

## Carbon And Its Compounds

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A look at the element carbon and its many forms.

Carbon with its unique characteristic properties has the ability to form uncountable number of compounds. Its compounds exist in abundance naturally as well as can be synthesized in a laboratory. The branch of chemistry that deals with carbon and its various compounds is termed as organic chemistry. It is an ever evolving discipline. Carbon compounds are used as raw material in industries like medicine, polymers, paints and pigments, agriculture, etc. This book discusses fundamental as well as modern approaches of organic chemistry. It strives to provide a fair idea about this subject and to help develop a better understanding of the latest advances within this field. It delves into the properties of matter, evaluation methods and techniques to understand the behaviour and reactions of organic compounds. It is a beneficial guide for professionals, researchers and students associated with this field.

Tungsten and Its Compounds is a three-chapter text that explores the history, properties, production, and use of tungsten and its related compounds. The first chapter deals with the discovery, applications, ore occurrence, and production of tungsten. The second chapter describes the physico-chemical properties of elemental tungsten, including the structural, thermal, optical, electrical, and mechanical properties, as well as its preparation, production, reactivity, adsorption, electrochemical properties, and analytical aspects. This chapter also examines tungsten's metallographic properties, such as melting, powder metallurgy, single crystals, and polycrystallinity. The third chapter reviews the properties of tungsten with other metals, metalloids, acids, and salts. This book is of value to inorganic, organic, and analytical chemists, as well as chemistry teachers and students.

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Many a time studying from the prescribed school text books becomes a little monotonous for kids. this series of encyclopaedias based on the concepts of Chemistry has been framed to educate children in a colourful and enjoyable manner.

The Chemistry of Fluorine and Its Compounds is an expanded and updated treatment of the

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material presented in a series of five lectures given by Professor Emeleus while in residence at the Polytechnic Institute of Brooklyn in November and December, 1966. This book is one of a series of monographs made possible by a Science Center Development Grant from the National Science Foundation that enabled the Institute's Department of Chemistry to establish a Distinguished Visiting Lectureship that is held successively by a number of eminent chemists, each of whom has played a leading part in the development of some important area of chemical research. The book opens with an introductory chapter on the chemistry of fluorine. This is followed by separate chapters on halogen fluorides, oxygen fluorides, hypofluorites, fluorides of Group III, carbon fluorides; and perfluoro organometallic compounds fluorides of silicon, germanium, tin, and lead. Subsequent chapters deal with fluorides of nitrogen and related compounds; fluorides of phosphorus, arsenic, antimony, and bismuth; and fluorides of sulfur, selenium, and tellurium.

The book will serve as a text supplement for undergraduate courses in material science, chemistry and chemical engineering as well as a reference source for research scholars. It will also serve as a concise guide for young entrepreneurs in this specialized area."--Jacket.

The comprehensive text builds up a sound base for higher classes. The accurate diagrams, activities and experiments are aimed at developing a scientific temper. Exhaustive exercises are given to test knowledge, understanding and application of concepts learnt. Project work and a glossary of scientific terms are the other distinguishing features along with a Science Virtual Resource Centre on [www.science.ratnasagar.co.in](http://www.science.ratnasagar.co.in)

Living Science for Classes 9 and 10 have been prepared on the basis of the syllabus developed by the NCERT and adopted by the CBSE and many other State Education Boards. Best of both, the traditional courses and the recent innovations in the field of basic Chemistry have been incorporated. The books contain a large number of worked-out examples, illustrations, illustrative questions, numerical problems, figures, tables and graphs.

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