

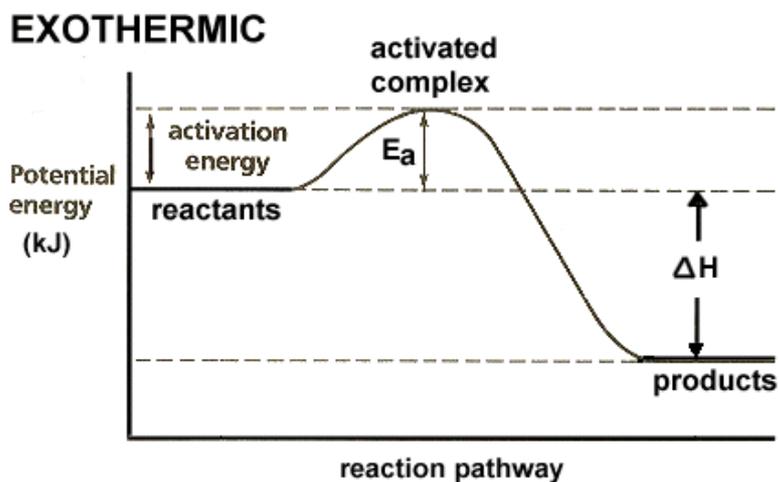
Answer on Question #45021 – Chemistry – Other

Question

Please draw out two reaction energy diagrams, one in which the reaction is exothermic, and the other in which the reaction is endothermic. What is the relative value of ΔH in each case?

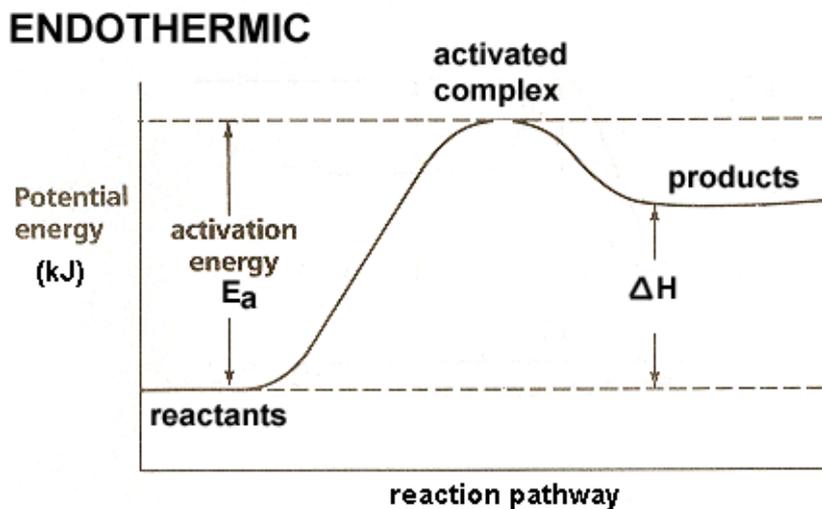
Answer

The energy diagram of exothermic reaction may be drawn as follows:



In this case potential energy of reactants is higher than that of products and energy is released, i.e. $\Delta H < 0$.

The energy diagram of exothermic reaction may be drawn as follows:



In this case potential energy of reactants is lower than that of products and energy is consumed, i.e. $\Delta H > 0$.