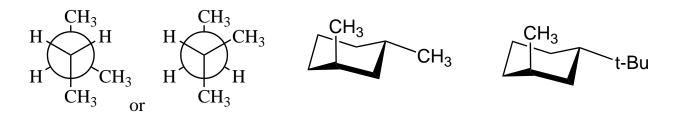
Ex 24 - Conformation

Question One

What is the most stable conformation of:

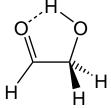
2-methylbutane trans-1,3-dimethylcyclohexane trans-1-t-butyl-3-methylcyclohexane?



Question Two

It is possible to draw Newman projections for molecules in which one of the atoms involved is sp2 hybridized. A couple of such are below: propanal and 3-hydroxypropanal in there most stable conformations. Why might this conformation of propanal be the best? And why would 3-hydroxypropanal be starkly different?

In propanal, this conformation staggers the O atom between the to Hs, anti to methyl. In the other molecule, this conformation allows for the formation of an intramolecular H-bond. Side view:



Question Four

