

WS 10.4 Organic Compounds

1. Write the **structural formula** for the following:

a) 5-ethyl-2,8-dimethyldecane

c) 2,2,6-trimethyloctane

b) 2,2,4,4,-tetramethylpentane

d) 3-ethyl-3,5-dimethylheptane

2. Write all of the **structural formulas** and **IUPAC names** for the **three** isomers of C_5H_{12} . (*no repeats!*)

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3. Draw the **line** formula for each of the following:

a) ethylcyclobutane

d) 1,1- dichloro- 2,2- difluoroethane

b) 1,1- dimethylcyclopentane

e) 2,4- dichloro- 2,4- difluorohexane

c) 1,3,5- trimethylcyclohexane

f) 1,1,3,5- tetrachlorocyclohexane

4. Write all of the **structural formulas** for the **five** isomers of C_6H_{14} . (*no repeats!*)