| Name:_ | | _ |
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Chemistry 12 ACID BASE PART II Lesson # 16 ACID-BASE TITRATIONS

Recall from Chemistry 11:

A titration is a process in which a measured amount of a solution is reacted with a volume of another solution (one of the solution has a unknown concentration) until a desired EQUIVALENCE POINT is reached (generally indicated by a colour change).

The EQUIVALENCE POINT is also known as the ______ as it is reached when the mole to mole ration is equivalent to the ration in the BALANCED EQUATION!!!

All TITRATION problems have FIVE MAIN PARAMETERS:

a. d.
b. e.

Example 1. A GENERIC TITRATION PROBLEM: In the reaction between sulphuric acid and sodium hydroxide an equivalence point is reached when 23.10 mL of 0.2055 M NaOH is added to a 25.00 mL portion of H₂SO₄. What is the [H₂SO₄]?

Experimental Note: When performing a titration in the lab it must be repeated to check for accuracy of the results. If the following volumes were collected by a student:

1st titration = 21.55 mL 2nd titration = 21.82 mL 3rd titration = 21.81 mL

The student would DISCARD the volume from the first titration and take the AVERAGE of the closest TWO values. (21.82 + 21.81) / 2 = 21.815 mL => 21.82 mL

SEATWORK/HOMEWORK: Exercises 95-107 (odd numbers) pgs 158-159

PLO's: P2-P3

C.