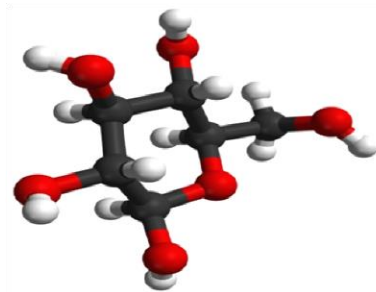
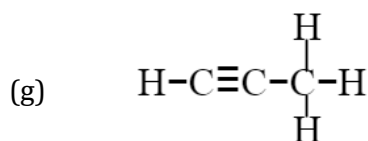
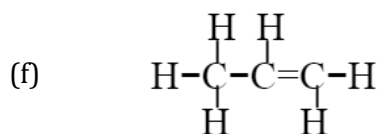
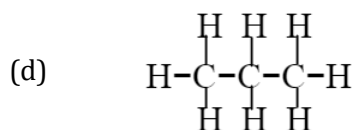
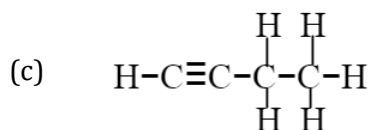
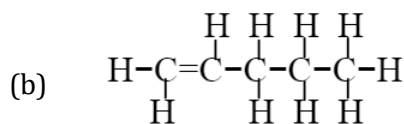
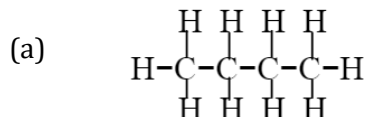


# ORGANIC CHEMISTRY



1. Indicate whether each is saturated or unsaturated, and state whether it is an alkane, alkene, or alkyne:  $C_5H_{10}$ ,  $C_{12}H_{22}$ ,  $CH_4$ ,  $C_6H_{10}$ ,  $C_3H_6$ ,  $C_2H_6$ ,  $C_7H_{12}$

2. Name each:

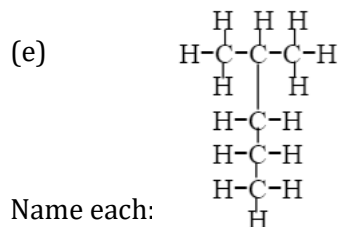
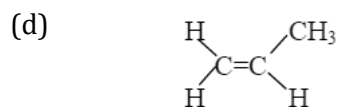
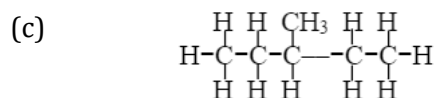
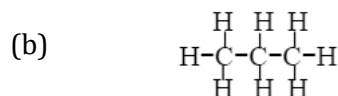
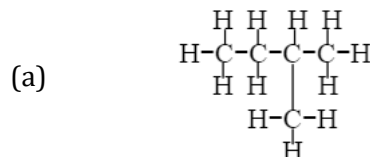


3. Name each:  $C_6H_{12}$ ,  $C_4H_6$ ,  $C_{10}H_{22}$ ,  $C_3H_8$ ,  $C_5H_8$ ,  $C_7H_{14}$ ,  $C_8H_{18}$ ,  $CH_4$ ,  $C_2H_4$ ,  $C_9H_{16}$

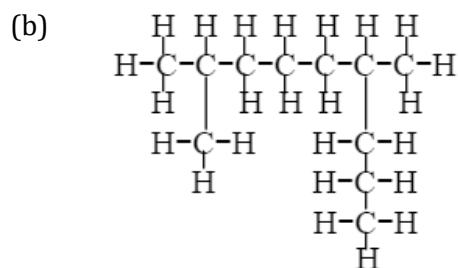
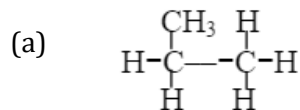
4. Write the formula for each: heptyne, hexane, propene, octyne, ethene, pentane

5. Draw each: pentyne, ethene, propane, butene, octane, hexyne.

6. Name each:



7. Name each:





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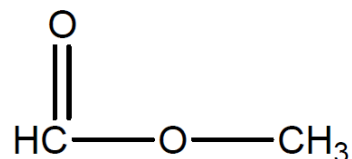
24. Name:  $\text{CCl}_4$

25. Name:  $\text{CF}_2\text{CH}_2$

26. Name:  $\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3$

27. Name:  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

28. Name:



29. Name:  $\text{CH}_3\text{CH}_2\text{CHOHCH}_2\text{CH}_2\text{CH}_3$

30. Name:  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CHO}$

31. Name:  $\text{CH}_3\text{CH}_2\text{CHBrCH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$

32. Name:  $\text{CH}_3\text{CHNH}_2\text{CH}_2\text{CH}_3$

33. What forms from the complete combustion of a hydrocarbon?

34. A hydrocarbon reacts with fluorine. Under which conditions will substitution occur, and under which conditions will addition occur?

35. What is butylpentanoate? How does it form?

36. How is soap made?

37. What is the process of joining many small molecules into larger molecules is called?

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