

the $(\text{CH}_3)_2$ group by reaction



could be considered if
used as a synthetic
in 22.9c, we will see
the N^+ , which can
And in Chapter 21,
the incorporation of



nitrobenzene
of benzene.

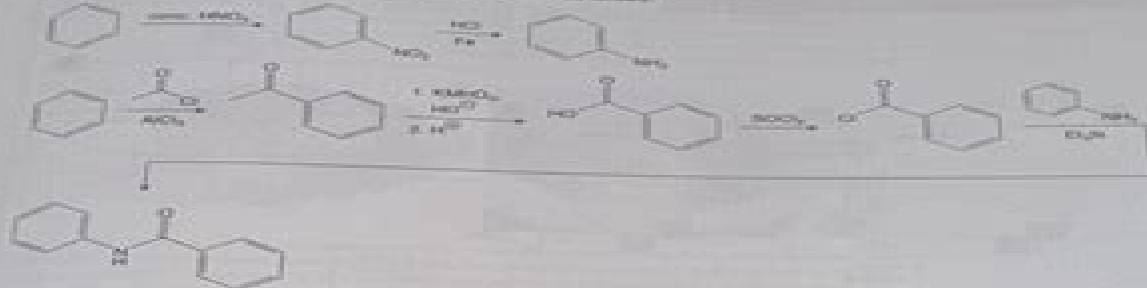
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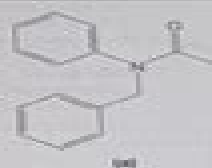
nitrobenzene



The synthesis in the forward direction could then be written as follows:



problem 22.21 Show how to synthesize each of these compounds, using benzene as the only aromatic starting compound.



22.9c The Benzenediazonium Ion and the Sandmeyer Reactions

Benzenediazonium is produced when aniline is treated with sodium nitrite (NaNO_2) under acidic conditions, followed by cuprous bromide (CuBr) (Equation 22-31).



Overall, Br has replaced NH_2 , but the mechanism is not a simple electrophilic aromatic substitution. As shown in Equation 22-32, the first of the two reactions is a multi-step mechanism, which ultimately produces a benzenediazonium ion.

Organic Chemistry Principles And Mechanisms

Lingjun Ying



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