

6.33 The conformational behaviors of *meso*-(2*R*, 3*S*)-2,3-dichlorobutane and the racemic 2,3-dichlorobutane have been studied in detail.

In one case, the equilibrium ratio of the three staggered conformations is 98:1:1, with the highest barrier to rotation (activation energy) equal to 12.5 kcal/mol. In the other case, the equilibrium ratio of the three staggered conformations is 62:37:1, with the highest barrier to rotation (activation energy) equal to 9.5 kcal/mol.

not 5.5