

**CHAPTER 21 STUDY GUIDE**

# Hydrocarbons

## Section 21.1 Introduction to Hydrocarbons

*In your textbook, read about natural sources of hydrocarbons and rating gasoline.*

In the space at the left, write the word or phrase in parentheses that correctly completes the statement.

- \_\_\_\_\_ 1. (Petroleum, Natural gas) is a mixture of thousands of organic compounds.
- \_\_\_\_\_ 2. The boiling of petroleum and collection of its components is called (sedimentation, fractional distillation).
- \_\_\_\_\_ 3. In the process known as (cracking, knocking), heavier petroleum fractions are converted to gasoline by breaking their large molecules into smaller ones.
- \_\_\_\_\_ 4. A gasoline's ability to burn evenly and prevent knocking is expressed by its (hexane, octane) rating.

Use the diagram of a fractionation tower to answer the following questions.



5. How does the temperature inside the tower vary from bottom to top?  
\_\_\_\_\_
6. In what physical state is the material collected from pipe A? \_\_\_\_\_
7. What is the material collected from pipe A used for?  
\_\_\_\_\_
8. What is the material collected from pipe B used for?  
\_\_\_\_\_
9. Which pipe, A or B, collects hydrocarbons with higher boiling points? \_\_\_\_\_
10. Which pipe, A or B, collects smaller hydrocarbons? \_\_\_\_\_

# Hydrocarbons Study Guide Answer Key

**Emilie Sanchez**



## Hydrocarbons Study Guide Answer Key:

**Study Guide with Selected Solutions** Karen Timberlake, 2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems *Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry* Katherine J. Denniston, Denniston Katherine, 2006 **Chemistry, Student Study Guide** James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane  $\text{CH}_4$  from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement *Chemical Principles Student's Study Guide & Solutions Manual* John Krenos, Joseph Potenza, Loretta Jones, Lynn Koplitz, Thomas Spence, 2004-03-19 This combination manual is designed to help students avoid common mistakes and understand the material better The solutions manual section includes detailed answers and explanations to the odd numbered exercises in the text **Study Guide for Man, Nature, and Society** Theodore W. Pohrte, L. Jack Pierce, 1975 *Study Guide with Solutions to Accompany Burgoyne, A Study Course in Organic Chemistry* N. Sue Barnes, 1979 **Study Guide for Chemical Principles** Thomas Elliott Taylor, 1979 *Class 10 Chemistry Questions and Answers PDF* Arshad Iqbal, *The Class 10 Chemistry Quiz Questions and Answers PDF* Grade 10 Chemistry Competitive Exam Questions Chapter 1 10 Practice Tests Class 10 Chemistry Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Class 10 Chemistry Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Class 10 Chemistry Quiz PDF book helps to practice test questions from exam prep notes The Grade 10 Chemistry Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Class 10 Chemistry Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Acids bases and salts biochemistry characteristics of acids bases and salts chemical equilibrium chemical industries environmental chemistry atmosphere water hydrocarbons and organic chemistry tests for school and college revision guide Chemistry Interview Questions and Answers PDF Download free eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The Class 10 Chemistry Interview Questions Chapter 1 10 PDF book includes high school question papers to review practice tests for exams Class 10 Chemistry Practice Tests a textbook s revision guide with chapters tests for NEET MCAT GRE GMAT SAT ACT competitive exam 10th

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