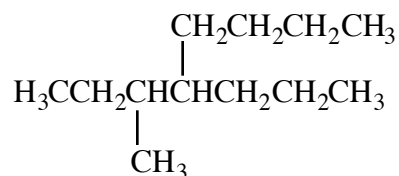


Chemistry 333R

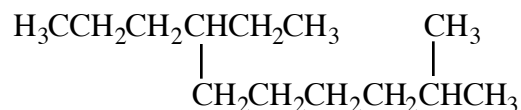
Week 3 Group Questions

1. Use the IUPAC nomenclature rules to write the systematic name for both of the following compounds. Specify the degree of substitution (1° , 2° , 3° or 4°) of each carbon for both compounds.

a.



b.

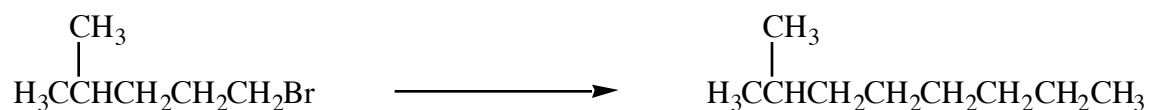


2. For each of the following questions, draw the specific reagent(s) necessary to effect the transformation that is shown.

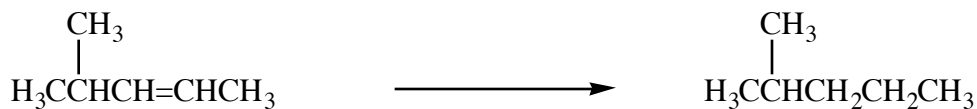
a.



b.



c.



3. Draw a graph of potential energy versus dihedral angle for each of the following rotations.

Draw Newman projections for each staggered and eclipsed conformation.

a. rotation about the C1-C2 bond of 2-methylpropane

b. rotation about the C2-C3 bond of 2-methylbutane

Please bring your set of molecular models to class, next week.