

Experiment 12A Investigating Chemical Equilibrium

Analysis of Results:

1) If the molar concentration of NaOH is increased, the number of drops required for the colour change will decrease. A stronger concentration can have a more significant impact on the solution.

2) When the reagent 1.0 M of NaOH was added to the iron(III) thiocyanate equilibrium system, the solution's color changed from orange to yellow and the equilibrium shifted to the left. According to Le Chatelier's principle, when a change is applied to an equilibrium system, the system will counter that change to maintain a new equilibrium. In this case, the 1.0 M of NaOH reacts with the system to reduce the amount of Fe^{3+} present in the solution. This causes the product to break down and create more Fe^{3+} so a new equilibrium is created.

3) If hydrated cobalt (II) ion complex is placed in a refrigerator, the colour will probably turn purple red-ish.

4) The forward reaction is endothermic, because endothermic reactions absorb/take in heat from their surroundings. As we add heat to the reactant side, it starts to have a higher enthalpy compared to the products. The forward reaction rate is also increased when heat is added to the system.

5) NaCl will create additional Cl to the system, meaning that the equilibrium system will shift from high to low. The equilibrium will shift right to the product side.



7) According to Le Chatelier's Principle, when changes occur to a reaction, there will be a counter-act that counters the change to the system. In Part IV, steps 1 to 4, when H^+ are added to the system, the reaction will shift from high to low. $\text{K}_2\text{CrO}_4^{2-}$ with addition H^+ will shift the equilibrium as the colour change from yellow to orange. For $\text{K}_2\text{Cr}_2\text{O}_7^{2-}$ with addition OH^- the equilibrium will shift, and the colour will change from orange to yellow.

8) BaCrO_4 is insoluble. BaCr_2O_7 is soluble.

9) In step 7, there was additional H^+ ions placed in the system before the system reacts with $\text{Ba}(\text{NO}_3)_2$. The H^+ ions shift the system even further away from equilibrium, resulting in no colour changes. Therefore, no precipitate is formed in $\text{K}_2\text{Cr}_2\text{O}_7$ in step 7.

Conclusion:

This lab helps the group to further understand the concept of equilibrium. To confirm Le Chatelier's principles, the group conducted a series of experiments. In part 1, the group observed the effect of altering the pH concentrations in a equilibrium system. By raising or lowering the pH of the equilibrium system, the Thymol Blue in the solution changes color from yellow to blue. This shows the physical shift of the equilibrium as it counters the pH change. In part 2, the group discovers the effect of adding a reagent that, although is not in the equilibrium

Investigating Chemical Equilibrium Lab 12a

Lei Huang



Investigating Chemical Equilibrium Lab 12a:

Investigating Chemical Equilibrium Lab 12a: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. Investigating Chemical Equilibrium Lab 12a : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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