

## Binary Molecular Nomenclature and Molar Mass

<b>Rules for Binary Molecular Compounds</b>	<b>Prefixes</b>
1. The naming system is for compounds composed of two <u>nonmetallic</u> elements.	1 – mono
2. The first element keeps its name	2 – di
a. The first element gets a prefix if it has a subscript in the formula	3 – tri
3. The second element gets the <i>-ide</i> suffix (ending)	4 – tetra
a. The second element ALWAYS gets a prefix	5 – penta
	6 – hexa

<b>Compound Name</b>	<b>Compound Formula</b>	<b>Molar Mass</b>
Carbon dioxide		
Carbon monoxide		
Diphosphorus pentoxide		
Dinitrogen monoxide		
Silicon dioxide		
Carbon tetrafluoride		
Sulfur dioxide		
Phosphorus pentafluoride		
Oxygen difluoride		
Nitrogen dioxide		
Dinitrogen trioxide		

<b>Compound Formula</b>	<b>Compound Name</b>	<b>Molar Mass</b>
N <sub>2</sub> O <sub>4</sub>		
SO <sub>3</sub>		
NO		
NO <sub>2</sub>		
As <sub>2</sub> O <sub>5</sub>		
PF <sub>3</sub>		
CS <sub>2</sub>		
H <sub>2</sub> O		
SeF <sub>6</sub>		
N <sub>2</sub> O <sub>4</sub>		
CH <sub>4</sub>		