

1. CH_4
2. H_2O
3. NH_3
4. HF
5. 2 single bonds and a double bond
6. degenerate orbitals (hybridized)
7. simplest saturated hydrocarbon
8. simplest unsaturated hydrocarbon
9. pi bonds (p overlaps) come from where? Give an example.
10. name the saturated hydrocarbon with a chain of 5 carbon atoms
11. conjugated systems come from where? Give an example.
12. BCl_3 – does it hybridize?
13. H_2S
14. CCl_4
15. HBr
16. H_2CO_3
17. SF_2
18. SiCl_4
19. PH_3
20. NCl_3
21. C_4H_8
22. C_5H_{12}
23. C_4H_6
24. C_3H_6
25. $\text{CH}_3\text{-CH=CH-CH}_2\text{-CH}_3$
26. SiF_4
27. H_2Se
28. CH_3I
29. BeI_2
30. BI_3
31. Cl_4
32. OI_2
33. hexane
34. cyclohexyne
35. cyclohexene