

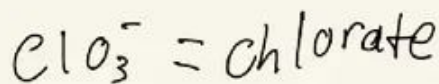
## Polyatomic ion

- charged molecules

- many are 1 nonmetal + 1-4 oxy

naming is based on non-metal root name + "ate" most

Prevalent form



+10 (per-)  
base (ate)  
-10 (ite)

## organic compounds:

- any compounds containing C-H bonds

- can also have O, N, S, P or even Se, Fe, Mo, Cr

# chapter 5

Drawing and understanding molecules. Their geometry, connectivity, etc.

## TOOLS:

- Lewis structures
- VSEPR (3D modeling)
- electronegativity

## G.N. Lewis:

- empirical rules for a understanding bonding.  
non-quantum mechanics, very useful

## electronegativity:

- first we need to know about bond polarity

## Pauling electronegativity:

F 4.0  
O 3.5  
Cl 3.0  
N 3.0  
D 2.1  
C 2.5  
B 2.0

Mg 0  
Li 1.0 3.5  
2.3 ionic