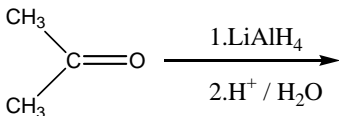


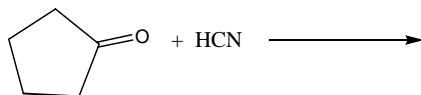
Name:

1. Predict the organic product from the following reactions. Briefly justify your answer in each case.

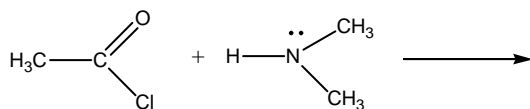
(i)



(ii)



(iii)



2. Addition of water to 1-propene in the presence of conc. H_2SO_4 (catalyst) could, in principle, give two products.
- Name the possible products.
 - Explain in detail why only one of these products is formed.

5. Provide a detailed mechanism for the **Aldol reaction** of butanal under basic conditions (NaOH).

