

Neutralization of Antacid Tablet Prelab

Please do not give short (one or two word answers) to the questions.

ALL Answers must be written by hand directly into your lab notebooks.

1. What is the difference between K_a and K_b and what is the mathematical relationship between them?
2. What is the equation for pK_a from K_a and what does a low pK_a mean for an acid?
3. A 25.00 mL sample of an unknown diprotic weak acid is titrated to the equivalence point with 17.48 mL of 0.09475 M NaOH. Calculate the concentration of the unknown weak acid.