

**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 Answers

**J Rink**



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