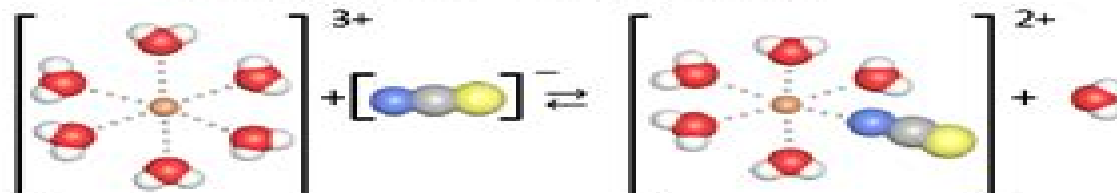


Determining an Equilibrium Constant

Introduction

The equilibrium relationship we are studying in this lab is the aqueous reaction between iron(III) and the thiocyanate ion. The net ionic equation and chemistry are:



The equilibrium constant expression is:

$$K_C = \frac{[\text{Fe}(\text{SCN})^{2+}]}{[\text{Fe}^{3+}][\text{SCN}^{-}]} \quad (2)$$

This experiment uses a Spec-200 spectrophotometer to measure the molar concentration of $[\text{Fe}(\text{SCN})]^{2+}_{(aq)}$, and the instrument needs to be calibrated before data collection. You will use your Spec-200 instrument to measure absorption data for a series of solutions of known $[\text{Fe}(\text{SCN})]^{2+}_{(aq)}$ concentration. This should give you a linear plot of the absorbance with respect to the $[\text{Fe}(\text{SCN})]^{2+}_{(aq)}$ concentration in accord with Beer's Law. An explanation of spectrophotometry and Beer's law is included in this lab as Appendix 1.

The solutions of known $[\text{Fe}(\text{SCN})]^{2+}_{(aq)}$ concentration provided to you are prepared using Le Chatelier's principle—we put a known amount of $\text{SCN}^{-}_{(aq)}$ in solution, and then added a very large excess of $\text{Fe}^{3+}_{(aq)}$ to the solution, forcing the equilibrium to essentially favor quantitative production of $[\text{Fe}(\text{SCN})]^{2+}$.

Procedure

Calibrating the Spec-200 for $[\text{Fe}(\text{SCN})]^{2+}$.

The procedure begins by calibrating the Spec-200 instruments for λ_{max} and the absorbance as a function of $[\text{Fe}(\text{SCN})]^{2+}$ concentration. We have done this procedure before for other labs.

1. Turn on the spectrophotometer and follow the on screen commands. When the spectrophotometer has finished initializing:
 - a. Press the enter key (↵) to select "SPEC 200E Modem Interface"
 - b. With the word "Application" Highlighted press the right arrow (→) three times to select the "Scan" Application
 - c. Press the down arrow (↓) twice to highlight "Low λ ." If the value is not set to 400 adjust it using the left and right arrow keys. If it is set to 400 press the down arrow to highlight "High λ ."
 - d. Use the left and right arrow keys to adjust this value to 700
 - e. Press the down arrow once to highlight "Next" and press enter. The spectrophotometer is now ready for use.
2. The "blank" for zeroing the spec-200 instrument will be DI water. The DI water should fill at least 2/3 of the cuvette with no bubbles. Use a plastic transfer pipet.
3. Insert the blank into the spectrophotometer and press the zero button (0.00). When the instrument finishes zeroing (the screen reads 0.00) remove the cuvette.

Kc Iron Thiocyanate Lab Report

R Barnett



Kc Iron Thiocyanate Lab Report:

Kc Iron Thiocyanate Lab Report Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Kc Iron Thiocyanate Lab Report**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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Table of Contents Kc Iron Thiocyanate Lab Report

1. Understanding the eBook Kc Iron Thiocyanate Lab Report
 - The Rise of Digital Reading Kc Iron Thiocyanate Lab Report
 - Advantages of eBooks Over Traditional Books
2. Identifying Kc Iron Thiocyanate Lab Report
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Kc Iron Thiocyanate Lab Report
 - User-Friendly Interface
4. Exploring eBook Recommendations from Kc Iron Thiocyanate Lab Report
 - Personalized Recommendations
 - Kc Iron Thiocyanate Lab Report User Reviews and Ratings
 - Kc Iron Thiocyanate Lab Report and Bestseller Lists

5. Accessing Kc Iron Thiocyanate Lab Report Free and Paid eBooks
 - Kc Iron Thiocyanate Lab Report Public Domain eBooks
 - Kc Iron Thiocyanate Lab Report eBook Subscription Services
 - Kc Iron Thiocyanate Lab Report Budget-Friendly Options
6. Navigating Kc Iron Thiocyanate Lab Report eBook Formats
 - ePub, PDF, MOBI, and More
 - Kc Iron Thiocyanate Lab Report Compatibility with Devices
 - Kc Iron Thiocyanate Lab Report Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Kc Iron Thiocyanate Lab Report
 - Highlighting and Note-Taking Kc Iron Thiocyanate Lab Report
 - Interactive Elements Kc Iron Thiocyanate Lab Report
8. Staying Engaged with Kc Iron Thiocyanate Lab Report
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Kc Iron Thiocyanate Lab Report
9. Balancing eBooks and Physical Books Kc Iron Thiocyanate Lab Report
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Kc Iron Thiocyanate Lab Report
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Kc Iron Thiocyanate Lab Report
 - Setting Reading Goals Kc Iron Thiocyanate Lab Report
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Kc Iron Thiocyanate Lab Report
 - Fact-Checking eBook Content of Kc Iron Thiocyanate Lab Report
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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