

## 15 Hydrocarbons

### Alkanes

#### Chemical Reactivity

Alkanes do not react with many reagents.

This is because the C-C bond and the C-H bond are relatively strong and so cannot form stronger bonds with other elements that easily and there are no polar side groups.

The main reactions are combustion reactions in air although they can react with halogens in the presence of UV light.

#### Combustion

##### Complete Combustion

In excess oxygen alkanes will burn with complete combustion.

The products of complete combustion are  $\text{CO}_2$  and  $\text{H}_2\text{O}$ .



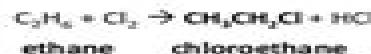
Alkanes readily burn in the presence of oxygen. This combustion of alkanes is highly exothermic, explaining their use as fuels.

#### Reaction of alkanes with bromine / chlorine in UV light

##### Synthesis of chloroalkanes

In the presence of UV light alkanes react with chlorine to form a mixture of products with the halogens substituting hydrogen atoms.

##### Overall Reaction



This is the overall reaction, but a more complex mixture of products is actually formed.

To understand this reaction fully we must look in detail at how it proceeds step by step. This is called its mechanism.

The MECHANISM for this reaction is called a FREE RADICAL SUBSTITUTION

It proceeds via a series of steps:  
STEP ONE: Initiation  
STEP TWO: Propagation  
STEP THREE: Termination

##### STEP ONE Initiation

Essential condition: UV light



The UV light supplies the energy to break the Cl-Cl bond. It is broken in preference to the others as it is the weakest.

The bond has broken in a process called homolytic fission.

When a bond breaks by homolytic fission it forms Free Radicals.

Free Radicals do not have a charge and are represented by a dot.

##### DEFINITION

A Free Radical is a reactive species which possess an unpaired electron

##### STEP TWO Propagation



The chlorine free radicals are very reactive and remove an H from the methane leaving a methyl free radical.

The methyl free radical reacts with a  $\text{Cl}_2$  molecule to produce the main product and another Cl free radical.

All propagation steps have a free radical in the reactants and in the products.

As the Cl free radical is regenerated, it can react with several more alkane molecules in a CHAIN REACTION

# Hydrocarbons Chemistry Study Guide Answers

**Martha Mackin**

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[Manual](#) John Krenos,Joseph Potenza,Carl Hoeger,2007-01-18 Written for general chemistry courses Chemical Principles helps students develop chemical insight by showing the connection between chemical principles and their applications

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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    *Study Guide and Solutions Manual to Accompany The Essence of Organic Chemistry* Jane M. Cram,Donald J. Cram,1978    *Organic Chemistry, 5e Student Study Guide and Solutions Manual* David R. Klein,Laurie S. Starkey,2025-03-18 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Study Guide and Solutions

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*Study Guide to Accompany Basics for Chemistry Martha*

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