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Name		Section	Date	
Instructor				

EXPERIMENT 26

Lab Report

Part A – Determination of the Ionization Constant (K_a or K_b) of an Unknown Solution

Should you record the unknown number of the unknown solution?

Yes #9

Is the solution acidic or basic? How would you make this determination? Would this determination involve the use of MeasureNet? If this determination involves MeasureNet, how do you calibrate the appropriate MeasureNet probe to make the determination?

for trial I and 7.38 for trial 2. The pH was measured using Measure Net and a pH probe. The pH probe was calibrated using a buffer solution with a pH of 7.00

What are the equivalence and half equivalence points (pH and mL added) for each titration?

Eq Port for trial 1: PH=6.61 V=2.19 mL

trial 2: PH=6.59 V=1.02 mL

Eq Port for trial 1: PH=6.61 V=2.19 mL

What is the pH of the unknown solution that will be used to determine the ionization constant (Ka or Kb)?

The pH of the unknown solution that will be used to determine the ionization constant (Ka or Kb)?

What are the ionization constants determined from each titration?

What are the ionization constants determined from each titration?

PN half equivalence pant! POH= pKb: k=10-6.53 = 2.95×10-7

POH=7.25=6.75 = 10-6.75=1.78×10-7

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