

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
Abrassive	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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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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