

**Section 18.4 Neutralization***In your textbook, read about neutralization and titration.*

For each item in Column A, write the letter of the matching item in Column B.

**Column A**

- \_\_\_\_\_ 1. A chemical dye that changes color based on the pH of a solution
- \_\_\_\_\_ 2. A method for using a neutralization reaction to determine the concentration of a solution
- \_\_\_\_\_ 3. A reaction in which an acid and a base react to produce a salt and water
- \_\_\_\_\_ 4. A solution of known concentration
- \_\_\_\_\_ 5. An ionic product of an acid-base reaction
- \_\_\_\_\_ 6. The point in a titration in which an indicator changes color
- \_\_\_\_\_ 7. The stoichiometric point of a titration

**Column B**

- a. acid-base indicator
- b. end point
- c. equivalence point
- d. neutralization
- e. salt
- f. standard solution
- g. titration

Complete the following table, indicating the formula and name of the salt formed by a neutralization reaction between the listed acid and base.

Acid	Base	Salt formula	Salt name
8. HCl	KOH	KCl	potassium chloride
9. $\text{H}_2\text{SO}_4$	$\text{Mg}(\text{OH})_2$		
10. $\text{H}_3\text{PO}_4$	NaOH		
11. $\text{HNO}_3$	$\text{Fe}(\text{OH})_3$		
12. $\text{H}_3\text{PO}_4$	$\text{Ca}(\text{OH})_2$		

In the space at the left, write 1 through 4 to show the correct sequence of the steps in performing a titration using a pH meter. Then, write 5 through 8 to sequence the steps used to calculate the concentration of the unknown solution.

**Sequence of Steps**

- \_\_\_\_\_ 13. Continue adding the standard solution to the solution of unknown concentration until the equivalence point is reached.
- \_\_\_\_\_ 14. Fill a buret with the standard solution.
- \_\_\_\_\_ 15. Start adding the standard solution slowly, with mixing, to the solution of unknown concentration, reading the pH at regular intervals.

# Solutions Manual For Chapter 11 And 12 For Content Mastery Study Guide

**Rosina Ehmann**



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