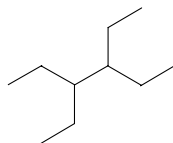


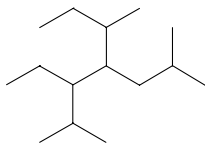
Quiz #2

February 18th, 2008

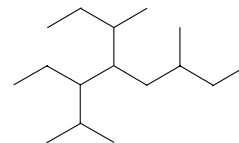
1) Name the following molecules. (3 points)



3,4-Diethyl-hexane

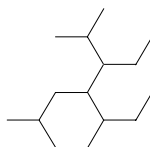


3-Ethyl-4-isobutyl-2,5-dimethyl-heptane

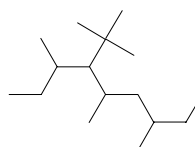


4-sec-Butyl-3-ethyl-2,6-dimethyl-octane

2) Provide the structure of the molecules (2 points).

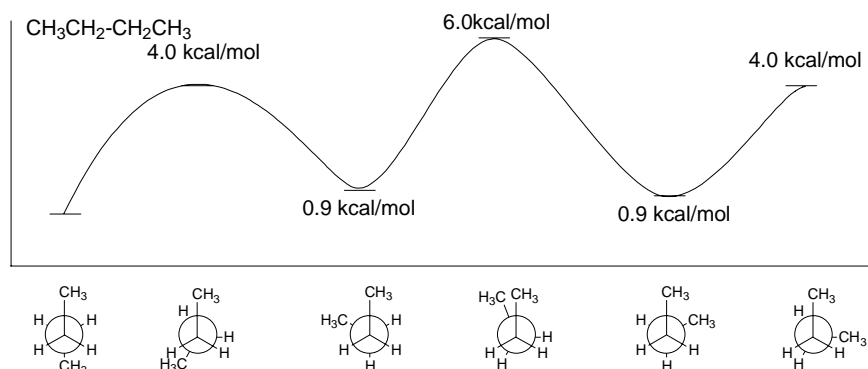


3-Ethyl-4-isobutyl-2,5-dimethyl-heptane



4-tert-Butyl-3,5,7-trimethyl-nonane

3) Draw the energetic profile of central C-C bond rotation for butane. (4 points)



4) Draw the most stable chair conformation of the following molecules. Give the energy difference between the favored chair and the unfavored chair in Kcal/mol (2 points)

