**Binary Molecular Nomenclature**

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| **Rules for Binary Molecular Compounds**  1. The naming system is for compounds composed of two nonmetallic elements.  2. The first element keeps its name  a. The first element gets a prefix if it has a subscript in the formula  3. The second element gets the *–ide* suffix (ending)  a. The second element ALWAYS gets a prefix | Prefixes  1 – mono  2 – di  3 – tri  4 – tetra  5 – penta  6 – hexa  7 – hepta  8 – octa  9 – nona  10 – deca |

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| **Compound Name** | **Compound Formula** |
| Carbon dioxide |  |
| Carbon monoxide |  |
| Diphosphorus pentoxide |  |
| Dinitrogen monoxide |  |
| Silicon dioxide |  |
| Carbon tetrabromide |  |
| Sulfur dioxide |  |
| Phosphorus pentabromide |  |
| Iodine trichloride |  |
| Nitrogen triiodide |  |
| Dinitrogen trioxide |  |

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| **Compound Formula** | **Compound Name** |
| N2O4 |  |
| SO3 |  |
| NO |  |
| NO2 |  |
| As2O5 |  |
| PCl3 |  |
| CCl4 |  |
| H2O |  |
| SeF6 |  |