

# 11 • Chemistry of Carbon

- A molecule named propene has the formula:
  - $C_3H_6$
  - $C_2H_2$
  - $C_4H_8$
  - $C_3H_8$
  - $C_3H_4$

*Carbon*
- What is the name of a molecule with the formula,  $C_5H_{10}$ ?
  - pentene
  - pentane
  - butyne
  - butene

*Carbon*
- A molecule that fits the pattern,  $C_nH_{2n+2}$ , is a(n)
  - alkane
  - alkene
  - cyclic compound
  - alkyne
  - need more info
- The general formula of the alkyne series is:
  - $C_nH_{2n}$
  - $C_nH_{2n-4}$
  - $C_nH_{2n-2}$
  - $C_nH_{2n-6}$
- How many  $\pi$  bonds are present in propyne?
  - 2
  - 1
  - 3
  - 4

*C-C≡C*
- The hydrocarbon series that has a double bond between carbon atoms is the
  - alkene family
  - alkane family
  - alkyne family
  - alkadiene family
- Organic chemistry is the study of
  - compounds of carbon
  - nonmetals
  - once-living things
  - compounds produced by living things

*(HISTORIC IDEA)*

## PRACTICE TEST

- In octene, the hybridization(s) of carbon is(are):
  - $sp^3$  and  $sp^2$
  - $sp^2$  only
  - $sp^3$  only
  - $sp$ ,  $sp^2$  and  $sp^3$

*-C≡C-C=C-C-C-C-*
- The properties of carboxylic acids include all of the following *except*:
  - they ionize completely in water solution
  - they can be neutralized by bases *TRUE*
  - the molecule has some polarity *TRUE*
  - they react with alcohols to form esters *TRUE*
- Dimethylbenzene is also known as xylene. 1,3-dimethylbenzene would be the same as...
  - meta-xylene
  - ortho-xylene
  - para-xylene
  - none of these
- The compound
 
 is classified as a
  - ketone
  - alcohol
  - ester
  - aldehyde
  - acid
- What hybridization is utilized by the oxygen atom in the carbonyl group above?
  - $sp^2$
  - $sp^3$
  - $sp$



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