

MCAT Chemistry – Medical College Admission Test Preparation

→ AROMATIC COMPOUNDS

CHAPTER # 24

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1. Benzene is soluble in:
(a) alcohol
(c) ether
(b) petrol
(d) all of these

2. Benzene is insoluble in:
(a) water
(c) petrol
(b) alcohol
(d) ether

3. Chlorination of benzene is:
(a) An electrophilic substitution reaction
(c) A free-radical reaction
(b) A nucleophilic substitution reaction
(d) An elimination reaction

4. The total number of sigma bonds in benzene are:
(a) 6
(c) 18
(b) 12
(d) 3

5. The Pi (π) molecular orbital in benzene contains:
(a) 2 electrons
(c) 6 electrons
(b) 4 electrons
(d) 3 electrons

6. The C – C – C bond angles in benzene are:
(a) 120°
(c) 109.28°
(b) 90°
(d) 180°

7. The carbon–carbon bond length in benzene is:
(a) longer than a C – C single bond
(c) Shorter than a C = C double bond
(b) longer than a C = C double bond
(d) Shorter than a C O \equiv C triple bond

8. Two adjacent substituents on benzene ring is said to be:
(a) Ortho to one another
(c) Para to one another
(b) Meta to one another
(d) None of the above

Mcqs In Aromatic Compounds

Arshad Iqbal

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Shahana Ansari,Abhishika Kaushik,2021-09-10 1 This book deals with CBSE New Pattern Chemistry for Class 11 2 It is divided into 7 Chapters as per Term 1 Syllabus 3 Quick Revision Notes covering all the Topics of the chapter 4 Carries all types of Multiple Choice Questions MCQs 5 Detailed Explanation for all types of questions 6 3 practice papers based on entire Term 1 Syllabus with OMR Sheet With the introduction of new exam pattern CBSE has introduced 2 Term Examination Policy where Term 1 deals with MCQ based questions while Term 2 Consists of Subjective Questions Introducing Arihant s CBSE New Pattern Series the first of its kind providing the complete emphasize on Multiple Choice Questions which are designated in TERM 1 of each subject from Class 9th to 12th Serving as a new preparatory guide here s presenting the all new edition of CBSE New Pattern Chemistry for Class 11 Term 1 that is designed to cover all the Term I chapters as per rationalized syllabus in a Complete Assertion Reasoning Based MCQs and Cased MCQs for the overall preparation Detailed Explanations of the selected questions help students to get the pattern and questions as well Lastly 3 Practice Questions are provided for the revision of the concepts TOC Some Basic Concept of Chemistry Structure of Atom Classification of Elements and Periodicity in Properties Chemical Bonding and Molecular Structure Redox Reactions Hydrogen Organic Chemistry Some Basic Principles and Techniques Practice Papers 1 3 A

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in the set and these are all sold as one entity This book provides an up to date and comprehensive account of aromatic chemistry A series of chapters describes the synthesis and reactions of the major functional derivatives of benzene and the more common polycyclic systems The concept of aromaticity and the mechanism of aromatic substitution are discussed as is the use of metals in the synthesis of aromatic compounds Throughout emphasis is placed on mechanisms Worked problems and questions are provided to aid understanding In addition to providing material required by an undergraduate studying chemistry Aromatic Chemistry is also ideal for industrial chemists seeking to update their knowledge of this important aspect of chemistry Ideal for the needs of undergraduate chemistry students Tutorial Chemistry Texts is a major new series consisting of short single topic or modular texts concentrating on the fundamental areas of chemistry taught in undergraduate science courses Each book provides a concise account of the basic principles underlying a given subject embodying an independent learning philosophy and including worked examples *International Books in Print* ,1986 A

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College Chemistry MCQs Arshad Iqbal, 2017-08-29

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Aromatic Character and Aromaticity G. M. Badger, 1969-01-02 Originally published in 1969 this book analyses the special properties of benzene and its derivatives which give them their distinct aromatic character. The text first discusses the structure of benzene including the light shed on it by physical methods and wave mechanics and the structure of polycyclic benzenoid hydrocarbons and heterocyclic aromatic compounds. Aromaticity is defined as a function of the electronic structure of the molecule or ion in question and it is shown that this has important consequences in respect of bond lengths resonance energies electronic absorption spectra and induced ring currents. Final chapters discuss how far aromatic character and aromaticity are associated with non benzenoid hydrocarbons and with more complex systems.

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$$a = \begin{array}{ccccccccc} 2 & 2 & 0 & 1 & 1 & 0 & 1 & 1 & 0 \\ 1 & 1 & 3 & 0 & 1 & 1 & 1 & 1 & 1 \end{array}$$
 end array right
$$a = \begin{array}{ccccccccc} 2 & 0 & 1 & 1 & 1 & 0 & 1 & 3 & 1 \end{array}$$

$$a = \begin{array}{ccccccccc} 1 & 0 & 0 & 1 & 1 & 3 & 1 & 1 & 5 \end{array}$$
 5 times 4 5 4 4 times 5 4 5 20 problem 2

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web so there are two quantities which can be found in a matrix minors and cofactors minors exist for each element of the matrix and are defined as the determinant of the matrix you get when you ignore the row and column of the element in question for example if my matrix is as follows 1 2 3 4 5 6 7 8 9

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