

Chapter 13

Hydrocarbons

Question 13.1:

How do you account for the formation of ethane during chlorination of methane?

Answer 13.1:

Chlorination of methane proceeds via a free radical chain mechanism. The whole reaction takes place in the given three steps.

Step 1: Initiation:

The reaction begins with the homolytic cleavage of Cl – Cl bond as:



Step 2: Propagation:

In the second step, chlorine free radicals attack methane molecules and break down the C-H bond to generate methyl radicals as:



These methyl radicals react with other chlorine free radicals to form methyl chloride along with the liberation of a chlorine free radical.

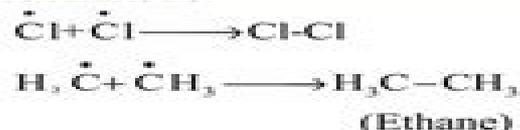


Hence, methyl free radicals and chlorine free radicals set up a chain reaction. While HCl and CH₃Cl are the major products formed, other higher halogenated compounds are also formed as:



Step 3: Termination:

Formation of ethane is a result of the termination of chain reactions taking place as a result of the consumption of reactants as:



Hence, by this process, ethane is obtained as a by-product of chlorination of methane.

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The Princeton Review



Chemistry Chapter 13 Solutions:

Solutions Manual for Chemistry: Molecules Matter and Change, Fourth Edition Julie Henderleiter, Charles Trapp, Peter Atkins, Loretta Jones, 1999-08-13 This student companion is a supplement to Chemistry Molecules Matter and Change 4th edition with CD ROM It features guided reading strategies collaborative learning sheets and strategies for using CD ROM tools [Papers from the Department of Chemistry McGill University, 1927](#) **Princeton Review MCAT General Chemistry Review, 5th Edition** The Princeton Review, 2025-11-04 Everything students need to know to succeed on the General Chemistry section of the MCAT exam Medical College Admission Test including 3 full length practice tests With in depth coverage of all MCAT general chemistry topics The Princeton Review MCAT General Chemistry Review helps you practice your way to excellence featuring everything you need for a high score Thorough content review for of all MCAT general chemistry topics 3 full length online practice tests with detailed answer explanations and score reports Test taking strategies geared toward general chemistry mastery Bulleted chapter summaries for quick review Full color illustrations diagrams and tables End of chapter drills and explanations plus MCAT style passages and questions 3 scholarly journal articles with exercises to strengthen your critical analysis Extensive reference glossary The Princeton Review MCAT General Chemistry Review covers Chemistry Fundamentals Atomic Structure and Periodic Trends Bonding and Intermolecular Forces Thermodynamics Phases Gases Kinetics Equilibrium Acids and Bases Electrochemistry MCAT Math for General Chemistry

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Solutions Guide for Chemistry, Third Edition, by Steven S. Zumdahl Kenneth C. Brooks, 1993

International Critical Tables of Numerical Data, Physics, Chemistry and Technology National Research Council (U.S.), Callie Hull, 1927

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Solutions Manual to Accompany Physical Chemistry J. Philip Bromberg, 1984

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