

ORGANIC CHEMISTRY

TOPIC 7.

ALKENES:

General formula = C_nH_{2n}

Functional group = $C=C$ (saturated)

REACTIONS:

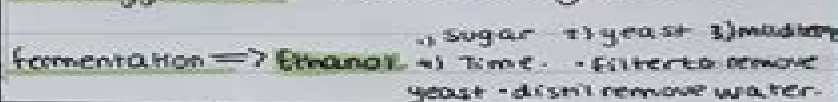


ALCOHOL:

functional group = OH^-

General formula = $C_nH_{2n+1}OH$

REACTIONS:

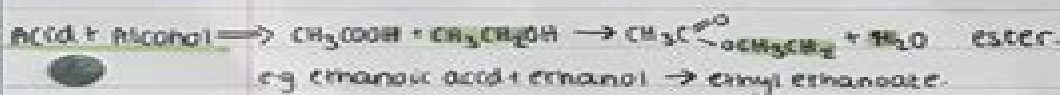
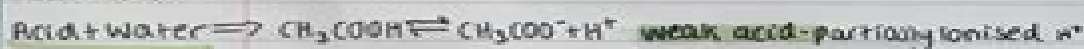


CARBOXYLIC ACIDS:

Functional group = $COOH^-$

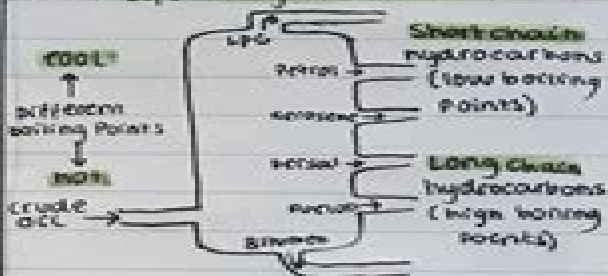
General formula = $C_nH_{2n+1}COOH$

REACTIONS:

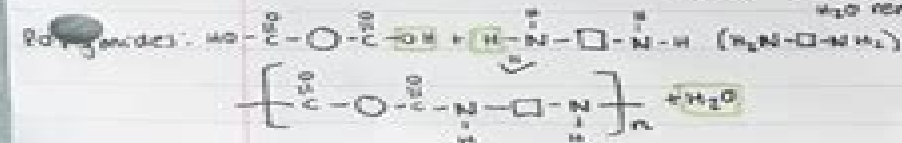
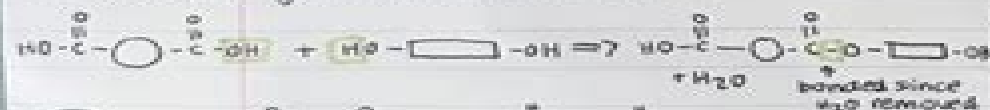
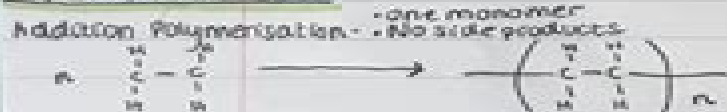


FRACTIONAL DISTILLATION:

used to separate hydrocarbon fractions.



POLYMERISATION:



CRACKING

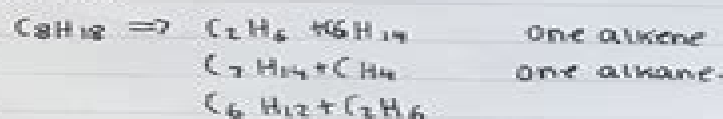
The breaking up the hydrocarbon chains which are too long from fractional distillation into shorter more useful hydrocarbons.

Two Types:

① Steam cracking: Vaporised hydrocarbon + steam

② Catalytic cracking: Vaporised hydrocarbon + catalyst

Example:



Study Guide For Forensic Science Chemistry Notes

Kanti Shukla



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Gale Researcher Guide for: Forensic Botany Jillian M. Warner, 2018-08-30 Gale Researcher Guide for Forensic Botany is selected from Gale's academic platform Gale Researcher. These study guides provide peer-reviewed articles that allow students early success in finding scholarly materials and to gain the confidence and vocabulary needed to pursue deeper research.

The Chemical News and Journal of Industrial Science, 1913 Forensic Chemistry Michael Grossman, 2026-01-29 Fundamentals of Forensic Chemistry strives to help scientists workplace health safety and other areas are included. And two issues of Canadian legal process are argued as essays in the final two chapters.

Chemical News and Journal of Industrial Science, 1909 *The Chemical News and Journal of Physical Science*, 1878 **Innovative Methods of Teaching and Learning Chemistry in Higher Education** Ingo Eilks, Bill Byers, 2009 A unique publication from the ECTN giving a comprehensive overview of innovations in university chemistry teaching from a broad European perspective.

Forensic Science Suzanne Bell, 2025-04-23 Forensic Science: An Introduction to Scientific and Investigative Techniques Sixth Edition covers a full range of fundamental topics essential to modern forensic casework and investigation. The new edition is fully updated to outline best practices including recent technology and techniques providing an engaging account of current advances in the field. Going beyond theory to application Forensic Science begins by discussing the intersection of law and forensic science: how things become evidence and how courts decide if an item or testimony is admissible. It presents the broadest array of forensic disciplines among available textbooks on the market: addressing forensic anthropology, death investigation including entomology, bloodstain pattern analysis, firearms tool marks and forensic analysis of questioned documents among others. Students follow evidence all the way from the crime scene into laboratory analysis and even onto the autopsy table. Updates to this edition include a new chapter on DNA analysis covering lineage markers and investigative genetic genealogy. Chapter 11 Advanced Topics in DNA Analysis Chapter 2 addresses statistics probability and frequency databases in interpreting forensic evidence. A section called Return to the Scene of the Crime describes scenarios that allows students to compare the physical evidence with the analyzed testing results. Advanced Topics sections present quantitative or advanced aspects of each chapter's subject matter. This material is geared toward students with a strong math and science background forensic science majors and honors students. Designed for a single term course at the undergraduate level the book's writing is straightforward and accessible explaining in depth concepts clearly and accurately.

Forensic Science: An Introduction to Scientific and Investigative Techniques Sixth Edition continues to serve as the essential go-to textbook for introduction to forensic science courses. Free Digital Learning Resources for instructors and students are available at routledgelearning.com/forensicscience including Flash cards for glossary terms Interactive matching drag and drop and Hot Spot mapping exercises. Numerous self-test questions and Recorded videos of practicing forensic scientists speaking to chapter topics in their given area of expertise.

Crime Laboratory Digest, 1996 **Forensic Science** Max M.

Houck,2007-03-30 From Poe s Dupin and Doyle s Holmes to the television hits Quincy and CSI the public s fascination with science employed to solve crimes continues and grows But this understanding of how science works in the forensic laboratory is filtered through the fictional worlds of books and television how is science really used to fight crime What techniques are used to catch criminals and free the innocent Forensic scientists work with police investigators medical personnel attorneys and others to uphold justice but their methods are often misunderstood overestimated underestimated revered or disputed Here the author answers many common questions about forensic science How is the science conducted and by whom What are the real limits and real benefits of forensic science What new techniques are emerging to catch 21st Century criminals Readers are treated to an insider s overview of the realities of forensic science Forensic Science Modern Methods of Solving Crime covers the basic concepts of forensic science and how it assists in criminal investigations Starting with a brief history of forensic science from its early days in Europe to the modern advances of today the book describes each method and presents cases that highlight the applications of the methods Houck profiles pioneers in forensic science offers an overview of such forensic topics as DNA fibers fingerprints and firearms takes readers through the collection and processing of evidence and uses frequent examples and anecdotes to illustrate all the major areas of forensic science This introduction to the field is a useful starting point for anyone wishing to learn more about the real world of forensic science

Forensic Chemistry and Toxicology Suzanne Bell,2022-11 Essential principles of forensic chemistry and toxicology for core crime scene evidence analysis concisely written by expert in the field Suzanne Bell PhD from Los Alamos National Laboratory then professor at Eastern Washington University and Chair of the National Commission on Forensic Science The wealth of answers in this 6 page laminated color coded outline format including equations graphs and diagrams cannot be missed for those studying in this field and well beyond school for a quick look up and refresher QuickStudy guides are proven to boost retention and test scores and as customers attest are handy throughout a career Also buy Dr Bell s Forensic Science guide to complete the pair and add these powerful and simple to use tools to your library for a price so low it s a crime 6 page laminate guide includes Measurement Science Metrology Uncertainty Fundamentals of Statistics Assuring Data Quality Calibration Control Charts Method Validation Sampling Measurement Uncertainty MU Key Chemical Concepts Equilibrium Constants Partitioning Ionizable Centers Acidic Basic Functional Groups Diagrams Range Table Instrumentation Chromatography Performance Metrics Mass Spectrometry Spectroscopy Seized Drug Analysis Drugs as Physical Evidence Controlled Substances Act CSA Drug Classification Analytical Methods Forensic Toxicology Pharmacokinetics ADME Kinetics of Elimination Blood Breath Alcohol Common Sample Types Lab Analysis Evidence Associated with Combustion Combustion Thermodynamics of Combustion Reactions Fire Debris Analysis Forensic Investigation of Fire Deaths Explosives Firearm Discharge Residue Methods of Analysis Serial Number Restoration Trace Evidence Trace Transfer Evidence Microscopy Analysis Types of Trace Evidence Characterizing Color **Forensic Linguistics** Kanti Shukla,2025-01-07 Forensic

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Gazette ,1880 *Fingerprints and Other Impressions* Mr. Rohit Manglik,2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Nature** Sir Norman Lockyer,1922 *The Medical Times and Gazette a Journal of Medical Science* ,2023-03-27 Reprint of the original first published in 1871 The publishing house Anatiposi publishes historical books as reprints Due to their age these books may have missing pages or inferior quality Our aim is to preserve these books and make them available to the public so that they do not get lost *Scientific Opinion* ,1870 *Books in Series, 1876-1949* R.R. Bowker Company,1982

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