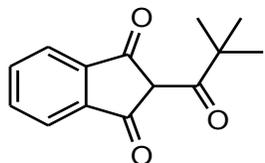


ORGANIC CHEMISTRY, SEMESTER 4

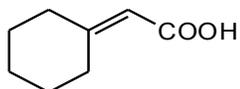
Show retrosynthetic pathway and synthesis of the following compounds:

1)

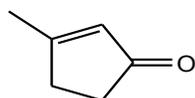


[Hint: From acetone via Pinacol-Pinacolone]

2)

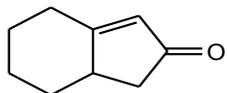


3)



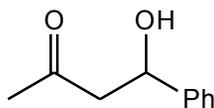
[Hint: From 1,4- Dicarbonyl compound]

4)



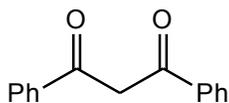
[Hint: From cyclohexanone]

5)

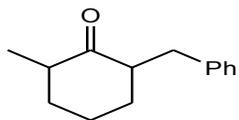


[Hint: From benzaldehyde]

6)

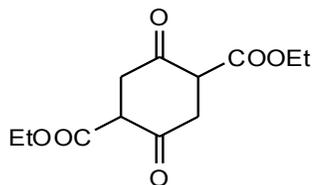


7)



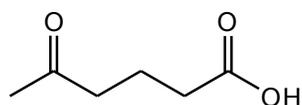
[Hint: From cyclohexanone]

8)



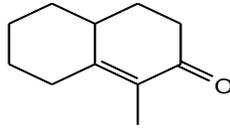
[Hint: From DES]

9)

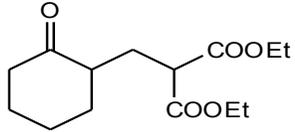


[Hint: From DEM]

10)

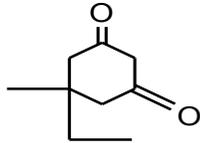


11)



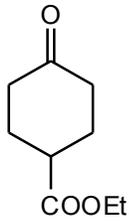
[Hint: From cyclohexanone]

12)

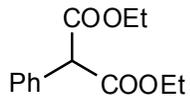


[Hint: From acetone via aldol]

13)



14)



[Hint: From benzyne]

15)

