Molecular Compounds: Formulas and Names

Contains only nonmetals Covalent bonds

Name of first element (smaller group #)+prefix+ base name of second element + ide Prefix when two or more elements

Prefixes for naming molecular compounds

mono	= 1	hexa	_ = 6
- 31	_ = 2	hopta	_ = 7
tci	_ = 3	octa	_ = 8
tetra	_ = 4	_ nong.	_= 9
penta	_ = 5	deca	_= 10

Naming Acids

Molecular compounds that release Ht when dissolved in water

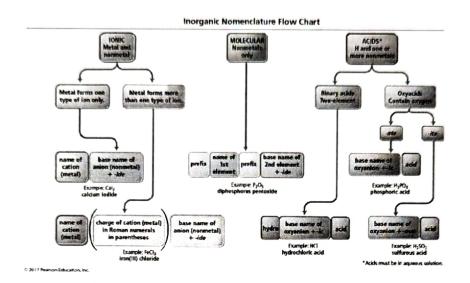
Acidic Ht always written first in the formula

Hydro + base name of nonmetal+ic + acid + binary ocids

Oxyanions

-ote: Base name of oxyanian + ic+acid

-ite: bose name of oxyanian tous tacid



Examples

Name	Formula	Formula	Name
Dinitrogen tetroxide	N2O4	AICI ₃	Aluminum chloride
Calcium sulfate	Ca.504	Mg(OH) ₂	Magnesium hydraxide
Zinc phosphate	Zn3(PO4)2	N ₂ O	Dinitrogen monoxide
Perchloric acid	HC104	Cr(NO ₂) ₃	Chromium (III) nitrite
Copper(II) chloride	CUCI2	HNO ₂	Nitrous acid