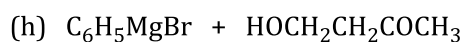
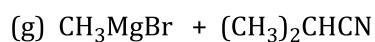
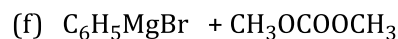


Problems - Set 8 : Carbonyl compounds (part III)

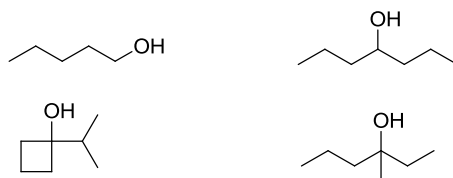
Problem 1

Write the mechanisms and the structures of the products of the following reactions involving Grignard reagents.



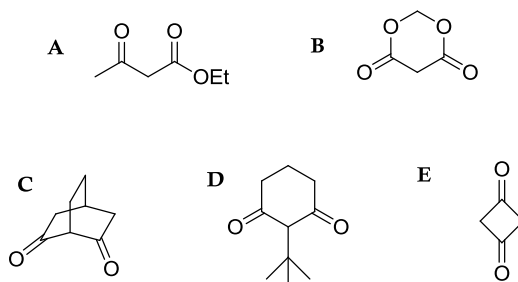
Problem 2

How to make these compounds using Grignard reagents from starting materials that have maximum 4 carbons each.



Problem 3

1,3-Dicarbonyl compounds such as A are mostly enolized. Why? Draw the enols of compounds B-E and explain why B prefers the enol form whereas C, D and E prefer the ketone form.



Problem 4

Arrange each series of compounds in order of decreasing acidity at the alpha-position.

