

Quizlet

NAME _____

5 Written questions

1. Le Chatelier's Principle states that if a chemical system at equilibrium is stressed,

2. A ___ speeds up a reaction by lowering the activation energy.

3. $\text{H}_2 + 2 \text{C} + \text{N}_2 + 270.3 \text{ kJ} \rightarrow 2 \text{HCN}$

Is this reaction endo or exo?

4. Exothermic reactions are reactions that..

5. What kind of reaction is this? (Graph)

5 Matching questions

1. ____ Left

2. ____ Exo

3. ____ Slow

4. ____ Heat

5. ____ Right

A. When activation energy is high, is the reaction slow or fast?

B. $\text{A(g)} + \text{B(aq)} \leftrightarrow \text{C(s)} + \text{D(s)}$

$\Delta H_{\text{rxn}} = 240 \text{ kJ/mol}$

If the temp is increased then the reaction shifts to the ____.

C. $\text{H}_2 + \text{Cl}_2 \rightarrow 2 \text{HCl} + 1845 \text{ kJ}$

Is the reaction endo or exo?

D. $\text{A(g)} + \text{B(aq)} \leftrightarrow \text{C(s)}$

$\Delta H_{\text{rxn}} = -453 \text{ kJ/mol}$

If the B is decreased then the reaction will shift to the ____.

E. Energy that transfers due to a difference in temp.

5 Multiple choice questions

1. Compared to the potential energy of the products, the potential energy of the reactants above is? (Graph)

A. Greater than

B. Thermochemistry

C. Specific heat

D. Endothermic