

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

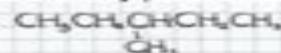
- ✓ Ethyl chloride
- ✓ Chloroethane

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

- ✓ Ethyl ether
- ✓ Ethoxyethane

### Practice Set 1

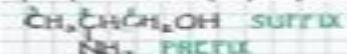
- Pentane: 3-methylpentane



- 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

**Michael Seilmaier**



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web dec 29 2021 a pick and place robot merely refers to a mechanism capable of doing simple tasks like picking and placing parts within an assembly line they re most inclined to handle repetitive and monotonous tasks while handling both tiny and big pieces also pertained to the pick and place system on the other hand the intelligent pick and

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web sep 2 2020 this work involves designing and fabricating a simple pick and place arm type robot that could be used in handling of parts during different production process the production process may include

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web fig 4 block diagram of mobile operated pickk and place robo the main part of the project is mechanical arrangement of robot arm by using 3 motors we can develop the robot arm with help of 4 or 5 motors according to our design in this project we used only 3 motors for controlling robot arm the below diagram shows the robot arm arrangement

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web fig 1 block diagram of line follower robot fig 2 implemented line follower prototype model 2 pick and place robot the robotic arm is a type of mechanical arm which is usually programmable with similar functions to a human arm and human controlled based system the pick and place robotic arm consists of a robotic arm placed on a moving

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web design analysis of a remote controlled pick and place robotic vehicle 59 fig 1 block diagram of mode of operation 3 1 4 elbow this is the joint between links b and c and it has one degree of freedom actuated by a rc servo motor it can rotate to about 180 by design by link a the motion about the elbow is actuated by a set of gear brains

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web block diagram showing receiver of a pick n place robot the system consists of two motors for providing motion to the whole robot and two other motors to provide the arm motion the end effector or the gripper needs to be controlled to apply proper pressure on the object to handle it effectly to give it a soft grip

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web here programmable logic and controller is used for controlling and operating robotic arm all the various problems of this process have been analyzed properly and have been taken into consideration while programming and designing the pick and

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web dec 1 2017 the project is about utilizing four wheeled robot arduino uno microcontroller to create a pick and place robot that can do any pick and place function a radio frequency transmission fsi6 is

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web based on the user commands the robot moves and pick and place the objects the robotic arm used here is similar to a human arm which is programmed to perform the pick and place functions the remainder of this paper is organized as follows the section 2 provides information about the existing works section 3 gives details of the proposed

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web block diagram of the 3 axis pick and place robot you will the following documents with this project project report in pdf format and in word format doc or docx circuit diagram pcb layout microcontroller program in assembly language hex file of the microcontroller code datasheets of all the components ics used in the project

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web pick and place robot module block diagram 14 3 3 1 robotic arm design the robotic arm with gripper termination has five degrees of freedom with a rotating base that rests on the upper region of the vehicle as depicted in figure 6