

Covalent Compounds

1. Name the following compounds

- | | |
|-------------------|----------------------------|
| a. PCl_3 | i. CO |
| b. NO | j. N_2O_4 |
| c. SCl_2 | k. SiO_2 |
| d. NH_3 | l. CCl_4 |
| e. CO_2 | m. N_2O_3 |
| f. SO_2 | n. N_2O_5 |
| g. PCl_5 | o. Cl_2O_7 |
| h. SF_6 | p. P_2O_3 |

2. Give the formulas for the following compounds

- | | |
|---------------------------|-----------------------------|
| a. dihydrogen monoxide | i. disulfur dichloride |
| b. nitrogen trihydride | j. iodine dichloride |
| c. dichlorine heptoxide | k. tetraphosphorus decoxide |
| d. boron trifluoride | l. oxygen difluoride |
| e. diphosphorus pentoxide | m. chlorine dioxide |
| f. bromine nitride | n. dinitrogen pentasulfide |
| g. nitrogen triiodide | o. bromine pentachloride |
| h. xenon tetrafluoride | p. dinitrogen trioxide |

Ionic Compounds

3. Name the following compounds

- | | | |
|--------------------------------------|-------------------------------|--------------------------------|
| a. CaCl_2 | i. NH_4OH | q. MgSO_4 |
| b. NaOH | j. CuCl_3 | r. CaCrO_4 |
| c. BaBr_2 | k. CoCO_3 | s. NaH_2PO_4 |
| d. Al_2O_3 | l. $\text{Fe}(\text{NO}_3)_2$ | t. CsNO_3 |
| e. $\text{Mg}(\text{OH})_2$ | m. $\text{Ba}(\text{NO}_3)_2$ | u. $\text{Mg}(\text{HCO}_3)_2$ |
| f. $\text{K}_2\text{Cr}_2\text{O}_7$ | n. Ag_2O | v. Na_2S |
| g. NaHCO_3 | o. $\text{Cr}(\text{NO}_3)_2$ | w. Na_2SO_3 |
| h. ScI_3 | p. $\text{Zn}(\text{OH})_2$ | x. Na_2SO_4 |

4. Give the formulas for the following compounds

- | | | |
|------------------------------|-------------------------|------------------------|
| a. barium chloride | i. zinc bromide | q. sodium carbonate |
| b. calcium iodide | j. sodium sulfate | r. calcium chromate |
| c. potassium nitrate | k. calcium oxide | s. silver nitrate |
| d. copper (II) hydroxide | l. cobalt (II) chromate | t. zinc nitrite |
| e. iron (III) oxide | m. nickel nitrate | u. magnesium phosphate |
| f. sodium hydrogen carbonate | n. copper (II) sulfate | v. iron (II) oxide |
| g. potassium dichromate | o. copper (II) chloride | w. scandium hydroxide |
| h. cobalt (III) sulfate | p. ammonium sulfate | x. barium nitride |

Covalent Compounds

1. Name the following compounds

- | | |
|---------------------------------------|--------------------------|
| a. phosphorus trichloride | i. carbon monoxide |
| b. nitrogen oxide / nitrogen monoxide | j. dinitrogen tetroxide |
| c. sulfur dichloride | k. silicon dioxide |
| d. nitrogen trihydride | l. carbon tetrachloride |
| e. carbon dioxide | m. dinitrogen trioxide |
| f. sulfur dioxide | n. dinitrogen pentoxide |
| g. phosphorus pentachloride | o. dichlorine hexoxide |
| h. sulfur hexafluoride | p. diphosphorus trioxide |

2. Give the formulas for the following compounds

- | | |
|-----------------------------------|-----------------------------------|
| a. H ₂ O | i. S ₂ Cl ₂ |
| b. NH ₃ | j. ICl ₂ |
| c. Cl ₂ O ₇ | k. P ₄ O ₁₀ |
| d. BF ₃ | l. OF ₂ |
| e. P ₂ O ₅ | m. ClO ₂ |
| f. BrN | n. N ₂ S ₅ |
| g. NI ₃ | o. BrCl ₅ |
| h. XeF ₄ | p. N ₂ O ₃ |

Covalent Compounds

3. Name the following compounds

- | | | |
|------------------------------|--------------------------|---------------------------------|
| a. calcium chloride | i. ammonium hydroxide | q. magnesium sulfate |
| b. sodium hydroxide | j. copper (III) chloride | r. calcium chromate |
| c. barium bromide | k. cobalt (II) carbonate | s. sodium dihydrogen phosphate |
| d. aluminum oxide | l. iron (II) nitrate | t. cesium nitrate |
| e. magnesium hydroxide | m. barium nitrate | u. magnesium hydrogen carbonate |
| f. potassium dichromate | n. silver oxide | v. sodium sulfide |
| g. sodium hydrogen carbonate | o. chromium (II) nitrate | w. sodium sulfite |
| h. Scandium iodide | p. zinc hydroxide | x. sodium sulfate |

4. Give the formulas for the following compounds

- | | | |
|--|--|--|
| a. BaCl ₂ | i. ZnBr ₂ | q. Na ₂ CO ₃ |
| b. CaI ₂ | j. Na ₂ SO ₄ | r. CaCrO ₄ |
| c. KNO ₃ | k. CaO | s. AgNO ₃ |
| d. Cu(OH) ₂ | l. CoCrO ₄ | t. Zn(NO ₃) ₂ |
| e. Fe ₂ O ₃ | m. Ni(NO ₃) ₂ | u. Mg ₃ (PO ₄) ₂ |
| f. NaHCO ₃ | n. CuSO ₄ | v. FeO |
| g. K ₂ Cr ₂ O ₇ | o. CuCl ₂ | w. Sc(OH) ₃ |
| h. CO ₂ (SO ₄) ₃ | p. (NH ₄) ₂ SO ₄ | x. Ba ₃ N ₂ |