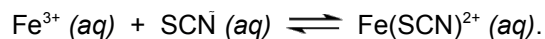


Name: _____

Section: _____

Partner's name: _____

Date _____

CHEMICAL EQUILIBRIUM I: THE EQUILIBRIUM CONSTANT DATA SHEET

Laboratory temperature: _____

Part 1 (SOLUTIONS A) : Determination of the Calibration Curve

Reactant part A	Concentrations (mol/L)
[Fe(NO ₃) ₃]	
[KSCN]	
[HNO ₃]	

Solution	V _{KSCN} , mL	[Fe(SCN) ²⁺] _{eq} , mol/L
0		
1		
2		
3		
4		

Part 2 (SOLUTIONS B): Determination of the Formation Constant for Fe(SCN)²⁺

Reactant part B	Concentrations (mol/L)
[Fe(NO ₃) ₃]	
[KSCN]	
[HNO ₃]	

Solution	Absorbance	[Fe(SCN) ²⁺] _{eq} , mol/L
1		
2		
3		

This lab data sheet must be entirely filled in ink and signed by the teacher.