LAB PARTNER

COURSE & SECTION NO.

everall reaction order = reaction order of HCI t order of Acetone

6 units of K

Example: TRIAL 4 + 1.11 x 10-3 M/S = K = M-1.5-1 (16H)(DZH)

q Answered in Discussion

DISCUSSION.

in all of the graphs, the stope, or change of absorbance over time was negative. This can be understood by the fact that absorbance is proportional to concentration, assumption that the change 6 1. a Absock e [conc.]. Geonstant

As a reaction proceeds, the concentration of reactants becomes used up into producing products, which is which the absorbance also decreases ever time (proportional to concentration). Thus, the rate of reaction which is defined by the change in concentration over time, can be calculated using the equation of average rate

of change over time. 6 where 4 15 6 42-41 absorbance or concentration, and x is time.

My K - value for two of trials (3+4) were the same, while the other two wers different, yet very clase. Drawing the line of bost fit could have been a scurio of error. We assumed that the rate is equal to the slope of the line, which was later used to calculate change. This method may not be 100% accurate, which is why k-value differed.

Furthermore, we also made the of absorbance over time is equivalent to rate, or the change of concentration over time. Although those two have a relationship of proportionality, it may not be a perfectly accurate assumption to assume they are one in the same. Also, if they do in fact have a portectly proportional relationship, errors may have resulted from the spectophetemeter, whose accuracy may not be exact-

SIGNATURE

WITNESS/TA

DATE