

# Neutralization Titrations

## Acid-Base Indicators



$$K_a = \frac{[\text{H}_3\text{O}^+][\text{In}^-]}{[\text{HIn}]}$$

$$[\text{H}_3\text{O}^+] = K_a \frac{[\text{HIn}]}{[\text{In}^-]}$$

- Neutralization titrations uses acid-base indicators
- An acid/base indicator is a weak organic acid or a weak organic base whose undissociated form differs from its conjugate form
- The color imparted to a solution by an indicator appears to the average observer to change rapidly only with the limited concentration ratio of approximately 10 : 0.1
- HIn exhibits its pure acid color and its base color at these ratios:

$$\frac{[\text{HIn}]}{[\text{In}^-]} \geq \frac{10}{1}$$

Pure acid color exhibited at this ratio

$$\frac{[\text{HIn}]}{[\text{In}^-]} \leq \frac{1}{10}$$

Base color exhibited at this ratio

## Calculating pH in Acid-Base Titrations

- Before the equivalence point, the solution contains both the weak acid and its conjugate base
  - The solution is acidic
  - The solution is basic
- At the equivalence point, the solution contains only the conjugate base
  - The solution is basic
  - The solution is acidic
  - The solution is neutral
- After the equivalence point, the solution contains only the weak acid
  - The solution is acidic
  - The solution is basic
  - The solution is neutral

## Example

Calculate the pH of a 0.1 M solution of acetic acid (CH<sub>3</sub>COOH) after the addition of 0.1 M sodium hydroxide (NaOH) to the solution. The acid dissociation constant (K<sub>a</sub>) for acetic acid is 1.8 × 10<sup>-5</sup>.

# Neutralization And Titration Answers

**Kenneth W. Raymond**



## **Neutralization And Titration Answers:**

**Regents Exams and Answers: Chemistry--Physical Setting Revised Edition** Barron's Educational Series, Albert Tarendash, 2021-01-05 Barron's Regents Exams and Answers Chemistry provides essential practice for students taking the Chemistry Regents including actual recently administered exams and thorough answer explanations for all questions This book features Eight actual administered Regents Chemistry exams so students can get familiar with the test Thorough explanations for all answers Self analysis charts to help identify strengths and weaknesses Test taking techniques and strategies A detailed outline of all major topics tested on this exam A glossary of important terms to know for test day

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Allowance HRA and Travel Allowance TA which significantly enhances the in hand salary 14 15 The grade pay for a Technician Grade III is 1900 Table of Contents Test Paper 1 Railway Technician Gr III 3 Test Paper 2 Railway Technician Gr III 11 Test Paper 3 Railway Technician Gr III 20 Test Paper 4 Railway Technician Gr III 29 Test Paper 5 Railway Technician Gr III 37 Test Paper 6 Railway Technician Gr III 46 Test Paper 7 Railway Technician Gr III 54 Test Paper 8 Railway Technician Gr III 62 Test Paper 9 Railway Technician Gr III 71 Test Paper 10 Railway Technician Gr III 79 Test Paper 11 Railway Technician Gr III 88 Test Paper 12 Railway Technician Gr III 96 Test Paper 13 Railway Technician Gr III 105 Test Paper 14 Railway Technician Gr III 114 Test Paper 15 Railway Technician Gr III 123 Test Paper 16 Railway Technician Gr III 132 Test Paper 17 Railway Technician Gr III 141 Test Paper 18 Railway Technician Gr III 150 Test Paper 19 Railway Technician Gr III 158 Test Paper 20 Railway Technician Gr III 167 Test Paper 21 Railway Technician Gr III 176 Test Paper 22 Railway Technician Gr III 185 **Chemistry: Concepts and Problems** Clifford C. Houk, Richard Post, 1996-03-09

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