

(P-1)

ONLINE CLASS

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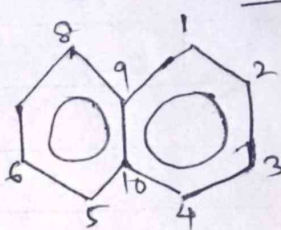
Chemistry - sem - Vth MIC-9
BY - DR. M.K.R

NAPHTHALENE

Napthalene is an organic aromatic hydrocarbon. It is the simplest fused polycyclic aromatic compound, made of two benzene ring joined together. Commonly known as mothballs.

General formula $C_{10}H_8$

It is white crystalline solid. It's melting point $176.5^{\circ}F$ and boiling point $424.2^{\circ}F$. It's molecular weight 28.179 g/mol.



IUPAC
Bicyclo
[4,4,0]dec
1,3,5,7,9
Pentene

Napthalene occurs chiefly in a coal tar. present in petroleum oil.

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Preparation of Naphthalene

- ① FROM Haworth synthesis:- This involves a Friedel-Craft reaction between benzene and succinic anhydride and the resulting acid is reduced under clemmensen conditions and the ring is closed to α -tetralone with subsequent reduction and dehydrogenation yields naphthalene

