

# MODULE 1: ORGANIC CHEMISTRY

## Organic Chemistry

- Organic compounds
- Contains carbon
  - Except  $\text{CO}_2$ ,  $\text{CO}_3^{2-}$
- Classify according to functional group
  - Family/class
    - Similar structure and reactivity
    - Ex.  $\text{CH}_3\text{OH}$ (methanol),  $\text{CH}_3\text{CH}_2\text{OH}$ (ethanol)
    - "-ol" – hydroxyl functional group

## Hydrocarbons (C & H)

C-C	ALKANES	C=O	CARBONYL GROUP
C=C	ALKENES	RCOH	ALDEHYDES (CHO – Formyl)
C≡C	ALKYNES	RCOOH	CARBOXYLIC ACIDS (COOH – Carboxyl)
	AROMATIC COMPOUNDS / ARENES	CARBOXYLIC DERIVATIVES	
RX	ALKYL HALIDES	RCOOR	ESTERS
RNH <sub>2</sub>	AMINES	RCONH <sub>2</sub>	AMIDES
ROR	ETHERS	CONH <sub>2</sub>	CARBAMOYL
RSR	THIOETHERS (super analog of ethers)	RCOOCOR	ANHYDRIDES
ROH	ALCOHOLS	RCOX	ACYL HALIDE
RSH	THIOLS (sulfhydryl/mercapto)	RCO	ACYL
RC=OR	KETONES	CH <sub>3</sub> CO	ACETYL (simplest acyl)

## NOMENCLATURE

- Organic compounds may have different names
- Ex.  $\text{CH}_3\text{COOH}$  – acetic acid(semi-systematic)/ethanoic acid(systematic)/(dil.) vinegar(trivial)

### IUPAC (International Uni...)

- Formulated the rules on nomenclature

### Format:

- Prefix-parent-bond type-suffix
- Parent
  - Most important
  - Usually the longest chain

- Bond type
  - Single "an"
  - Double "en"
  - Triple bond "yn"
- Prefixes
  - 1 meth
  - 2 eth
  - 3 prop
  - 4 but
  - 5 pent
- Suffix & Prefix
  - Substituents
  - Suffix
    - Highest priority substituent only
      - RCOOH
      - RCOOH derivatives
      - RCHO
      - RCOR
      - ROH
      - RSH
      - RNH<sub>2</sub>
      - C-C
      - C=C
      - C≡C
      - RX, ROR, RSR – never suffix

Ex.  $\text{CH}_3\text{CH}_2\text{Cl}$

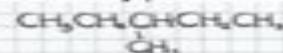
- ✓ Ethyl chloride
- ✓ Chloroethane

$\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3$

- ✓ Ethyl ether
- ✓ Ethoxyethane

### Practice Set 1

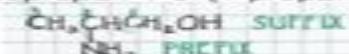
- Pentane: 3-methylpentane



- Rule: alphabetization  
3-ethyl-4-methylhexane



- 2-aminopropan-1-ol (1-propanol)



- 1-chlorobut-2-en-2-ol



- for multiple subs., add multiplier prefix  
1,1,2-trimethylcyclohexane



# Form And Function An Organic Chemistry Module Teachers Guide

**RJ Shavelson**



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