

ANSWER THE FOLLOWING QUESTIONS

1. Outline the mechanism for the formation of your iodophenol, starting from your assigned phenol.
2. Why did the iodination take place at the specific ring carbon you proposed?
3. Why does the amount of diiodination increase at elevated temperatures?
4. Why is it important to add the sodium hypochlorite solution *slowly* over a 30-minute period, rather than adding it all at once?

5. Indicate which product would be formed upon the iodination of each of the following compounds:

a) eugenol

b) salicylic acid

6. Indicate which product would be formed upon the *nitration* of each of the following compounds, using the traditional method:

a) benzene

b) toluene

c) chlorobenzene

d) benzoic acid