

Acid-Base Titration Practice Problems

- 1) Calculate the pH during the titration of 40.00 mL of 0.0500 M butanoic acid, $\text{CH}_3\text{CH}_2\text{CH}_2\text{CO}_2\text{H}$, with 0.1000 M NaOH solution after the following additions of the base: a) 0.00 mL; b) 15.00 mL; c) 19.00 mL; d) 20.00 mL; e) 25.00 mL. The K_a for butanoic acid is 1.54×10^{-5} .
- 2) Calculate the pH during the titration of 25.00 mL of 0.200 M KOH with 0.100 M HClO_4 after the following additions of acid: a) 0.00 mL; b) 25.00 mL; c) 39.00 mL; d) 50.00 mL; e) 60.00 mL.
- 3) Calculate the pH when the following quantities of 0.0500 M $\text{Ba}(\text{OH})_2$ solution have been added to 25.00 mL of 0.0400 M HNO_3 solution: a) 0.00 mL; b) 5.00 mL; c) 10.00 mL; d) 20.00 mL.

Acid Base Titration Problems With Answers

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Acid Base Titration Problems With Answers:

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CliffsNotes AP Chemistry Bobrow Test Preparation Services, 2009-02-09 The book itself contains chapter length subject reviews on every subject tested on the AP Chemistry exam as well as both sample multiple choice and free response questions at each chapter s end Two full length practice tests with detailed answer explanations are included in the book

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