**IUPAC Nomenclature**

1. Count the number of carbons in longest chain

2. Decide on the most important functional group

3. Find substituents and write them down

4. Number the carbons so that the most important substituent is lowest.

If they are of equal importance or equally low, then number so that second most important substituent has the lowest number. Otherwise alphabetical.

5. Write the name of the compound

Format: locant, locant – substituent – locant – substituent – parent (suffix)

List of Carbon Numbers List of Prefixes

Meth- 1 CH3- Methyl

Eth- 2 CH3CH2 - Ethyl

Prop- 3 CH3CH2CH2- Propyl

But- 4 F- Fluoro

Pent- 5 Cl- Chloro

Hex- 6 Br- Bromo

Hept- 7 I- Iodo

Oct- 8 HO- Hydroxyl \*\*

Non- 9

Dec- 10

\*\*name hydroxyl as an alcohol

List of Suffixes:

Alkane: -ane

Alkene: -ene

Alkyne: -yne

Alcohol: -ol

Aldehyde: -al

Ketone: -one

Carboxylic acid: -ic acid