

# 11 • Carbon Chemistry

## HYDROCARBONS

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

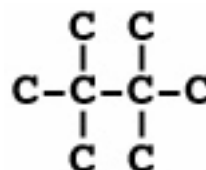
12. \_\_\_\_\_ pentane

13. \_\_\_\_\_ nonene

14. \_\_\_\_\_ ethyne

15. \_\_\_\_\_ hexyne

22. Name the following molecule:



23. Draw the molecule:

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

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