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# > Coursebook answers

## Chapter 16

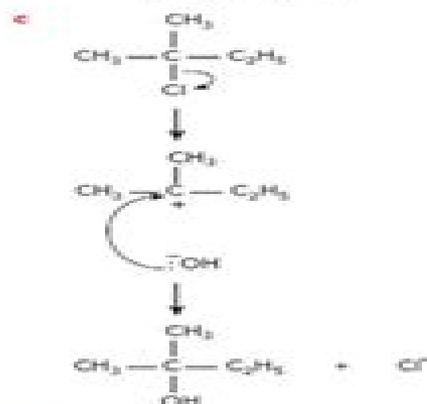
### Science in context

Discuss as a group how the information about the use of halogenoalkanes demonstrates how some scientific developments can have both good and bad effects on society and the environment.

- Having read the Science in Context passage, ask learners to shut their Coursebook. Then conduct a quick activity asking individual learners to give a specific example of a beneficial use of halogenoalkanes or a problematic use, until the class runs out of suggestions.
- You might then ask for a class vote, show of hands, on whether the halogenoalkanes have benefitted or hindered human progress in the last century.

### Self-assessment questions

- 1
- propene and chlorine
  - $\text{OH}^-$  ions are negatively charged so are attracted more strongly than neutral water molecules to the partially positively charged carbon atoms in halogenoalkanes.
  - The hydrolysis of halogenoalkanes produces halide ions; the rate of their formation can be monitored by using silver nitrate solution. The silver halide precipitates make the reaction mixture cloudy. The ionic equations for the formation of the precipitates are:  
 $\text{Ag}^+(\text{aq}) + \text{Cl}^-(\text{aq}) \rightarrow \text{AgCl}(\text{s})$   
 $\text{Ag}^+(\text{aq}) + \text{Br}^-(\text{aq}) \rightarrow \text{AgBr}(\text{s})$   
 $\text{Ag}^+(\text{aq}) + \text{I}^-(\text{aq}) \rightarrow \text{AgI}(\text{s})$
  - Both ammonia and amines contain a nitrogen atom with a lone pair of electrons that is available to donate.
  - triethylamine ( $(\text{CH}_3\text{CH}_2\text{CH}_2)_3\text{N}$ )



- 3
- $\text{CH}_3\text{CHBrCH}_3 + \text{NaOH}(\text{ethanol}) \rightarrow \text{CH}_2 = \text{CHCH}_3 + \text{H}_2\text{O} + \text{NaBr}$
  - propene
  - $\text{BrCH}_2\text{CH}_2\text{CH}_3 + \text{NaOH}(\text{ethanol}) \rightarrow \text{CH}_2 = \text{CHCH}_3 + \text{H}_2\text{O} + \text{NaBr}$   
(1-bromopropane)

# Modern Chemistry Text Answers Chapter 16

**Leonard W. Fine**



## **Modern Chemistry Text Answers Chapter 16:**

Modern Chemistry Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001 *Chemical Principles Student's Study Guide & Solutions Manual* John Krenos, Joseph Potenza, Loretta Jones, Lynn Koplitz, Thomas Spence, 2004-03-19 This combination manual is designed to help students avoid common mistakes and understand the material better The solutions manual section includes detailed answers and explanations to the odd numbered exercises in the text Study and Problem Solving Guide to Accompany Principles of Modern Chemistry, Oxtoby/Nachtrieb Wade A. Freeman, 1986 **Introduction to Modern Chemistry** Edward Florian Neuzil, 1968 *Chemical Principles Study Guide/Solutions Manual* John Krenos, Joseph Potenza, Carl Hoeger, 2007-01-18 Written for general chemistry courses *Chemical Principles* helps students develop chemical insight by showing the connection between chemical principles and their applications **Molecular Driving Forces** Ken Dill, Sarina Bromberg, 2010-10-21 *Molecular Driving Forces* Second Edition E book is an introductory statistical thermodynamics text that describes the principles and forces that drive chemical and biological processes It demonstrates how the complex behaviors of molecules can result from a few simple physical processes and how simple models provide surprisingly accurate insights into the workings of the molecular world Widely adopted in its First Edition *Molecular Driving Forces* is regarded by teachers and students as an accessible textbook that illuminates underlying principles and concepts The Second Edition includes two brand new chapters 1 Microscopic Dynamics introduces single molecule experiments and 2 Molecular Machines considers how nanoscale machines and engines work The Logic of Thermodynamics has been expanded to its own chapter and now covers heat work processes pathways and cycles New practical applications examples and end of chapter questions are integrated throughout the revised and updated text exploring topics in biology environmental and energy science and nanotechnology Written in a clear and reader friendly style the book provides an excellent introduction to the subject for novices while remaining a valuable resource for experts *Chemistry* Leonard W. Fine, 1972

**CHEMISTRY SILBERBERG**, 2003 *Materials Science for Engineers* J.C. Anderson, Keith D. Leaver, Rees D. Rawlings, Patrick S. Leever, 2004-06-01 This fifth edition of a successful textbook continues to provide students with an introduction to the basic principles of materials science over a broad range of topics The authors have revised and updated this edition to include many new applications and recently developed materials The book is presented in three parts The first section discusses the physics chemistry and internal structure of materials The second part examines the mechanical properties of materials and their application in engineering situations The final section presents the electromagnetic properties of materials and their application Each chapter begins with an outline of the relevance of its topics and ends with problems that require an understanding of the theory and some reasoning ability to resolve These are followed by self assessment questions which test students understanding of the principles of materials science and are designed to quickly cover the subject area of the chapter This edition of *Materials Science for Engineers* includes an expanded treatment of many

materials particularly polymers foams composites and functional materials Of the latter superconductors and magnetics have received greater coverage to account for the considerable development in these fields in recent years New sections on liquid crystals superalloys and organic semiconductors have also been added to provide a comprehensive overview of the field of materials science

**Chemistry** Theodore Lawrence Brown,1988 *A Textbook of Modern Inorganic Chemistry for B. Sc. Students* Jagindar Singh,1961 *A Complete Introduction to Modern NMR Spectroscopy* Roger S. Macomber,1997-12-23 Clear accessible coverage of modern NMR spectroscopy for students and professionals in many fields of science Nuclear magnetic resonance NMR spectroscopy has made quantum leaps in the last decade becoming a staple tool in such divergent fields as chemistry physics materials science biology and medicine That is why it is essential that scientists working in these areas be fully conversant with current NMR theory and practice This down to basics text offers a comprehensive up to date treatment of the fundamentals of NMR spectroscopy Using a straightforward approach that develops all concepts from a rudimentary level without using heavy mathematics it gives readers the knowledge they need to solve any molecular structure problem from a complete set of NMR data Topics are illustrated throughout with hundreds of figures and actual spectra Chapter end summaries and review problems with answers are included to help reinforce and test understanding of key material From NMR studies of biologically important molecules to magnetic resonance imaging this book serves as an excellent all around primer on NMR spectroscopic analysis

**The Educational Times, and Journal of the College of Preceptors** ,1893 *Modern Textbook of Organic Chemistry* Gwynn Pennant Ellis,1966 **A Course in Colloid Chemistry** D. A. Fridrikhsberg,1986 **General College Chemistry** Charles William Keenan,Donald C. Kleinfelter,Jesse Hermon Wood,1980 *Chemistry* John S. Phillips,Cheryl Wistrom,2000 *Nature* Sir Norman Lockyer,1911 **General Chemistry** James E. Brady,Gerard E. Humiston,1986 The Fifth Edition retains the pedagogical strengths that made the previous editions so popular and has been updated reorganized and streamlined Changes include more accessible introductory chapters with greater stress on the logic of the periodic table earlier introduction of redox reactions greater emphasis on the concept of energy a new section on Lewis structures earlier introduction of the ideal gas law and a new development of thermodynamics Each chapter ends with review questions and problems

**Chemical News and Journal of Physical Science** ,1913

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