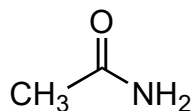
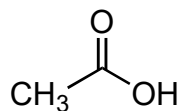


3A) (6 pts) Which is the **better electrophile** (**A**, **B** or neither)? Explain, using appropriate drawings to support your answer. Be sure to address resonance effects.

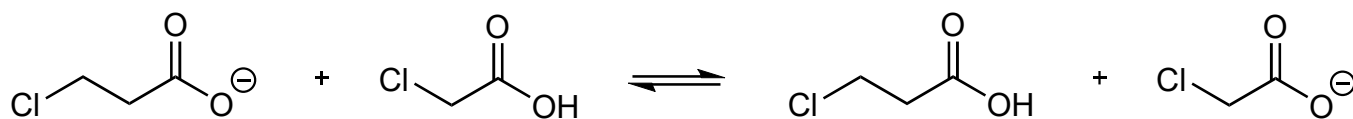


**A**

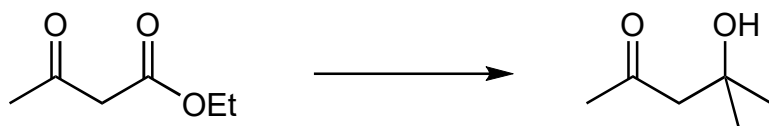


**B**

3B) (6 pts) Which reaction is favored (forward, reverse, or neither)? Explain briefly.



3C) (6 pts) Briefly explain why the following transformation requires the use of a protective group, and show the reagents needed to convert the given starting material into the desired product.



Explain: