

Lab 13 A - Investigating Chemical Equilibrium

Purpose: The purpose of this lab is to observe and describe the ability to equilibrium caused by changes of concentration and temperature.

Data Tables:

Part 1: Equilibrium Involving Bromine Water

Table 1

Reagent added	Observation	Color change and no. of drops removed	Direction of Equilibrium Shift
0.1M FeCl ₃ (aq)	Orange	Green (2)	products
More 0.1M FeCl ₃ (aq)	Orange	Yellow (2)	products
More 0.1M FeCl ₃ (aq)	Orange	Green (2)	reactants
More 0.1M FeCl ₃ (aq)	Orange	Blue (2)	reactants

Table 2

Color of FeCl ₃ (aq)	Light Purple	Color of FeCl ₃ (aq)	Red
Step 1 (control added)	None	None	None
Step 2 (heat added)	None	Orange Purple	products
Step 3 (cooling)	None	Light red - purple	reactants

Table 3

Step 1, 2, and 3	Initial Color	0.1M FeCl ₃ (aq)	0.1M KSCN (aq)
Step 1	None	None	Orange
Step 2	None	0.1M FeCl ₃ (aq)	Orange
Step 3	None	0.1M FeCl ₃ (aq)	Orange
Step 4	None	0.1M FeCl ₃ (aq)	Orange
Step 5	None	0.1M FeCl ₃ (aq)	Light Orange

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Lab Books, Ltd., location: Vancouver, Authors: Duncan Morrison and Darrell Scodellaro.

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