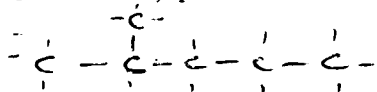


ALKANES ALKENES; ALKYNES

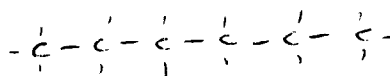
Key.

For each of the following IUPAC names, draw a structural diagram.

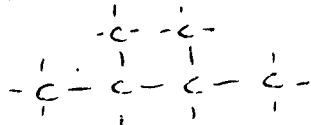
1. 2-methylpentane



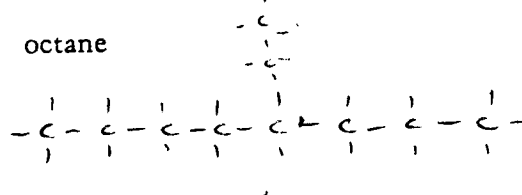
2. 3-ethylhexane



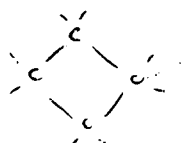
3. 2,3-dimethylbutane



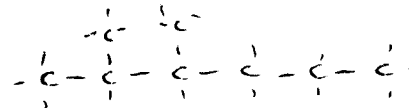
4. octane



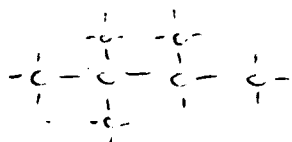
5. cyclobutane



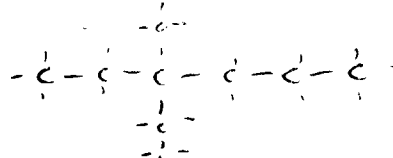
6. 2,3-dimethylhexane



7. trimethylbutane



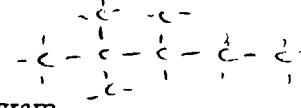
8. 3-ethyl-3-methylhexane



9. methylcyclopentane

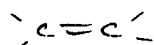


10. 2,2,3-trimethylpentane

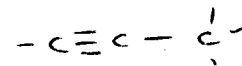


For each of the following IUPAC names, draw a structural diagram.

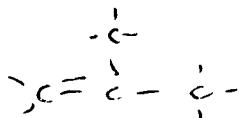
1. ethene (ethylene)



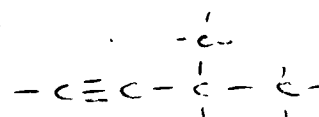
2. propyne



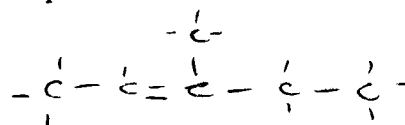
3. methylpropene



4. methyl-1-butyne



6. 3-methyl-2-pentene



For each of the following structural diagrams, write the IUPAC name.

7. $\text{CH}_3 - \text{C} \equiv \text{C} - \text{CH}_3$

2-butyne

8. $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH} = \text{CH}_2$

1-pentene

9. $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3 - \text{C} = \text{CH} - \text{CH}_3 \end{array}$

methyl-2-butene

methyl-2-pentyne

11. $\text{CH}_2 = \text{CH} - \text{CH}_3$

propene

12. $\begin{array}{c} \text{CH}_3 - \text{C} \equiv \text{C} - \text{CH} - \text{CH}_3 \\ | \\ \text{CH}_3 \end{array}$