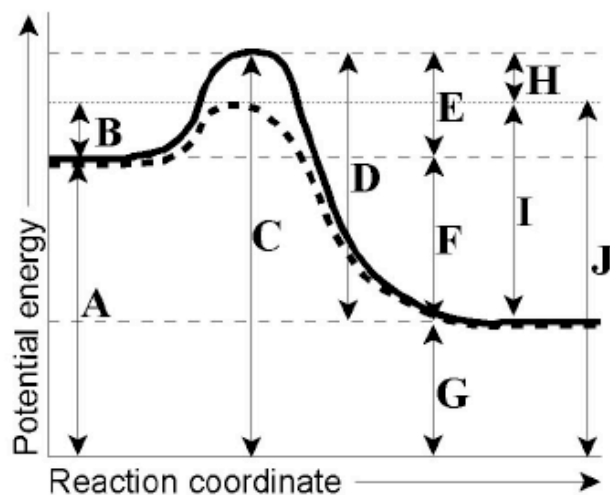


Potential Energy & Enthalpy

Video Practice Work Unit 5 - Topic 4

Potential Energy Diagram

The diagram below shows the reaction coordinate for a reversible, catalyzed and uncatalyzed reaction. Referring to the diagram, answer the questions that follow.



- _____ The reaction shown above is (a) endothermic, (b) exothermic.
- _____ Which lettered arrow represents the energy of the reactants for the forward reaction?
- _____ Which lettered arrow represents the energy of the reactants for the reverse reaction?
- _____ Which lettered arrow represents the energy of the products for the forward reaction?
- _____ Which lettered arrow represents the energy of the products for the reverse reaction?
- _____ Which lettered arrow represents ΔH for the forward catalyzed reaction?
- _____ Which lettered arrow represents ΔH for the forward uncatalyzed reaction?
- _____ Which lettered arrow represents ΔH for the reverse catalyzed reaction?
- _____ Which lettered arrow represents ΔH for the reverse uncatalyzed reaction?
- _____ Which lettered arrow represents activation energy for the forward uncatalyzed reaction?
- _____ Which lettered arrow represents activation energy for the forward catalyzed reaction?
- _____ Which lettered arrow represents activation energy for the reverse catalyzed reaction?
- _____ Which lettered arrow represents activation energy for the reverse uncatalyzed reaction?
- _____ Which lettered arrow represents energy of the activated complex for the catalyzed reaction?
- _____ Which lettered arrow represents energy of the activated complex for the uncatalyzed reaction?
- _____ Which lettered arrow represents the difference between the activation energies of the catalyzed and the uncatalyzed reactions?
- _____ Which lettered arrow represents the difference between the energies of the activated complex for the catalyzed and the uncatalyzed reactions?
- _____ The reverse reaction is (a) endothermic, (b) exothermic.