

Organic Chemistry

Self Quiz #2

Name: _____

Answers found at end.

Fill in the name or formula for the following open-chain hydrocarbons (no cycloalkanes):

1. C_3H_8 _____

2. C_5H_8 _____

3. C_2H_4 _____

4. C_7H_{16} _____

5. C_4H_{10} _____

6. C_8H_{16} _____

7. C_9H_{16} _____

8. $C_{10}H_{22}$ _____

9. _____ butene

10. _____ octyne

11. _____ propene

12. _____ pentane

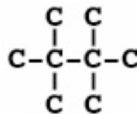
13. _____ nonene

14. _____ ethyne

15. _____ hexyne

16. - 21. Draw and name the three isomers of pentane:

22. Name the following molecule:



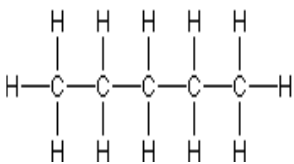
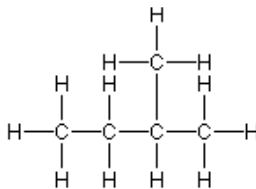
23. Draw the molecule:

3-ethyl-2,2,5,5-tetramethyloctane

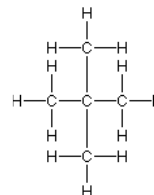
Fill in the name or formula for the following open-chain hydrocarbons (no cycloalkanes):

1. C_3H_8 propane2. C_5H_8 pentyne3. C_2H_4 ethene4. C_7H_{16} heptane5. C_4H_{10} butane6. C_8H_{16} octene7. C_9H_{16} nonyne8. $C_{10}H_{22}$ decane9. C_4H_8 butene10. C_8H_{14} octyne11. C_3H_6 propene12. C_5H_{12} pentane13. C_9H_{18} nonene14. C_2H_2 ethyne15. C_6H_{10} hexyne

16. - 21. Draw and name the three isomers of pentane:

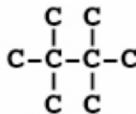
*n*-pentane

2-methylbutane



2,2-dimethylpropane

22. Name the following molecule:



2,2,3,3-tetramethylbutane

23. Draw the molecule:

3-ethyl-2,2,5,5-tetramethyloctane

