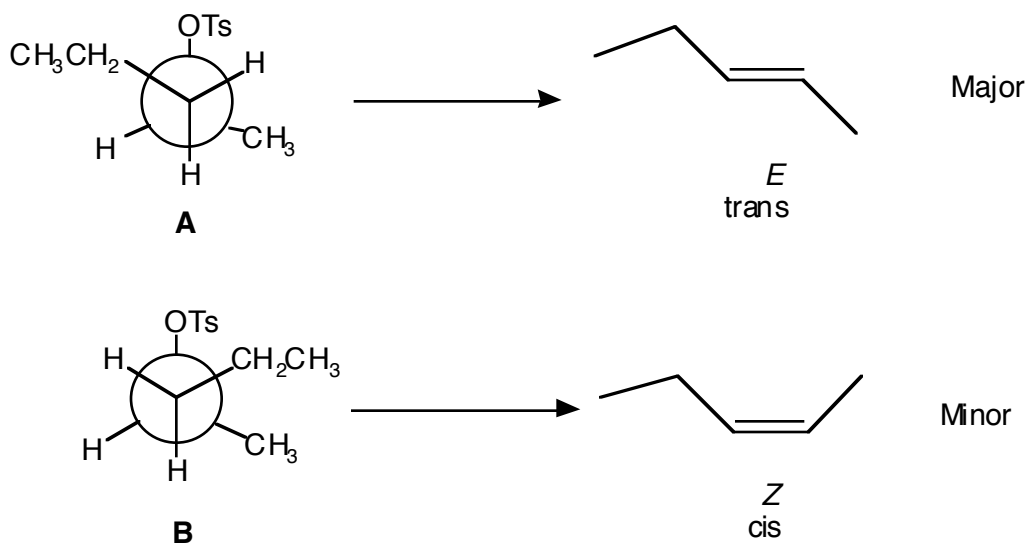
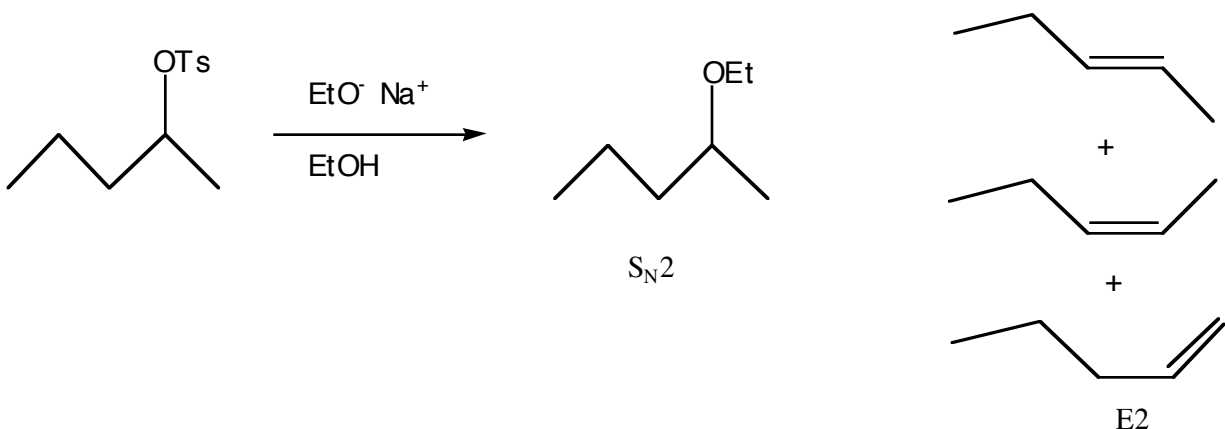


Answers to Problem 61, Chemistry 301X - 2006



There are two unfavorable gauche interactions in the conformation **B** and only one in the conformation **A**. Therefore, the formation of the *E* isomer is favored.

Of course, 1-pentene will be a minor isomer, as the transition state leading to it will contain a partial monosubstituted double bond, not a partial disubstituted double bond as in the transition states leading to both isomers of 2-pentene.