

Results #9—FeSCN²⁺ Equilibrium

Name _____

Lab day: M T W Th F

- From week 1 (For extinction coefficient, use 3 sig figs), what extinction coefficient did you measure for FeSCN²⁺? Include units. _____
- From week 2 (use correct sig figs):

	Measured absorption	[FeSCN ²⁺] at equilibrium
Trial 1		
Trial 2		
Trial 3		

- Fill in all grey cells below with experimental details from Trials 1-3, week 2.

	Fe ³⁺	+	SCN ⁻	⇌	FeSCN ²⁺
Initial Concentration (M)					0
Change	- X		- X		+ X
Equilibrium Concentration (M)					

Initial Concentration (M)					0
Change	- X		- X		+ X
Equilibrium Concentration (M)					

Initial Concentration (M)					0
Change	- X		- X		+ X
Equilibrium Concentration (M)					

- 4) Fill in all grey cells below with calculations from Trials 1-3, week 2. Remember to keep all digits throughout your calculations, and only round at the end. Use correct sig figs for your average and standard deviation.

	K value	Equation you used to calculate K [i.e. $K = (0.002)/(0.8 \cdot 0.09)$]
Trial 1		
Trial 2		
Trial 3		
Average K		—
Standard dev of K		Standard deviation is the uncertainty in your average. It should have 1 sig fig, and your average should be rounded to the same digit.