

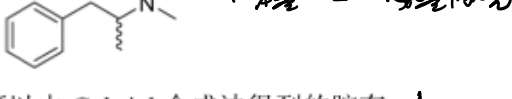
14 含氮化合物

2021年12月10日 星期五 上午8:07

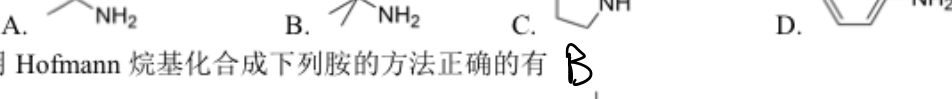
14 含氮化合物

一、选择，排序与填空题

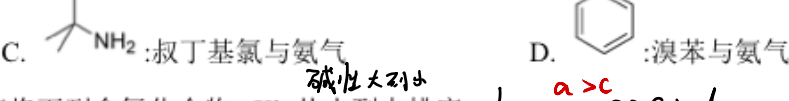
1. 给出下列化合物的名称



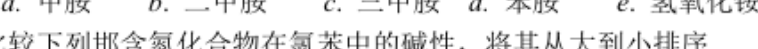
2. 可以由 Gabriel 合成法得到的胺有



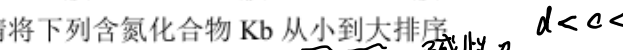
3. 用 Hofmann 烷基化合成下列胺的方法正确的有



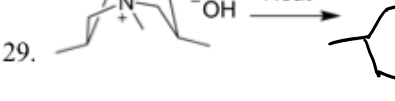
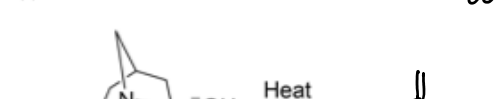
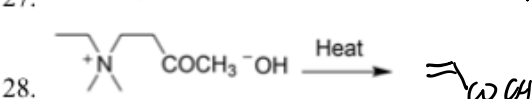
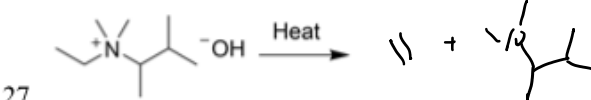
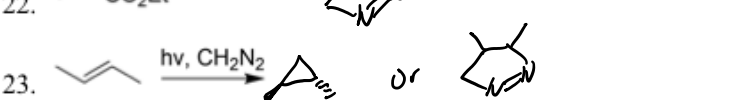
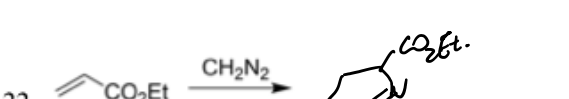
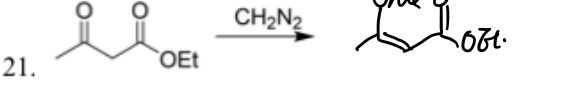
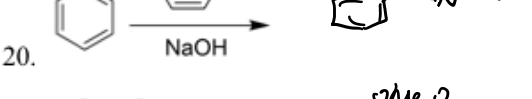
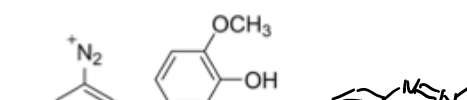
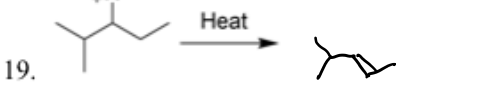
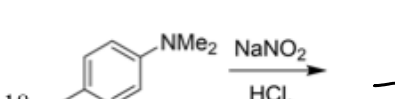
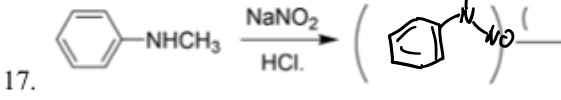
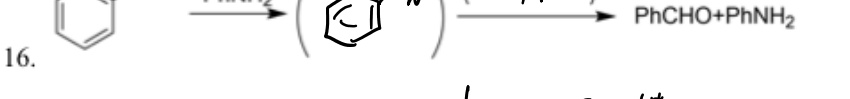
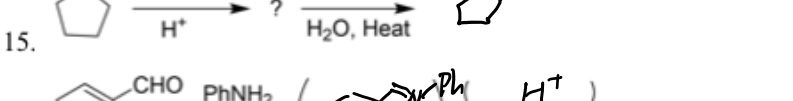
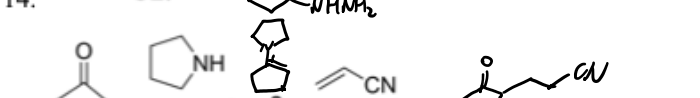
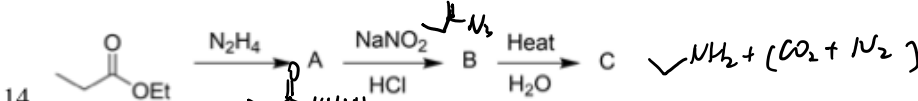
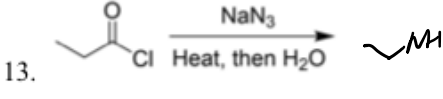
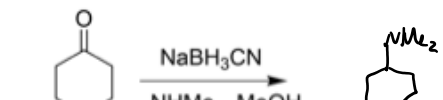
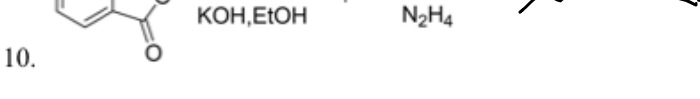
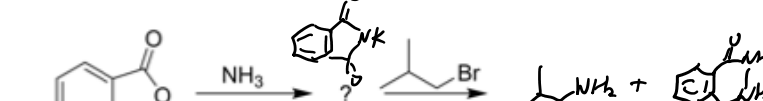
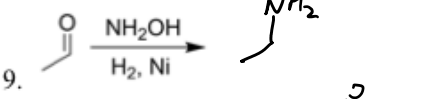
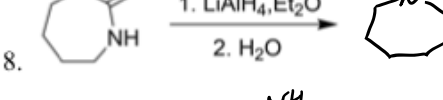
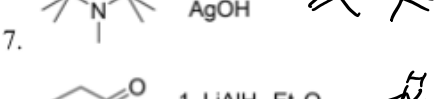
4. 请将下列含氮化合物 pKb 从小到大排序



5. 比较下列部氮化合物在氯苯中的碱性，将其从大到小排序

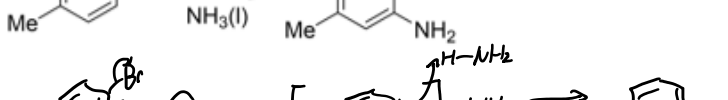


6. 请将下列含氮化合物 Kb 从小到大排序

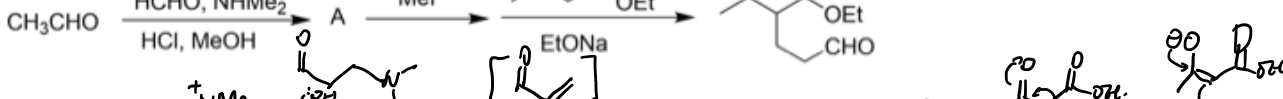
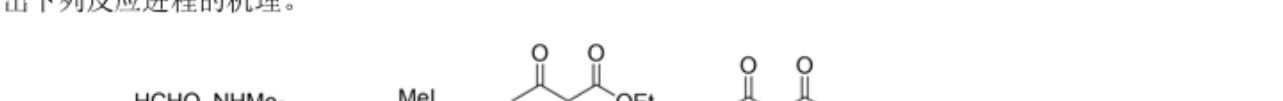


二、机理题

1. 写出下列转化机理



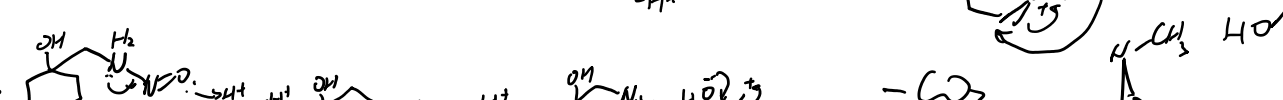
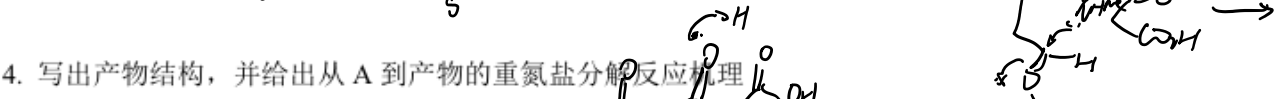
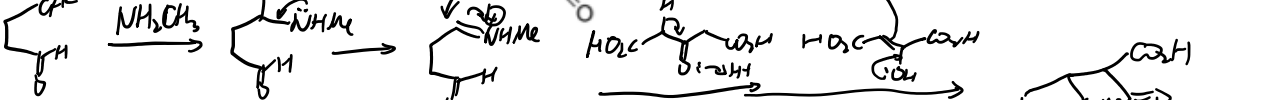
2\*. Mannish 反应常作为  $\alpha$ ,  $\beta$  不饱和醛酮的前体出现，请写出 Mannish 反应的产物 A，并写出下列反应进程的机理。



3\*. 写出托品酮的合成机理



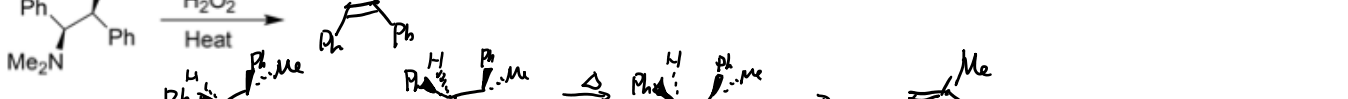
4. 写出产物结构，并给出从 A 到产物的重氮盐分解反应机理



5. 写出 Cope 消除机理



6. 写出 Wolff 重排的产物和机理



7\*. 写出 Schmidt 反应的机理和产物



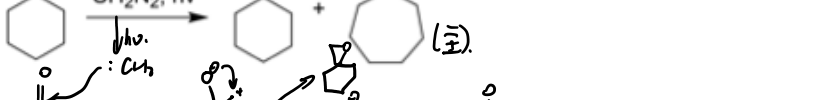
8. 写出下列重氮甲烷插入反应机理，并指出哪个是主产物



9\*. 写出下列重氮盐分解机理



10\*. 写出下列转化机理



11\*. 写出下列转化机理

