Covalent Compounds: Names and Formulas

1. Given the formulas of the following **covalent compounds** write their names:

Si4P5 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Br2Cl2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NO2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

N2O2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

P5Cl7 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Se2I6 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SO2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

S2O4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Given the names of the following **covalent compounds** write their formulas:

nitrogen triiodide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

pentaphosphorous nonoxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

carbon dioxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

carbon monoxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

tricarbon tetrahydride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

difluorine tetroxide ` \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

trisulfur petiodide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

heptabromine octachloride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Look at the following Lewis diagrams then write the formula and name the compound.









4. Try to draw the Lewis structures for the following covalent compounds:

ClF

oxygen dichloride

silicon tetrachloride

I2

dicarbon hexabromide

Covalent Compounds: Names and Formulas

1. Given the formulas of the following **covalent compounds** write their names:

Si4P5 **tetrasilicon pentaphosphide**

Br2Cl2 **dibromine dichloride**

NO2 **nitrogen dioxide**

N2O2 **dinitrogen dioxide**

P5Cl7 **pentaphosphorous heptachloride**

Se2I6 **diselenium hexiodide**

SO2 **sulfur dioxide**

S2O4 **disulfur tetroxide**

2. Given the names of the following **covalent compounds** write their formulas:

nitrogen triiodide **NI3**

pentaphosphorous nonoxide **P5O9**

carbon dioxide **CO2**

carbon monoxide **CO**

tricarbon tetrahydride **C3H4**

difluorine tetroxide ` **F2O4**

trisulfur pe**n**tiodide **S3I5**

heptabromine octachloride **Br7Cl8**

3. Look at the following Lewis diagrams then write the formula and name the compound.



 **C2H6 dicarbon hexahydride**



 **CF4 carbon tetrafluoride**



 **NO3- nitrogen trioxide (nitrate anion)**

 **SO3-2 Sulfur trioxide (sulfite anion)**

4. Try to draw the Lewis structures for the following covalent compounds:

ClF

oxygen dichloride

silicon tetrachloride

I2

dicarbon hexabromide