

How Substances Dissolve

KEY IDEAS

As you read this section, keep these questions in mind:

- Why is water called the universal solvent?
- How do substances dissolve?

Why Do Substances Dissolve in Certain Solvents?

Water is often called a universal solvent because many substances dissolve in it. However, no one substance can dissolve every solute. A general rule in chemistry is that “like dissolves like.” This rule means that a solvent will dissolve substances that have similar molecular structures. 

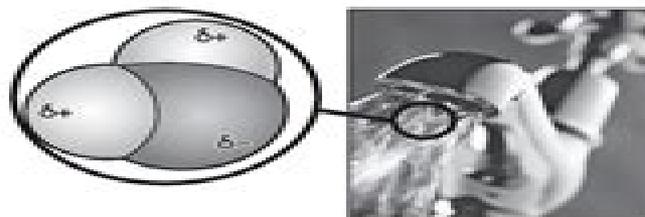
A solvent must be able to attract solute particles and pull them away from one another. Thus, solvent particles must attract solute particles more strongly than the solute particles attract one another.

POLAR MOLECULES

Recall that atoms bonded together do not all share electrons equally. For example, a water molecule is made up of two hydrogen atoms bonded to one oxygen atom. The oxygen atom attracts electrons more strongly than the hydrogen atoms do. Thus, the electrons spend more time near the oxygen atom. This gives each hydrogen atom a partial positive charge (δ^+) and the oxygen atom a partial negative charge (δ^-). 

Molecules that have partially charged positive and negative areas are **polar**. Because water molecules are polar, water can dissolve many other polar substances. Water can also dissolve ionic compounds such as table salt.

Water is a polar molecule because the oxygen atom strongly attracts electrons. Because the electrons spend more time near the oxygen atom, the oxygen atom has a partial negative charge.



READING TOOLBOX

Summarize Read each page of the section silently to yourself. With a partner, take turns summarizing each page.

READING CHECK

1. Identify Why is water called a universal solvent?

because
many substances dissolve
in it

READING CHECK

2. Explain Why do water molecules have partial charges?

The oxygen atom attracts
electrons more strongly
than the hydrogen atoms
do. Thus, the electrons
spend more time near the
oxygen atom.

How Substances Dissolve Concept Review Answers

Silberberg



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Ebook: Chemistry: The Molecular Nature of Matter and Change Silberberg, 2015-01-16 Ebook Chemistry The Molecular Nature of Matter and Change Chemistry in the Community. American Chemical Society, 2002 This volume has relevance to a wide number of courses giving a hands on introduction to chemistry in relation to community issues rather than around specific chemical concepts

Scientifica David Sang, Peter Ellis, Derek McMonagle, 2004 Bring your science lessons to life with Scientifica Providing just the right proportion of reading versus doing these engaging resources are differentiated to support and challenge pupils of varying abilities

MCAT General Chemistry Review Princeton Review (Firm), 2010 The MCAT is a test of more than just the facts about basic physical and biological sciences it is an in depth rigorous examination of your knowledge of scientific concepts and principles as well as your critical thinking and writing skills With the Princeton Review's subject specific MCAT series you can focus your review on the MCAT topics that are most challenging to you Each book in the series contains the most in depth coverage of subjects tested on the MCAT Each chapter in MCAT General Chemistry includes Full color illustrations charts and diagrams Examples of general chemistry questions and their solutions worked out step by step Chapter Review Quizzes and answers A real MCAT style practice passage with questions and answers Bulleted chapter summaries for quick review MCAT General Chemistry Review also includes A complete glossary of general chemistry terms A general chemistry formula sheet

Pharmaceutical Record and Weekly Market Review P. W. Bedford, 1892

Science I Essential Interactions, 2000-10

Chemistry: Core Concepts, 3rd Edition Allan Blackman, Daniel Southam, Gwendolyn Lawrie, Natalie Williamson, Christopher Thompson, 2024-01-09 The third edition of Chemistry Core Concepts Blackman et al has been developed by a group of leading chemistry educators for students entering university with little or no background in chemistry Available as a full colour printed textbook with an interactive eBook code this title enables every student to master concepts and succeed in assessment Lecturers are supported with an extensive and easy to use teaching and learning package

General Science Richard H. Moyer, 1986

Nals Gr1:english Teachers Gde , Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction

International Review of Cytology, 1976-10-20 International Review of Cytology

Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual Leo J. Malone, Theodore O. Dolter, 2012-01-03 The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to

examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter A new Math Check allows quick access to the needed basic skill The first chapter now includes brief introductions to several fundamental chemical concepts and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter

Lehninger Biochemistry: Core Concepts and Applications Michael Cox, Aaron Hoskins, Alain Viel, Judith Simcox, 2025-02-04 Dive into the world of Biochemistry with Achieve for Lehninger Biochemistry Core Concepts and Applications your gateway to mastering this complex field

MCAT Organic Chemistry Review Kaplan Test Prep, 2016-07-05 More people get into medical school with a Kaplan MCAT course than all major courses combined Now the same results are available with MCAT Organic Chemistry Review This book features thorough subject review more questions than any competitor and the highest yield questions available The commentary and instruction come directly from Kaplan MCAT experts and include targeted focus on the most tested concepts MCAT Organic Chemistry Review offers UNPARALLELED MCAT KNOWLEDGE The Kaplan MCAT team has spent years studying every MCAT related document available In conjunction with our expert psychometricians the Kaplan team is able to ensure the accuracy and realism of our practice materials THOROUGH SUBJECT REVIEW Written by top rated award winning Kaplan instructors all material has been vetted by editors with advanced science degrees and by a medical doctor EXPANDED CONTENT THROUGHOUT As the MCAT has continued to develop this book has been updated continuously to match the AAMC s guidelines precisely no more worrying if your prep is comprehensive STAR RATINGS FOR EVERY SUBJECT New for the 3rd Edition of MCAT Organic Chemistry Review every topic in every chapter is assigned a star rating informed by Kaplan s decades of MCAT experience and facts straight from the testmaker of how important it will be to your score on the real exam MORE PRACTICE THAN THE COMPETITION With questions throughout the book and access to a full length practice test online MCAT Organic Chemistry Review has more practice than any other MCAT organic chemistry book on the market ONLINE COMPANION One practice test and additional online resources help augment content studying The MCAT is a computer based test so practicing in the same format as Test Day is key TOP QUALITY IMAGES With full color 3 D illustrations charts graphs and diagrams from the pages of Scientific American MCAT Organic Chemistry Review turns even the most intangible complex science into easy to visualize concepts KAPLAN S MCAT REPUTATION Kaplan is a leader in the MCAT prep market and twice as many doctors prepared for the MCAT with Kaplan than with any other course UTILITY Can be used alone or with the other companion books in Kaplan s MCAT Review series Doctors refers to US MDs who were licensed between 2001 2010 and used a fee

based course to prepare for the MCAT The AlphaDetail Inc online study for Kaplan was conducted between Nov 10 Dec 9 2010 among 763 US licensed MDs of whom 462 took the MCAT and used a fee based course to prepare for it Concepts and Challenges in Science New York Proficiency Review Book Globe Fearon,2000-11 *The Positivist Review* ,1903

Chemistry: Concepts and Problems Clifford C. Houk, Richard Post, 1996-03-09 CHEMISTRY SECOND EDITION The fast easy way to master the fundamentals of chemistry Have you ever wondered about the differences between liquids gases and solids Or what actually happens when something burns What exactly is a solution An acid A base This is chemistry the composition and structure of substances composing all matter and how they can be transformed Whether you are studying chemistry for the first time on your own want to refresh your memory for a test or need a little help for a course this concise interactive guide gives you a fresh approach to this fascinating subject This fully up to date edition of Chemistry Concepts and Problems Has been tested rewritten and retested to ensure that you can teach yourself all about chemistry Requires no prerequisites Lets you work at your own pace with a helpful question and answer format Lists objectives for each chapter you can skip ahead or find extra help if you need it Reinforces what you learn with chapter self tests **High School Chemistry Unlocked** The Princeton Review, 2016-11-29 UNLOCK THE SECRETS OF CHEMISTRY with THE PRINCETON REVIEW High School Chemistry Unlocked focuses on giving you a wide range of key lessons to help increase your understanding of chemistry With this book you will move from foundational concepts to complicated real world applications building confidence as your skills improve End of chapter drills will help test your comprehension of each facet of chemistry from atoms to alpha radiation Don't feel locked out Everything You Need to Know About Chemistry Complex concepts explained in straightforward ways Walk throughs of sample problems for all topics Clear goals and self assessments to help you pinpoint areas for further review Guided examples of how to solve problems for common subjects Practice Your Way to Excellence 165 hands on practice questions seeded throughout the chapters and online Complete answer explanations to boost understanding Bonus online questions similar to those you will find on the AP Chemistry Exam and the SAT Chemistry Subject Test High School Chemistry Unlocked covers Building blocks of matter Physical behavior of matter Chemical bonding Chemical reactions Stoichiometry Solutions Acids and bases Equilibrium Organic chemistry Radioactivity and more Positivist Review ,1903 **Chemical Interactions** ,2005

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