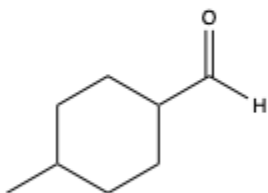
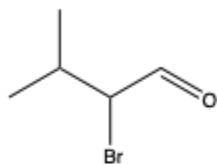
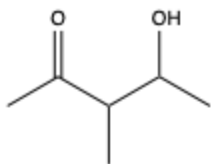


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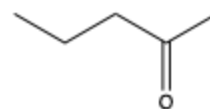
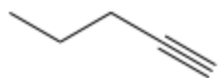
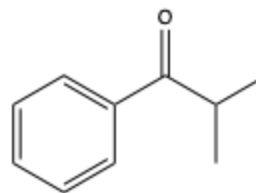
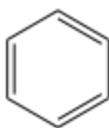
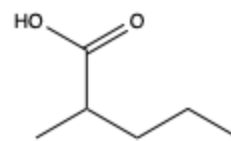
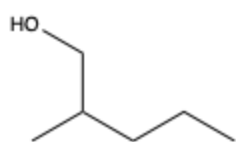
1. Name/Draw the following Aldehydes and Ketones



(*E*)-but-2-enal

3-bromo-5-methylacetophenone

2. List the reagents to synthesize the following compounds

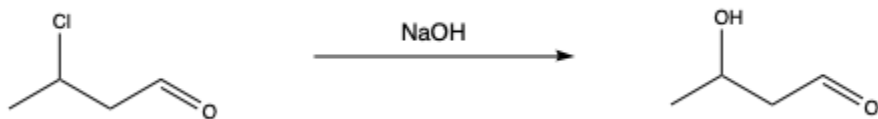


3. Draw the general mechanism for a weak nucleophile attacking formaldehyde, then draw the general mechanism for a strong nucleophile attacking.

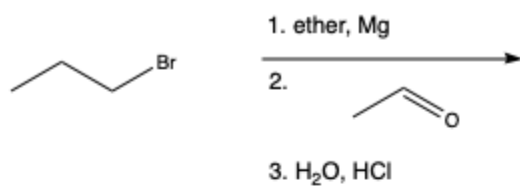
4. Draw the major product and mechanism for the following reaction. What might occur if you add H^+ and ethanol to the final product? Draw a mechanism for that as well.



5. Why would this reaction not work? How could we get it to work?



6. Give the major product(s) for the following reactions



7. Synthesize the following molecule from 2-bromopropane

