# 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**

**R Pring** 

Kc Of Iron Thiocyanate Lab Report:

Whispering the Techniques of Language: An Mental Journey through Kc Of Iron Thiocyanate Lab Report

In a digitally-driven world where screens reign great and instant transmission drowns out the subtleties of language, the profound techniques and psychological subtleties concealed within phrases often get unheard. Yet, located within the pages of **Kc Of Iron Thiocyanate Lab Report** a fascinating literary treasure pulsing with natural thoughts, lies an extraordinary journey waiting to be undertaken. Written by an experienced wordsmith, this charming opus encourages readers on an introspective trip, lightly unraveling the veiled truths and profound influence resonating within ab muscles cloth of each and every word. Within the psychological depths with this poignant evaluation, we shall embark upon a sincere exploration of the book is core themes, dissect its interesting publishing design, and yield to the effective resonance it evokes serious within the recesses of readers hearts.

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