

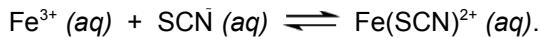
Name: \_\_\_\_\_

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 <sub>3</sub> ) <sub>3</sub> ]	
[KSCN]	
[HNO <sub>3</sub> ]	

Solution	V <sub>KSCN</sub> , mL	[Fe(SCN) <sup>2+</sup> ] <sub>eq</sub> , mol/L
0		
1		
2		
3		
4		

---

#### Part 2 (SOLUTIONS B): Determination of the Formation Constant for Fe(SCN)<sup>2+</sup>

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

Solution	Absorbance	[Fe(SCN) <sup>2+</sup> ] <sub>eq</sub> , mol/L
1		
2		
3		

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