CHAPTER > 12

Organic Chemistry : Some Basic Principles and Techniques

KEY NOTES

- Carbon forms covalent bonds with other carbon atoms.
 It also forms covalent bonds with other elements like H. O.
 N. S. P and X. The resulting compounds are studied under separate branch of chemistry called organic chemistry.
- Organic chemistry deals with study of hydrocarbons and their derivatives.
- Catenation is responsible for large number of carbon compounds.

Bonding in Organic Compounds

- Tetravalency of carbon It can be explained in terms of its electronic configuration and the hybridisation of s and p-orbitals. Hybridisation influences both length and enthalpy in bonds.
- Characteristic feature of R-bond In R-bond formation, parallel orientation of two p-orbitals on adjacent atoms is necessary for a proper sideways overlap. The electron charge cloud of the R-bond is located above and below the plane of bonding atoms.

Structural Representation of Organic Compounds

These are represented in several ways. Some are as follows:

 Dash structure The two electron covalent bond is represented by a dash (-). Lone pair of electrons on hetero atoms may or may not be shown.

 Condensed structure The formula is written by omitting some or all of the dashes representing covalent bonds and by representing the number of identical groups attached to an atom by a subscript.

 Bond line structure Carbon and hydrogen are not shown and the lines representing C—C bonds are drawn in a zig-pag fashion.

Three Dimensional Representation of Organic Molecule

It can be represented on paper by using solid (→) and dashed (→n) wedge formula.

In these formulas, the solid wedge is used to indicate a bond projecting out of the plane of paper, towards observer. The dashed wedge is used to depict the bond projecting away from the observer.

Basic Principles Of Organic Chemistry

J.D. Roberts

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kinetics mechanism itself and stereochemistry In Part II these principles and concepts are applied to the formation of particular types of bonds groupings and compounds The final chapter in Part II describes the planning and detailed execution of the multi step syntheses of several complex naturally occurring compounds **Worked Solutions in Organic Chemistry** James M. Coxon, 2018-10-08 This book illustrates and teaches the finer details of the tactics and strategies employed in the synthesis of organic molecules As well as providing model answers to the problems the book discusses in detail the reasons why particular strategies are chosen and why in given circumstances alternative methods or routes may or may not be appropriate As such it could be used as a stand alone volume for the teaching of organic chemistry with a modern and appropriate emphasis on synthesis Extensive cross referencing to Principles of Organic Synthesis allows the two books to be used as companion volumes Organic Chemistry I For Dummies Arthur Winter, 2016-05-13 Organic Chemistry I For Dummies 2nd Edition 9781119293378 was previously published as Organic Chemistry I For Dummies 2nd Edition 9781118828076 While this version features a new Dummies cover and design the content is the same as the prior release and should not be considered a new or updated product The easy way to take the confusion out of organic chemistry Organic chemistry has a long standing reputation as a difficult course Organic Chemistry I For Dummies takes a simple approach to the topic allowing you to grasp concepts at your own pace This fun easy to understand guide explains the basic principles of organic chemistry in simple terms providing insight into the language of organic chemists the major classes of compounds and top trouble spots You ll also get the nuts and bolts of tackling organic chemistry problems from knowing where to start to spotting sneaky tricks that professors like to incorporate Refreshed example equations New explanations and practical examples that reflect today s teaching methods Fully worked out organic chemistry problems Baffled by benzines Confused by carboxylic acids Here s the help you need in plain English **Basic Principles for Introductory Organic Chemistry** Imre Gyula Csizmadia, 1997

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