Types of Organic Compounds

Organic chemistry is the study of natural and synthetic materials that have earlies atoms as the key chemical fasture. There are more than one million known organic compounds.

HYDROCARBON

- ALKANE CHL C
- Methyl (Meje -CB)
 Ethel (Ets. -C.H.

ALKENE

- Ethene: C.H. - Diene: Two C-C
- Tirtienes These C+C

ALKYNE

- Ethymes C.H.



AROMATIC

- Benzenet C.H.
 Arenet C.H. (Ar-)
- -O- ADDED
- ALCOHOL Mc-Ott
- (methyl alcohol)
- Phenol: Ar-OH
 Diol/Glycol: (2 -OH)
- Citycowell: (5 -000)

STHER

Ethogethaue: R-Ö-R
 Et-O-Et (diefted ethor)

EPOXY.

- Outrames
 C.H.O (ethylene oxide)
- A July of County and an inches
- PEROXIDE R-O-O-R

 Accione Peroxides C.H. O.

Benauyt Perusider C., H., O.

>C =O ADDED

R-OH

- Methanali H.CO
 (formuldelrede)
- Benzahlehyde: Ar-CHO

KETONE A

- 2-prepanone: Mo-CO-Mo (dimethyl ketone, acetone)
 - Dilloriousy R-CO-R'-CO-R'

CASSONYUS ASID

- Ethanoic Acid: Me-COOH
 (acetic acid)
- Acetate loss Mc-COO:
- Benzeic Acids Ac-COCHE

Dicarteoglic Acid HOOC-R-COOH

ESTER

- Ethyl Acetate:
 Me-CO-OEth
- Other derivatives:
- Perexyacid: R-CO-OOH
 Acid Anhodride: RCO-O-COR*
- NITROGEN R-N-R

ADDED AMINE

- · Methyl Amine: H₁C-NH₂
- Phonylamine: Ar-Nill, (aniline)
- * R-NH, (F), RR'NH (2'), RR'R'N (F)

NITRO R-NO.

DIAZO R-NEN

MITRILE R-CEN

Methane Nitrile: Me-CN

AMIDE

Acetamides Ma-CO-Sill.

- Kg-

B-XI

SULFUR ADDED

- Thirds R-SHI
- Thioethers R-S-R"
- Disselfisher R-S-S-R*
- Third Enter: R-CO-SR*
- Sufficielle R-SO-R1
- Sudfomer R-SO₂-R^{*}
- Sulfanic Acids R-SO H

HALOGEN ADDED

- Blaboolkaner:
- Me-Cl chloromethane Balobenzene: Ar-X
- Elimination of the Control of the Co
- Chlorobouzone: Ar-Cl
- Acyli Hallides R-CO-X
- Aryl Hallide: Ac-X.

Formulas & Isomers

- Molecular Formula: Elemental symbols with subscripts denote the composition of a compound
 - Empirical Formula: Subscripts denote the relative elemental composition
 - · Comphism depiction
 - Dark Formula: Diagram all atoms; show bonds as dashes.
 - Bond Line Formula: Hide H; carbon atoms nor depicted as lines, but other atoms are shown explicitly



- Newman Projection: 2-d depiction
- 3-dimensionals Wedges of sawhorse denote structure

SUBDIVISIONS OF ISOMERS

Consultational location Blame controlled to differ address face a game controlled to differ address face a game controlled to differ address face ad

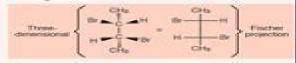
- Constitutional Isomers: Different bonding connectivity (e.g., rings, bonds, branching, substituent positions)
- Tautomers: Easily interconverted structural isomers (e.g., keto-enel for ketone)
- · Chirale Not identical with its mirror image
- Arbiral: Has a plane of symmetry (i.e., superimposable on its mirror image)
- Epimero Pair of diastercomers which differ only in the configuration of one atom
- . More than I chiral center
 - n chiral centers, ≤ 2º stereoisomers.
- Meso: 2 chiral centers, 4 isomers: 3 stereoisomers, 1 achiral (mirror-plane)



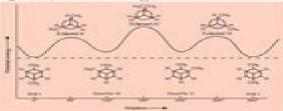
- B/S Notations: The 4 different atoms or groups attached to a central atom are ranked (a), (b), (c), and (d), by moiar mass. The lowest (d) is directed away from the viewer and the sequence of a-b-c produces clockwise (R) or counter-clockwise (S) configuration.
 - Chiral (Optically Active): + or the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

- Racemile: S0/50 mixture of stereoisomers (no net optical activity)
 Nemore latere: Note R/S and +/- in the compound
- mame (e.g., R (+) bromochloromethanol) Fisher-Projection: Diagram depicts chiral/3-D
- Fisher-Projection: Diagram depicts chiral/3-D stracture

 Noticether Conferentiators Midworks exhibits
- Niolocular Conformations: Molecule exhibits structural variation due to free rotation about C-C single bond.



 Newman-Diagram: Depict rotation about a C-C bond; orlipsed (high energy), and (low energy), and gamelie (intermediate energy)



Common Terms

Allghattle: Non-aromatic Aromatic: Bennene ring

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

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

Heterocyclic: Non-carbon atom in the ring structure

Hydrocarbon: Compound of H and C Ketose: Molecule made up of monosaccharide bonded to a ketone Monosaccharide: Carbobydrate that cannot be reduced by hydrolysis into another simple sugar

Oleffin: Allorer Paraffin: Allorer

Radioisotope: Isotope that is radioactive

Saturated: Meximum # of Hs (all C-C single bonds)

Tetrose: Monosaccharide with four carbon atoms

Dissaturated: At least one C-C multiple bond Zymmergy: The study of the process of formentation

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