



# COVALENT BONDING

## Practice Problems

Do your answers to the following problems.

### SECTION 8.1 MOLECULAR COMPOUNDS

- Classify each of the following as either ionic or molecular.
  - $\text{NaCl}$
  - $\text{H}_2\text{O}$
  - $\text{HCl}$
  - $\text{KNO}_3$
  - $\text{H}_2\text{SO}_4$
  - $\text{CaCl}_2$
  - $\text{C}_2\text{H}_6$
  - $\text{H}_2\text{O}_2$
  - $\text{CO}_2$
- Write the formula for the following molecular compounds.
  - Carbon tetrachloride
  - Diphosphorus pentoxide
  - Carbon disulfide
  - Diphosphorus trioxide
  - Carbon monoxide
  - Diphosphorus pentasulfide
  - Diphosphorus pentoxide
  - Diphosphorus pentasulfide
  - Diphosphorus pentoxide
- Write the name for each of the following molecular compounds.
  - $\text{C}_2\text{H}_6$
  - $\text{C}_2\text{H}_4$
  - $\text{C}_2\text{H}_2$
  - $\text{C}_2\text{H}_6\text{O}$
  - $\text{C}_2\text{H}_6\text{O}_2$
  - $\text{C}_2\text{H}_4\text{O}_2$
  - $\text{C}_2\text{H}_4\text{O}$
  - $\text{C}_2\text{H}_2\text{O}_2$
  - $\text{C}_2\text{H}_2\text{O}$
- Write the name for each of the following molecular compounds.
  - $\text{C}_2\text{H}_6$
  - $\text{C}_2\text{H}_4$
  - $\text{C}_2\text{H}_2$
  - $\text{C}_2\text{H}_6\text{O}$
  - $\text{C}_2\text{H}_6\text{O}_2$
  - $\text{C}_2\text{H}_4\text{O}_2$
  - $\text{C}_2\text{H}_4\text{O}$
  - $\text{C}_2\text{H}_2\text{O}_2$
  - $\text{C}_2\text{H}_2\text{O}$

### SECTION 8.2 THE NATURE OF COVALENT BONDING

- Draw the Lewis structure for hydrogen fluoride.  $\text{H}-\text{F}$
- Draw the Lewis structure for hydrogen chloride.  $\text{H}-\text{Cl}$
- Draw the Lewis structure for hydrogen bromide.  $\text{H}-\text{Br}$
- Draw the Lewis structure for hydrogen iodide.  $\text{H}-\text{I}$
- Draw the Lewis structure for hydrogen cyanide.  $\text{H}-\text{C}\equiv\text{N}$
- Draw the Lewis structure for hydrogen cyanide.  $\text{H}-\text{C}\equiv\text{N}$



### SECTION 8.3 BONDING IN THE CARBON

- Write the Lewis structure for ethane.  $\text{C}_2\text{H}_6$
- Write the Lewis structure for ethane.  $\text{C}_2\text{H}_6$

# Chapter 8 Covalent Bonding Practice Problems Answers

**Arshad Iqbal**



## Chapter 8 Covalent Bonding Practice Problems Answers:

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