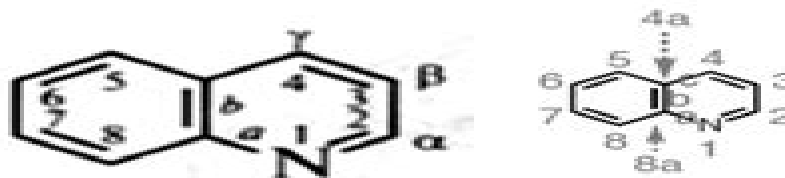


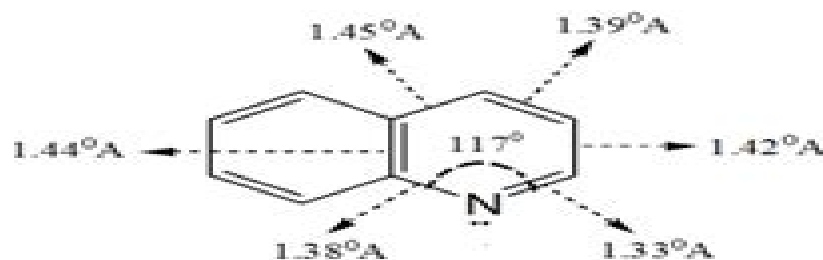
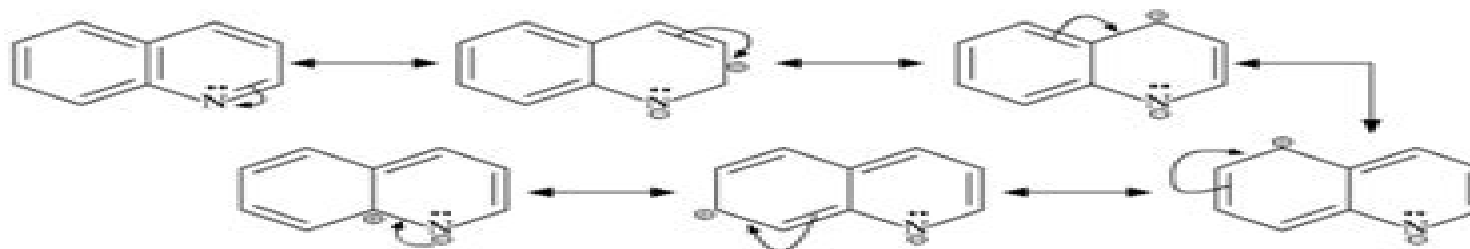
## QUINOLINE

- Quinoline is a heterocyclic aromatic organic compound with the chemical formula  $C_8H_7N$ .
- Quinoline (benzo[b]pyridine) is a fused heterocyclic system consisting of a benzene ring fused with pyridine cycle. It can be also considered as the heterocyclic analogue of naphthalene (1-azanaphthalene).
- Systematic IUPAC name:** 1-Benzopyridine; Benzo[b]pyridine; Benzo[b]azine; Benzo[b]azabenzene.
- Other names:** 1-Azanaphthalene; 1-Benzazine; Benzazine; Benzazabenzene; Benzopyridine; Quinolin; Chinoline; Chinoleine; Chinolin; Leucol; Leukol; Leucoline.
- Quinoline is a colourless liquid with an unpleasant odour and boiling point  $237^\circ\text{C}$ . It is miscible with water, ethanol and ether; it may be distilled by steam distillation.



### Structure of Quinoline:

- All ring atoms in Quinoline are  $sp^2$  hybridize.
- The nitrogen lone pair electrons reside in an  $sp^2$  orbital and not involved in the formation of the delocalized  $\pi$  molecular orbital.
- It shows aromatic properties because its  $\pi$  orbital contains ten electrons & satisfied the Huckel's rule ( $n = 2$  is  $4n+2$ ).
- The resonance of Quinoline:



Bond lengths and angles of Quinoline

# Quinolines The Chemistry Of Heterocyclic Compounds

**Lingjun Ying**



## **Quinolines The Chemistry Of Heterocyclic Compounds:**

## Unveiling the Magic of Words: A Review of "**Quinolines The Chemistry Of Heterocyclic Compounds**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Quinolines The Chemistry Of Heterocyclic Compounds**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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