

### molecular prefixes

mono	1
di	2
tri	3
tetra	4
penta	5
hexa	6
hepta	7
octa	8
nona	9
deca	10

### types of compounds

covenant compound (molecular compound)	two non metals share electrons
ionic compounds	metal and a non metal transfer electrons
diatomic molecule	paired atom
poly atomic ions	group of atoms working together as one

### molecular Compound

molecular compounds share their valence shell rather than sharing their electrons.

A binary molecular compound is a molecular compound that is composed of two elements. In general, the elements that combine to form binary molecular compounds are both nonmetals. This contrasts with ionic compounds, which involve bonds between metal cations and nonmetal anions. One difference between ionic and molecular compounds is that two nonmetal atoms will frequently combine with one another in a variety of ratios. Consider the elements nitrogen and oxygen. They combine to make several binary compounds, including NO, NO<sub>2</sub>, (see figure below), and N<sub>2</sub>O. Obviously they can't all be called nitrogen oxide! How would someone know which one you were talking about? Each of the three compounds has very different properties and reactivity. A system to distinguish between compounds such as these is necessary..



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