

Chapter 10: Chemical analysis

Knowledge organiser

Pure and impure

In chemistry, a pure substance contains a single element or compound that is not mixed with any other substances.

Pure substances melt and boil at specific temperatures.

An impure substance contains more than one type of element or compound in a mixture.

Impure substances melt and boil at a range of temperatures.

Formulations

Formulations are examples of mixtures. They have many different components (substances) that make them up, in very specific proportions (amounts compared to each other).

Scientists spend a lot of time trying to get the right components in the right proportions to make the most useful product.

Formulations include tonics, cleaning agents, paints, shampoos, fertilisers, and foods.



Testing gases

Common gases can be identified using the following tests:

Gas	What you do	What you observe if gas is present
hydrogen	Hold a lighted splint near the gas	flame is quenched
oxygen	Hold a glowing splint near the gas	splint re-lights
carbon dioxide	Bubble the gas through limewater	The limewater turns milky (cloudy white)
methane	Hold a piece of glowing limewater near the gas	Limewater turns white

Chromatography

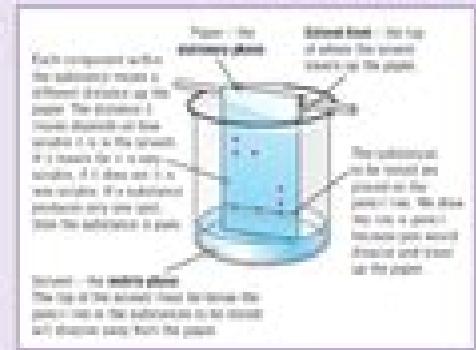
Chromatography is a method to separate different components in a mixture. It is set up as shown here, with a piece of paper in a beaker containing a small amount of solvent.

The R_f value is a ratio of how far up the paper a certain spot moves compared to how far the solvent has travelled.

$$R_f = \frac{\text{distance moved by solute}}{\text{distance moved by solvent}}$$

It will always be a number between 0 and 1.

The R_f value depends on the solvent and the temperature, and different substances will have different R_f values. The R_f values for particular substances can be used to identify a substance.



Separating mixtures



Substances can be separated by:

- filtration - separates insoluble solids from a liquid
- crystallisation - separates a solute (solid) from the solvent (liquid)
- simple distillation - separates solute from a solution as long as the solvent has a lower boiling point than the solute
- fractional distillation - separates two or more substances from a liquid mixture



Key terms

Make sure you can write a definition for these key terms.

chromatography

formulation
solvent

impure
solvent front

mobile phase
stationary phase

pure

R_f value

A Natural Approach To Chemistry Chapter 10 Review Answers

A Gutmann

A Natural Approach To Chemistry Chapter 10 Review Answers:

Foundations of College Chemistry Morris Hein, Susan Arena, Cary Willard, 2023 Foundations of College Chemistry 16th edition presents chemistry as a modern vital subject and is designed to make introductory chemistry accessible to all beginning students. It is intended for students who have never taken a chemistry course or those who had a significant interruption in their studies but plan to continue with the general chemistry sequence. The central focus is to make chemistry interesting and understandable and teach students the problem solving skills they will need. This International Adaptation offers new and updated content with improved presentation of all course material. It builds on the strengths of previous editions including clear explanations and step by step problem solving. The material emphasizes real world applications of chemistry as the authors develop the principles that form the foundation for the further study of chemistry. There is new and expanded coverage of polarizing power and polarizability, Fajans rules, collision number and mean free path, abnormal molecular masses and van't Hoff factor, and applications of radioactivity.

Cultural Transformations in Germania Secunda Berber S. van der Meulen-van der Veen, 2025-07-03 This book uses a multi-variate approach to study the Late Roman Lower German frontier, challenging the role of migration in settlement changes. It highlights long term interactive processes and continuity in material culture styles supported by metallurgical analysis of copper alloy dress ornaments.

The Westminster Review, 1880 **Study Guide and Workbook, an Interactive Approach for Starr and McMillan's Human**

Biology, Third Edition Jane B. Taylor, John D. Jackson, 1999 Asks the student to write all answers in this study guide workbook. This workbook is interactive because it requires students to do things instead of just reading more material. All questions are arranged by chapter modules so students may skip unassigned material. Each module in the study guide refers to the page numbers of the corresponding module in the text. There is a wide variety of questions: multiple choice, questions, tables to be filled in, art to be labeled, true/false questions requiring students to write the correct answer if the statement is false, thought-provoking conceptual questions, boldfaced terms requiring a written definition, list of objectives, in fill-in-the-blank format and other types of questions.

Basic Chemistry Steven S. Zumdahl, 1991 Fundamentals of Medicinal Chemistry Gareth Thomas, Dr. Gareth Thomas, 2003-11-07 Medicinal chemistry, an evolving and interdisciplinary field, is the study of therapeutically active compounds. This text provides a concise basic introduction to medicinal chemistry at a level suitable for undergraduate students.

Academy; a Weekly Review of Literature, Learning, Science and Art, 1882 The Poetical Gazette, the official organ of the Poetry Society, and a review of poetical affairs, nos. 4-7 issued as supplements to the Academy v. 79 Oct 15 Nov 5 Dec 3 and 31 1910.

Athenaeum and London Literary Chronicle, 1871 The Popular Science News and Boston Journal of Chemistry, 1883 **Psychology Around Us** Ronald Comer, Elizabeth Gould, 2010-01-19 This exciting new textbook for introductory psychology helps to open students' minds to the idea that psychology is all around us. Authors RON COMER and LIZ GOULD encourage students to examine what they know about human behaviour and how

they know it and open them up to an appreciation of psychology outside of the classroom Psychology Around Us helps students see the big picture by stressing the interconnected nature of psychological science Almost every chapter within this first edition helps open students minds to comprehend the big picture with sections that highlight how the different fields of psychology are connected to each other and how they connect to everyday life This text highlights human development brain function abnormal psychology and the individual differences in each area as cut across themes to demonstrate these connections Also included are two page art spreads to demonstrate exactly What Happens In The Brain When we engage in everyday activities such as eat pizza study psychology or listen to music The art featured in these spreads have been created especially for Psychology Around Us by an award winning artist with input from faculty on how it will contribute to teaching and learning Features Cut Across Connections Almost every chapter helps students comprehend the big picture with sections that highlight how the different fields of psychology are connected to each other and how they connect to everyday life What Happens in the Brain When These two page art spreads demonstrate exactly what happens in the brain when we engage in everyday activities such as eating pizza studying psychology or listening to music Chapter Opening Vignettes Every chapter begins with a vignette that shows the power of psychology in understanding a whole range of human behaviour This theme is reinforced throughout the chapter celebrating the extraordinary processes that make the everyday possible Special topics on psychology around us Each chapter highlights interesting news stories current controversies in psychology and relevant research findings that demonstrate psychology around us The Practically Speaking box emphasizes the practical application of everyday psychology Helpful study tools Key Terms Marginal Definitions Marginal Notes Chapter Summaries

Academy, with which are Incorporated Literature and the English Review ,1878 **Scientific American** ,1898
Resources in education ,1987-03 **The Saturday Review of Politics, Literature, Science and Art** ,1879
Introductory Chemistry Steven S. Zumdahl,1993 **The Spectator** ,1888 *"The" Athenaeum* ,1871 **Prentice Hall Chemistry** ,2000 **Journal of Education** ,1883 **Bazaar Exchange and Mart, and Journal of the Household** ,1883

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