Assessment

Organic Chemistry-2

What is the general formula for alkenes?

a) C_nH_{2n+2}

b) C_nH_{2n+1}

c) C_nH_{2n}

d) C_nH_{2n-1}

e) C_nH_{2n-2}

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e) C_nH_{2n-2}

Which of the following is an unsaturated hydrocarbon?

A. C_2H_6O

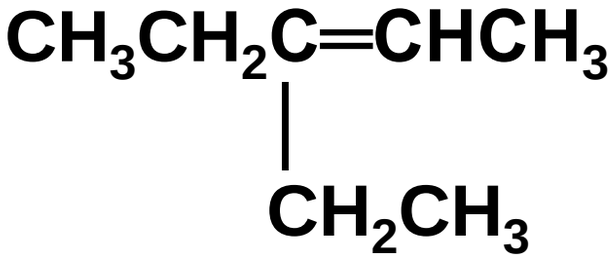
B. C_3H_6

C. C_4H_{10}

D. $C_{10}H_{22}$

E. All of the above

What is the name of the following compound?



A. 3-ethyl-2-pentene

B. 3-ethyl-2-pentane

C. 3-ethyl-3-pentene

D. 3-dimethyl-3-pentene

E. 3-ethylpentene

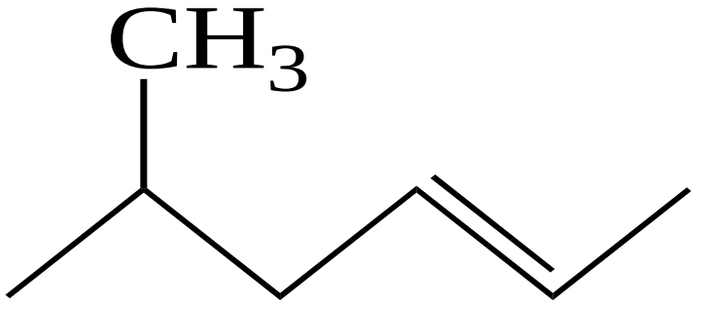
What is the IUPAC name for the following compound?

A. **5-methyl-2-hexene**

B. **1,2-dimethylhexene**

C. **2,5,-dimethylhexane**

D. **2-methyl-5-hexane**



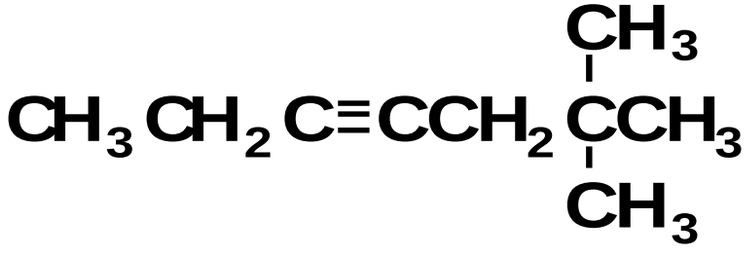
What is the IUPAC name for the following compound?

A. **2,2-dimethyl-5-heptyne**

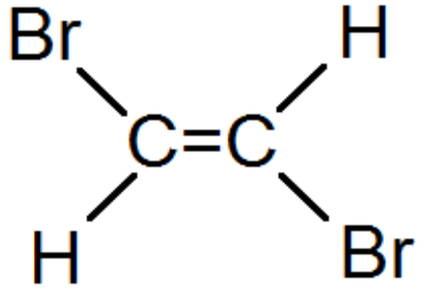
B. **2-methyl-6-octyne**

C. **6,6-dimethyl-3-heptyne**

D. **6,6-dimethyl-3-hexene**



Is the following molecule a cis or trans isomer?



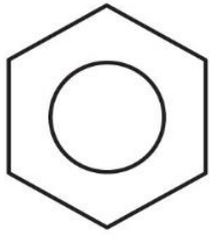
a) Cis, because the two Br atoms are on the same side

b) Trans, because the two Br atoms are on the same side

c) Cis, because the two Br atoms are on opposite sides

d) Trans, because the two Br atoms are on opposite sides

What is the name of the following compound?



A. toluene

B. aniline

C. benzene

D. phenol