

Titration Calculation Practice Questions

1. Eggshells contain calcium carbonate. The following procedure was used to determine the percentage, by mass, of calcium carbonate in 1.13 g of eggshell.

Step 1 The 1.13 g of eggshell were crushed and added to 100.0 mL of 0.300 mol L⁻¹ HCl solution. Excess HCl remained after the reaction was complete.



Step 2 20.0 mL samples of the excess HCl were titrated with 0.10 mol L⁻¹ Na₂CO₃ solution.

- (a) Calculate the initial number of moles of HCl present before the reaction in Step 1.
(b) The equation for the titration reaction in Step 2 is shown below:



In one titration 8.35 mL of Na₂CO₃ was needed to neutralise the HCl in one 20.0 mL sample.

- (i) Calculate the number of moles of Na₂CO₃ needed to neutralise the HCl in Step 2.
(ii) Hence state the number of moles of HCl in the 20.0 mL sample titrated in Step 2.
(iii) Hence calculate the total number of moles of excess HCl that remained after the reaction with the eggshell in Step 1.
(c) Calculate the number of moles of HCl that reacted with the eggshell in Step 1.
(d) Calculate the mass of calcium carbonate in the 1.13 g of eggshell.
(e) Calculate the percentage mass of calcium carbonate in eggshell.

2. The following procedure was used to determine the concentration of hydrogen gas in a sample of air:

Step 1 1.0 × 10² L of air was bubbled through 0.0500 L of 0.300 mol L⁻¹ acidified K₂Cr₂O₇ solution. An equation for the reaction that occurred is shown below:



Excess Cr₂O₇²⁻ remained in the solution after the reaction.

Step 2 The excess Cr₂O₇²⁻ was titrated with 2.00 mol L⁻¹ Fe²⁺ solution. An equation for the reaction that occurred is shown below:



A titre value of 17.75 mL was obtained.

- (a) Calculate the number of moles of Cr₂O₇²⁻ present before the reaction with H₂ in Step 1.
(b) Calculate the number of moles of Fe²⁺ required to react with the Cr₂O₇²⁻ in Step 2.
(c) Hence calculate the number of moles of Cr₂O₇²⁻ left unreacted after Step 1.
(d) Hence calculate the number of moles of Cr₂O₇²⁻ that reacted with H₂ in Step 1.
(e) Calculate the number of moles of H₂ in the 1.0 × 10² L of air.
(f) Calculate the concentration, in %w/v, of hydrogen gas in the air.

Titration Questions And Answers

Michelle Gilbertson



Titration Questions And Answers:

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

Immunoematology and Transfusion Medicine Mark T. Friedman,Kamille A. West,Peyman Bizargity,Kyle Annen,Jeffrey S. Jhang,2018-08-01 The latest edition of this volume features an extensively revised and expanded collection of immunoematology and transfusion medicine cases comprised of clinical vignettes and antibody panels with questions based on each case Arranged in a workbook format the text presents cases based on real patient problems that are typically encountered and covers a number of common issues and challenging problems in blood banking and transfusion practice Discussion and resolution of each case is provided in a separate answer section including up to date information on pertinent advances in the field This second edition also contains new cases on topics not previously covered including types of compatibility testing polyagglutination hematopoietic stem cell transplantation immunoematology test drug interference granulocyte transfusion heparin induced thrombocytopenia and the approach to the bloodless patient Written by experts in the field *Immunoematology and Transfusion Medicine A Case Study Approach Second Edition* provides an interactive tool that makes blood banking and transfusion medicine memorable practical and relevant to residents and fellows *Pharmacy State Board Questions and Answers* ,1956 **Pharmacy State Board Questions and Answers and Review** ,1958

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,1990 **Expert Titration of Multiple Vasoactive Drugs in Post-cardiac Surgical Patients** Patricia Lee
Hooper-Kyriakidis,1995 *Platers' Guide* ,1924 *Immunohematology, Transfusion Medicine, Hemostasis, and Cellular Therapy* Mark T. Friedman,Kamille A. West,Peyman Bizargity,Kyle Annen,H. Deniz Gur,Timothy Hilbert,2023-03-01 The latest edition of this volume features an extensively revised and expanded collection of immunohematology and transfusion medicine case studies comprised of clinical vignettes and antibody panels with questions following each case Arranged in a workbook format the text presents cases based on real patient problems and covers a number of common issues and challenging problems in blood banking and transfusion practice Discussion and resolution of each case is provided in a separate answer section including up to date information on pertinent advances in the field This third edition updates information on existing case chapters and references and adds a variety of new case chapters The enhanced title of this edition reflects upon the wider array of covered topics including in depth case studies of hemostasis and a second section with blood donation and cellular therapy topics New features include a key to covered topics for each case and a case difficulty rating scale Written by experts in the field Immunohematology Transfusion Medicine Hemostasis and Cellular Therapy A Case Study Approach Third Edition is an interactive tool that makes blood banking and transfusion medicine memorable practical and relevant to residents fellows laboratory technologists and anyone interested in gaining and updating their knowledge in the field American Druggist ,1925 The School World ,1905 **A Treatise on Prospecting** ,1899 *The Leather Manufacturer* ,1928 Milk Plant Monthly ,1920 *Supplement ... to the Public Health Reports* ,1926

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