

Chapter 9 Carbon Chemistry

Section 9.2 Substituted Hydrocarbons**(pages 272–274)**

This section discusses organic compounds that contain atoms of elements other than carbon and hydrogen. It also explains the relationship between the properties of organic compounds and functional groups.

Reading Strategy (page 272)

Monitoring Your Understanding As you read, complete the table by connecting each functional group with the type of compound that contains the functional group. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Connecting Functional Groups to Types of Compounds	
Functional Group	Type of Compound
–OH	
–COOH	
–NH ₂	

1. Name the two main products when methane and chlorine react.
 - a. _____
 - b. _____
2. To which environmental problem have researchers connected halocarbons containing chlorine and fluorine? _____

3. Describe a substituted hydrocarbon. _____

4. Is the following sentence true or false? The functional group in a substituted hydrocarbon determines the properties of the compound. _____

Alcohols (page 273)

5. Methanol and ethanol are two examples of a class of organic compounds called _____.
6. The functional group in an alcohol is represented as –OH and is called a(n) _____ group.
7. Identify two ways a halocarbon can be produced.
 - a. _____
 - b. _____

Hydrocarbons From The Earth Section Review Answers

Rex M. Heyworth



Hydrocarbons From The Earth Section Review Answers:

Understanding Earth John Grotzinger, Thomas H. Jordan, 2010 Chapter by chapter help for studying and exam review with lots of support for working with the book's media resources *Reviews in Geochemistry: 2022* Salvatore

Inguaggiato, Qingqiang Meng, Erfan Mondal, Yi-Xiang Chen, Luiz Drude Lacerda, 2024-01-08 **Understanding Earth**

Student Study Guide Peter L. Kresan, Reed Mencke, 2006-05-03 The guide helps students prepare for lectures and exams with a heavy emphasis on utilizing the book's Web resources **The Changing Landscape of Hydrocarbon Feedstocks**

for Chemical Production National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, 2016-11-10 A decade ago the U S chemical industry was in decline Of the more than 40 chemical manufacturing plants being built worldwide in the mid 2000s with more than 1 billion in capitalization none were under construction in the United States Today as a result of abundant domestic supplies of affordable natural gas and natural gas liquids resulting from the dramatic rise in shale gas production the U S chemical industry has gone from the world's highest cost producer in 2005 to among the lowest cost producers today The low cost and increased supply of natural gas and natural gas liquids provides an opportunity to discover and develop new catalysts and processes to enable the direct conversion of natural gas and natural gas liquids into value added chemicals with a lower carbon footprint The economic implications of developing advanced technologies to utilize and process natural gas and natural gas liquids for chemical production could be significant as commodity intermediate and fine chemicals represent a higher economic value use of shale gas compared with its use as a fuel To better understand the opportunities for catalysis research in an era of shifting feedstocks for chemical production and to identify the gaps in the current research portfolio the National Academies of Sciences Engineering and Medicine conducted an interactive multidisciplinary workshop in March 2016 The goal of this workshop was to identify advances in catalysis that can enable the United States to fully realize the potential of the shale gas revolution for the U S chemical industry and as a result to help target the efforts of U S researchers and funding agencies on those areas of science and technology development that are most critical to achieving these advances This publication summarizes the presentations and discussions from the workshop **Student Study Guide** Peter

L. Kresan, Reed Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text *Understanding Earth* reflects the fundamental changes in the field of physical geology over the past several years **Sif: Chemistry 5na Tb** J. G. R. Briggs, 2009 **Carbon in Earth's Interior** Craig E. Manning, Jung-Fu Lin, Wendy L. Mao, 2020-04-03 Carbon in Earth's

fluid envelopes the atmosphere biosphere and hydrosphere plays a fundamental role in our planet's climate system and a central role in biology the environment and the economy of earth system The source and original quantity of carbon in our planet is uncertain as are the identities and relative importance of early chemical processes associated with planetary differentiation Numerous lines of evidence point to the early and continuing exchange of substantial carbon between Earth's

surface and its interior including diamonds carbon rich mantle derived magmas carbonate rocks in subduction zones and springs carrying deeply sourced carbon bearing gases Thus there is little doubt that a substantial amount of carbon resides in our planet s interior Yet while we know it must be present carbon s forms transformations and movements at conditions relevant to the interiors of Earth and other planets remain uncertain and untapped Volume highlights include Reviews key general topics such as carbonate minerals the deep carbon cycle and carbon in magmas or fluids Describes new results at the frontiers of the field with presenting results on carbon in minerals melts and fluids at extreme conditions of planetary interiors Brings together emerging insights into carbon s forms transformations and movements through study of the dynamics structure stability and reactivity of carbon based natural materials Reviews emerging new insights into the properties of allied substances that carry carbon into the rates of chemical and physical transformations and into the complex interactions between moving fluids magmas and rocks to the interiors of Earth and other planets Spans the various chemical redox states of carbon from reduced hydrocarbons to zero valent diamond and graphite to oxidized CO₂ and carbonates Captures and synthesizes the exciting results of recent focused efforts in an emerging scientific discipline Reports advances over the last decade that have led to a major leap forward in our understanding of carbon science Compiles the range of methods that can be tapped tap from the deep carbon community which includes experimentalists first principles theorists thermodynamic modelers and geodynamicists Represents a reference point for future deep carbon science research Carbon in Planetary Interiors will be a valuable resource for researchers and students who study the Earth s interior The topics of this volume are interdisciplinary and therefore will be useful to professionals from a wide variety of fields in the Earth Sciences such as mineral physics petrology geochemistry experimentalists first principles theorists thermodynamics material science chemistry geophysics and geodynamics

Effects of deep fluids in hydrocarbon accumulations in sedimentary basins Chen Zhang, Shu Jiang, Huaguo Wen, Dongya Zhu, Junhui Wang, 2023-03-13

Chemistry insights 'O' level Rex M. Heyworth, 2007

Reading in the Content Area with Literature Connections , 2000

Hydrocarbons From The Earth Section Review Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Hydrocarbons From The Earth Section Review Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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