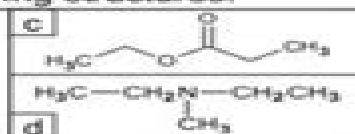


Organic chemistry review

- Draw structures for the following compounds:
 - 2-methylbutane
 - 3,3-dichlorohexane
 - 4-ethyl-3,3,4-trimethyldecane
 - ethanamide
 - cis-1,3-dimethylcyclohexane
 - 2-methyl-4-octanol
 - propanal
 - methyl ethanoate
 - methyl propyl ether
 - 2-pentanone

- Write the correct name for each of the following structures:



- Draw the polymers that result from:
 - the reaction of i) and ii)
 - the reaction of ii) and iii)
 - the addition of ethene molecules
 - the addition of 3-hexene molecules



- What is the difference between a saturated and unsaturated hydrocarbon? Which is benzene?
- Identify each pair as structural isomers, geometric isomers, or neither
 - cyclopentane, pentane
 - 1,1-dichloroethene, trans-1,2-dichloroethene
 - hexanoic acid, propyl propanoate
 - cis-1,2-dichlorocyclopentane, trans-1,2-dichlorocyclopentane
 - cis-1,2-dichlorocyclopentane, trans-1,3-dichlorocyclopentane



- C₂H₆O exists as two structural isomers. Draw each isomer and name each. Predict the relative boiling point and solubility in water of the two isomers. Explain.

- Indicate if the functional group contains a carbonyl, carboxyl or hydroxyl group:

	alcohol	ketone	ester	carboxylic acid
carboxyl group				
carbonyl group				
hydroxyl group				

- In each case indicate how the following molecule can be made by drawing the reaction, naming all products and reactants, and naming the type of reaction that is occurring.
 - 1,2-dichlorocyclopentane (from a hydrocarbon)
 - 1,1-dichlorocyclopentane (from a hydrocarbon)
 - A condensation reaction to make butyl methanoate
 - The reactants from c) (not using hydrogenation)
- Using Br₂(aq), how can you easily distinguish between pentane, 1-pentene, and 1-pentyne?
- What is wrong with the following names?
 - 3-methyl-2-butyne
 - 1,2-dichlorocyclobutane
 - 3-methyloctene
 - 2,3-dimethyl-4-ethylnonane
 - 1-butanone
 - 2-ethyl-2-methylhexane

Additional practice (pg. 1049-1053): 24.5, 7, 11, 12, 13, 14, 17, 19, 32, 36, 37

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Jicheng Xie



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