

Quick Study ACADEMIC

ORGANIC CHEMISTRY FUNDAMENTALS

Types of Organic Compounds

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

HYDROCARBON

- ALKANE** $\begin{matrix} C-H \\ | \\ C-H \end{matrix}$
- Ethane: C_2H_6
 - Methyl: CH_3 (-CH₃)
 - Ethyl: (C_2H_5) (-C₂H₅)

ALKENE

- Ethene: C_2H_4
- Diene: Two C=C
- Triene: Three C=C

ALKYNE

- Ethyne: C_2H_2

AROMATIC

- Benzene: C_6H_6
- Arene: C_6H_5 (Ar-)

-O- ADDED

ALCOHOL

- Methanol: $Me-OH$ (methyl alcohol)
- Ethanol: $Et-OH$
- Diol/Glycol: (2 -OH)
- Glycerol: (3 -OH)

ETHER

- Ether: $R-O-R$
- Di-*n*-*n* (diethyl ether)

EPOXY

- Oxirane: C_2H_4O (epoxide)

PEROXIDE

- Acetone Peroxide: $C_4H_8O_4$

Benzoyl Peroxide: $C_{14}H_{18}O_4$

>C=O ADDED

ALDEHYDE

- Methanal: H_2CO (formaldehyde)
- Benzaldehyde: $Ar-CHO$

KETONE

- 2-propanone: $Me-CO-Me$ (methyl ketone, acetone)
- Diester: $R-CO-R'-CO-R''$

>COO ADDED

CARBOXYLIC ACID

- Ethanoic Acid: $Me-COOH$ (acetic acid)
- Acetate Ion: $Me-COO^-$
- Benzoic Acid: $Ar-COOH$

Dicarboxylic Acid

- $HOOC-R-COOH$

ESTER

- Ethyl Acetate: $Me-CO-OEt$
- Other derivatives:
 - Phenylacetate: $Ar-CO-OH$
 - Acid Anhydride: $RCO-O-CO-R'$

NITROGEN ADDED

AMINE

- Methyl Amine: H_3C-NH_2
- Phenylamine: $Ar-NH_2$ (aniline)
- $R-NH_2$ (1°), $RR'-NH$ (2°), $RR'R''-N$ (3°)

NITRO

- $R-NO_2$

DIAZO

- $R-N=N$

NITRILE

- $R-C\equiv N$

Methane Nitride: $Me-CN$

AMIDE

- Acetamide: $Me-CO-NH_2$

SULFUR ADDED

- Thiol: $R-SH$
- Thioether: $R-S-R'$
- Disulfide: $R-S-S-R'$
- Thio Ester: $R-CO-SR'$
- Sulfide: $R-SO-R'$
- Sulfone: $R-SO_2-R'$
- Sulfonic Acid: $R-SO_3H$

HALOGEN ADDED

- Haloalkane: $R-X$
- Me-Cl chloromethane
- Haloaromatic: $Ar-X$
- Chlorobenzene: $Ar-Cl$
- Acyl Halide: $R-CO-X$
- Acyl Halide: $Ar-X$

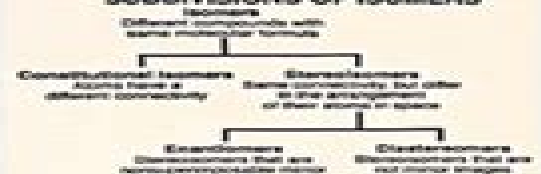
Formulas & Isomers

- Molecular Formula:** Elemental symbols with subscripts denote the composition of a compound
- Empirical Formula:** Subscripts denote the relative elemental composition
- Graphical depiction**
 - Dash Formula:** Diagram all atoms; show bonds as dashes
 - Bond-Line Formula:** Hide H; carbon atoms are depicted as lines, but other atoms are shown explicitly

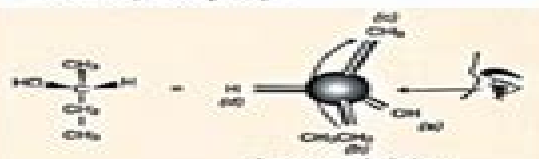


- Newman Projection:** 3-d depiction
- 3-dimensional:** Wedges of new bond denote structure

SUBDIVISIONS OF ISOMERS



- Constitutional isomers:** Differ in bonding connectivity (e.g., rings, bonds, branching, substituent positions)
- Tautomers:** Easily interconverted structural isomers (e.g., keto-enol for ketones)
- Chiral:** Not identical with its mirror image
- Achiral:** Has a plane of symmetry (i.e., superimposable on its mirror image)
- Epimers:** Pair of diastereomers which differ only in the configuration of one atom
- More than 1 chiral center
 - n chiral centers, $\leq 2^n$ stereoisomers
 - Meso: 2 chiral centers, 4 isomers: 3 stereoisomers, 1 achiral (mirror-plane)

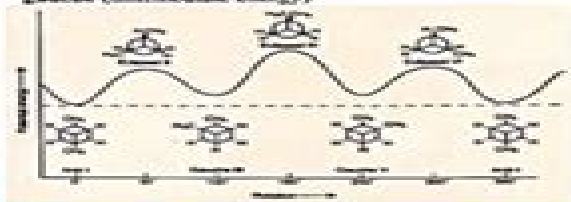


- R/S Notation:** The 4 different atoms or groups attached to a central atom are ranked (a), (b), (c), and (d), by atomic mass. The lowest (d) is directed away from the viewer and the sequence of a-b-c produces clockwise (R) or counter-clockwise (S) configuration
 - Chiral (Optically Active):** + or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

- Racemic:** 50/50 mixture of stereoisomers (no net optical activity)
- Meso:** Note R/S and +/- in the compound name (e.g., R (-)- bromochloromethanol)
- Fischer-Projection:** Diagram depicts chiral 3-D structure
 - Molecular Conformations:** Molecule exhibits structural variation due to free rotation about C-C single bond



- Newman Diagram:** Depict rotation about a C-C bond; eclipsed (high energy), anti (low energy), and gauche (intermediate energy)



Common Terms

- Aliphatic:** Non-aromatic
- Aromatic:** Benzene ring
- Conjugation:** Sequence of alternating double (conjugate) and single bonds
- Diels-Alder Reaction:** Reaction between a diene and a dienophile
- European Reaction:** Chemical reaction that loses energy during the process of the reaction
- Heterocyclic:** Non-carbon atom in the ring structure
- Hydrocarbons:** Compounds of H and C
- Ketone:** Molecule made up of a monosaccharide bonded to a ketone
- Mono-saccharide:** Carbohydrate that cannot be reduced by hydrolysis into another simple sugar
- Glycol:** Alkene
- Paraffin:** Alkane
- Radioisotope:** Isotope that is radioactive
- Saturated:** Maximum # of Hs (all C-C single bonds)
- Tetrasaccharide:** Monosaccharide with four carbon atoms
- Unsaturated:** At least one C-C multiple bond
- Zymology:** The study of the process of fermentation

Answers To Fundamentals Of Organic Chemistry

Susan McMurry



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