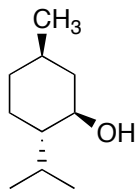
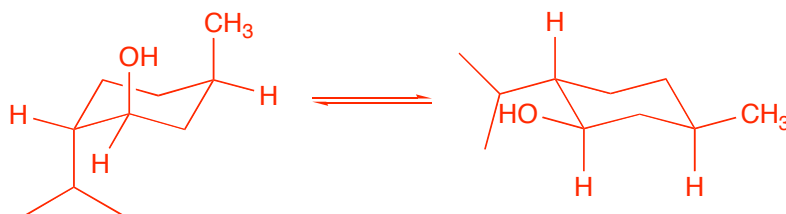


1. The two-dimensional structure of menthol is shown below.

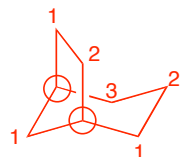


Carefully draw the two chair conformations of menthol, and indicate which one is more stable and why.



The second conformation is most stable because all groups are equatorial and there are no unfavorable diaxial interactions.

2. Give an IUPAC name for this molecule:



bicyclo[3.2.1]octane