

**Draw the most stable cyclohexane chair conformation?**

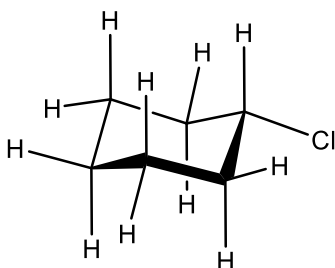
a) chlorocyclohexane

b) cyclohexanol

The most stable chair conformation of a monosubstituted cyclohexane is the one in which the substituent is in the equatorial position, as opposed to the axial position. This is because the axial position is less stable due to steric hindrance and unfavorable 1,3-diaxial interactions.

Placing the substituent in the equatorial position maximizes the distance between it and the other axial substituents, thereby minimizing steric interactions. This results in a more stable conformation.

a) chlorocyclohexane



b) cyclohexanol

