

## 第十五章 含硫和含磷有机化合物

1. 写出下列化合物的结构式:

(1). 硫酸二乙酯

(2). 甲磺酰氯

(3). 对硝基苯磺酸甲酯

(4). 磷酸三苯酯

(5). 对氨基苯磺酰胺

(6). 2,2'-二氯代乙硫醚

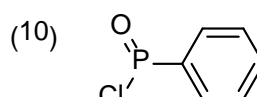
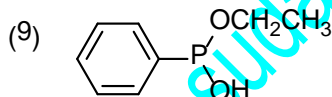
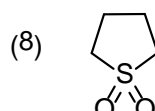
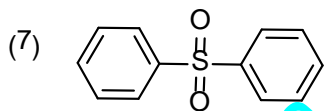
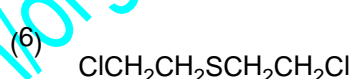
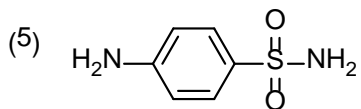
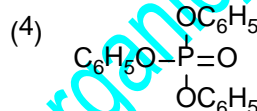
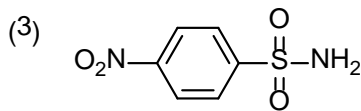
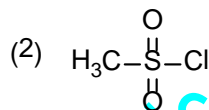
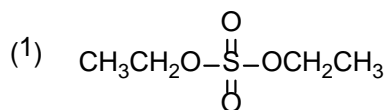
(7). 二苯砷

(8). 环丁砷

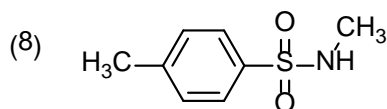
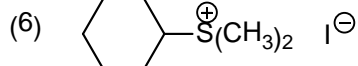
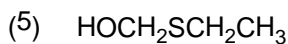
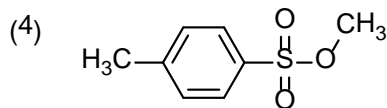
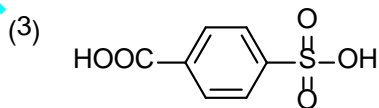
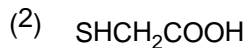
(9). 苯基亚磷酸乙酯

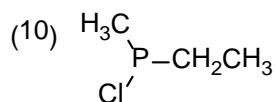
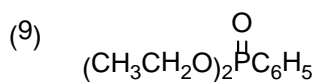
(10). 苯基亚磷酸氯

解答:



2. 命名下列化合物:





解答:

(1) 巯基乙醇

(2) 巯基乙酸

(3) 对羧基苯磺酸

(4) 对甲苯磺酸甲酯

(5) 乙巯基甲醇

(6) 碘化环己基二甲基铈

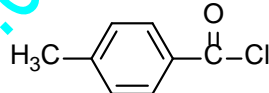
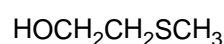
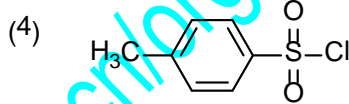
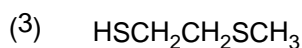
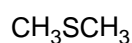
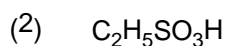
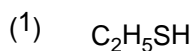
(7) 氯化四羟甲基磷

(8) N-甲基对甲苯磺酰胺

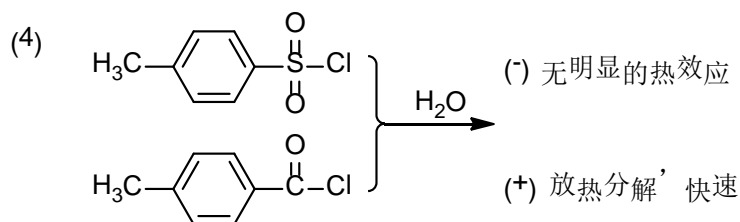
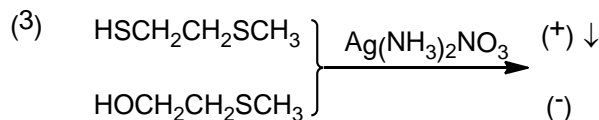
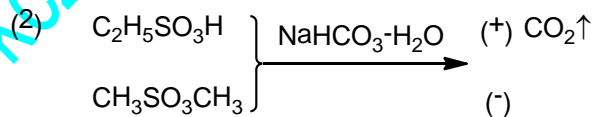
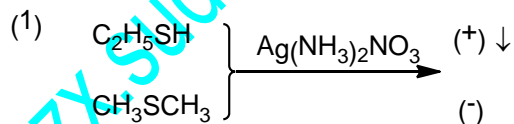
(9) 苯基磷酸二乙酯

(10) 甲基乙基氯磷

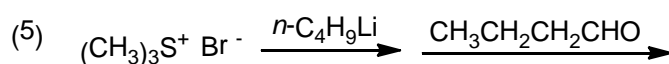
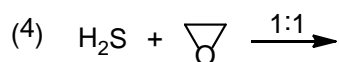
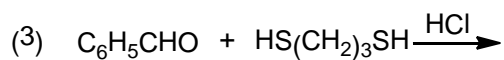
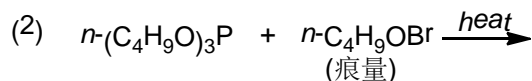
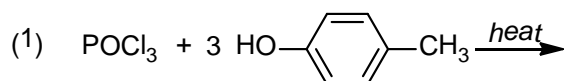
3. 用化学方法区别下列化合物:



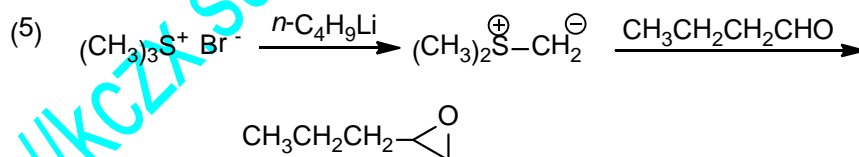
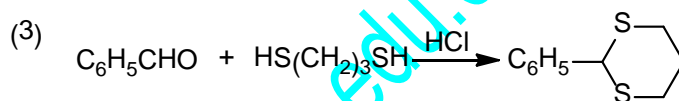
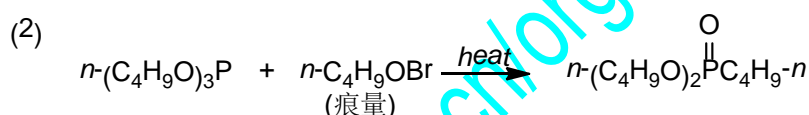
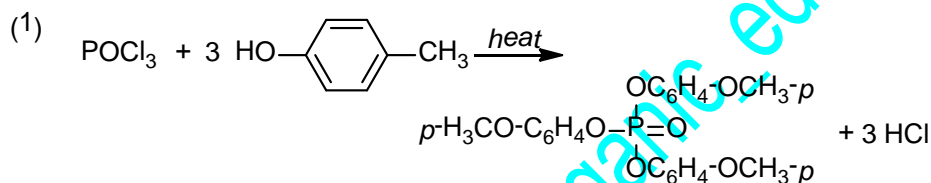
解答:



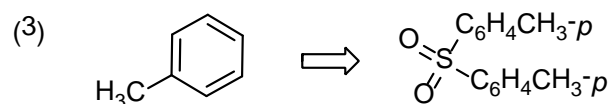
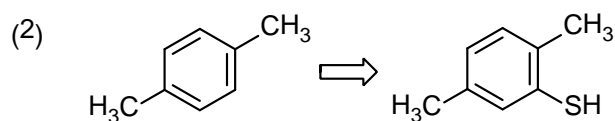
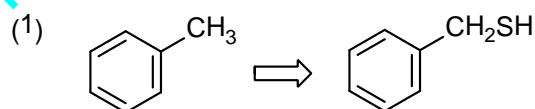
4. 试写出下列反应的主要产物:

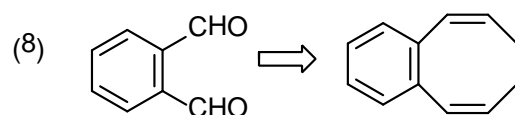
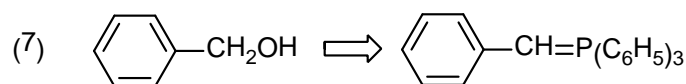
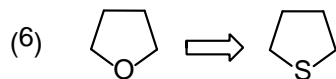
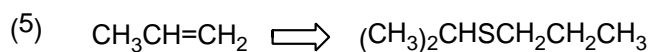
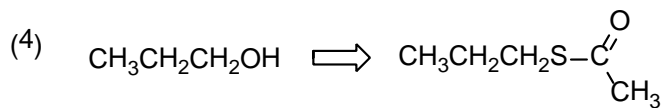


解答:

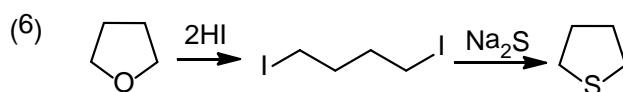
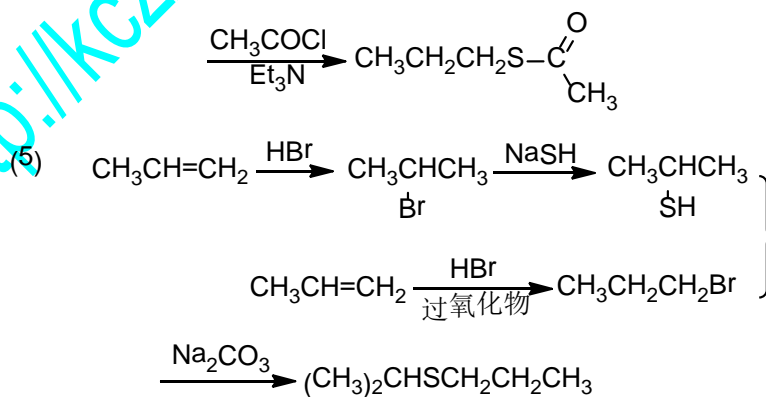
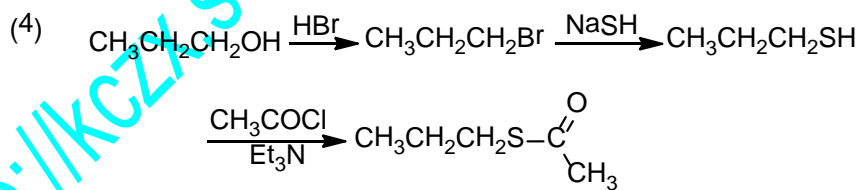
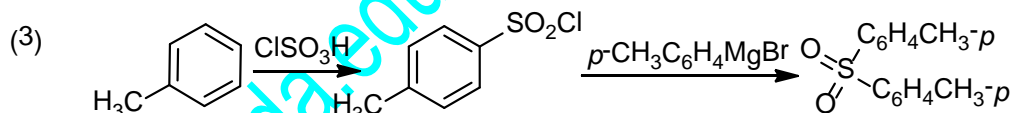
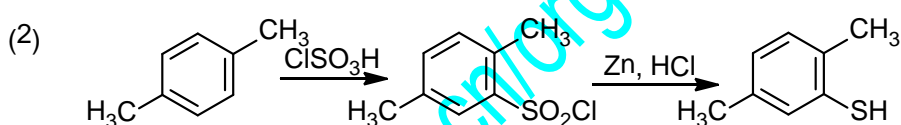
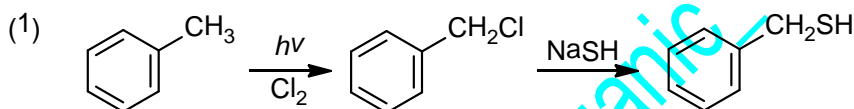


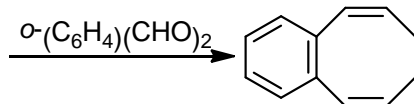
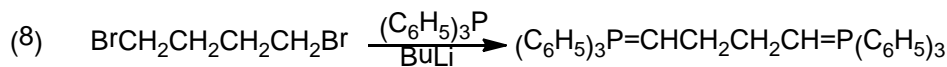
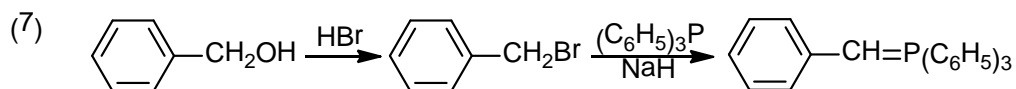
5. 完成下列转化:



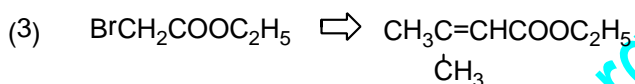
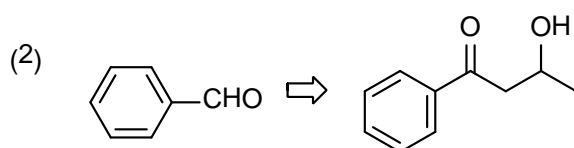
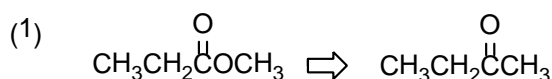


解答:





6. 使用有机硫试剂或有机磷试剂，以及其他有关试剂，完成下列合成：



解答：

