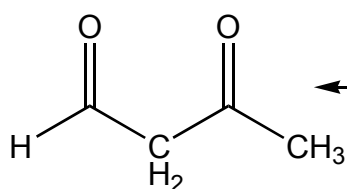
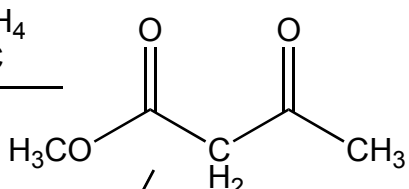


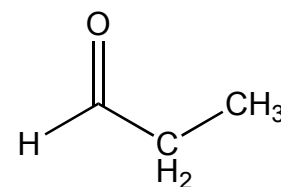
1. NaOH
2. H⁺ workup
3. PCC



1. Jones reagent
2. excess CH₃OH, H⁺
3. NaOCH₃, CH₃OH
4. H⁺ workup

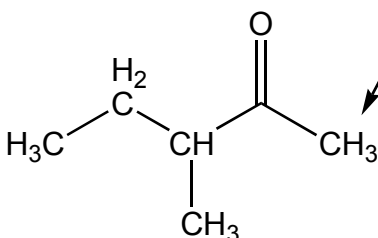


1. LDA
2. CH₃Br

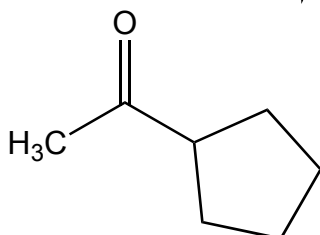


1. LiAlH₄
2. PCC

1. NaOCH₃, CH₃Br
2. NaOCH₃, CH₃CH₂Br
3. Jones reagent
4. H₃O⁺, heat

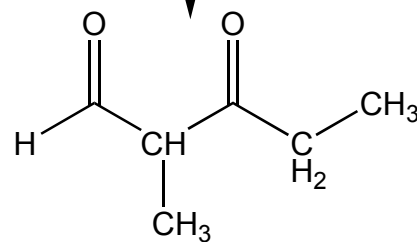


1. NaOCH₃, CH₃Br
2. NaOCH₃, CH₃CH₂Br
3. H₃O⁺, heat

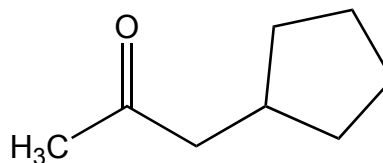


1. excess NaOCH₃, Br(CH₂)₄Br
2. H₃O⁺, heat

1. NaOH
2. H⁺ workup
3. PCC



1. NaOCH₃, Br-C₅H₉



2. H₃O⁺, heat