

## Lab 12 A - Investigating Chemical Equilibrium

**Purpose:** The purpose of this lab is to observe and record the shifts in equilibrium caused by changes in concentration and temperature.

**Chemical:**

Part 1: Equilibrium involving Chromium(VI) Ions:

Table 1

Initial Color of Chromium(VI) Ions: Light Blue			
Reagent added	Observation	Color change and no. of drops required	Direction of Equilibrium shift
HCl (step 1)	no	no	products
Sodium OH (step 2)	no	yellow (2)	products
Sodium (step 3)	Color	blue (20)	reactants
Sodium Sulfate (step 4)	Color	blue (24)	reactants

Part 2: Equilibrium involving Cobalt (II) Chloride

Table 2

Color of $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$		Color of $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$	
Step 1 (water added)	Light Purple	Step 2 (water added)	Light Purple
Step 3 (concentrated)	no	Step 4 (water)	products
Step 5 (concentrated)	Color	Step 6 (concentrated)	reactants

Part 3: Equilibrium involving Chromate and Dichromate ions

Table 3

Step 1: 0.1 and 0.1	Initial Color	0.1 M $\text{H}_2\text{SO}_4$	0.1 M $\text{NaOH}$
	no	yellow	orange
Step 2	0.1 M $\text{H}_2\text{SO}_4$	yellow	orange
	0.1 M $\text{NaOH}$	orange	yellow

# Investigating Chemical Equilibrium Lab Report

**SJ Ball**



## **Investigating Chemical Equilibrium Lab Report:**

## **Investigating Chemical Equilibrium Lab Report** Book Review: Unveiling the Magic of Language

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

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