Handbook of chemistry and physics a ready reference book of chemical and physical data thirty sixth edition 1954 1955

Handbook of Chemistry and Physics: A Ready Reference Book of Chemical and Physical Data Thirty Sixth Edition 1954 1955 **handbook of chemistry and physics a ready reference book of chemical and physical data thirty sixth edition 1954 1955** stands as a testament to decades of scientific rigor and dedication to precision. For researchers, educators, and students alike, this edition continues the tradition of providing an indispensable trove of chemical and physical data compiled meticulously for ease of reference. The 1954-1955 release of the thirty-sixth edition marked a significant milestone, reflecting both the scientific knowledge of the era and the evolving needs of the scientific community. Whether you're a chemist needing reliable constants or a physicist seeking precise material properties, this handbook offers a comprehensive range of data that has been trusted for generations. The legacy of the handbook lies not only in its extensive tables and charts but also in its role as a foundational text that bridges theoretical science with practical application.

The Legacy of the Handbook of Chemistry and Physics

The "Handbook of Chemistry and Physics" has been a cornerstone reference work since its first publication in the early 20th century. By the time the thirty-sixth edition was released in 1954-1955, it had already established itself as an essential resource in laboratories and classrooms worldwide. This edition reflects the post-war scientific boom, capturing updated values, newly discovered elements, and refined measurement techniques. It served as a critical guide for scientists navigating the rapid advancements in chemistry and physics during the mid-twentieth century.

Why the Thirty Sixth Edition is Still Noteworthy

While more modern editions exist today, the 1954-1955 version is valuable for historians of science and those interested in the evolution of data standards. It showcases how chemical and physical constants were understood and utilized during that period. Some notable features include: - Updated atomic weights and isotopic compositions based on the latest research of the time. - Improved thermodynamic data critical for chemical engineering and physical chemistry applications. - Inclusion of physical constants relevant to atomic and nuclear physics, an area gaining momentum in the 1950s.

Key Features of the 1954-1955 Edition

The handbook was designed as a ready reference, emphasizing accuracy, breadth, and user-friendly organization. Its tables and charts cover a wide array of topics that remain fundamental to various scientific disciplines.

Comprehensive Chemical Data

This edition offers detailed chemical data, including: - Atomic weights and isotopic abundances, reflecting measurements from the era. - Standard electrode potentials essential for understanding electrochemical reactions. - Solubility data for numerous compounds important in both laboratory and industrial contexts. - Reaction enthalpies and thermodynamic properties relevant for chemical reaction engineering. These datasets were indispensable for chemists needing reliable constants for calculations, experiments, or theoretical modeling.

Extensive Physical Properties

On the physical side, the handbook provides: - Properties of gases, liquids, and solids, such as densities, viscosities, and thermal conductivities. - Data on phase transitions, including melting points and boiling points for a variety of substances. - Electrical resistivity and magnetic susceptibility values for materials widely used in technology at the time. - Optical properties, including refractive indices, crucial for physicists working in optics and material science.

Atomic and Nuclear Physics Data

The mid-20th century was a period of rapid development in nuclear science. This edition includes: - Nuclear spin and magnetic moment data for various isotopes. - Fundamental constants such as Planck’s constant, electron charge, and mass, updated according to the latest measurements. - Decay schemes and half-lives for radioactive isotopes, aiding research in nuclear chemistry and physics.

How This Edition Served the Scientific Community

The handbook’s role extended far beyond simply collating numbers. It helped standardize data usage across disciplines, ensuring that researchers worldwide could communicate and compare results on a common basis.

Enhancing Experimental Accuracy

With precise constants and well-arranged data tables, scientists could minimize errors caused by inconsistent data sources. This was particularly important in an era before digital databases and online resources.

Supporting Education and Research

In academic settings, the handbook was a go-to resource for students learning about chemical reactions, thermodynamics, or material properties. Teachers relied on it to provide accurate examples, while researchers used it to verify experimental results or plan new studies.

Using the Handbook Today: Insights and Tips

Though modern editions and digital databases have largely replaced printed handbooks, the thirty-sixth edition still offers valuable insights: - **Historical Context:** Understanding how scientific data has evolved over time can deepen appreciation for modern standards. - **Data Verification:** Comparing historical values with current ones can highlight improvements in measurement techniques and scientific understanding. - **Archival Research:** For those studying mid-20th-century scientific literature, having access to the data sources contemporary to that period is crucial.

Tips for Navigating This Edition Efficiently

- Familiarize yourself with the organization of tables and indices to quickly locate needed data. - Cross-reference data points where possible; the handbook often provides multiple sources or methods for key values. - Pay attention to units and conversion factors, as some units in the 1950s edition differ from those commonly used today.

The Evolution of Chemical and Physical Data Compilation

The thirty-sixth edition represents a snapshot in the ongoing process of compiling and refining scientific data. Its publication during 1954-1955 came at a time when international collaboration and advances in measurement technology began to harmonize data standards globally. Since then, the Handbook of Chemistry and Physics has continued to expand and evolve, incorporating computerized data and embracing digital formats. This progression underscores the handbook's foundational importance as a trusted repository of knowledge.

From Print to Digital: A Journey of Accessibility

While the 1954-1955 edition was a physical book designed for bench chemists and physicists, today's versions exist online, searchable and instantly updated. Yet, the principles behind compiling accurate, reliable data remain unchanged from those early editions.

Final Reflections on the Thirty Sixth Edition

Exploring the handbook of chemistry and physics a ready reference book of chemical and physical data thirty sixth edition 1954 1955 reveals much about the scientific mindset and capabilities of its time. It is more than just a collection of numbers; it is a bridge connecting generations of scientists, a symbol of the quest for precision, and a tool that helped shape modern science. For anyone interested in the history of scientific data, or needing a trusted source reflective of mid-century science, this edition holds a special place. It continues to inspire appreciation for the meticulous work involved in gathering and verifying the chemical and physical data that underpin so much of our understanding of the natural world.

Handbook of Chemistry and Physics: A Ready Reference Book of Chemical and Physical Data Thirty Sixth Edition 1954 1955 **handbook of chemistry and physics a ready reference book of**

chemical and physical data thirty sixth edition 1954 1955 stands as a noteworthy milestone in the long-standing tradition of this essential scientific publication. As a comprehensive compendium of chemical and physical data, this edition reflects mid-20th-century advancements and consolidates crucial information for researchers, educators, and professionals engaged in the physical sciences and engineering. The thirty sixth edition, covering the years 1954 to 1955, continues the legacy of the Handbook of Chemistry and Physics in providing meticulously curated, reliable, and accessible data, making it an indispensable tool in laboratories and academic settings of its time.

Historical Context and Significance

The 1950s represented a period of rapid scientific development, particularly in chemistry and physics, fueled by the post-war technological boom and increasing industrial demand for precise data. The handbook's thirty sixth edition emerged against this backdrop, serving both as a reflection of contemporary knowledge and as a facilitator of further innovation. The continued publication of the Handbook of Chemistry and Physics during this era underscores its role as a foundational reference that scientists and engineers relied upon for accurate constants, properties, and formulas. This edition encapsulates data that had been rigorously evaluated and updated to reflect new discoveries and refined methodologies. The meticulous nature of the editorial process ensured that the handbook remained a trusted source, bridging the gap between theoretical research and practical application.

Scope and Coverage of the Thirty Sixth Edition

The handbook's extensive coverage includes fundamental physical constants, atomic and molecular data, thermodynamic properties, and a wealth of chemical information. This edition is particularly notable for its expanded statistical tables and improved presentation of complex data, which enhanced usability for practitioners across various scientific disciplines. Key topics covered in this edition include:

1. Atomic weights and isotopic compositions
2. Properties of gases, liquids, and solids at various temperatures and pressures
3. Thermodynamic tables, including heat capacities and enthalpies
4. Electrochemical data and standard electrode potentials
5. Physical constants and conversion factors

The thirty sixth edition's comprehensive data sets allowed for cross-disciplinary application, from chemical engineering to materials science, emphasizing the handbook's versatility.

Comparison with Previous Editions

When positioned alongside earlier editions, the 1954-1955 volume demonstrates significant improvements both in content accuracy and presentation clarity. While the foundational structure remained consistent, the editors incorporated newly available data and corrected discrepancies that had surfaced in prior editions. This careful curation enhanced the handbook's credibility and practical value. One prominent advancement in this edition was the refinement of thermodynamic tables, reflecting

enhanced measurement techniques and theoretical models developed during the early 1950s. By integrating these updates, the handbook provided more precise reference points critical for chemical reaction calculations and physical property estimations. Additionally, the expansion of electrochemical data mirrored the growing importance of electrochemistry in industrial processes and research. The inclusion of updated electrode potentials and related chemical data underscored the handbook's responsiveness to emerging scientific priorities.

Editorial Approach and Data Reliability

The editorial team behind the thirty sixth edition adopted a rigorous approach to data compilation, sourcing information from peer-reviewed scientific literature, government research, and industrial findings. This thorough vetting process ensured the handbook's data integrity, a crucial aspect for users who depended on exact values in experimental and theoretical work. Moreover, the book's layout and indexing systems were designed to facilitate rapid lookup, recognizing the practical needs of its audience. The combination of comprehensive content and efficient organization contributed to the handbook's sustained popularity.

Impact on Scientific and Educational Communities

The handbook's role as a ready reference was particularly vital in an era when digital databases were non-existent. Scientists, educators, and students depended heavily on such printed resources for verified chemical and physical constants. The thirty sixth edition's accessibility and breadth made it a cornerstone reference in university laboratories, research institutions, and industrial settings alike. In educational contexts, the handbook provided students with a reliable foundation for understanding the properties and behaviors of substances, reinforcing theoretical lessons with empirical data. Its clear presentation also supported self-directed learning for emerging scientists.

Usability and Format Features

Beyond its content, the physical and editorial design of the thirty sixth edition contributed to its usability:

1. **Compact Size:** Designed for portability, it could easily fit on laboratory benches or desks.
2. **Clear Tabulation:** Data was organized into well-defined tables with consistent formatting.
3. **Indexing and Cross-Referencing:** An extensive index enabled quick navigation to relevant sections.
4. **Standardized Units:** Use of SI and other commonly accepted measurement systems facilitated universal applicability.

These features, while seemingly straightforward by modern standards, were crucial for efficient reference use in the pre-digital age.

Legacy and Continued Relevance

While contemporary editions of the Handbook of Chemistry and Physics have evolved dramatically, incorporating digital formats and expanded datasets, the thirty sixth edition remains a valuable historical

document. It offers insight into the state of chemical and physical knowledge during the mid-20th century and highlights the evolution of scientific standards and data representation. Collectors, historians of science, and archivists often seek this edition for its authentic representation of the era's scientific rigor. Furthermore, researchers studying the development of chemical and physical data compilation find it useful as a benchmark against which to measure progress. The handbook's enduring legacy lies in its unwavering commitment to accuracy, comprehensiveness, and practical utility—qualities that have defined the publication throughout its history. The *handbook of chemistry and physics a ready reference book of chemical and physical data thirty sixth edition 1954 1955* exemplifies the meticulous effort to consolidate scientific data in an accessible format. Its role in supporting mid-century scientific endeavors underscores the importance of reliable data references in the advancement of chemistry and physics. As science continues to evolve, recognizing the contributions of such foundational works provides valuable context for ongoing innovation and education.

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No	Question	Answer
1	What is the significance of the 'Handbook of Chemistry and Physics, Thirty-Sixth Edition (1954-1955)'?	The Thirty-Sixth Edition of the 'Handbook of Chemistry and Physics' is a comprehensive reference book that compiles essential chemical and physical data widely used by scientists, engineers, and students during the mid-20th century. It served as an authoritative source for accurate and reliable data before the digital age.
2	Who published the 'Handbook of Chemistry and Physics, Thirty-Sixth Edition (1954-1955)'?	The 'Handbook of Chemistry and Physics, Thirty-Sixth Edition (1954-1955)' was published by the Chemical Rubber Company (CRC), which is now known as CRC Press, a well-known publisher of scientific reference materials.
3	What types of data are included in the 1954-1955 edition of the Handbook of Chemistry and Physics?	This edition includes a wide range of data such as atomic weights, physical constants, properties of elements and compounds, thermodynamic data, spectroscopy data, and formulas relevant to chemistry and physics.

4	Is the data in the 1954-1955 edition of the Handbook of Chemistry and Physics still relevant today?	While much of the fundamental data remains accurate, some values and constants have been updated with more precise measurements over time. Therefore, this edition is primarily of historical interest and can be useful for understanding the development of scientific data.
5	Where can one access a copy of the 'Handbook of Chemistry and Physics, Thirty-Sixth Edition (1954-1955)'?	Copies of this edition can often be found in university libraries, archives, or through second-hand book sellers. Digital versions may also be available through online archives or specialized scientific databases.

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