

Chemical Equilibrium Lab

Pre-Lab

1. What is LeChatelier's law equilibrium? (2 points)

LeChatelier's law states that if a dynamic equilibrium is disturbed by changing the conditions, the position of equilibrium moves to counteract the effect of the disturbance and to restore the original equilibrium.

2. Equilibrium constant for the reaction between cobalt(II) ions (3 points)

$Co^{2+} + 4Cl^{-} \rightleftharpoons CoCl_4^{2-}$
 $K_c = \frac{[CoCl_4^{2-}]}{[Co^{2+}][Cl^{-}]^4}$

Lab Part: Follow the following

1. Water will be transferred from and distributed thermodynamically systems. Record the following experimental information for part 1. (10 points)

Table 1: Information of transfer											
	m	M	V	ρ							
ρ_1	100	1.47	1.8	1.25	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ρ_2	100	1.0	1.8	1.25	1.0	1.0	1.0	1.0	1.0	1.0	1.0

The graduated cylinders reported the experiment to be based on this information, answer the following questions? Note: Your answers should explain the experiment. Show and document your work. (10 points each)

1. In complete sentence, explain what the volume of water in graduated cylinder A represents at the beginning of the experiment. Does it represent the reactant? The product? (something else)?

The volume of water in graduated cylinder A represents the reactant, which is Co^{2+} .

2. In complete sentence, explain what the volume of water in graduated cylinder B represents at the beginning of the experiment.

The volume of water in graduated cylinder B represents the product, which is $CoCl_4^{2-}$.

3. Explain why the water in graduated cylinder B is graduated cylinder B represents the experiment.

The water in graduated cylinder B represents the product, which is $CoCl_4^{2-}$.

Chemical Equilibrium Lab Answer Key

S Ashworth



Chemical Equilibrium Lab Answer Key:

Chemical Equilibrium Lab Answer Key Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Chemical Equilibrium Lab Answer Key**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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