Types of Organic Compounds

Organic chemistry is the study of natural and synthetic musticitade that have earliest ptoms as the key observed feature. There are more than one million known organic compounds.

HYDROCARBON

- ALKANE
- Edhames C.St. - Mostleyl (Marie -CH).
- Edward (Edge -C.H.)

ALKENER

- Eddermen C. H. - Diemet Two Cr-C:
- Triener These C+C.

ALKYNE

- Kithgmen C.H.



A SHOWN A THE

- Bentenet C.H. · Arenet C.H. (Ar-)
- O- ADDED
- ALCOHOL. - Marthamol: Ma-CHI
- (meethy)) allowholis Phonods Ac-CHI
- Dieb/Glycob: (2 -000)
- Gilysoweks (3 -000)

ETHICS

B-Ö-B Ethorsethaner E1-O-E1 (diselled ether)

EIPOCOCOC.

- Obsirance C.JH.O tethylione oxidets
- PERCOCIDIE
- R-0-0-R Acetone Perexides C.H.,O.

R-OH

Benzuel Perusider C., H., O.

>C =O ADDED ALDEHYDE

- Medianoli H CCr. / Sincernal dedication (a)
- Benzaldeloule: Ar-CHO

KETONE -

- 2-perspansones Ma-CO-Ma (disnetby) betone, acetone).
 - Difference R-CCI-R's-CCI-R'

>COO ADDED CARROXYLIC ACID

- Ethanoic Arid: Ma-COOHL (mostly neid)
- Acetate Ions Mc-COO'
- Benzuic Acids As-COORE

Dicarboxyllic Acid. HODG-R-COOH

EXTEN

- Elfligh Acetates May City College
- Other derivations:
- Perecyacido R-CO-OOHI
- Acid Authoritide: RCO-O-CO-R'.

NITROGEN B-N-B ADDED ALMOHOUS.

- Methyl Aminer H.C-NIII.
- Phony huminer Ar-NIII, (antilized)
- RONH, (I'D, RRINH (2'D, RETRINGED

R-NO. NITTEO

R-MEN DHAKEON.

R-CHN MITTARLE

Methane Nitrile: Me-CN.

AMIDIE

Accelamables Marco-Sill.

B-XI

SULFUR ADDED

- Thirds R-SHI.
- Thioethers R.S.R.
- Disselfide: R-S-S-R*
- Third Enter: R-CO-SR'
- Southflowledge: \$5.500 kg/d/ Souliformer: R.-SOD --RC
- Sulfanic Acids R-SO H.

HALOGEN ADDED

- III allowally agents
- Me-Cli chloromethane
- Blababengenes Ar-X
- Chlorobenzenet Ar-Cl.
- Agyl Hadiides R-CO-X
- Aryl Hallide: Ar-X.

- Formulas & Isomers
- · Molecular Formula: Elemental symbols with subscripts denote the composition of a compound
 - · Empirical Formula: Subscripts denote the relative elemental composition.
 - Graphical depiction
 - Davis Formula: Diagram all atoms; show
 - Bond-Line Formula: Hide H; carbon atoms are depicted as lines, but other atoms are shown emplicitly.



- Newman Projection: 2-d depiction
- A dimensional: Wedges of sawhorse denote structure

SUBDIVISIONS OF ISOMERS

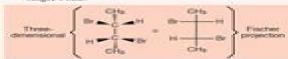


- · Constitutional Isomers: Different bonding connectivity (e.g., rings, bonds, branching, substituent (Administration)
- Tautomers: Easily interconverted structural isomers. (e.g., keto-ened for ketone).
- · Chirale Not identical with its mirror image
- Achieut: Has a plane of symmetry (i.e.,
- superimposable on its mirror image). · Epimerse Pair of diastercomers which differ only in the configuration of one atom
- . More than I chiral center
- is oldinal contains, 5.2° stangelsomers.
- Mesoc 2 chiral centers, 4 isomers: 3 sterpoisomers, I achiral (mirror-plane)

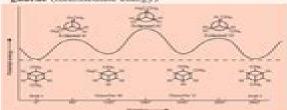


- · R/S Notation: The 4 different atoms or groups attached to a central atom are ranked (a), (b), (c), and (d), by moint mass. The lowest (d) is directed away from the viewer and the sequence of a-b-c produces clockwise (R) or counter-clockwise (S) configuration
 - Chiral (Optically Active): + or the rotation of plane polarized light. R/S: apposite effects.

- Racemile: 50/50 mixture of stereoisomers (no net continual activities's
- Namewelstone: Note R/S and +/- in the compound name (e.g., R (+) bromochloromethanol)
- Fisher-Projection: Diagram depicts chiral/3-D
- Moloculur Conformations: Molocule exhibits structural variation due to free rotation about C-C single bond.



· Newman-Diagrams: Depict rotation about a C-C bond; orlipsed (high energy), anti (low energy), and gasselve (intermediate energy):



Common Terms

Allehantle: Non-acomatic Aromatic: Benzene ring

Conjugation: Soprence of alternating double (or triple) and single bonds Dielectric Effect: Polar solvent stabilizes

ion formation Exergenic Repetion: Chemical reaction that loses energy during the process of the reaction

Heterocyclic: Non-carbon atom in the ming structure Hydrocarbon: Compound of H and C

Ketoser Molecule made up of monovaccharide bonded to a ketone

Monosaecharide: Carbohydrate that amendacy signature souther

Paracities: Allegan

cannot be reduced by hydrolysis into OtherSine A. Sorme

Redisinstope: Isotope that is tudioactive.

Saturated: Maximum # of Hs (all C-C) simple bounds to Tetrose: Monosaccharide with four

quartison attorns. Einsatturatiods At least one C-C multiple bond. Zymmergy: The study of the process of Representations.

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Judd E. Hollander

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