

Topic 10.1: Organic chemistry – Fundamentals of organic chemistry

Organic chemistry focuses on the chemistry of compounds containing carbon.

• **Understanding:** A homologous series is a series of compounds of the same family, with the same general formula, which differ from each other by a common structural unit.

- **Homologous series:** series of compound of the same family, with the same general formula, which differ by a common structural unit
 - Common structure unit; often CH_2 (methylene) group
 - Same family; has the same functional group
 - Properties: homologous series has similar physical and chemical properties

• **Understanding:** Structural formulas can be represented in full and condensed format.

Example	Full structural formula	Condensed structural formula	Skeletal structural formula
		$\text{CH}_3\text{—CH}_2\text{—CH}_2\text{—CH}_3$ $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$	
Description	Two-dimensional representation showing all atoms, their relative positions and bonds	Two-dimensional representation showing all atoms and their relative position	Two dimensional representation of a compound where each vertex and end-of line represent a carbon atom, and functional group is added

• **Understanding:** Structural isomers are compounds with the same molecular formula but different arrangements of atoms.

- **Structure isomer:** compounds with same molecular formula with different arrangement of atoms
 - Properties: structure isomers have different chemical and physical properties (melting point, boiling point etc.)

• **Understanding:** Functional groups are the reactive parts of molecules.

- **Functional groups:** reactive parts of a molecule that is responsible for the molecule's chemical property
 - Naming: the position of the function group is identified by the number of carbon to which it is attached

• **Understanding:** Saturated compounds contain single bonds only and unsaturated compounds contain double or triple bonds.

- **Saturated compounds:** organic compounds in which all the carbon-carbon bonds are single (e.g. **alkane**)
- **Unsaturated compounds:** organic compound in which there is at least one carbon-carbon bond that is double or triple (e.g. **alkene**)

• **Understanding:** Benzene is an aromatic, unsaturated hydrocarbon.

- **Aliphatic:** characterized by a straight, branched or cyclic structure
- **Aromatic:** characterized by presence of benzene ring
- **Benzene:** aromatic, unsaturated hydrocarbon in which six carbons bonds into a ring
 - **Sigma (σ) bond in benzene:** benzene contains six sp^2 hybridized carbon atoms bond to one other by sigma bonds
 - **Pi (π) bond in benzene:** p-orbitals in carbon overlap to form a continuous π bond above and below the plane of carbons

• **Applications and skills:** Explanation of the trends in boiling points of members of a homologous series.

Name	Formula	Structural formula (condensed)	Boiling point ($^{\circ}\text{C}$)
Methane	CH_4	CH_4	-161
Ethane	C_2H_6	CH_3CH_3	-89
Propane	C_3H_8	$\text{CH}_3\text{CH}_2\text{CH}_3$	-42
Butane	C_4H_{10}	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$	-0.5
Pentane	C_5H_{12}	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$	36
Hexane	C_6H_{14}	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$	69

- **Trend in boiling points:** boiling points increases as the carbon chain increases by a common structural unit
 - Trends arise from increasing intermolecular (dispersion forces) with increased chain lengths

• **Applications and skills:** Distinction between empirical, molecular and structural formulas.

- **Empirical formula:** simplest ratio of atoms (of an element) in a molecule
- **Molecular formula:** actual number of atoms (of each element) in a molecule
- **Structural formula:** representation of the type of atom and their position relative to one other

Ib Chemistry Hl Paper 2012

**Yihong Qiu, Yisheng Chen, Geoff G.Z.
Zhang, Lawrence Yu, Rao V. Mantri**

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expenditures to clean up equipment and return capacity to positive levels This text addresses this common challenge for the hydrocarbon processing community within each unit of the refinery As refineries today face a greater challenge of accepting harder to process heavier crudes and the ongoing flow of the lighter shale oil feedstocks resulting in bigger challenges to balance product stability within their process equipment this text seeks to inform all relative refinery personnel on how to monitor fouling characterize the deposits and follow all available treatments With basic modeling and chemistry of fouling and each unit covered users will learn how to operate at maximum production rates and elongate the efficiency of their refinery s capacity Presents an understanding of the breakdown of fouling per refinery unit including distillation and coking units Provides all the factors crude types and refining blends that cause fouling especially the unconventional feedstocks and high acid crudes used today Helps users develop an analysis based treatment and control strategy that empowers them to operate refinery equipment at a level that prevents fouling from occurring

Developing Solid Oral Dosage Forms

Yihong Qiu,Yisheng Chen,Geoff G.Z. Zhang,Lawrence Yu,Rao V. Mantri,2016-11-08 Developing Solid Oral Dosage Forms Pharmaceutical Theory and Practice Second Edition illustrates how to develop high quality safe and effective pharmaceutical products by discussing the latest techniques tools and scientific advances in preformulation investigation formulation process design characterization scale up and production operations This book covers the essential principles of physical pharmacy biopharmaceutics and industrial pharmacy and their application to the research and development process of oral dosage forms Chapters have been added combined deleted and completely revised as necessary to produce a comprehensive well organized valuable reference for industry professionals and academics engaged in all aspects of the development process New and important topics include spray drying amorphous solid dispersion using hot melt extrusion modeling and simulation bioequivalence of complex modified released dosage forms biowaivers and much more Written and edited by an international team of leading experts with experience and knowledge across industry academia and regulatory settings Includes new chapters covering the pharmaceutical applications of surface phenomenon predictive biopharmaceutics and pharmacokinetics the development of formulations for drug discovery support and much more Presents new case studies throughout and a section completely devoted to regulatory aspects including global product regulation and international perspectives

Oil and Gas Corrosion Prevention James G. Speight,2014-03-13 According to NACE National Association of Corrosion Engineers the total annual cost of corrosion in petroleum refining takes up 3 7 billion in the US alone Corrosion control is always a challenge for the downstream industry but as the quality of feedstock is declining due to refineries accepting more of the heavy and shale gas and oil resources that are more readily available today refinery managers petroleum and natural gas engineers are unprepared for the new set of corrosion problems that are showing up in their equipment and processing units Oil and Gas Corrosion Prevention From Surface Facilities to Refineries quickly gets the engineer and manager up to speed on the latest types of corrosion common for these lower grade crude oils and gases as

well as the best prevention methods for all of the major sections of the refinery especially desalting and sulfur recovery units which are the most common problem areas for unconventional feedstocks Also covering the unique midstream sections or point of entry to the refinery as well as the major critical refinery equipment Oil and Gas Corrosion Prevention From Surface Facilities to Refineries offers the perfect quick cross reference for the oil and gas community Gets engineers and managers up to speed on the latest types of corrosion common for lower grade crude oils and gases Provides the best prevention methods for all of the major sections of the refinery especially desalting and sulfur recovery units Covers additional topics such as unique midstream sections or point of entry to the refinery as well as major critical refinery equipment **Abstract**

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LaQue's Handbook of Marine Corrosion David A.

Shifler,2022-07-13 The new edition of LaQue s classic text on marine corrosion providing fully updated control engineering practices and applications Extensively updated throughout the second edition of La Que s Handbook of Marine Corrosion remains the standard single source reference on the unique nature of seawater as a corrosive environment Designed to help readers reduce operational and life cycle costs for materials in marine environments this authoritative resource provides clear guidance on design materials selection and implementation of corrosion control engineering practices for materials in atmospheric immersion or wetted marine environments Completely rewritten for the 21st century this new edition reflects current environmental regulations best practices materials and processes with special emphasis placed on the engineering behavior and practical applications of materials Divided into three parts the book first explains the fundamentals of corrosion in marine environments including atmospheric corrosion erosion microbiological corrosion fatigue environmental cracking and cathodic delamination The second part discusses corrosion control methods and materials selection that can mitigate or eliminate corrosion in different marine environments The third section provides the reader with specific applications of corrosion engineering to structures systems or components that exist in marine environments This much needed new edition Presents a comprehensive and up to date account of the science and engineering aspects of marine corrosion Focuses on engineering aspects descriptive behavior and practical applications of materials usage in marine environments Addresses the various materials used in marine environments including metals polymers alloys coatings and composites Incorporates current regulations standards and recommended practices of numerous organizations such as ASTM International the US Navy the American Bureau of Shipping the International Organization for Standardization and the International Maritime Organization Written in a clear and understandable style La Que s Handbook of Marine Corrosion Second Edition is an indispensable resource for engineers and materials scientists in disciplines spanning the naval maritime commercial shipping industries particularly corrosion engineers ship designers naval architects marine engineers oceanographers and other professionals involved with products that operate in marine environments **Reservoir Formation Damage** Faruk Civan,2023-04-07 Reservoir Formation Damage Fundamentals Modeling Assessment and Mitigation Fourth Edition gives

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Physical Metallurgy David E. Laughlin, Kazuhiro Hono, 2014-07-24 This fifth edition of the highly regarded family of titles that first published in 1965 is now a three volume set and over 3 000 pages All chapters have been revised and expanded either by the fourth edition authors alone or jointly with new co authors Chapters have been added on the physical metallurgy of light alloys the physical metallurgy of titanium alloys atom probe field ion microscopy computational metallurgy and orientational imaging microscopy The books incorporate the latest experimental research results and theoretical insights Several thousand citations to the research and review literature are included Exhaustively synthesizes the pertinent contemporary developments within physical metallurgy so scientists have authoritative information at their fingertips Replaces existing articles and monographs with a single complete solution Enables metallurgists to predict changes and create novel alloys and processes

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