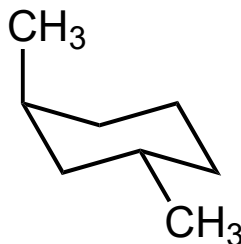
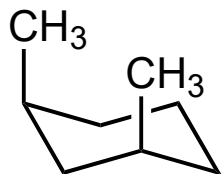


Which isomer is more thermodynamically stable (*i.e.*, has a lower heat of combustion), *cis* or *trans* 1,3-dimethylcyclohexane?



- A) The *cis* isomer is more stable, because it has more 1,3-diaxial interactions.
- B) The *trans* isomer is more stable, because the methyl groups are farther apart.
- C) The *cis* isomer is more stable, because both methyl groups can be in equatorial positions.
- D) The *trans* isomer is more stable because, *trans* has less steric strain.