

**Quadrant II- Transcript and Related Materials**

**Programme: Bachelor of Science (First Year)**

**Subject: Chemistry**

**Course Code: CHC102**

**Course title: Physical Chemistry and Organic Chemistry**

**Unit: Alkyl and Aryl Halides**

**Module Name: Aryl Halides : Reactions (Chlorobenzene):**

**Benzyne mechanism :  $\text{KNH}_2/\text{NH}_3$  or  $\text{NaNH}_2/\text{NH}_3$**



**Name of the presenter : Ashvini Y. Pujari**

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**Glossary of terms/words:**

Aryne or Benzyne Intermediate, Aryl Halides, Chlorobenzene, Nucleophilic Aromatic Substitution.

**Possible misconceptions/clarification:**

1. Arrows showing movements of electrons in a wrong way as it should be from electron rich species to electron deficient species i.e  $(-) \rightarrow (+)$ .
2. Showing units for Dissociation constant, pH and pKa where all three parameters does not have units.
3. The arrow showing movements of two electrons should be  instead of .
4. Showing proper charges on electron rich species with negative charge  $(-)$  and electron deficient species with positive charge  $(+)$ .
5. Side products formed in the reaction are not shown.

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### **Notes:**

The presentation itself is to be considered as notes.

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