# IA lab work on spectrophotometric determianation of K<sub>c</sub> of the Iron(3)Thiocyanate system

Fe<sup>3+</sup>(aq) + SCN<sup>-</sup>(aq) 
$$\rightleftharpoons$$
 FeSCN<sup>2+</sup>(aq)
$$K = \frac{[FeSCN^{2+}]}{[Fe^{3+}][SCN^{-}]}$$

Since I will not change the temperature in my experiment, the equalibrium constant will stay the same, and therefore I can measure the light absorbance and use the Lambert Beer-Law to find the initial concentartion of each species in the system and then calculate the  $K_c$ .

X( initial concentration of Iron3 and Thiocyanate)=A(absorbance of Iron(3)Thiocyanate solution )/E\*I

#### Equipment:

-4 test tubes with 4 corks

-test tube rack

-10 ml pipitte with pump thing

#### Solutions:

-20 ml of Iron (3) solution

-20 ml of Thiocyanate solution

-20 ml of water H20

Samples	The amount of Thiocyanate solution SCN	The amount of water	Iron 3 solution
1	2 ml	8 ml	5 ml
2	4 ml	6 ml	5 ml
3	5 ml	5 ml	5 ml
4	9 ml	1 ml	5 ml

# **Kc Of Iron Thiocyanate Lab Report**

**ML Yell** 

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#### **Table of Contents Kc Of Iron Thiocyanate Lab Report**

- 1. Understanding the eBook Kc Of Iron Thiocyanate Lab Report
  - The Rise of Digital Reading Kc Of Iron Thiocyanate Lab Report
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Kc Of 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 Of Iron Thiocyanate Lab Report
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Kc Of Iron Thiocyanate Lab Report
  - Personalized Recommendations
  - Kc Of Iron Thiocyanate Lab Report User Reviews and Ratings
  - Kc Of Iron Thiocyanate Lab Report and Bestseller Lists
- 5. Accessing Kc Of Iron Thiocyanate Lab Report Free and Paid eBooks

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