

Entropy of Borax

Student Name:

Partner Name:

Date	Instructor Initials	Grade

Part A

Solution	[Cu ²⁺] (M)	Absorbance
Blank		
1		
2		
3		
4		
5		

Prepare a Beer's Law Plot for copper tetraamine. You will need to upload your spreadsheet to Canvas. Fit a line to the data. Report both the equation of the line and the R². How well does your data fit the line?

Part B

Absorbance of copper(II) tartrate solution =

Calculate the equilibrium concentration of copper ions in the copper(II) tartrate solution.

Calculate the K_{sp} of copper(II) titrate.

Calculate the molar solubility of copper tartrate at room temperature.

Calculate the Gibb's free energy change for the dissolution of copper(II) tartrate.