

Practical 1- Borohydride reduction

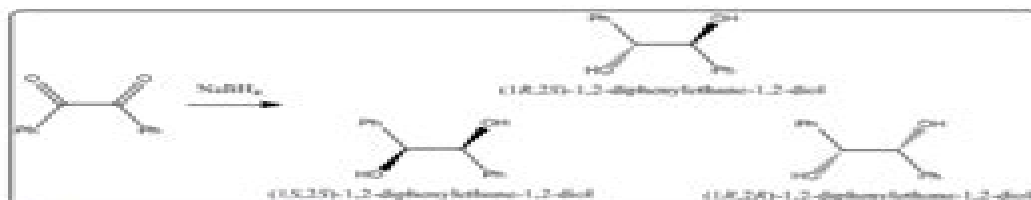
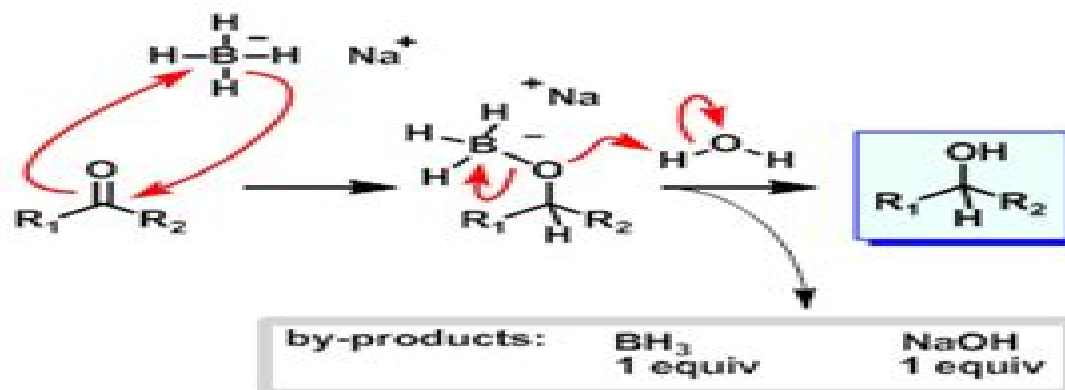


Figure 3: Reduction of Benzil to hydrobenzoin with Possible Formation of Three Stereochemical Products.

- We use sodium borohydride and methanol.
- There are two steps to the mechanism:
 1. Reduction with sodium borohydride (borohydride is nucleophilic)
 2. Addition of HCl \rightarrow acid workup process where you destroy any remaining borohydride. Protonation of the basic alkoxide with hydrochloric acid to form the alcohol.
- BH_4^- - CH_4 NH_4^+ All have 8 valence electrons therefore form a tetrahedron shape
- $\text{N}(\delta^-)$ - $\text{H}(\delta^+)$. But as N is more electronegative than C, therefore $\rightarrow \text{C}(\delta^+) - \text{H}(\delta^-)$



- The phenol ring is represented on the IR spectrum which is approximately 3000cm^{-1} . Therefore, when we stretch this molecule, it leads to a large spread of charge.
- If we use NaB_2D_4 instead of NaBH_4 , we get a product which has a 2D instead of H . We can then detect this using IR.
- Use symmetry in NMR to determine the environments in protons. If the molecule does not sit on a planar - this can lead to different proton interactions, forming different environments.

Sodium Borohydride Practical Manual

RJ Shavelson



Sodium Borohydride Practical Manual:

Adopting the Song of Expression: An Emotional Symphony within **Sodium Borohydride Practical Manual**

In some sort of consumed by monitors and the ceaseless chatter of fast interaction, the melodic splendor and psychological symphony produced by the prepared word often fade into the background, eclipsed by the persistent noise and disturbances that permeate our lives. But, located within the pages of **Sodium Borohydride Practical Manual** an enchanting literary treasure overflowing with natural emotions, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, this fascinating masterpiece conducts readers on an emotional trip, skillfully unraveling the hidden tunes and profound impact resonating within each cautiously constructed phrase. Within the depths of the poignant evaluation, we can investigate the book's main harmonies, analyze their enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers' souls.

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