

CHEMISTRY FORM THREE NOTES

CHEMISTRY OF CARBON

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A: CARBON

Carbon is an element in Group IV (Group 4) of the Periodic table. It has atomic number 6 and electronic configuration $2:4$ and thus has four valence electrons (tetravalent). It does not easily ionize but forms strong covalent bonds with other elements including itself.

(a) Occurrence

Carbon mainly naturally occurs as:

- (i) allotropes of carbon i.e. graphite, diamond and fullerenes.
- (ii) amorphous carbon in coal, peat, charcoal and coke.
- (iii) carbon(IV) oxide gas accounting 0.03% by volume of normal air in the atmosphere.

(b) Allotropes of Carbon

Carbon naturally occur in two main crystalline allotropic forms, carbon-graphite and carbon-diamond

Carbon-diamond	Carbon-graphite
Shiny crystalline solid	Black/dull crystalline solid
Has a very high melting/boiling point because it has a very closely packed giant tetrahedral structure joined by strong covalent bonds	Has a high melting/boiling point because it has a very closely packed giant hexagonal planar structure joined by strong covalent bonds
Has very high density (Hardest known natural substance)	Soft
Abrasive	Slippery
Poor electrical conductor because it has no free delocalized electrons	Good electrical conductor because it has free 4^{th} valency delocalized electrons
Is used in making Jewels, drilling and cutting metals	Used in making Lead-pencils, electrodes in batteries and as a lubricant
Has giant tetrahedral structure	Has giant hexagonal planar structure

c) Properties of Carbon

(i) Physical properties of carbon

Carbon occur widely and naturally as a black solid

It is insoluble in water but soluble in carbon disulphide and organic solvents.

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Marco Cascella



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Analytical Chemistry of Synthetic Colorants A.T. Peters,J. Szep,2013-03-09 More than one and a half decades have passed since the last book was published describing developments in the analytical chemistry of synthetic colorants In the intervening period the scope and technical capabilities of instrumentation for analysing dyes and pigments has significantly expanded It is now possible to rapidly resolve a number of problems whose solutions were previously either unattainable or very difficult to achieve For instance the unambiguous assignment of all the signals in the proton NMR spectrum of a trisazo direct dye and the confirmation of the molecular weight of involatile and in particular sulphonated dyes without derivatisation are now routine analytical techniques in many laboratories today In addition it is now possible to record the NMR spectrum of a dye molecule on less than 1 mg of material and we are no longer limited to solution spectra since solid samples can now be routinely analysed in NMR experiments Whilst not attempting to be all encompassing this volume is intended to bridge the gap between what was covered in the earlier work edited by Professor Venkataraman and the developments which have since ensued in some key areas It provides important updates in X ray crystallography proton NMR IR spectroscopy and mass spectrometry and additionally covers topics such as ESR micro spectrophotometry and emission spectroscopy New Scientist ,2007 Managing Air Quality and Energy Systems Brian D. Fath,Sven Erik Jorgensen,2020-07-29 Bringing together a wealth of knowledge the Handbook of Environmental Management Second Edition gives a comprehensive overview of environmental problems their sources their assessment and their solutions Through in depth entries and a topical table of contents readers will quickly find answers to questions about pollution and management issues This six volume set is a reimagining of the award winning Encyclopedia of Environmental Management published in 2013 and features insights from more than 500 contributors all experts in their fields The experience evidence methods and models used in studying environmental management is presented here in six stand alone volumes arranged along the major environmental systems Features of the new edition The first handbook that demonstrates the key processes and provisions for enhancing environmental management Addresses new and cutting edge topics on ecosystem services resilience

sustainability food energy water nexus socio ecological systems and more Provides an excellent basic knowledge on environmental systems explains how these systems function and offers strategies on how to best manage them Includes the most important problems and solutions facing environmental management today In this second volume Managing Air Quality and Energy Systems the reader is introduced to the general concepts and processes of the atmosphere with its related systems This volume explains how these systems function and provides strategies on how to best manage them It serves as an excellent resource for finding basic knowledge on the atmosphere and includes important problems and solutions that environmental managers face today This book practically demonstrates the key processes methods and models used in studying environmental management *Chemical and Physical Processes in Combustion* Combustion Institute (U.S.). Eastern States Section. Fall Technical Meeting, 1994 *Advances in x-ray analysis* Charles Sanborn Barrett, 1986 Australian Journal of Chemistry ,2004 **Advances in X-ray Analysis** ,1986 **AGARD Advisory Report** North Atlantic Treaty Organization. Advisory Group for Aeronautical Research and Development, 1980 Physics Briefs ,1993 Chemical Engineering Progress ,2009 **European Journal of Inorganic Chemistry** ,2004 **34th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit** ,1998 *Computational Technologies for Fluid/thermal/structural/chemical Systems with Industrial Applications* Vladimir V. Kudriavtsev, Chris R. Kleijn, 1998 This two volume set of papers from the July 1998 Conference emphasizes industrial applications of computational technologies with a focus upon case studies technology and commercial CFD software development Volume I 37 articles discusses multiphase flows and CFD fluid thermal and structure inter Energy Research Abstracts ,1995 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes *Dissertation Abstracts International* ,2008 30th AIAA Fluid Dynamics Conference ,1999 **30th AIAA/ASME/SAE/ASEE Joint Propulsion Conference** ,1994

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