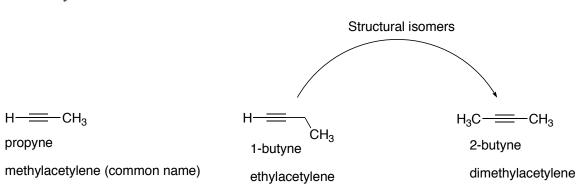
CHEM 261 October 21, 2020

Nomenclature of Alkynes

Rules:

- Find longest chain with max number of multiple bonds
- Number from end to give 1st multiply bonded position the lowest number
- Drop "ane" and add "yne"
- For multiple triple bonds, drop "ne" and add "diyne"," triyne", etc.





Multiple alkynes end with:

2 C \equiv C diyne

3 C≡C triyne

4 C≡C tetrayne

Mixed double and triple bond containing compounds are "eneynes"

Example 1:



2,4 - Octadiyne

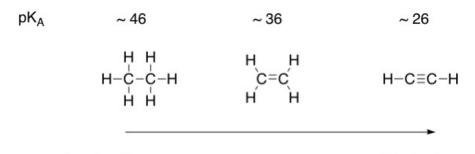
Example 2:

The below example is from canola – defense substance (anti-nematode)

Parent alkane of 13 carbons is tridecane – hence trideca

3*E*,11*E*-trideca-1,3,11-triene-5,7,9-triyne

Characteristics of Alkanes, alkenes, and alkynes



Least polar Most polar Alkynes have higher boiling point, melting point, and density