

CHAPTER **21** STUDY GUIDE

# Hydrocarbons

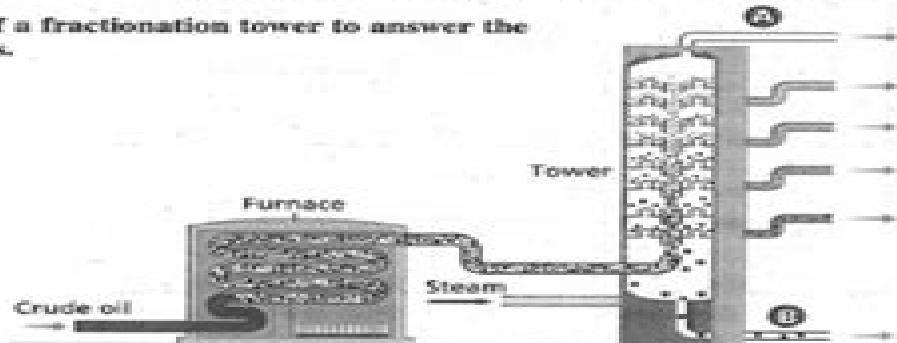
## Section 21.1 Introduction to Hydrocarbons

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? \_\_\_\_\_

# Study Guide Hydrocarbons

**Rita K. Cydulka, David M. Cline, O. John  
Ma, Michael T. Fitch, Scott A.  
Joing, Vincent J. Wang**

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Student Guide for Workplace Monitor Training: Specific hazards monitoring ,1985    *Study Questions in Elementary Organic Chemistry* Alexander Lowy,1926    *Tintinalli's Emergency Medicine: A Comprehensive Study Guide, 8th edition* Judith E. Tintinalli,J. Stephan Stapczynski,O. John Ma,David M. Cline,Garth D. Meckler,2016-03-22 The most widely used and highly regarded textbook and reference of emergency medicine Endorsed by the American College of Emergency Physicians The 8th edition of Tintinalli s Emergency Medicine provides the depth and breadth of coverage that reflects the complexity and expertise needed to practice emergency medicine successfully in today s fast paced environments It is an important contemporary clinical emergency care resource for physicians NPs and PAs who practice emergency medicine and for emergency medicine and pediatric emergency medicine fellows It remains the preferred study guide for in training and board examinations and recertification NEW to this edition Full color design with more tables than ever to succinctly present key information Extensive updates to all sections incorporating the latest guidelines evidence based protocols and relevant research Expanded pediatric section with complete clinical information for general and pediatric emergency physicians Expanded coverage of common emergency department procedures with improved illustrations Online access to more than 30 videos covering a wide range of procedural and diagnostic topics and focusing on the latest ultrasound guided techniques From the reviews of the seventh edition Collectively they have once again produced an excellent text that manages to cover the broad scope of emergency medicine while remaining an easily readable and practical resource Last for the inevitable comparison of this current edition of Tintinalli s Emergency Medicine with other available emergency medicine textbooks available in my opinion Tintinalli s still comes out on top It is more concise and easier to read than some yet it covers the breadth of emergency medicine practice more comprehensively than others Just as previous editions did the seventh presents all of the most pertinent and up to date information in a well organized format that is comprehensive yet easy to read That and many of the attractive new features in this current edition will ensure its place on my bookshelf for years to come JAMA

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