Chapter 3 Lectures 4 through 8 Assignment

Although it is best to compare compounds with the same molecular formula, which of the following would be best for comparing the stability of organic compounds?

a. activation energies

b. heats of formation

c. heat capacities

d. entropies

e. heats of vaporization

Which of the following is not an unstable alkene or alkyne? (This question required that the students watch Chapter 3 Lecture 5 Alkene Stability 2 Special Cases)



Which alkene would be predicted to be most stable?

a. hept-1-ene

b. 2,3-dimethylpent-2-ene

c. trans-hept-2-ene

d. cis-hept-2-ene

e. (E)-3-methylhex-3-ene

Which of the following statements is most true?

a. Molecules with weaker bonds overall are more stable and less reactive.

b. Molecules with stronger bonds overall are more stable and more reactive.

c. Molecules with stronger bonds overall are more stable and less reactive.

d. Molecules with stronger bonds overall are less stable and more reactive.

A carbon carbon triple bond consists of …

a. 2  bonds and 1 bond and sp2 hybridized C atoms

b. 2  bonds and 1  bond and sp hybridized C atoms

c. 2  bonds and 1 bond and sp hybridized C atoms

d. 2  bonds and 1  bond and sp2 hybridized C atoms

e. 3  bonds and sp hybridized C atoms

f. 3  bonds and sp2 hybridized C atoms