

Covalent Compound Name & Formula Practice Worksheet

Name: _____

1. Write the formulas for the following covalent compounds:

- a. disulfur tetrafluoride _____
- b. carbon trioxide _____
- c. nitrogen pentoxide _____
- d. nitrogen tribromide _____
- e. dinitrogen heptachloride _____
- f. carbon tetrachloride _____
- g. hydrogen monochloride _____
- h. trihydrogen monophosphide _____
- i. dihydrogen monoxide _____

2. Write the names of the following compounds:

*Exceptions: do not use mono- for the first element in the name. The "o" or "a" at the end of the Greek pre-fix is usually dropped when the element name **begins with a vowel***

- a. Br_2I_4 _____
- b. P_5F_8 _____
- c. NO_5 _____
- d. NBr_3 _____
- e. N_2O_5 _____
- f. BrCl_3 _____

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g. H_2S _____

h. N_2O _____

Answers:

1.

- a. disulfur tetrafluoride S_2F_4
- b. carbon trioxide CO_3
- c. nitrogen pentoxide NO_5
- d. nitrogen tribromide NBr_3
- e. dinitrogen heptachloride N_2Cl_7
- f. carbon tetrachloride CCl_4
- g. hydrogen monochloride HCl
- h. trihydrogen monophosphide H_3P
- i. dihydrogen monoxide H_2O

2.

- a. Br_2I_4 dibromine tetraiodide
- b. P_5F_8 pentaphosphorus octafluoride
- c. NO_5 nitrogen pentoxide ***The "o" or "a" at the end of the Greek pre-fix is usually dropped when the element name begins with a vowel, so we did not write *pentoxide* because of this rule!
- d. NBr_3 nitrogen tribromide
- e. N_2O_5 dinitrogen pentoxide
- f. BrCl_3 bromine trichloride
- g. H_2S dihydrogen monosulfide
- h. N_2O dinitrogen monoxide