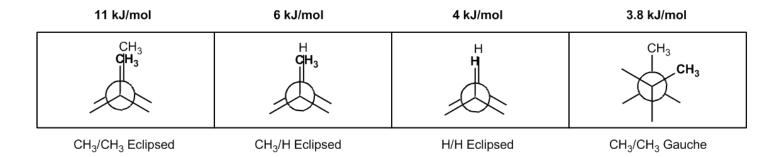
CONCEPT: CALCULATING CONFORMATIONAL ENERGY

- ☐ Sometimes we'll be asked to calculate the energy barrier (kJ/mol) of rotation or of a specific interaction.
 - Barrier to rotation can be calculated by memorizing other known values.



EXAMPLE: The barrier to rotation for the following molecule is 22 kJ/mol . Determine the energy cost associated with the eclipsing interaction between a bromine and hydrogen atom.

PRACTICE: The barrier to rotation for 1,2-dibromopropane along the C1—C2 bond is 28 kJ/mol. Determine the energy cost associated with the eclipsing dibromine interaction.