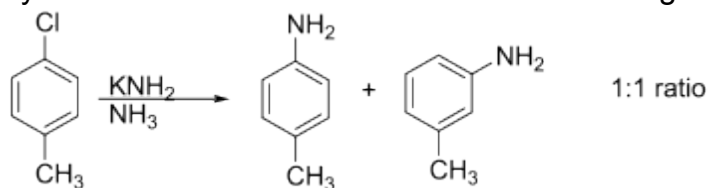


Reactions of Benzyne

Answer the following questions to the best of your ability. Once you have completed the assignment, be sure to check your answers against the answer key.

1. Benzyne are very reactive intermediates. Please explain why they are so reactive, and the best way to trap those reactive intermediates.

2. Explain why benzyne is one of the intermediates in the following reactions:



3. Describe four methods for the preparation of benzyne?

4. Show how benzyne can be used in electrophilic addition reactions.

5. What is the product of dimerization of benzyne? Show the mechanism.