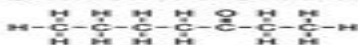


Quiz & Worksheet - Structural Formula

1. Which of the following shows the correct condensed structural formula of a compound that has five carbon (C) atoms, 12 hydrogen (H) atoms and one oxygen (O) atom?

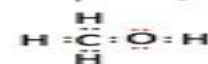
- ☐ $\text{CH}_3 - \underset{\text{CH}_2}{\overset{\text{CH}_2}{\text{C}}} - \text{CH}_2 - \overset{\text{O}}{\parallel}{\text{C}} - \text{H}$
- ☐ $\text{CH}_3 - \underset{\text{CH}_2}{\overset{\text{CH}_3}{\text{C}}} - \text{CH}_2 - \overset{\text{O}}{\parallel}{\text{C}} - \text{H}$
- ☐ $\text{CH}_3 - \underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{C}}} - \text{CH} - \text{CH}_2 - \text{O}$
- ☐ $\text{CH}_3 - \underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{C}}} - \text{CH}_2 - \overset{\text{O}}{\parallel}{\text{C}} - \text{H}$

2. Which of the following is the correct skeletal structural formula for the following compound?



- ☐
- ☐
- ☐
- ☐

3. What is the correct line-bond structural formula for the compound shown below? (The black dots are bonding electrons between the atoms and the red dots are nonbonding electrons.) Hint: Since this is an organic compound, nonbonding electrons are, in general, not shown in the line-bond structural formula



- ☐ $\text{H} - \underset{\text{H}}{\overset{\text{H}}{\text{C}}} - \overset{\text{O}}{\parallel}{\text{C}} - \text{H}$
- ☐ $\text{H} - \underset{\text{H}}{\overset{\text{H}}{\text{C}}} - \text{O} - \text{H}$
- ☐
- ☐ $\text{CH}_3 - \text{O} - \text{H}$

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Organic Structural Formula Practice

M Woodhall

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