

Mini-report guidelines for the *Determination of the K of an Esterification / Hydrolysis Reaction*.

Data / Calculations/Results

- Please present all lab data collected in organized tables.
- Please show the I-C-Q tables for all three weeks, with the complete reaction and all appropriate values.
- Please show all calculation for one of the three I-C-Q tables, including the initial conditions, change and current conditions.
- Present class data with appropriate analysis (averages and standard deviations for the Q's determined for week 4 for the esterification and hydrolysis directions separately).

*Please make sure that all of the above are neat and easy to read without significant cross-outs.
Recopy if necessary.*

Discussion / Post-Lab Questions

1. Has the reaction reached equilibrium? Explain.
2. What could we have done to make the reaction reach equilibrium more quickly? Explain.
3. Would changing the amount of catalyst have caused the K for the reaction to be different? Explain.
4. Using the K (or Q) value from week 4 from your trial, calculate the equilibrium number of moles for all species if the reaction were started with 3.0 mmol of each species in the reaction.

Please answer the above questions in your report – NOT on this sheet.