**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 – hepta8 – octa9 – nona10 – 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 |  |