

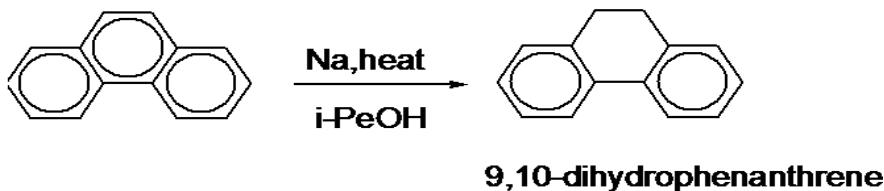
PHARMACEUTICAL ORGANIC CHEMISTRY-II- BP301T

UNIT: 4 Polynuclear hydrocarbons

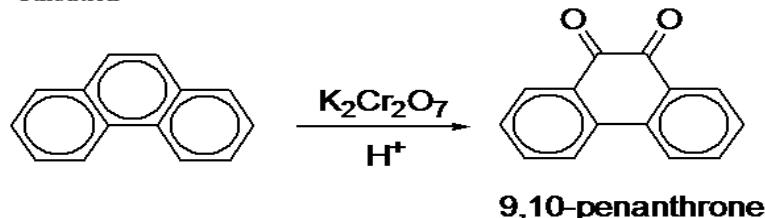
CLASS: 7

- **TOPIC: Phenanthrene *Reactions of Phenanthrene***

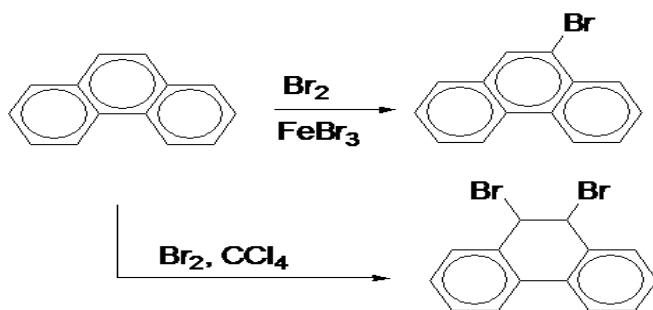
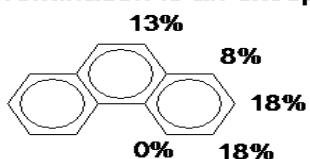
Reduction



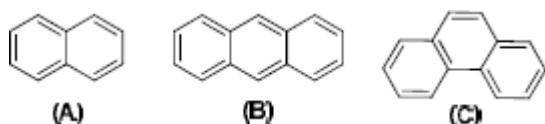
Oxidation



Bromination is an exception:



- **Aromatic character of naphthalene, anthracene and phenanthrene**



- Resonance energy of A = 61 kcal mol⁻¹
- Resonance energy of B = 84 kcal mol⁻¹
- Resonance energy of C = 92 kcal mol⁻¹
- Resonance energy of benzene = 36 kcal mol⁻¹

- **Reactions Phenanthrene** (Electrophilic addition versus electrophilic substitution)

