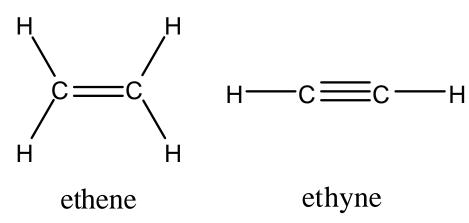
Chemistry 2.5 Organic Chemistry

Naming Alkene and Alkyne

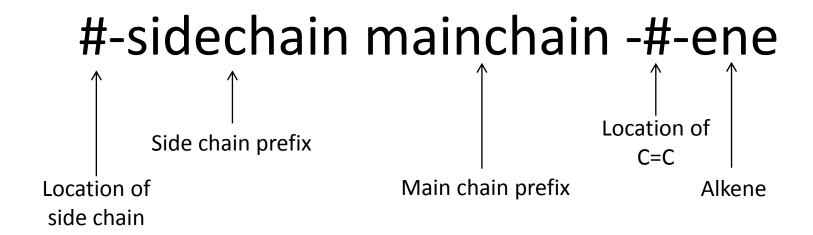
Alkene and Alkyne

- Alkene and alkyne are hydrocarbon compounds containing C=C and CEC respectively.
 - Alkene C=C Suffix -ene
 - Alkyne CEC Suffix -yne



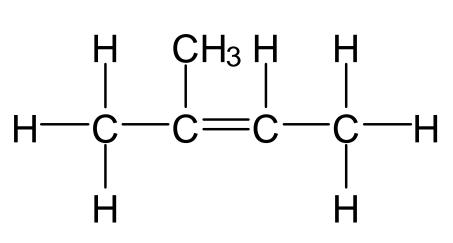
Ethene and ethyne are the simplest alkene and alkyne

Naming Alkene



Note: the location of ene is always the smallest

Example

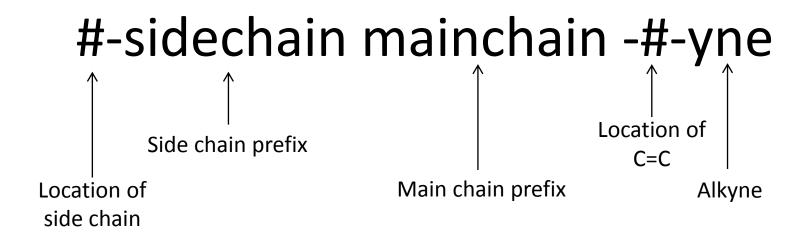


- C=C double bond
 - ene
- Is located at 2nd carbon
 - -2-ene
- 4 carbons main chain
 - But-2-ene
- 1x methyl sidechain
 - Methyl but-2-ene
- Methyl sidechain located on 2nd carbon

2-methyl but-2-ene

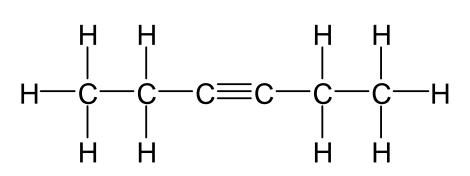
Naming Alkyne

- Naming alkyne is the same as alkene
- Except using the prefix -yne



Note: the location of yne is always the smallest

Example



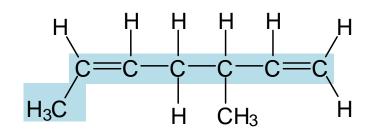
- CEC triple bond– yne
- Is located at 3rd carbon
 - -3-yne
- 6 carbons main chain

Hex-3-yne

Try This

Answer

- 2x C=C double bond
 - Alkene diene



- Located on the 1st and 5th carbon
 - -1,5-diene
- Longest chain is seven carbon
 - Hept-1,5-diene
- Side chain located on 3rd carbon
 - 3-methyl hept-1,5-diene