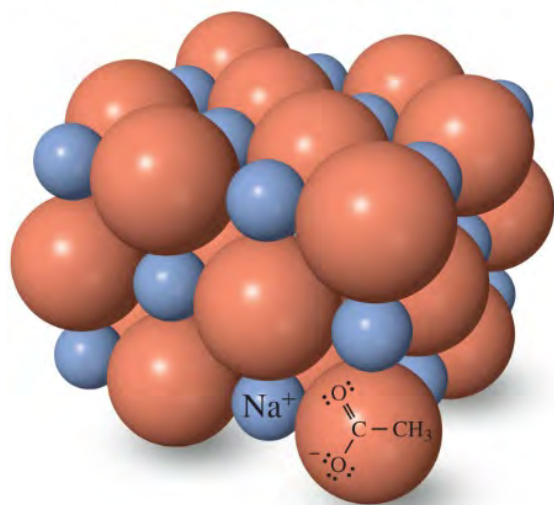


- Chapter 2 -
Lecture Presentation

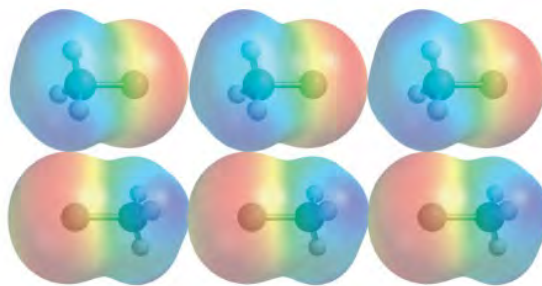
Figure 2-6

Ion–Ion Interactions: Full Charges



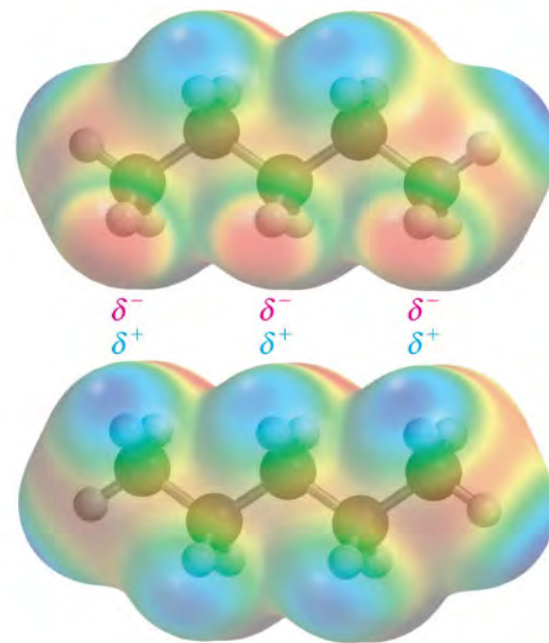
A

**Dipole–Dipole Interactions:
Partial Charges**



B

**London Forces: Unsymmetrical
Charge Distribution**



C

Figure 2-5

The physical constants of alkanes follow predictable trends:

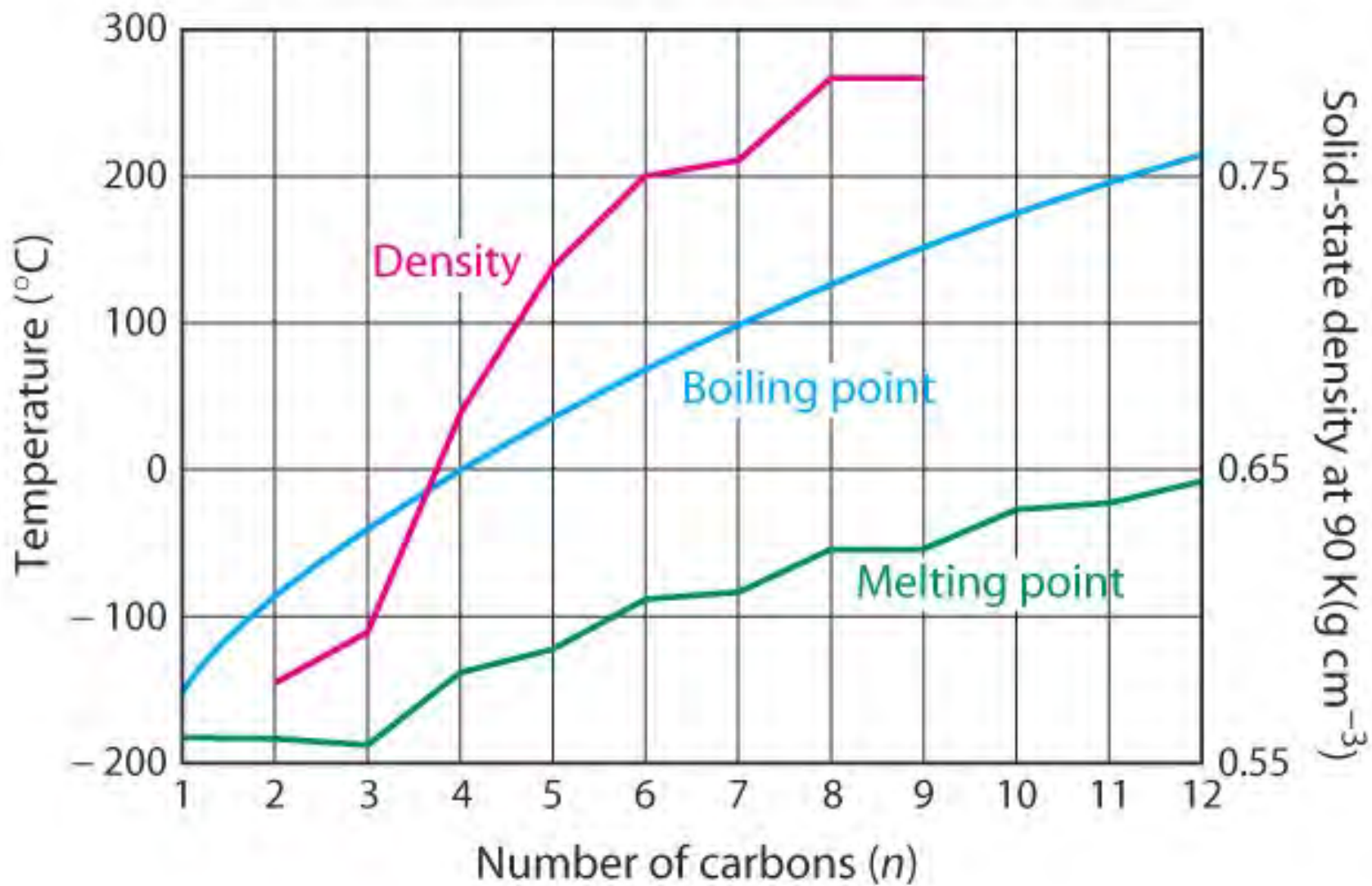
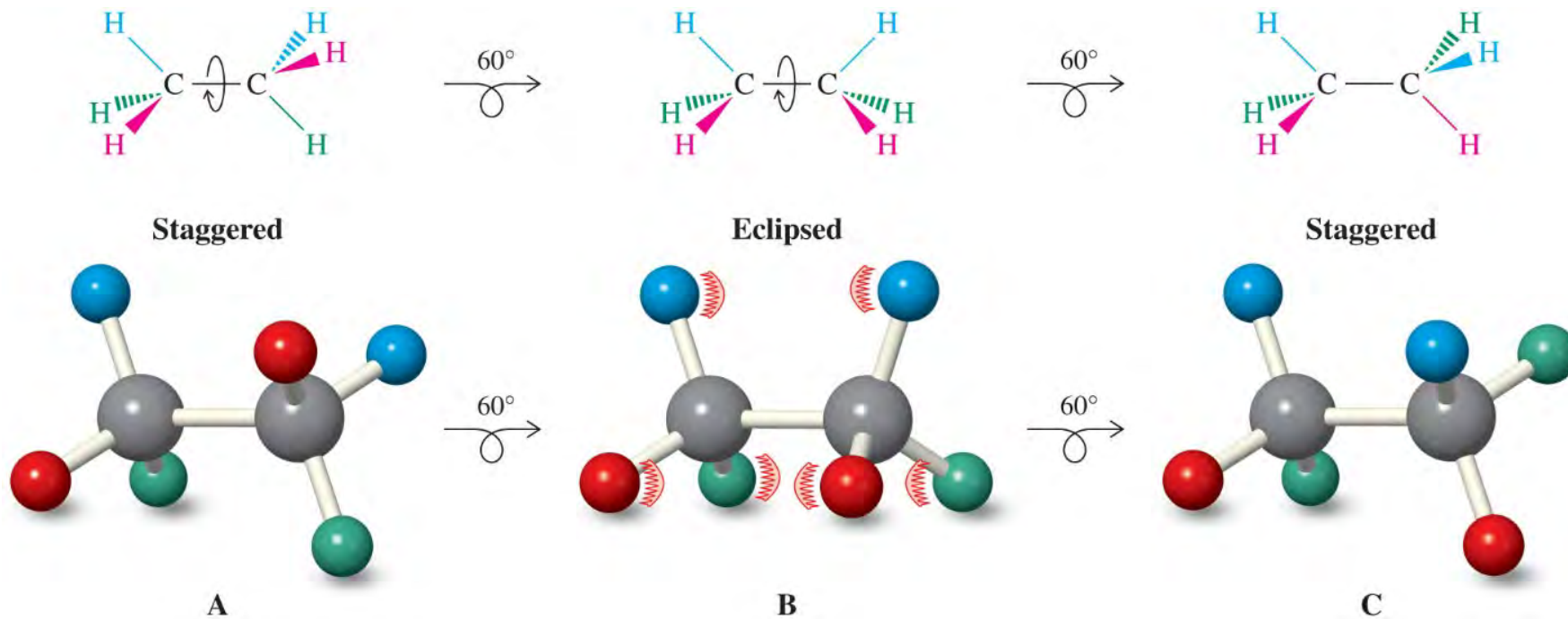


Figure 2-7



Newman projections depict the conformations of ethane.

The Newman projection is an alternative to using the dashed/wedged notation:

Figure 2-8

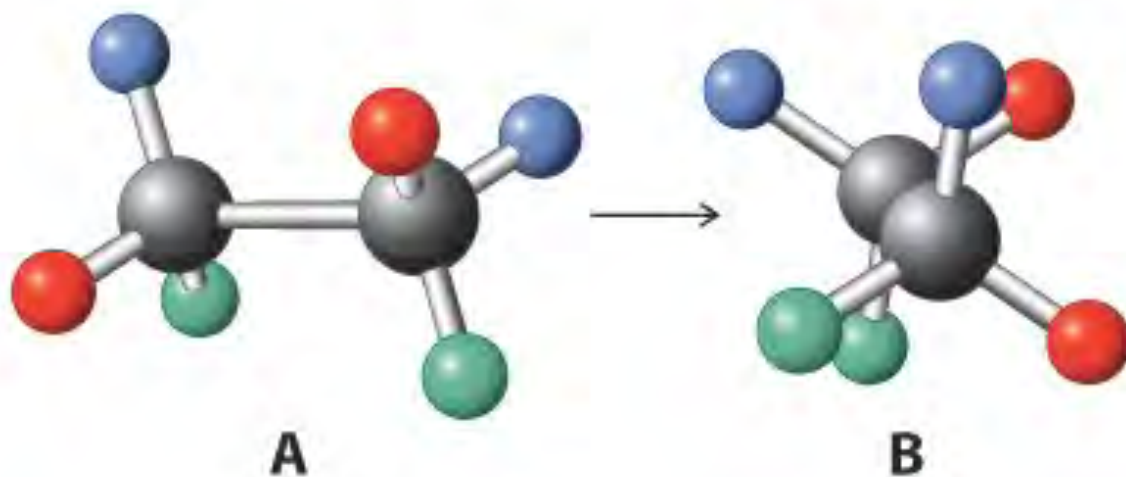
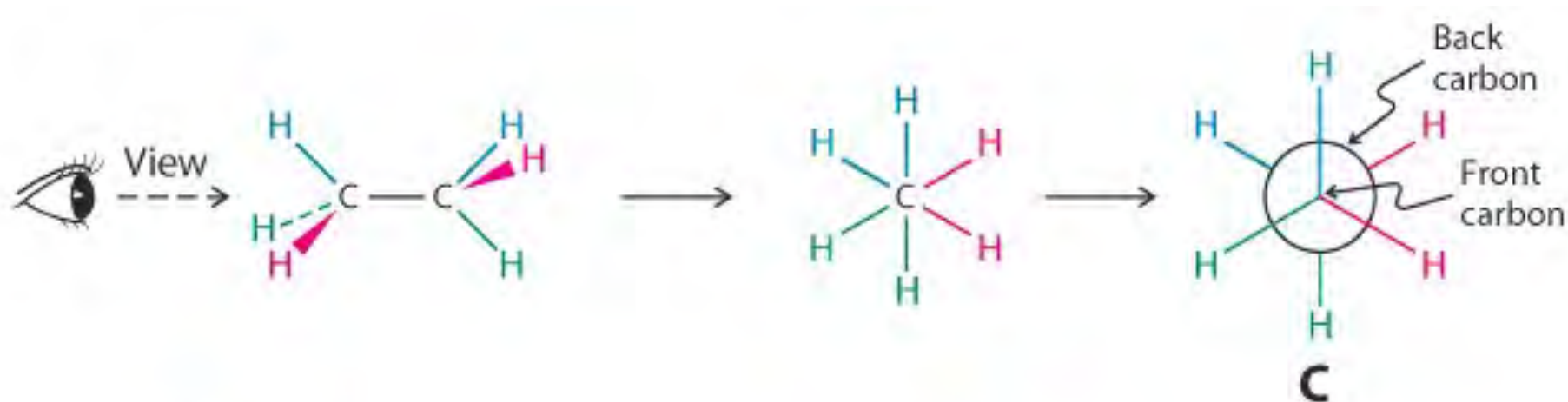


Figure 2-9

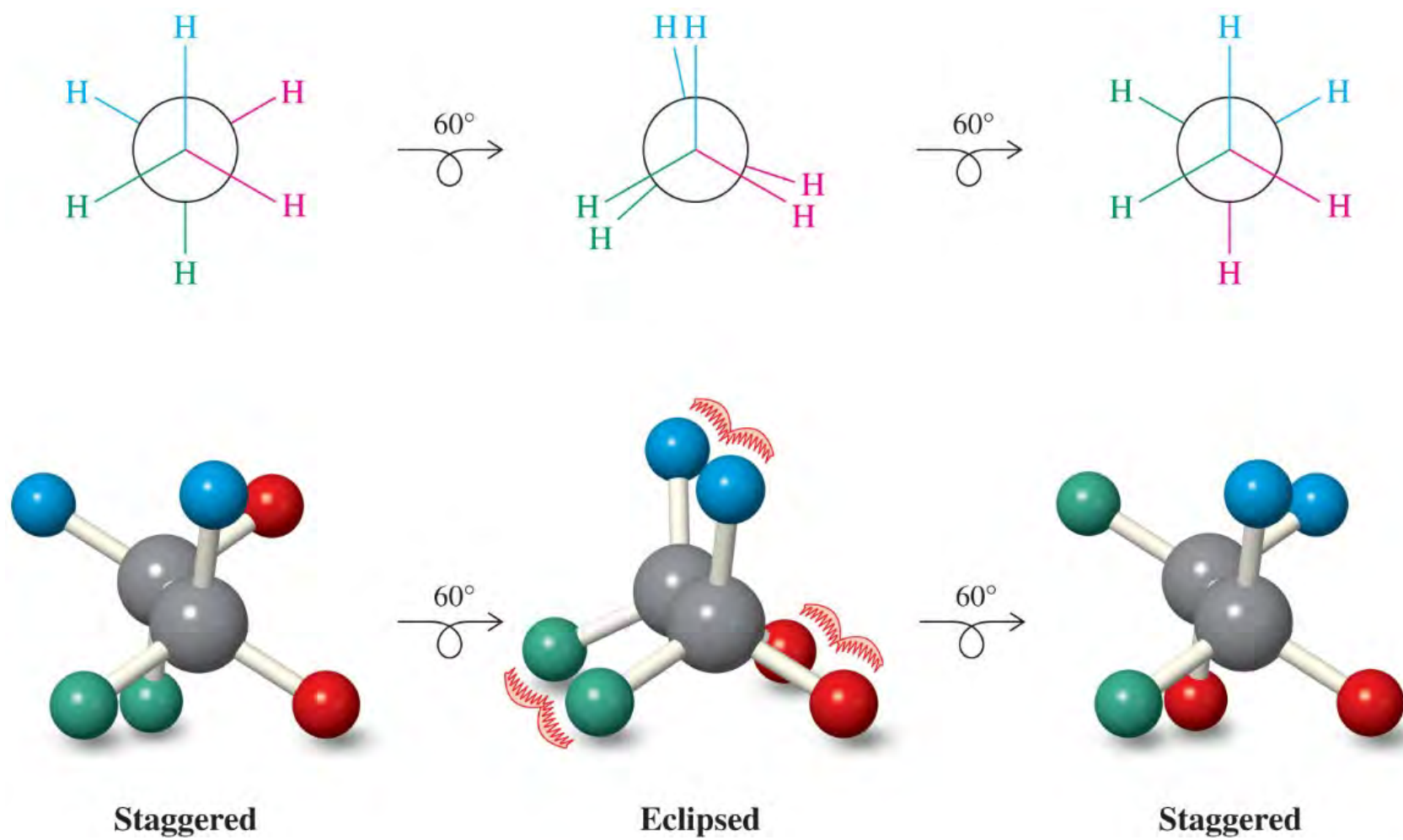


Figure 2-10

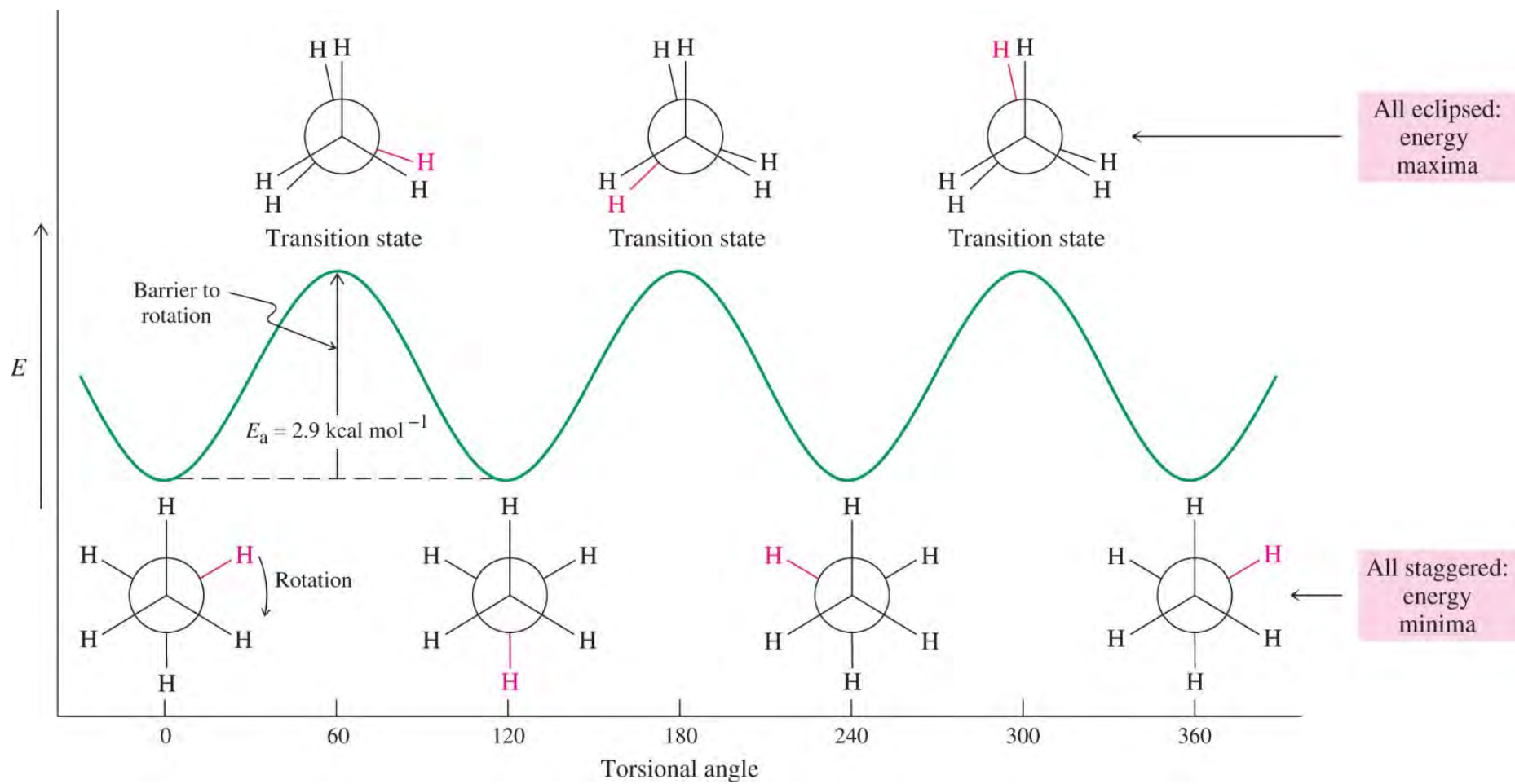


Figure 2-11. Potential energy diagram of rotation around C-C bond in propane.

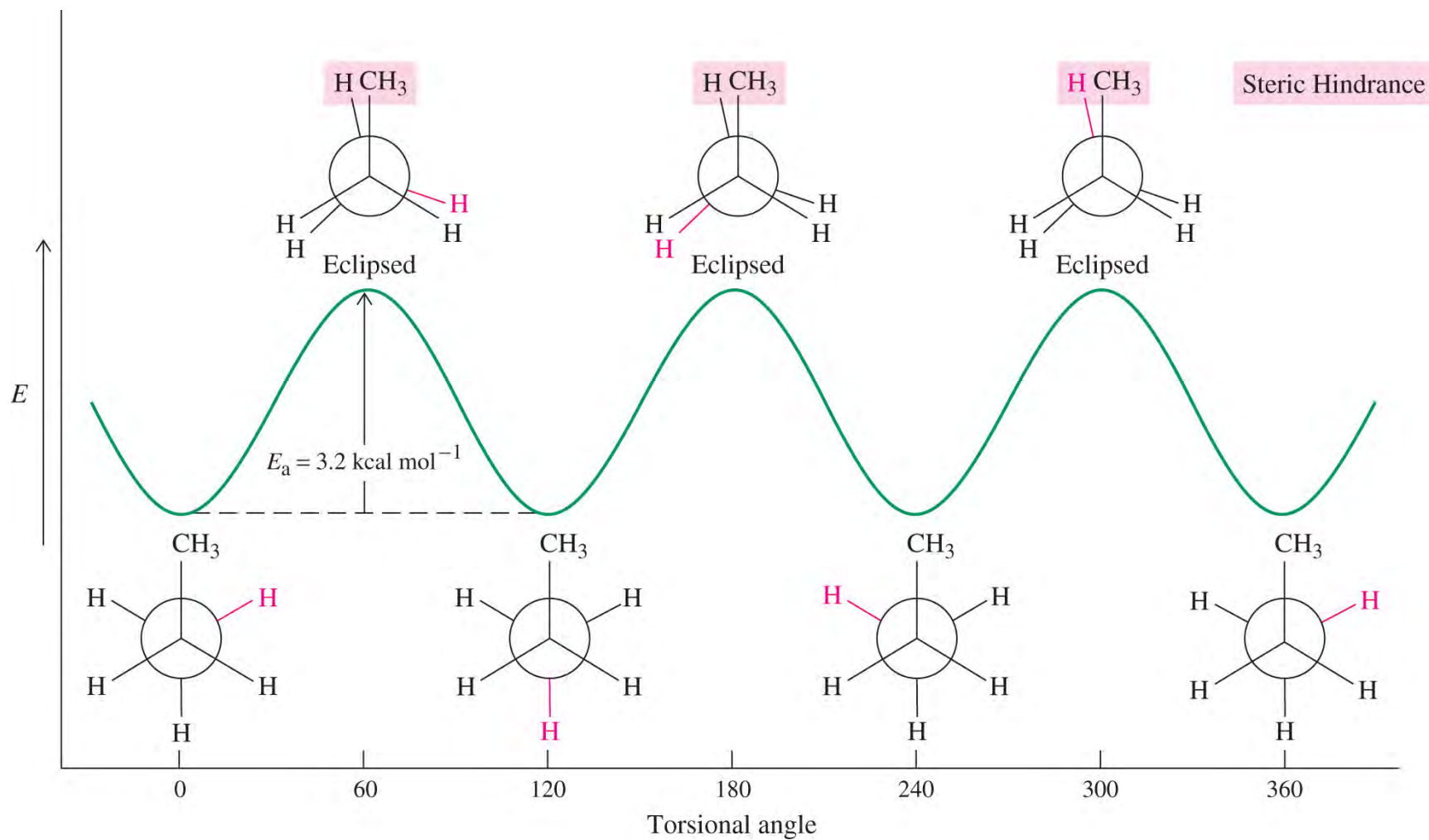


Figure 2-12. Conformations of butane.

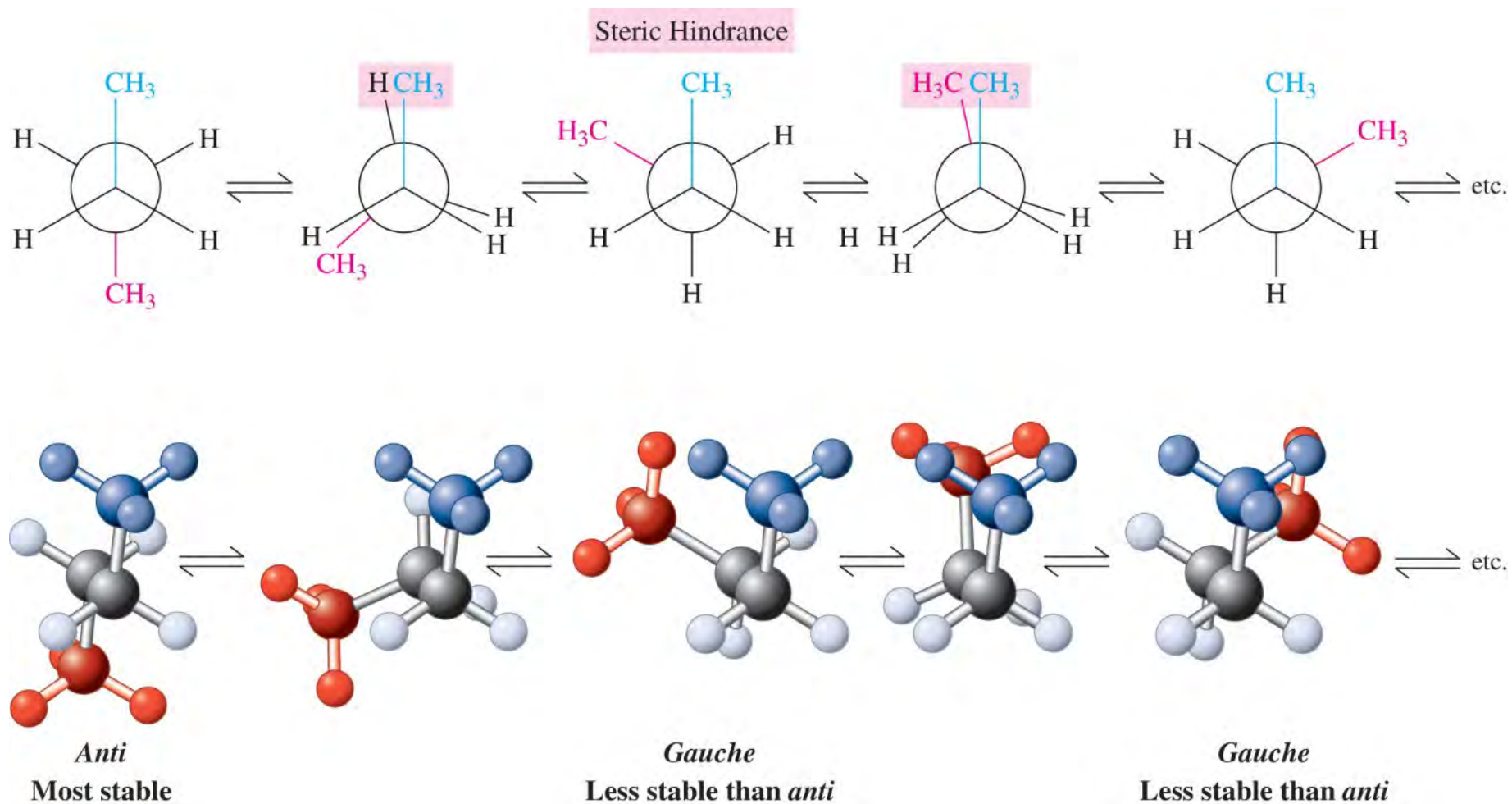


Figure 2-13. Potential energy diagram of rotation around C2-C3 bond in butane.

