

# Hassium (Hs) Element

Atomic Number	108	$[Rn] 5f^{14} 6d^6 7s^2$	Electronic Configuration
	<b>Hs</b>		Symbol
	Hassium		Name
Atomic Weight	269		

# Heavy Element Properties

**United States. Congress. Joint  
Committee on Atomic Energy**



## Heavy Element Properties:

**ASTIA Subject Headings** Defense Documentation Center (U.S.),1959      *The Inorganic Radiochemistry of Heavy Elements* Ivo Zvara,2008-01-24 Developments in the title field have been greatly motivated by the studies of transactinoid elements selected experiments and their results are presented for visualization Primarily the book is about the physico chemical basis of the experimental methods and techniques which are or can be used for compounds of all heavy metals about evaluation of the desorption energies from the original gas solid chromatography data and about concepts and approaches which allow to estimate bulk properties of the compounds even from experiments with a few short lived atoms The book attempts for the first time critical discussion of the state of art from a coherent point of view to help better understanding It was written both for the newcomers to the field and experts its goal is also to stimulate wider use of the advantageous gas phase techniques for common elements

**Heavy Elements And Related New Phenomena (In 2 Volumes)** Walter Greiner,Raj Kumar Gupta,1999-06-17 This book reviews recent developments in the field of superheavy elements and the related phenomena of fission cluster radioactivity and drip line physics Both the experimental and theoretical aspects are dealt with in detail For the production of new elements in the laboratory the process of cold compound nucleus formation is found to be most favorable both theoretically and experimentally However experimentally hot fusion of nuclei has also been used Both the physical and chemical methods of synthesizing new elements are discussed The theoretical approaches considered here are those of the quantum mechanical fragmentation theory the self consistent Hartree Fock theory and the relativistic mean field theory Fission a process inverse to the fusion of two nuclei is also observed to be most favourably a cold phenomenon Other important results are bi modal fission and high n multiplicity fission which leads to the hyperdeformed scission mode Cluster radioactivity is discussed both as a heavy cluster emission process and as super asymmetric fission The theory as well as the present experimental status are reviewed Physics at drip lines is interesting not only for their structural properties but also for their use in the fusion of two nuclei both aspects are discussed

*Nuclear Reactions in Heavy Elements* V. M. Gorbachev,Y. S. Zamyatnin,A. A. Lbov,2013-09-03 Nuclear Reactions in Heavy Elements A Data Handbook focuses on the physical constants of the elements the properties of isotopes and data on radioactive decay This book examines the methods for obtaining heavy elements Organized into two parts encompassing nine chapters this book begins with an overview of data on neutron cross sections This text then provides salient information on cross sections of photo reactions and of interactions of charged particles with nuclei Other chapters consider some general characteristics of the fission process as well as the basic characteristics of spontaneous fission of heavy metals This book discusses as well the basic characteristics of binary fission of heavy nuclei including the energies and yields of fission elements their distribution with regard to mass and the range of fragments The final chapter deals with data on various kinds of radiation accompanying the fission process This book is a valuable resource for physicists and research

workers      *The Heaviest Metals* William J. Evans, Timothy P. Hanusa, 2019-01-08 An authoritative survey of the science and advanced technological uses of the actinide and transactinide metals *The Heaviest Metals* offers an essential resource that covers the fundamentals of the chemical and physical properties of the heaviest metals as well as the most recent advances in their science and technology The authors noted experts in the field offer an authoritative review of the actinide and transactinide elements i e the elements from actinium to lawrencium as well as rutherfordium through oganesson the current end of the periodic table element 118 The text explores the history of the metals their occurrence and issues of production and covers a broad range of chemical subjects including environmental concerns and remediation approaches The authors also offer information on the most recent and emerging applications of the metals such as in superconducting materials catalysis and research into medical diagnostics This important resource Provides an overview of the science and advanced technological uses of the actinide and transactinide metals Describes the basic chemical and physical properties of the heaviest metals and discusses the challenges and opportunities for their technological applications Contains accessible information on the fundamental features of the heaviest metals special requirements for their experimental study and the critical role of computational characterization of their compounds Highlights the most current and emerging applications in areas such as superconducting materials catalysis nuclear forensics and medicine Presents vital contemporary issues of the heaviest metals Written for graduate students and researchers working with the actinide and transactinide elements industrial and academic inorganic and nuclear chemists and engineers *The Heaviest Metals* is a comprehensive volume that explores the fundamental chemistry and properties of the heaviest metals and the challenges and opportunities associated with their present and emerging technological uses      *Theoretical Chemistry and Physics of Heavy and Superheavy Elements* U. Kaldor, Stephen Wilson, 2013-06-29 Quantum mechanics provides the fundamental theoretical apparatus for describing the structure and properties of atoms and molecules in terms of the behaviour of their fundamental components electrons and nucleons For heavy atoms and molecules containing them the electrons can move at speeds which represent a substantial fraction of the speed of light and thus relativity must be taken into account Relativistic quantum mechanics therefore provides the basic formalism for calculating the properties of heavy atom systems The purpose of this book is to provide a detailed description of the application of relativistic quantum mechanics to the many body problem in the theoretical chemistry and physics of heavy and superheavy elements Recent years have witnessed a continued and growing interest in relativistic quantum chemical methods and the associated computational algorithms which facilitate their application This interest is fuelled by the need to develop robust yet efficient theoretical approaches together with efficient algorithms which can be applied to atoms in the lower part of the Periodic Table and more particularly molecules and molecular entities containing such atoms Such relativistic theories and computational algorithms are an essential ingredient for the description of heavy element chemistry becoming even more important in the case of superheavy elements They are

destined to become an indispensable tool in the quantum chemist's armoury. Indeed, since relativity influences the structure of every atom in the Periodic Table, relativistic molecular structure methods may replace in many applications the non-relativistic techniques widely used in contemporary research. TID, 1968. **Research and Development in Progress**, 1973. Public Works for Water and Power Development and Energy Research Appropriations for Fiscal Year 1977 United States. Congress. Senate. Committee on Appropriations. Subcommittee on Public Works, 1976. The Chemistry of the Actinide Elements G.T. Seaborg, Joseph J. Katz, L.R. Morss, 2012-12-06. The first edition of this work appeared almost thirty years ago when, as we can see in retrospect, the study of the actinide elements was in its first bloom. Although the broad features of the chemistry of the actinide elements were by then quite well delineated, the treatment of the subject in the first edition was of necessity largely descriptive in nature. A detailed understanding of the chemical consequences of the characteristic presence of *f*-electrons in most of the members of the actinide series was still for the future and many of the systematic features of the actinide elements were only dimly apprehended. In the past thirty years, all this has changed. The application of new spectroscopic techniques which came into general use during this period and new theoretical insights which came from a better understanding of chemical bonding in inorganic chemistry and solid state phenomena were among the important factors that led to a great expansion and maturation in actinide element research and a large number of new and important findings. The first edition consisted of a serial description of the individual actinide elements with a single chapter devoted to the six heaviest elements; lawrencium, the heaviest actinide, was yet to be discovered. Less than 15 % of the text was devoted to a consideration of the systematics of the actinide elements. *Nuclear Science Abstracts*, 1975.

*Summaries of the USAEC Basic Research Program in Chemistry*, 1968. **Energy and Water Development Appropriations for 2004** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2003. 108-1 Hearings: Energy and Water Development Appropriations For 2004, Part 4, 2003, \*, 2003. Energy and Water Development Appropriations for 2004: Department of Energy fiscal year 2004 budget justifications United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2003. *Energy and water development appropriations for 2005* United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2004. **Energy and Water Development Appropriations For 2006, Part 4B, 109-1 Hearings, \***, 2005. ERDA Authorizing Legislation, Fiscal Year 1977 United States. Congress. Joint Committee on Atomic Energy, 1976. ERDA Authorizing Legislation, Fiscal Year 1977: On overall budget, 1 v. in 2 United States. Congress. Joint Committee on Atomic Energy, 1976. **Public Works for Water and Power Development and Energy Research Appropriations for Fiscal Year ...** United States. Congress. Senate. Committee on Appropriations, 1976.

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