October 14, 2017 5:44 PM



Draw a graph to show how forward and reverse rates change throughout the process:

A[HIg] when Higg was added.

When a quantity of reactant or product is added to an equilibrium system, the system will shift to remove some of the added chemical. When a quantity of reactant or product is removed from an equilibrium system, the

When a quantity of reactant or product is removed from an equilibrium system, the system will shift to replace *some* of the removed chemical.

An equilibrium system is a reacting system that is at or approaching equilibrium. When we change the concentration of a reactant or a product, we "stress" the equilibrium system by temporarily destroying the equilibrium condition. When a system responds by changing some reactants into products, the response is referred to as a "shift right" because the products are on the right side of a chemical equation. When a system responds by changing some products into reactants, the response is called a "shift left."

Sample Problem 2.2.1(a) — Predicting How an Equilibrium System Will Respond to the

Draw a graph to show how forward and reverse rates change throughout the process:

happens from your understanding of the principle



Unit 2 - Dynamic Equilibrium Page 2

Fulltime

LeChatelier's Principle: What was the initial change? decrease in [HD13] "reactant" What was the 'counteraction? Shift LEFT to favor reactants to Shift temporarily produce more H1(3) (to 7FWD) Why was it a 'new' equilibrium? The new rates are slightly lower, but equal Note: The 'counteraction' is always the... Shift that is the result of the initial stress / disturbance. Conclusion: Increasing the concentration of a substance causes a shift to the

conclusion: Increasing the concentration of a substance causes a shift to the opposite side. Decreasing the concentration of a substance causes a shift to the same side.