

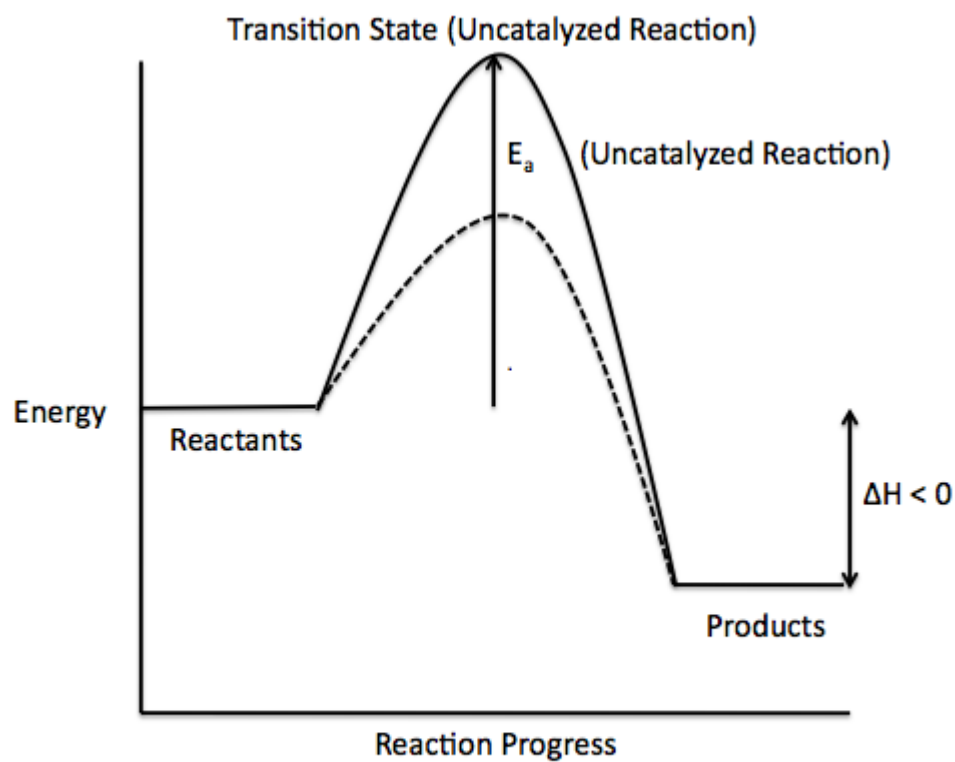
Non Sibi High School

Andover's Chem 250: Introductory/Basic Chemistry

Chapter 18, Review Quiz 1 Answers

1

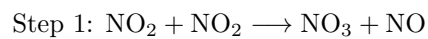
Sketch a completely-labeled reaction energy profile (reaction progress diagram) for an exothermic reaction. Indicate any effects a catalyst would have the sketch.



----- = effect of catalyst (lowers transition state and E_a ,
no change in reactants/products and ΔH)

2

The following mechanism has been proposed for a reaction:



Identify the intermediate and write the overall balanced equation for the reaction.

NO_3 is formed in the first step but then consumed in the second step, so NO_3 is the intermediate that cancels out of the overall balanced equation $\text{NO}_2 + \text{CO} \longrightarrow \text{NO} + \text{CO}_2$.



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