

## Chapter 13 - Practical Work

(a) (i) Chemical test for ammonia:

If a rod dipped in concentrated hydrochloric acid is brought near ammonia gas, dense white fumes of ammonium chloride ( $\text{NH}_4\text{Cl}$ ) are formed.

(ii) Chemical test for Sulphur dioxide:

It decolorizes pink coloured potassium permanganate solution.



(iii) Chemical test for HCl:

When HCl gas is passed through  $\text{AgNO}_3$  solution, white precipitates of  $\text{AgCl}$  are formed which gets dissolved in excess of  $\text{NH}_4\text{OH}$ .



(iv) Chemical test for Chlorine:

It turns moist starch iodide paper (KI + starch solution) blue black.

(v) Chemical test for Carbon dioxide:

When this gas is passed through lime water, it turns milky due to the formation of white precipitates of  $\text{CaCO}_3$  and on passing excess of carbon dioxide gas, this milkiness disappears.

(vi) Chemical test for oxygen:

This gas is absorbed in colourless alkaline solution of pyrogallol and turns it dark brown.

(vii) Chemical test for hydrogen:

It burns with a pop sound when a burning taper is brought near it.

(b) Ammonia is a basic gas and its basic nature is suspected through litmus paper test because it changes the colour of red litmus paper to blue.

(c) Chlorine, carbon dioxide, hydrogen chloride, hydrogen sulphide and sulphur dioxide are acidic gases since they convert blue litmus to red.

(d) A is chlorine and B is Sulphur dioxide.

(e) Water vapour.

# Chemistry Chapter 13 Solutions Manual

**T. W. Graham Solomons, Craig B.  
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## Chemistry Chapter 13 Solutions Manual:

Solutions Manual for Chemistry: Molecules Matter and Change, Fourth Edition Julie Henderleiter, Charles Trapp, Peter Atkins, Loretta Jones, 1999-08-13 This student companion is a supplement to Chemistry Molecules Matter and Change 4th edition with CD ROM It features guided reading strategies collaborative learning sheets and strategies for using CD ROM tools

*Solutions Manual with Answers to All Questions, Analytical Chemistry, Principles and Techniques* Larry G. Hargis, 1987-12

Solutions Manual, Inorganic Chemistry, Third Ed Gary L. Miessler, Donald Arthur Tarr, 2004 Contains full solutions to all end of chapter problems

**Student Solutions Manual for Chang's Chemistry** Philip C. Keller, Raymond Chang, Jill L. Keller, 1988

*Physical Chemistry Solutions Manual* William B. Bunger, Theodore Sakano, 1972

**Solutions Manual to Accompany Physical Chemistry** J. Philip Bromberg, 1984

*Solutions Manual to Accompany General Chemistry with Qualitative Analysis, Second Edition* Ralph H. Petrucci, Robert K. Wismer, 1987

*Organic Chemistry, Study Guide and Solutions Manual* T. W. Graham Solomons, Craig B. Fryhle, 2000 On the cover of this book is a Pacific yew tree found in the ancient forests of the Pacific Northwest The bark of the Pacific yew tree produces Taxol found to be a highly effective drug against ovarian and breast cancer Taxol blocks mitosis during eukaryotic cell division The supply of Taxol from the Pacific yew tree is vanishingly small however A single 100 year old tree provides only about one dose of the drug roughly 300 mg For this reason as well as the spectacular molecular architecture of Taxol synthetic organic chemists fiercely undertook efforts to synthesize it Five total syntheses of Taxol have thus far been reported Now a combination of isolation of a related metabolite from European yew needles and synthesis of Taxol from that intermediate supply the clinical demand This case clearly demonstrates the importance of synthesis and the use of organic chemistry It s just one of the many examples used in the text that will spark the interest of students and get them involved in the study of organic chemistry

**Solutions Manual** Joseph Topich, 2000-10

Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today Seager/Slabaugh, 2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application

**Study Guide and Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry, Third Edition** John McMurry, Susan McMurry, 1999 Provides worked out solutions to text problems along with chapter by chapter outlines and a variety of self tests at the end of each chapter

*Study Guide and Partial Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry* Susan McMurry, 1996 This internationally acclaimed detective series is just the thing for lovers of those Number One Ladies looking for a darker more realistic view of Botswana Sue Baker Publishing News

*Study Guide and Solutions Manual for McMurry's Organic Chemistry, Fifth Edition* Susan McMurry, 2000 Provides answers and

explanations to all in text and end of chapter exercises Also includes summaries of name reactions functional group synthesis and reactions lists of reagents and abbreviations and articles on topics ranging from infrared absorption frequencies to the Nobel Price winners in Chemistry This edition now includes all new artwork expanded in text problems summary quizzes approximately every three chapters more detailed explanations in solutions and chapter outlines **Student Solutions**

**Manual to Accompany Chemistry** William Joseph Pietro,1990 Manual of Chemistry William Simon,Daniel Base,1923

**Cracking the AP Chemistry Exam, 2013 Edition** Paul Foglino,Princeton Review,2012-08-07 Provides techniques for achieving high scores on the AP chemistry exam and includes two full length practice tests a subject review for all topics and sample questions and answers Solutions Manual and Study Guide to Accompany Introduction to Organic Chemistry, 4th Ed Paul A. Bartlett,Judith G. Koch,1992

**Cracking the AP Chemistry Exam, 2012 Edition** Paul Foglino,2011-08-02 Provides techniques for achieving high scores on the AP chemistry exam and includes two full length practice tests

Fundamentals of Organic Chemistry, Textbook, Study Guide and Solutions Manual T. W. Graham Solomons,1996-08-15 A realistic approach to the study of mechanisms The book addresses real functional group chemistry with an emphasis on the biological environmental and medical applications of organic chemistry **Student Guide and Solutions Manual to**

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