

takes up in chemistry wsj crossword

takes up in chemistry wsj crossword is a phrase that often appears as a clue in crossword puzzles, particularly in the Wall Street Journal (WSJ) crossword. Understanding this clue requires familiarity with both chemistry terminology and crossword puzzle conventions. This article delves into the meaning behind "takes up in chemistry" as a crossword clue, explores common answers found in the WSJ crossword, and explains the linguistic and scientific context that informs such puzzles. Additionally, it discusses strategies for solving chemistry-related clues in crosswords and highlights the importance of chemical vocabulary in puzzle solving. By the end of this article, readers will have a comprehensive understanding of how "takes up in chemistry" functions as a crossword clue and how to approach similar challenges.

- Understanding the Clue: "Takes Up in Chemistry" in WSJ Crossword
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- Chemistry Terminology Relevant to Crossword Puzzles
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Understanding the Clue: "Takes Up in Chemistry" in WSJ Crossword

The phrase "takes up in chemistry" in the context of the WSJ crossword puzzle is a cryptic or straightforward clue that references a chemical process or concept involving the absorption or incorporation of a substance. In chemistry, "taking up" usually relates to the process where a material absorbs, adsorbs, or incorporates atoms, ions, or molecules. Crossword clues often require solvers to think about synonyms or related scientific terms that fit both the clue and the crossword grid.

In the WSJ crossword, clues like "takes up in chemistry" may prompt answers related to processes such as adsorption, absorption, or even ion uptake. The clue tests the solver's knowledge of chemistry and vocabulary, as well as their ability to interpret the phrase in a way that fits the puzzle's constraints.

Nature of Chemistry Clues in WSJ Crossword

WSJ crossword puzzles are known for their clever and sometimes subtle clues that challenge solvers beyond simple definitions. Chemistry clues often involve scientific terminology, abbreviations, or concepts that are concise yet precise. The phrase "takes up in chemistry" exemplifies this style by requiring solvers to identify a term that succinctly describes a chemical process of uptake.

Contextual Interpretation of "Takes Up"

In chemistry, "takes up" can refer to several processes:

- **Absorption:** The process by which one substance is taken up into the interior of another.
- **Adsorption:** The adhesion of atoms, ions, or molecules from a gas, liquid, or dissolved solid to a surface.
- **Incorporation:** The integration of atoms or molecules into a compound or material.

Crossword clues utilizing "takes up" often hint toward these concepts, requiring careful consideration based on the number of letters and any intersecting answers.

Common Answers to "Takes Up in Chemistry" in WSJ Crossword

Identifying common answers to the clue "takes up in chemistry wsj crossword" involves reviewing typical responses that fit the clue's meaning and crossword format. Several terms repeatedly appear as solutions to this clue or similar ones due to their conciseness and relevance in chemistry.

Typical Crossword Answers

The following are common answers seen for "takes up in chemistry" in the WSJ crossword:

- **ABSORBS:** Refers to the process by which a substance takes in or soaks up another substance.
- **ADSORBS:** Indicates the adhesion of molecules to a surface, a surface phenomenon distinct from absorption.
- **TAKES IN:** A more general phrase sometimes used in crosswords to imply uptake.
- **INCORPORATES:** Refers to integrating substances into a compound or mixture.

Among these, "absorbs" and "adsorbs" are the most frequent answers due to their direct relationship with the concept of taking up in chemistry and their manageable length for crossword grids.

Distinguishing Between Adsorbs and Absorbs

One challenge in solving the clue lies in choosing between "adsorbs" and "absorbs." Both are valid chemistry terms but differ in meaning:

- **Absorbs** involves uptake throughout the bulk material.
- **Adsorbs** involves uptake only on the surface.

Crossword clues often rely on subtle hints or the number of letters to guide solvers toward the correct answer.

Chemistry Terminology Relevant to Crossword Puzzles

Understanding chemistry terminology is essential for tackling clues like "takes up in chemistry wsj crossword." This section highlights key terms and concepts frequently employed in crosswords to describe uptake and related chemical processes.

Key Chemistry Terms for Uptake Processes

The following terms are commonly encountered in chemistry-themed crossword clues related to uptake:

- **Absorption:** The process of one substance being taken up into the volume of another.
- **Adsorption:** The adhesion of particles to a surface.
- **Assimilation:** The incorporation of substances into living tissues.
- **Incorporation:** The integration of atoms or molecules into a compound.
- **Sequestration:** The process of isolating or taking up a substance.

Abbreviations and Symbols in Chemistry Clues

Crossword puzzles sometimes use abbreviations or chemical symbols to represent uptake or related terminology. Examples include:

- **O₂:** Molecular oxygen, often involved in uptake processes such as respiration or oxidation.
- **H₂O:** Water, frequently associated with absorption or hydration.
- **Ion:** Charged particles taken up in chemical reactions or transport.

Recognizing these elements can aid in interpreting clues that imply uptake or incorporation in a chemical context.

Strategies for Solving Chemistry-Related Crossword Clues

Successfully solving clues like "takes up in chemistry wsj crossword" requires both scientific knowledge and crossword-solving skills. This section outlines effective strategies to approach chemistry-based crossword clues.

Analyzing the Clue's Language

Careful reading of the clue is critical. Look for keywords such as "takes up," "absorbs," or "incorporates" to infer the chemical process involved. Consider whether the clue is straightforward or cryptic, as this affects interpretation.

Using Crossword Constraints

The number of letters and intersecting words provide vital hints. Compare possible chemical terms that fit the letter count and match known letters from crossing answers. This process often narrows down the correct term between similar options like "absorbs" and "adsorbs."

Leveraging Scientific Knowledge

Familiarity with basic chemistry concepts, such as absorption and adsorption, can greatly enhance solving accuracy. Understanding the distinction and common usage of these terms in scientific contexts helps identify the most appropriate answer.

Consulting Crossword Dictionaries and Resources

For persistent challenges, referencing specialized crossword dictionaries or chemistry glossaries can provide common answers and synonyms used in puzzles. These resources compile frequently used crossword answers, including chemical terms.

Significance of Chemical Vocabulary in Crossword Puzzles

Chemical vocabulary plays a significant role in crossword puzzles, especially in reputable publications like the WSJ that often incorporate academic and scientific terms. This integration enriches the puzzle experience by combining language skills with scientific literacy.

Enhancing Puzzle Difficulty and Engagement

Including chemistry terms such as "takes up," "absorbs," and "adsorbs" elevates the intellectual challenge of crosswords. It encourages solvers to expand their vocabulary beyond common usage and familiarize themselves with scientific concepts.

Educational Value of Chemistry Clues

Chemistry clues provide educational benefits by introducing solvers to important scientific terminology and processes. Encountering these terms in puzzles helps reinforce understanding and retention of chemistry knowledge.

Common Themes in WSJ Crossword Chemistry Clues

The WSJ crossword frequently features themes related to science, technology, and academia, making chemistry clues a staple. These clues often revolve around chemical processes, elements, compounds, and laboratory techniques, reflecting the puzzle's broad intellectual scope.

- Absorption and adsorption phenomena
- Chemical reactions and processes
- Elements and their properties
- Laboratory apparatus and methods

Frequently Asked Questions

What is the common crossword clue for 'takes up' in chemistry-related puzzles?

Absorbs

In WSJ crossword, which word meaning 'takes up' is often used in chemistry contexts?

Absorbs

What is a four-letter word meaning 'takes up' used in chemistry clues?

Aids

Which chemistry-related term meaning 'takes up' fits in WSJ crossword puzzles?

Absorbs

What is a synonym for 'takes up' that appears in chemistry WSJ crossword clues?

Absorbs

In chemistry crosswords, how is 'takes up' commonly represented?

Absorbs

What verb meaning 'takes up' is frequently used in WSJ crosswords involving chemistry?

Absorbs

Which word meaning 'takes up' is associated with chemical processes and appears in WSJ crosswords?

Absorbs

In WSJ crossword puzzles, what word describes a substance that 'takes up' another in chemistry?

Absorbs

What is a popular WSJ crossword answer for 'takes up' in a chemistry setting?

Absorbs

Additional Resources

1. *The Disappearing Spoon: And Other True Tales of Madness, Love, and the History of the World from the Periodic Table of Elements*

This book by Sam Kean explores the fascinating stories behind the elements of the periodic table. It delves into the quirky, sometimes bizarre history and science that make chemistry intriguing. Readers will learn about the personalities, discoveries, and mishaps that have shaped the field. It's both educational and entertaining for anyone interested in chemistry.

2. *Uncle Tungsten: Memories of a Chemical Boyhood*

Oliver Sacks' memoir offers a nostalgic glimpse into his early fascination with chemistry. Set in wartime England, the book recounts his childhood experiments and discovery of the elements. It combines personal anecdotes with historical context, making it a captivating read for those intrigued by the science and its human side.

3. *The Elements: A Visual Exploration of Every Known Atom in the Universe*

Authored by Theodore Gray, this book is a beautifully illustrated guide to the elements. It features stunning photographs and detailed descriptions, making the periodic table come alive. Ideal for both students and enthusiasts, it provides a visual and informative journey through chemistry.

4. *Napoleon's Buttons: How 17 Molecules Changed History*

This book by Penny Le Couteur and Jay Burreson examines seventeen groups of molecules that have had a significant impact on history. From spices to explosives, the chemical compounds discussed in the book reveal how chemistry shaped human civilization. It's an engaging blend of science and history.

5. *The Poisoner's Handbook: Murder and the Birth of Forensic Medicine in Jazz Age New York*

By Deborah Blum, this book explores the role of chemistry in forensic science during the 1920s. It tells the story of medical examiners who used chemical analyses to solve crimes, transforming criminal investigations. The narrative is both thrilling and informative, highlighting chemistry's practical applications.

6. *Stuff Matters: Exploring the Marvelous Materials That Shape Our Man-Made World*

Mark Miodownik takes readers on a journey through the materials that form our everyday world. From steel to chocolate, the book explains the chemistry behind these substances and their significance. It's a highly accessible introduction to materials science and chemistry.

7. *Periodic Tales: A Cultural History of the Elements, from Arsenic to Zinc*

Hugh Aldersey-Williams presents a cultural and historical exploration of the elements. The book combines scientific facts with stories, myths, and uses of elements across different cultures. It provides a rich perspective on how chemistry intersects with human creativity and history.

8. *The Chemistry of Alchemy: From Dragon's Blood to Donkey Dung, How Chemistry Was Forged*

This book by Cathy Cobb, Monty Fetterolf, and Harold Goldwhite traces the roots of modern chemistry back to alchemy. It highlights the transition from mystical practices to scientific inquiry. Readers gain insight into the early

experiments and discoveries that laid the groundwork for contemporary chemistry.

9. *Cathedral of the Wild: An African Journey Home*

Although not directly about chemistry, this book by Boyd Varty touches upon natural processes and ecological chemistry through its vivid portrayal of the African wilderness. It blends personal narrative with reflections on nature's balance and elements. It offers an inspiring look at the chemistry of life in the wild.

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