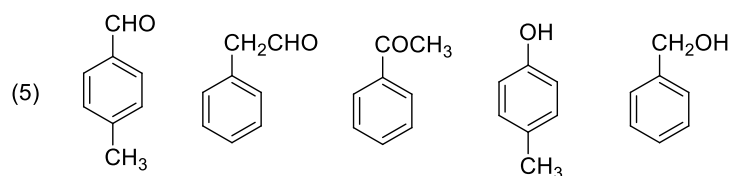


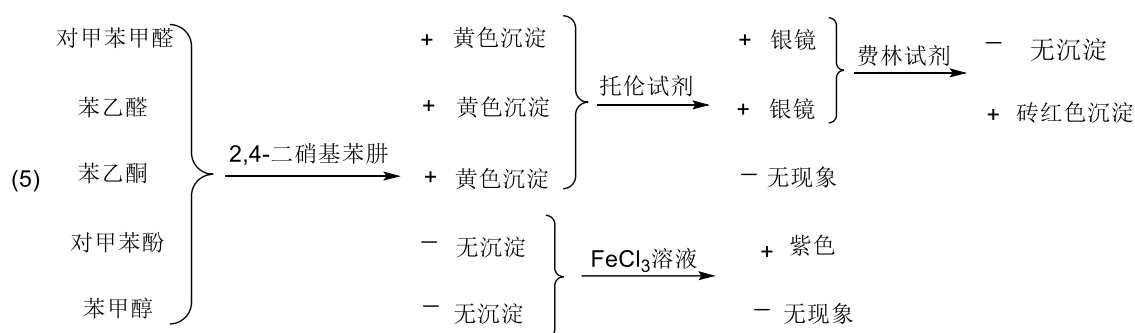
第十七次作业答案

P417

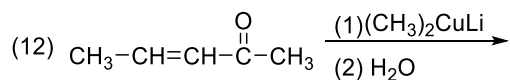
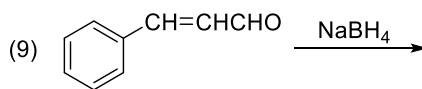
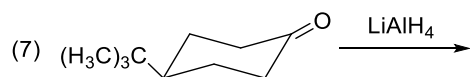
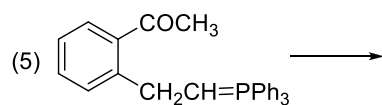
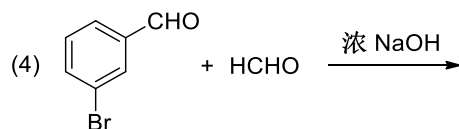
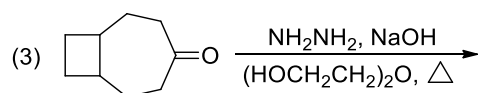
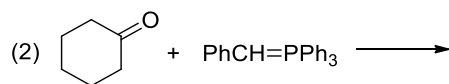
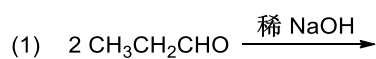
5. 怎样区别下列各组化合物？



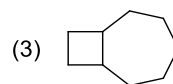
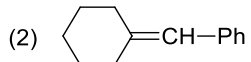
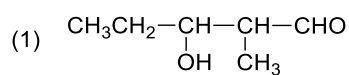
解答：

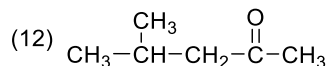
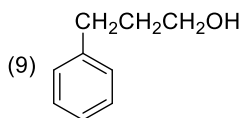
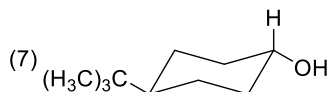
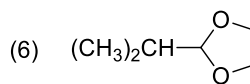
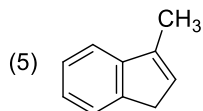
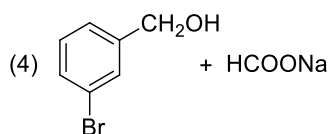


7. 写出下列反应的主要产物：

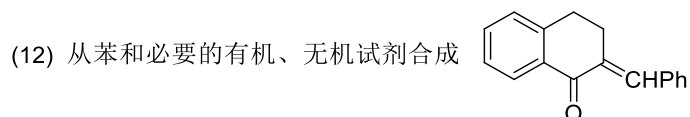


解答：

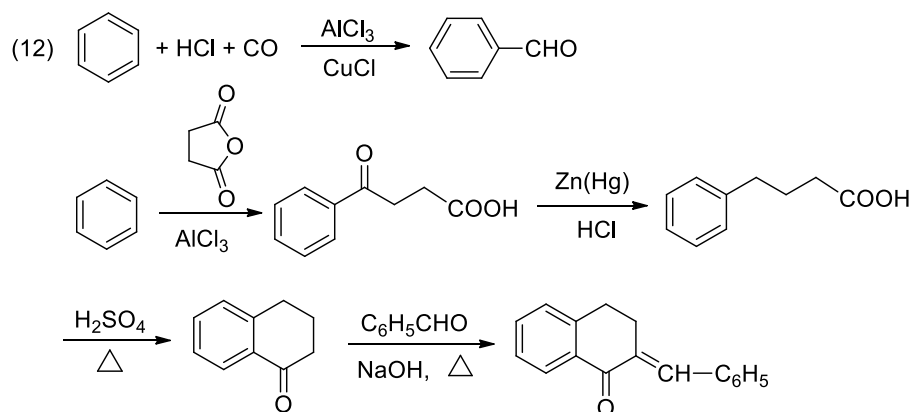




10. 由指定原料合成:

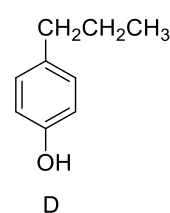
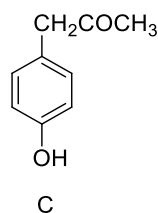
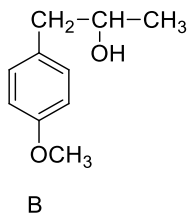
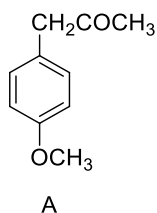


解答:



14. 化合物 $\text{C}_{10}\text{H}_{12}\text{O}_2$ (A) 不溶于 NaOH 溶液, 能与 2,4-二硝基苯肼反应, 但不与 Tollens 试剂作用。A 经 LiAlH_4 还原得 $\text{C}_{10}\text{H}_{14}\text{O}_2$ (B)。A 和 B 都能起碘仿反应。A 与 HI 作用生成 $\text{C}_9\text{H}_{10}\text{O}_2$ (C), C 能溶于 NaOH 溶液, 但不溶于 NaHCO_3 溶液。C 经 Clemmenson 还原生成 $\text{C}_9\text{H}_{12}\text{O}$ (D); B 经 KMnO_4 氧化得对甲氧基苯甲酸。试写出化合物 (A) ~ (D) 可能的构造式。

解答: 根据题意推测出化合物 A ~ D 的可能构造式如下:



18. 化合物 A, 分子式为 $\text{C}_9\text{H}_{10}\text{O}$, 碘仿试验呈阴性, IR 谱中 1690 cm^{-1} 处有一强吸收峰, ^1H NMR 谱中 $\delta 1 \sim 2$ (3H), 三重峰, $\delta 3.0$ (2H), 四重峰, $\delta 7.7$ (5H), 多重峰。试推测出化合物 A 的结构。

解答：根据题意推测出化合物 A 的结构如下：

