

WS 10.5 Organic Compounds

1. Write the structural formula for the following:

a) 5-ethyl-2,8-dimethyldecane

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

c) 2,2,6-trimethyloctane

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!*)

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

a) ethylcyclobutane

b) 1,1-dimethylcyclopentane

c) 1,3,5-trimethylcyclohexane

4. Write the line formula for each of the following haloalkanes:

a) 1,1-dichloro-2,2-difluoroethane

b) 2,4-dichloro-2,4-difluorohexane

c) 1,1,3,5-tetrachlorocyclohexane