

SPECTROPHOTOMETRIC DETERMINATION OF AN EQUILIBRIUM CONSTANT

Lab report

Name:

ID #:

TA name:

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1. Looking at Table 5 (data sheet), how is K_c related to the initial concentrations ($[Fe^{3+}]_0$ and $[SCN^-]_0$)? Is it what you expected? (Explain briefly) (5 marks)

Looking at Table 5 in the results, it is somewhat evident that K_c is actually independent of the initial concentrations of the reactants since they are relatively consistent among the five test tubes. Furthermore, the K_c values are much more relative as opposed to the significant changes in K_c due to temperature variation which holds true because the equilibrium constant is affected by temperature.

However, looking at the data for any trends, it appears that K_c drops as the concentration of $[SCN^-]$ increases, but this should not be true. So, accounting for relative human error and limited machine capabilities, the value only fluctuated minimally from the average which was 204 (M⁻¹). Thus the results are not exactly as I had expected, but ignoring the small deviations, the results are based on Le Chatelier's Principle which states that when a chemical system in equilibrium is disturbed there will be a shift in the system to reduce the effect of that disturbance. So, by increasing $[SCN^-]$ from tube 1 to 5, there should be no change of K_c since equilibrium will shift to the right of the reaction to increase the concentration of $[FeSCN^{2+}]$ and balance out.

$$K_c = \frac{[FeSCN^{2+}]_{eq}}{[Fe^{3+}] * [SCN^-]}$$

2. To obtain $[FeSCN^{2+}]_{eq}$ in tube 5, you made the assumption that 100% of the ions SCN^- had reacted. Now that you know the value for K_c (average in table 5), build an ICE diagram to calculate the true percentage of SCN^- reacted in tube 5. Comment on the validity of the assumption. (Make sure you include the ICE diagram in your answer) (10 marks)

ICE Table

	$[Fe^{3+}]$	$+ [SCN^-]$	$\rightleftharpoons [FeSCN^{2+}]$
Initial	0.180 M	0.000199 M	0 M
Change	-x	-x	+x
Equilibrium	$(0.180 - x)$ M	$(0.000199 - x)$ M	x M

Equilibrium Constant Lab Report

RJ Alexander

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Equilibrium Constant Lab Report:

Adopting the Track of Phrase: An Emotional Symphony within **Equilibrium Constant Lab Report**

In a world taken by screens and the ceaseless chatter of instantaneous conversation, the melodic beauty and psychological symphony created by the written word usually diminish into the back ground, eclipsed by the constant noise and distractions that permeate our lives. However, located within the pages of **Equilibrium Constant Lab Report** a charming fictional value brimming with organic emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, this fascinating masterpiece conducts readers on a mental journey, well unraveling the hidden melodies and profound affect resonating within each cautiously constructed phrase. Within the depths of this moving examination, we can investigate the book is key harmonies, analyze their enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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