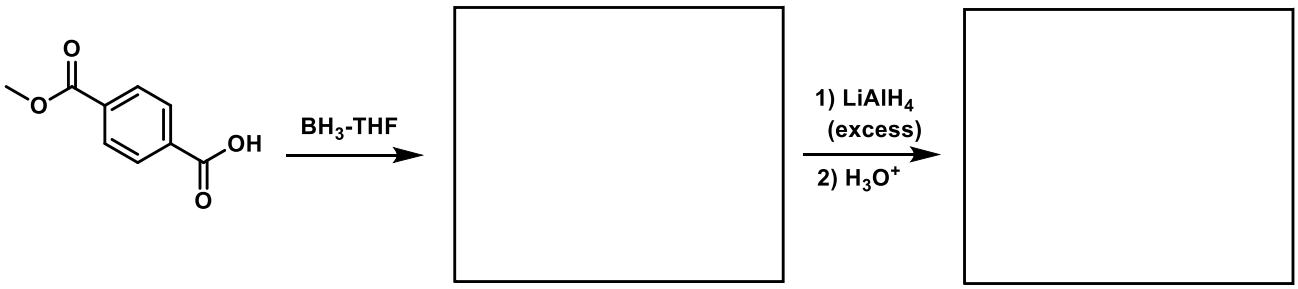
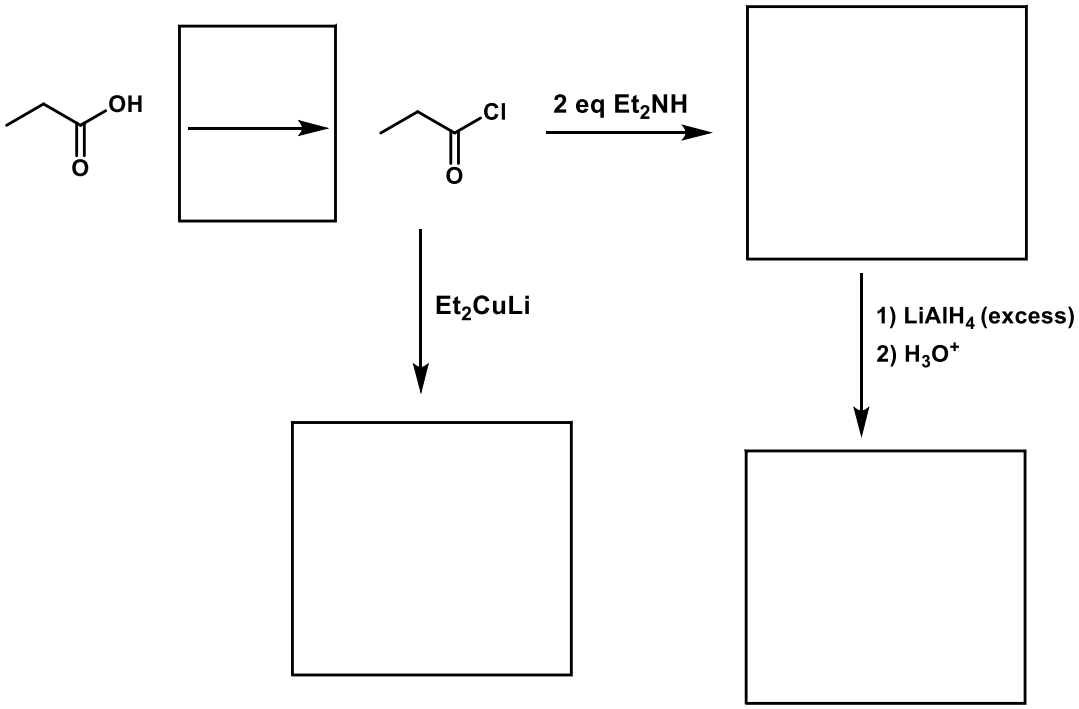
CHEM 212 👁👄👁 🌸🌈 Spring 🌈🌸2023 Bestie: _____

🤠👩‍🎤 *Quiz 5* 👩‍🎤🤠

🎓🦉😈 *Hell Week* 😈🦉🎓 *Version*

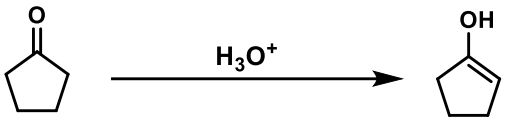
1. ✔Fill in✔ the 🤔missing🤔 🟨products🟨, 🌾reactants🌾, or 🧪reagents🧪 below.





Et = ethyl group

2. 🎁Give me🎁 a 🧍step-wise🧍 ✨❤️mechanism❤️✨ for the 🔜following🔜 glow-up 🐛➡️🪨➡️🦋



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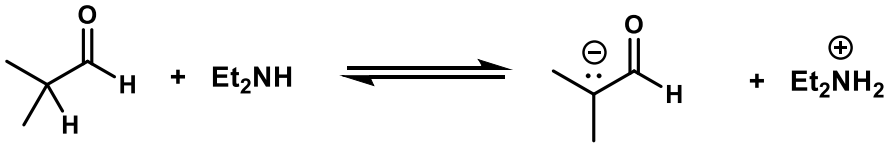
3. For their 🐕lab🐕 synthesis project, a 👩‍🔬student👩‍🔬 plans to use 👃🐟Et_2NH🐟👃 as a 🅱️ase to form an 🤡😱enolate ion😱🤡, as shown by the 💥reaction💥 below ⬇️. Is their plan 💯bussin💯 or 🇱🇰sus🇱🇰? Use 😍pKa values😍 to justify the W😎👌 or 👎😢L with a K_{eq}⚖️. Francium, Francium, no 🧢. (🦹🧠hint: one of the given pKa values is not relevant🧠🦹)



$pK_a = 18$ $pK_a = 38$ $pK_a = 11$

K_{eq} =

Explanation:

Who got ratio'd? The enolate or the aldehyde?