of and an introduction to the numerous aspects covered during the fruitful days in Trondheim

Advances in raw material industries for sustainable development goals Vladimir Litvinenko,2020-12-29 Advances in Raw Material Industries for Sustainable Development Goals presents the results of joint scientific research conducted in the context of the Russian German Raw Materials Forum Today Russia and Germany are exploring various forms of cooperation in the field of mining geology mineralogy mechanical engineering and energy Russia and Germany are equally interested in expanding cooperation and modernizing the economy in terms of sustainable development The main theme of this article collection is connected with existing business ventures and ideas from both Russia and Germany In this book the authors regard complex processes in mining industry from various points of view including modern technologies in prospecting exploration and development of mineral resources progressive methods of natural and industrial mineral raw materials processing energy technologies and digital technologies for sustainable development cutting edge technologies and innovations in the oil and gas industry Working with young researchers supporting their individual professional development and creating conditions for their mobility and scientific cooperation are essential parts of Russian German Raw Materials Forum founded in Dresden 13 years ago This collection represents both willingness of young researchers to be involved in large scale international projects like Russian German

Raw Material Forum and the results of their long and thorough work in the promising areas of cooperation between Russia and Germany *U.S. Geological Survey Bulletin* ,1983 **Geochemical Aspects of the Saturated Hydrocarbon**

Constituents of Green River Oil Shale-Colorado No. 1 Core Donald E. Anders,Wilbur Eugene Robinson,1973

General Chemistry for Engineers Jeffrey Gaffney,Nancy Marley,2017-11-13 General Chemistry for Engineers explores the key areas of chemistry needed for engineers This book develops material from the basics to more advanced areas in a systematic fashion As the material is presented case studies relevant to engineering are included that demonstrate the strong link between chemistry and the various areas of engineering Serves as a unique chemistry reference source for professional engineers Provides the chemistry principles required by various engineering disciplines Begins with an atoms first approach building from the simple to the more complex chemical concepts Includes engineering case studies connecting chemical principles to solving actual engineering problems Links chemistry to contemporary issues related to the interface between chemistry and engineering practices *Publications- a Quarterly Guide* ,1979 **BESCOP Soil Washing System for Lead Battery Site Treatment** ,1995 **Cyclic Hydrocarbons—Advances in Research and Application: 2012 Edition** ,2012-12-26 Cyclic Hydrocarbons Advances in Research and Application 2012 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Cyclic Hydrocarbons in a concise format The editors have built Cyclic Hydrocarbons Advances in Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Cyclic Hydrocarbons in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Cyclic Hydrocarbons Advances in Research and Application 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Oil & Gas Journal* ,1926

Infrastructure Sustainability Through New Developments in Material, Design, Construction, Maintenance, and Testing of Pavements Anand Tapase,Jeffrey Lee,Lei Zhang,2021-07-10 This book includes a collection of research and practical papers aiming with key priority for improving the infrastructural sustainability for our well being and day to day lives through novel developments The united efforts through new developments in material design construction maintenance and testing of pavements from all over the world are taken under one umbrella Topics include issues related to civil infrastructure such as the use of construction waste recycled aggregates service life prediction of pavements mechanical behavior of SMA control measures of ready mixed concrete determination of landslide high risk areas Simulation of rock hydraulics in rock joint sustainable planning for provision of basic infrastructural facilities in rural areas It is anticipated that this book will support decisions regarding the optimal management and maintenance of civil infrastructures to support a

more resilient and sustainable environment for infrastructure users

Oil Shales and Tar Sands United States.

Department of Energy,1977

Advances in the Characterisation and Remediation of Sites Contaminated with Petroleum Hydrocarbons Jonás García-Rincón,Evangelos Gatsios,Robert J. Lenhard,Estella A. Atekwana,Ravi

Naidu,2023-11-22 This open access book synthesizes important advances in the assessment and management of soil and groundwater systems contaminated with petroleum hydrocarbons especially in the form of light non aqueous phase liquids LNAPLs LNAPL characterization and remediation is challenging due to the multi phase multi component nature of the problem and the various physical chemical and biological processes involved in a dynamic and heterogeneous hydrogeological setting This book focuses on the current state of practice of LNAPL characterization and remediation and seeks to provide information and a framework that would allow some of these complexities to be better addressed by contaminated land practitioners researchers and regulators

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