



# COVALENT BONDING

## Practice Problems

Do your answers to the following problems.

### SECTION 5.1 MOLECULAR COMPOUNDS

- Classify each of the following as either ionic or molecular.
  - $\text{NaCl}$
  - $\text{H}_2\text{O}$
  - $\text{HCl}$
  - $\text{KNO}_3$
  - $\text{C}_2\text{H}_6$
  - $\text{H}_2\text{SO}_4$
  - $\text{CaCl}_2$
  - $\text{C}_2\text{H}_5\text{OH}$
  - $\text{H}_2\text{O}_2$
  - $\text{C}_2\text{H}_4$
  - $\text{C}_2\text{H}_2$
  - $\text{C}_2\text{H}_6\text{O}$

- Classify each of the following as either ionic or molecular compound. Write the name of the compound.
- Write the formula for each of the following molecular compounds. Write the name of the compound.
- Write the formula for each of the following ionic compounds. Write the name of the compound.

### SECTION 5.2 THE NATURE OF COVALENT BONDING

- Show covalent bonding in hydrogen fluoride.  $\text{H}-\text{F}$
- Show covalent bonding in methane.  $\text{CH}_4$
- Show covalent bonding in carbon dioxide.  $\text{CO}_2$
- Show covalent bonding in acetylene.  $\text{H}-\text{C}\equiv\text{C}-\text{H}$
- Draw Lewis structures for each of the following. Show all covalent bonding explicitly.
  - $\text{C}_2\text{H}_6$
  - $\text{C}_2\text{H}_4$
  - $\text{C}_2\text{H}_2$
  - $\text{C}_2\text{H}_6\text{O}$
  - $\text{C}_2\text{H}_5\text{OH}$
  - $\text{C}_2\text{H}_4\text{O}$
  - $\text{C}_2\text{H}_2\text{O}$
  - $\text{C}_2\text{H}_2\text{Cl}_2$
  - $\text{C}_2\text{H}_2\text{Cl}_4$
  - $\text{C}_2\text{H}_2\text{Cl}_6$



### SECTION 5.3 BONDING: THE ORBITALS

- Which orbital and sub-orbital are represented, respectively, by the shapes shown in the diagrams?
- Which orbital and sub-orbital give rise, respectively, to the shapes shown in the diagrams?

# Chapter 8 Covalent Bonding Practice Problems Answers

**Siddappa N.Byrareddy**



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