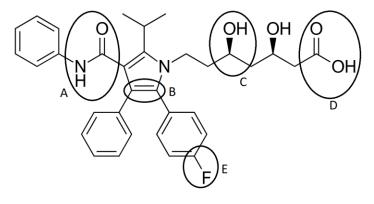
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Chemistry 30: Organic Chemistry Practice Test

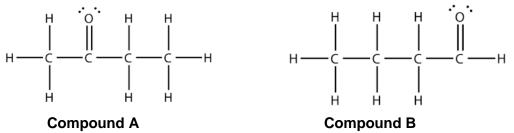
- 1. Draw a line diagram for each of the following compounds:
 - a. 4-propyl-2-methyl-1-pentene
 - b. 2,3-dimethyl-3-propyl-1,5-heptadiene
 - c. 2-methyl-1-hexyne
 - d. 2,2,3,4-tetramethyloctane
- 2. Explain why butane and 2-methylpropane are structural isomers.
- 3. What type of intramolecular bonds and intermolecular forces hold together hydrocarbons?
- 4. For butane, 2-butyne and 2-methylpropane, list the compounds in order from weakest to strongest intermolecular forces, and explain how you determined the order.
- 5. a. Write the combustion reaction for octane.b. Why does octane make a good additive for gasoline, as opposed to something like methane, which produces more energy?

c. What are the by-products of incomplete combustion?

- 6. How is fractional distillation used to separate different lengths of hydrocarbons?
- 7. Identify each lettered functional group:



8. Consider the following compounds:



- a. Identify which type of compounds are above, based on the functional groups.
- b. Which of the substances would have stronger intermolecular forces? Explain why.
- 9. To the right is acetic acid (vinegar). Use the diagram to explain why vinegar is a good choice for cleaning.

