

MCAT Chemistry - Medical College Admission Test Preparation

 **AROMATIC COMPOUNDS**

CHAPTER # 24

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1. **Benzene is soluble in**
(a) alcohol (b) petrol
(c) ether (d) ☒ all of these
2. **Benzene is insoluble in**
(a) ☒ water (b) alcohol
(c) petrol (d) ether
3. **Chlorination of benzene is:**
(a) ☒ An electrophilic substitution reaction (b) A nucleophilic substitution reaction
(c) A free-radical reaction (d) An elimination reaction
4. **The total number of sigma bonds in benzene are:**
(a) 6 (b) ☒ 12
(c) 18 (d) 3
5. **The Pi (π) molecular orbital in benzene contains:**
(a) 2 electrons (b) 4 electrons
(c) ☒ 6 electrons (d) 3 electrons
6. **The C – C – C bond angles in benzene are:**
(a) ☒ 120° (b) 90°
(c) 109.28° (d) 180°
7. **The carbon-carbon bond length in benzene is:**
(a) longer than a C – C single bond (b) ☒ longer than a C = C double bond
(c) Shorter than a C = C double bond (d) Shorter than a C \equiv C triple bond
8. **Two adjacent substituents on benzene ring is said to be:**
(a) ☒ Ortho to one another (b) Meta to one another
(c) Para to one another (d) None of the above

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