

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.

Their 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 CO_2 and H_2O .



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**.

*each atom gets **one** electron from the covalent bond*

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

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



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 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**.

Hydrocarbon Compounds Study Guide Answers

Jill Meryl Levy



Hydrocarbon Compounds Study Guide Answers:

Hazmat Chemistry Study Guide (Second Edition) Jill Meryl Levy, 2011 Chemical Principles Study Guide/Solutions 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

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 *Geology Study Guide Questions and Answers* , 2014-10-05 Over 1500 Real ASBOG exam questions and answers Also use for geology practice college exams and certification *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 Study Material Based On NCERT Science Class- X Dr. Sunita Bhagiya, ,Er. Meera Goyal, 2021-11-26 1 Chemical Reaction And Equations 2 Acids based and Salts 3 Metals and Non Metals 4 Carbon and Its Compounds 5 Periodic Classification of elements 6 Life Processes 7 Control and Coordination 8 How do Organisms Reproduce 9 Heredity and Evolution 10 Light Reflection and Refraction 11 The Human Eye and the Colourful World 12 Electricity 13 Magnetic Effects of Electric Current 14 Sources of Energy 15 Our Environment 16 Sustainable Management of Natural Resoures Practical Project Appendix Answer Sheet Examination Paper *Organic Chemistry Fundamentals Study Guide* Speedy Publishing, 2014-11-26 In order to fully understand any subject the fundamentals must be understood and kept in the back of the mind Organic Chemistry is one of the most difficult subjects a college student can take especially if they are not a Chemistry major A lot goes into the fundamentals of the subject That is why an Organic Chemistry Fundamentals book can be so helpful to a student When studying the material if the student discovers they do not understand something they can reference the book and continue with studying in no time at all Having a reference book is the key to success in an Organic Chemistry class *Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry* Katherine J. Denniston, Denniston Katherine, 2006 **"O" Level Study Guide - Chemistry Quite Easily Done ,**

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