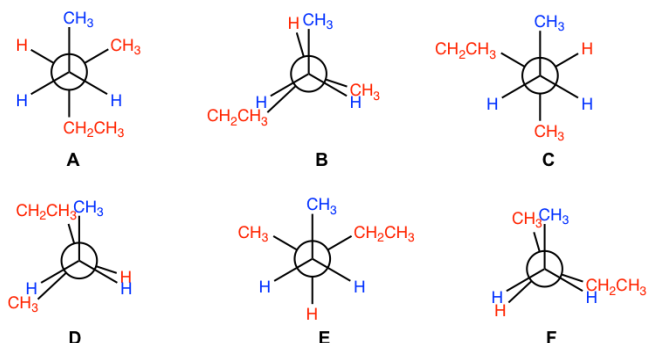


4.5: Answers to Practice Questions Chapter 4

4.1 Solutions included in the section.

4.2 Draw all conformers for 3-methylpentane by viewing along C2-C3 bond, and order them from the most stable to least stable.



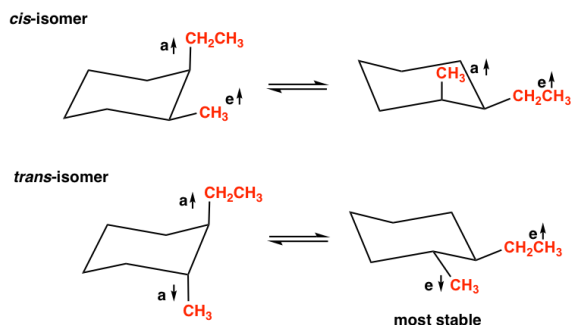
stability: A > C > E > B > F > D

most stable

least stable

4.3 Determine which is the more stable isomer, *cis*-1-ethyl-2-methylcyclohexane or *trans*-1-ethyl-2-methylcyclohexane?

The *trans*-isomer has the most stable conformer with both substituents are at equatorial positions, therefore *trans*-isomer is the more stable one.



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