Topic 19.1: Organic chemistry - Fundamentals of organic chemistry

Organic chemistry focuses on the chemistry of compounds containing curbon.

- Understanding: A boundagens wries is a series of compounds of the same family, with the same general formula, which differ from each other by a common structural unit.
 - . Humalization series of compound of the same family, with the same general formula, which differ by a common structural unit
 - Common structure unit: often CH, (mothylenet) group.
 - Some family: has the same functional group
 - Proportion: homologous series has similar physical and chemical properties.
- Under trading. Structural formulas can be represented in full and condensed format.

	Full structural formula	Condensed structural formula	Skeletal structural forestella
Enample	H H H H	CH ₃ -CH ₂ -CH ₂ -CH ₃	
	H-C-C-C-C-H	CH ₃ CH ₂ CH ₂ CH ₃	
Description	Two-dimensional representation showing all atoms, their relative positions and bonds	Two-distantional representations observing all atoms and their relative position.	Two dimensional representation of a compound where each vertex and and of line represent a carbon atom, and functional group is added

- . Under trading: Structural isomers are compounds with the same molecular formula but different arrangements of atoms.
 - Torontory compressed with some molecular formula with different arrangement of atoms.
 - Proportion: structure isomers have different chemical and physical proportion (melting point, boiling point etc.)
- · Understanding: Functional groups are the reactive parts of molecules.
 - . Furthern reactive parts of a molecule that is responsible for the molecule's chemical property
 - Numing the position of the function group is identified by the number of curbon to which it is attached.
- Understanding: Saturated compounds contain single bonds only and uncatarated compounds contain double or triple bonds.
 - Total and a compression organic corresponds to which all the carbon-carbon bonds are single to a silvane.
 - Unsufficiently compound to expose the state of the state
- . Under a smiling: Benzene is an aromatic, supporturated by droc arbon.
 - Allightetic characterized by a straight, branched or cyclic structure.
 - Introduction of the presence of the stone ring.
 - Illuminatio, sensetened hydrocarbon in which six carbons bonds into a ring.
 - Signus (vi) bond in bonome: between contains six up² hybridized curbon atoms bond to one other by signus bonds.
 - P) (c) bond in bosoner: p sobitals in authors evenlap to firm a continuous a 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	Freezonika	Seructural formula (condensed)	Blosling point (*C)
Milesthautur	CH	CH	-164
Eshanne	I CH.	OLOH:	-89
Programer	C.H.	CILCIECIL	-42
Effective	CH	CHCHCHCH	-0.5
Prostaced	Catte	CHCHCHCHCH	34
Hieranne	Catta	CHORCHCHCHCH	69

- Tiend in hocking points; boiling points increases as the carbon chain increases by a common structural unit.
 - Tends arise from increasing intermelecular (dispersion forces) with increased chain lengths
- Applications and shifts: Distinction between empirical, molecular and structural formulas.
 - Empirical translat simplest ratio of atoms tof an element i in a molecule.
 - Military for formalist actual number of atoms (of each element) in a molecule.
 - . Use and to the representation of the type of atom and their position relative to one other

Y Pai

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