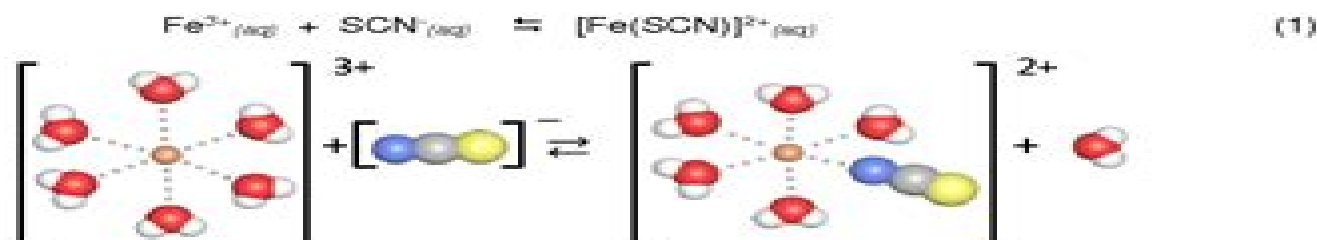


Determining an Equilibrium Constant

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 Modern 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

Great Britain. Ministry of Health



Kc Iron Thiocyanate Lab Report:

The Iron(III) Thiocyanate Reaction Kevin C. de Berg, 2019-11-13 This Brief presents an historical investigation into the reaction between ferric ions and thiocyanate ions which has been viewed in different ways throughout the last two centuries Historically the reaction was used in chemical analysis and to highlight the nature of chemical reactions the laws of chemistry models and theories of chemistry chemical nomenclature mathematics and data analysis and instrumentation which are important ingredients of what one might call the nature of chemistry Using the history of the iron III thiocyanate reaction as a basis the book's main objective is to explore how chemistry develops its own knowledge base how it assesses the reliability of that base and how some important tools of the trade have been brought to bear on a chemical reaction to achieve understanding a worthwhile goal of any historical investigation Annual Report - Brookhaven National Laboratory Brookhaven National Laboratory, 1960 Chemistry in the Laboratory Jo A. Beran, 1996 This updated and revised chemistry manual provides a well rounded understanding of concepts in the general chemistry laboratory Utilising visual aids experiments and equipment are explained and results and their pertinence discussed **Proceedings of the Royal Irish Academy**, 1927 Proceedings of the Royal Irish Academy Royal Irish Academy, 1927 Includes also Minutes of the Proceedings and Report of the President and Council for the year beginning 1965 66 called Annual report **Scientific and Technical Aerospace Reports**, 1978 **Navy-industry Zinc Symposium on Cathodic Protection** United States. Navy Department. Bureau of Ships, 1956 **Navy-industry Zinc Symposium on Cathode Protection, Zinc as a Galvanic Anode, Development, Application, and Specification, April 21-22, 1955** United States. Ships Bureau, 1957 Zinc as a Galvanic Anode, 1956 **Chemical Synergies** Nuno A.G. Bandeira, Bartosz Tylkowski, 2018-05-07 This book gives an overview of recent integrated and inter disciplinary approaches between chemical experiment and theory in a variety of fields from polymer science to materials chemistry and ranging from the design of tailored properties to catalysis and reactivity building on the well established success of Density Functional Theory as the foremost quantum chemical method to provide qualitative and quantitative interpretation of results from the chemical laboratory The combination of several characterization techniques with an understanding at the molecular level of chemical and physical phenomena are the main focal point of the subject matter **Nuclear Science Abstracts**, 1974-05 *Reports on Public Health and Medical Subjects* Great Britain. Ministry of Health, 1968 Fossil Energy Update, 1981 **Selected Water Resources Abstracts**, 1971-07 *ERDA Research Abstracts* United States. Energy Research and Development Administration, 1976 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1976 Wild Flower, 1924 *CliffsNotes AP Chemistry* Angela Woodward Spangenberg, 2016-01-12 Test prep for the AP Chemistry exam with 100% brand new content that reflects recent exam changes Addressing the major overhaul that the College Board recently made to the AP Chemistry exam this AP Chemistry test prep guide includes completely brand new content tailored to the exam

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