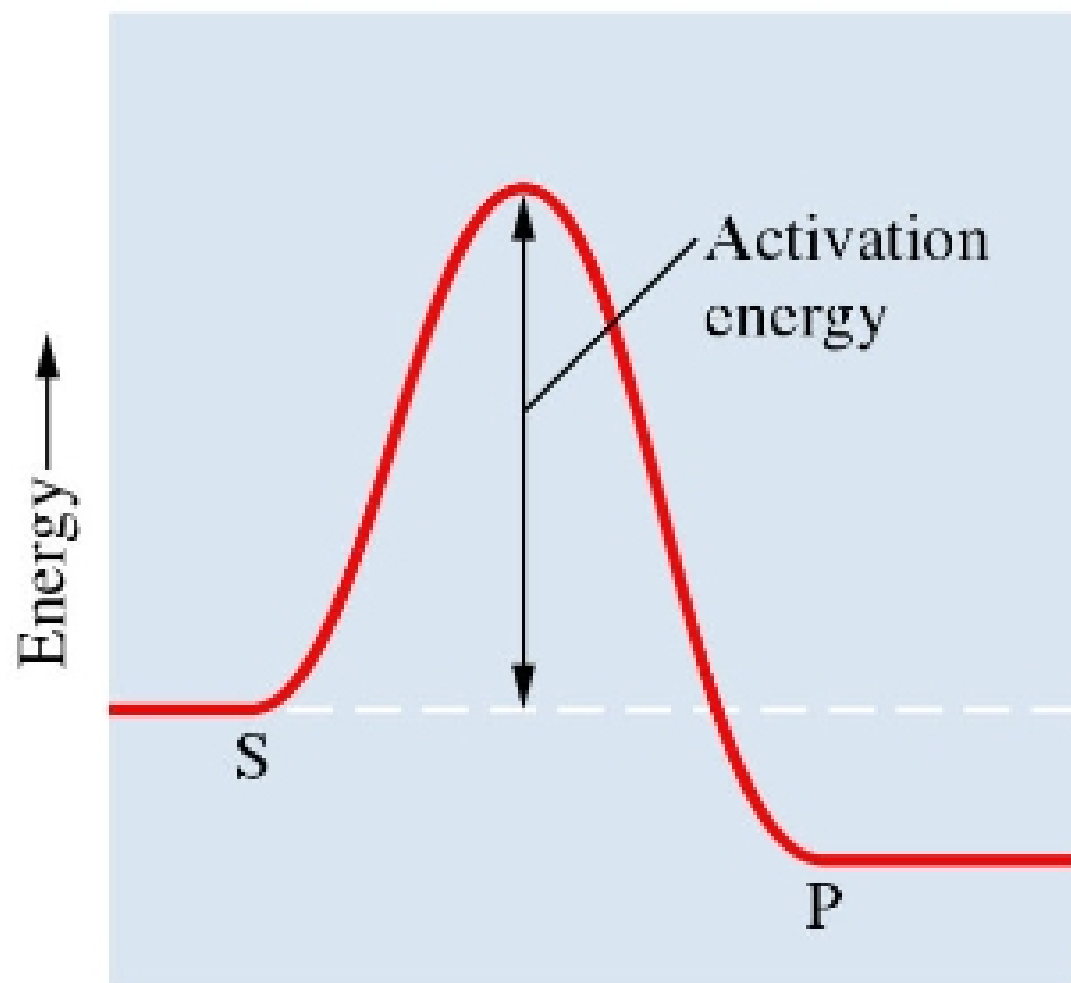


Enzyme Catalysis

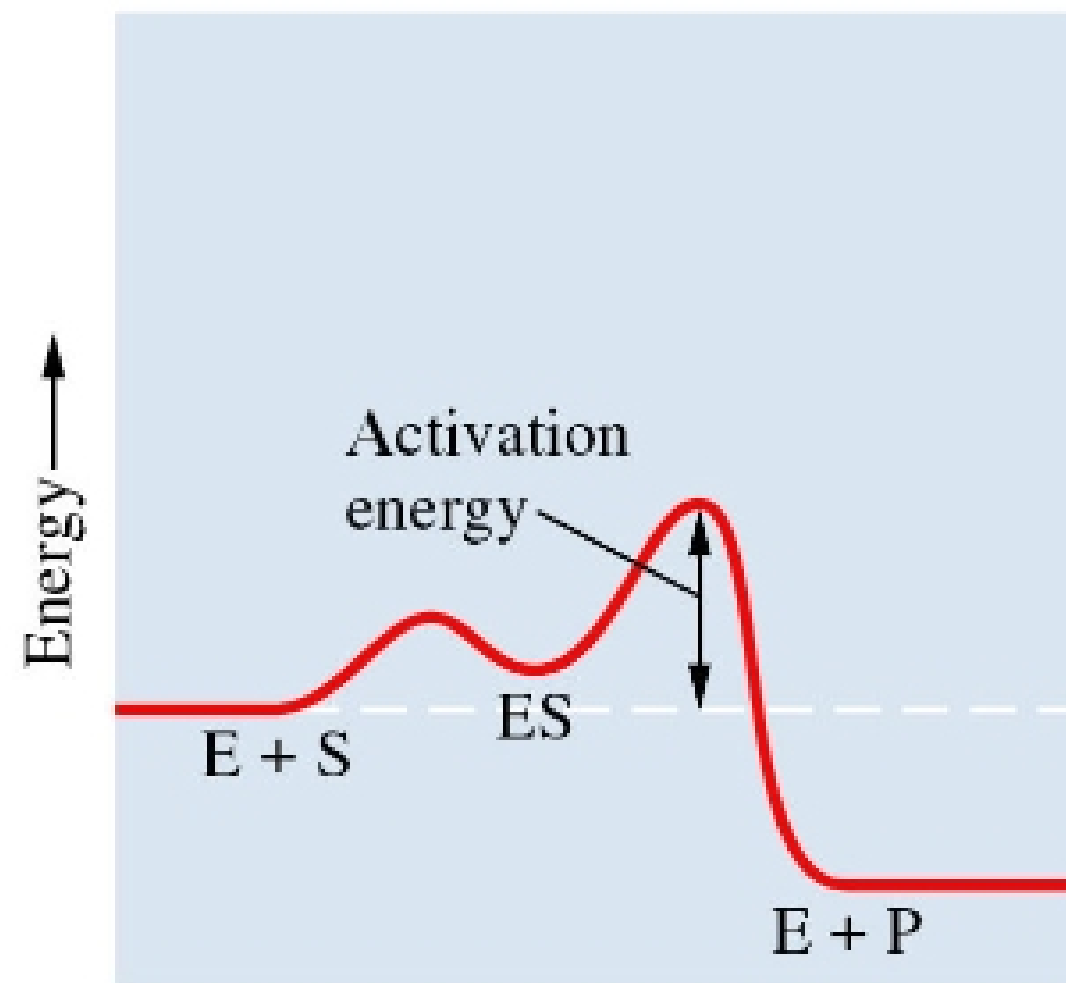
- **Enzymes have enormous catalytic activity.**
 - The substance whose reaction the enzyme catalyzes is called the substrate.
(see Figure 14.21)
 - Figure 14.22 illustrates the reduction in activation energy resulting from the formation of an enzyme-substrate complex.

Figure 14.22: Potential-energy curves for the reaction of substrate, S, to products, P.



Progress of reaction →

A



Progress of reaction →

B

Figure 14.17: Comparison of activation energies in the uncatalyzed and catalyzed decompositions of ozone.

