

Quiz 4 – Potential Energy Diagrams

1. The addition of a catalyst to a reaction provides an alternative mechanism with

- A. Lower activation energy and lower reaction rate
- B. Lower activation energy and higher reaction rate**
- C. Higher activation energy and lower reaction rate
- D. Higher activation energy and higher reaction rate

2. Consider the following Reaction



The correct equation including the heat term is

- A. $\text{N}_{2(g)} + \text{O}_{2(g)} + 90 \text{ kJ} \longrightarrow 2\text{NO}_{(g)}$
- B. $\text{N}_{2(g)} + \text{O}_{2(g)} + 180 \text{ kJ} \longrightarrow 2\text{NO}_{(g)}$**
- C. $\text{N}_{2(g)} + \text{O}_{2(g)} \longrightarrow 2\text{NO}_{(g)} + 90 \text{ kJ}$
- D. $\text{N}_{2(g)} + \text{O}_{2(g)} \longrightarrow 2\text{NO}_{(g)} + 180 \text{ kJ}$

3. A forward reaction has an activation energy of 50 kJ and a ΔH of -100 kJ .
The PE diagram, which describes this reaction, is

A.

4. Consider the following potential energy diagram

The Activation energy for the forward reaction is

- A. 25 kJ
- B. 50 kJ
- C. 75 kJ**
- D. 125 kJ

5. Consider the following reaction



Multiple Choice Questions Energy Diagrams

Georgios Tsaparis

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Multiple Choice Questions Energy Diagrams**

In a world inundated with displays and the cacophony of quick connection, the profound energy and mental resonance of verbal beauty usually disappear into obscurity, eclipsed by the continuous assault of noise and distractions. However, nestled within the musical pages of **Multiple Choice Questions Energy Diagrams**, a fascinating work of fictional beauty that pulses with fresh feelings, lies an remarkable journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this interesting opus instructions readers on a mental odyssey, softly exposing the latent possible and profound influence stuck within the complex web of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is main styles, dissect their interesting publishing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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