

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 structural unit: often CH_2 , methyl group
 - Same family: has the same functional group
 - Proprietary: homologous series has similar physical and chemical properties

– **Understanding:** Structural formulas can be represented in full and condensed forms.

Example:	Full structural formula	Condensed structural formula	Structural formula
	$ \begin{array}{c} \text{H} \quad \text{H} \quad \text{H} \quad \text{H} \\ \quad \quad \quad \quad \quad \quad \\ \text{H} - \text{C} - \text{C} - \text{C} - \text{C} - \text{H} \\ \quad \quad \quad \quad \quad \quad \\ \text{H} \quad \text{H} \quad \text{H} \quad \text{H} \end{array} $	$ \begin{array}{c} \text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH}_3 \\ \\ \text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3 \end{array} $	
Description:	Three-dimensional representation showing all atoms, their relative positions and bonds.	Two-dimensional representation showing all atoms and their relative positions.	Three-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.

- **Structural isomers:** 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 group:** reactive parts of a molecule that is responsible for the molecule's chemical property
 - Meaning: the position of the functional group is identified by the number of carbon to which it is attached

– **Understanding:** Unsaturated compounds contains single bonds only and unsaturated compounds contains double or triple bonds.

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

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

- **Aromatic:** characterized by a straight, branched or cyclic structure
- **Benzene (C₆H₆):** characterized by presence of benzene ring
- **Structure:** aromatic, unsaturated hydrocarbon in which six carbon bonds form a ring
 - Six C_2H_2 (ethyl) groups are joined together to form a benzene ring.
 - Six C_2H_2 (ethyl) groups are joined together to form a benzene ring.
 - It is formed in benzene; p-orbitals in carbon overlap to form a delocalized π bond above and below the plane of carbons.

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

Name	Formula	Structural formula (condensed)	Boiling point (°C)
Methane	CH_4	CH_4	-161
Ethane	C_2H_6	CH_3CH_3	-88
Propane	C_3H_8	$\text{CH}_3\text{CH}_2\text{CH}_3$	-49
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 ionic strengths

– **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 atoms and their positions relative to one other

Ib Chemistry H1 Level Paper 23

Chao Zhang

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Learning and Understanding National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general. It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education. By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers, parents, curriculum developers, administrators, college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs **Introducing the IB Diploma**

Programme Marc Abrioux, Jill Rutherford, 2013-02-14 Schools wishing to introduce the IB diploma programme are faced with major investment in terms of time, effort and money in order to become authorised. This manual is a resource for schools already offering the diploma as well as for prospective diploma schools *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards, 1974 *Synthesis of Pesticides Chemical Structure and Biological Activity Natural Products with Biological Activity* H. Geissbühler, G. T. Brooks, P. C. Kearney, 2013-10-22 Advances in Pesticide Science Part 2 Synthesis of Pesticides Chemical Structure and Biological Activity Natural Products with Biological Activity is a collection of papers presented at the Fourth International Congress of Pesticide Chemistry held in Zurich, Switzerland, on July 24-28, 1978. This book is composed of forty-eight chapters and begins with the synthesis of pesticides. The succeeding chapters deal with heterocyclic synthesis by rearrangement, synthesis and transformations of nitrogen and sulphur-containing bicyclic heterocyclic systems. These topics are followed by discussions on synthesis of bmc analogous n-heterocycles from 1, 2, 1, 3, 1, 4 and 1, 5-diamines. Other chapters describe the synthesis and herbicidal activity of 4-acylpyrazole derivatives, the synthesis and properties of plant growth regulators, the carboxyphenyl derivatives of five and six-membered heterocycles, and potential phosphorus-containing intermediates for the synthesis of pesticides. The final chapters consider the influence of antagonistic fungi on the spore formation of rust fungi. This book will prove useful to agriculturists and organic chemists.

Section 5. Chemistry in relation to agriculture and applied botany. Section 6. Chemistry in relation to applied zoology and veterinary science. Section 7. Chemistry in relation to food and nutrition, 1950 *Proceedings of the XIth International Congress of Pure and Applied Chemistry*, 1947 *Nuclear Science Abstracts*, 1961 *Popular Photography*, 1995-01 *Cumulated Index Medicus*, 1966 *Bibliographies and Literature of Agriculture*, 1978 Journal of the American Society of Mechanical Engineers American Society of Mechanical Engineers, 1918 **Canadian**

Chemical Processing, 1972 American Journal of Physics, 1984 Archival journal targeted toward advanced level physics and physics education with its focus on the teaching and cultural aspects of physics **Sea-level Fluctuation and Coastal Evolution** William Armstrong Price, 1987 **Actes**, 1972 **Science**, 1959 Scientific American, 1897 Proceedings of the Sixth International Congress on Catalysis, Imperial College, London, 12-16 July, 1976 Geoffrey Colin Bond, Peter B. Wells, Frederick Clifford Tompkins, 1977 **The Cumulative Book Index**, 1965 A world list of books in the English language *Pollution* Royal Society of Chemistry (Great Britain), 1990 Much has happened in the pollution field since 1982 when the first edition of this work was written This edition includes new subject areas such as radioactive pollution and chemistry and pollution of the stratosphere

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