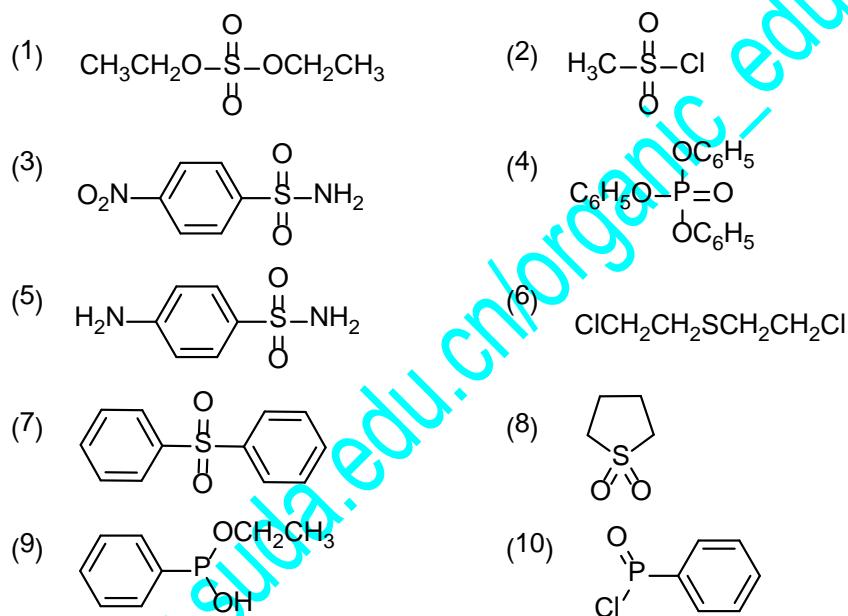


第十五章 含硫和含磷有机化合物

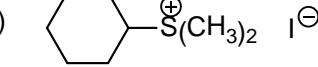
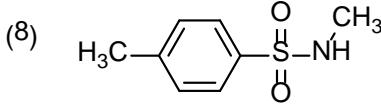
1. 写出下列化合物的结构式:

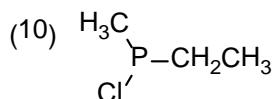
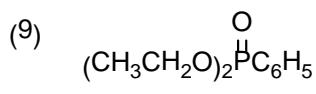
- | | |
|---------------|------------------|
| (1). 硫酸二乙酯 | (2). 甲磺酰氯 |
| (3). 对硝基苯磺酸甲酯 | (4). 磷酸三苯酯 |
| (5). 对氨基苯磺酰胺 | (6). 2,2'-二氯代乙硫醚 |
| (7). 二苯砜 | (8). 环丁砜 |
| (9). 苯基亚膦酸乙酯 | (10). 苯基亚膦酰氯 |

解答:



2. 命名下列化合物:

- | | |
|--|---|
| (1) HOCH ₂ CH ₂ SH | (2) SHCH ₂ COOH |
| (3) HOOC-C ₆ H ₄ -S(=O)(=O)-OH | (4) H ₃ C-C ₆ H ₄ -S(=O)(=O)-O-CH ₃ |
| (5) HOCH ₂ SCH ₂ CH ₃ | (6)  I ⁻ |
| (7) (HOCH ₂) ₄ P ⁺ Cl ⁻ | (8)  |



解答：

(1) 硫基乙醇

(2) 硫基乙酸

(3) 对羧基苯磺酸

(4) 对甲苯磺酸甲酯

(5) 乙硫基甲醇

(6) 碘化环己基二甲基锍

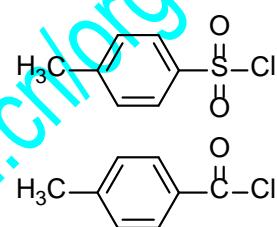
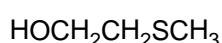
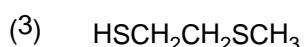
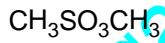
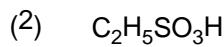
(7) 氯化四羟甲基𬭸

(8) N-甲基对甲苯磺酰胺

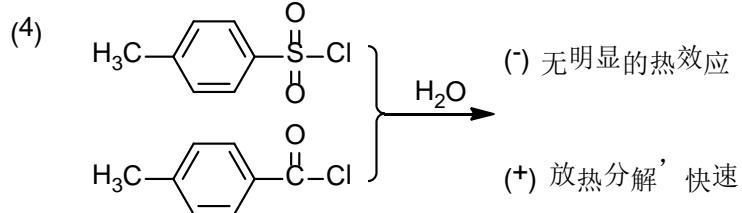
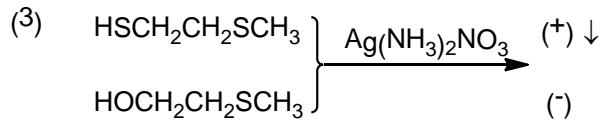
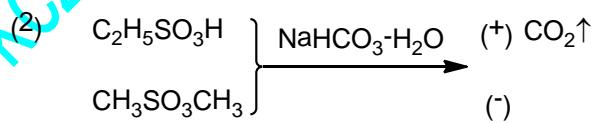
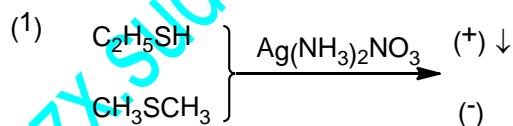
(9) 苯基膦酸二乙酯

(10) 甲基乙基氯𬭸

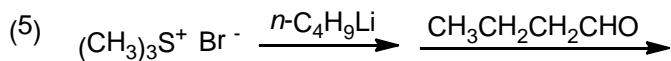
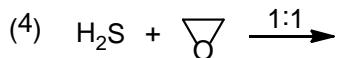
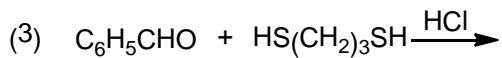
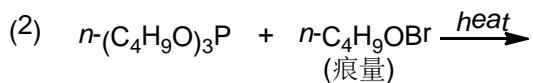
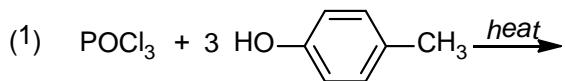
3. 用化学方法区别下列化合物：



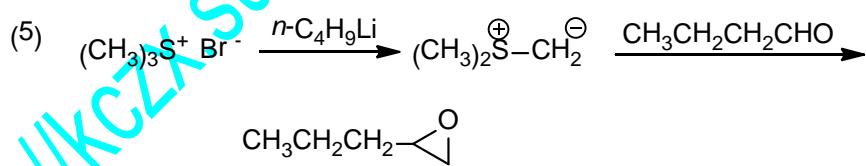
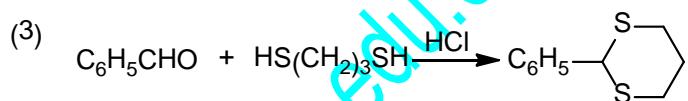
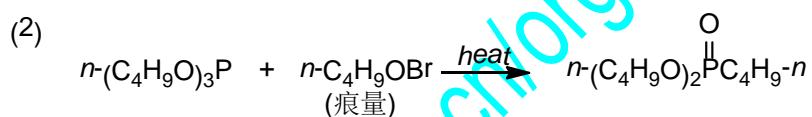
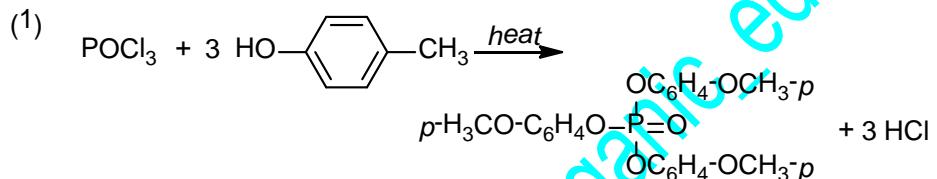
解答：



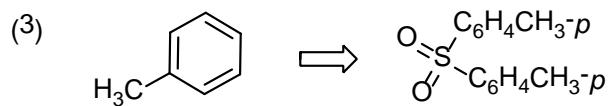
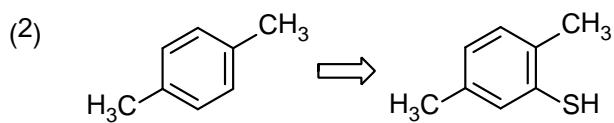
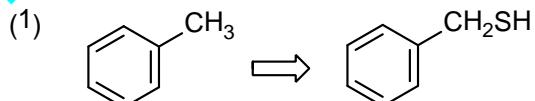
4. 试写出下列反应的主要产物:

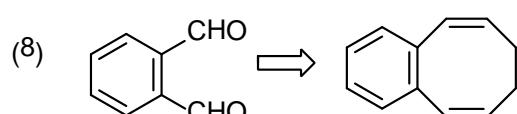
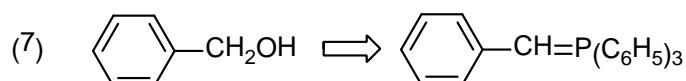
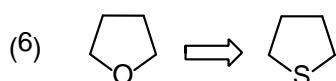


解答:

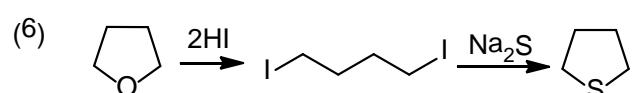
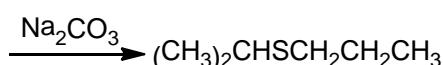
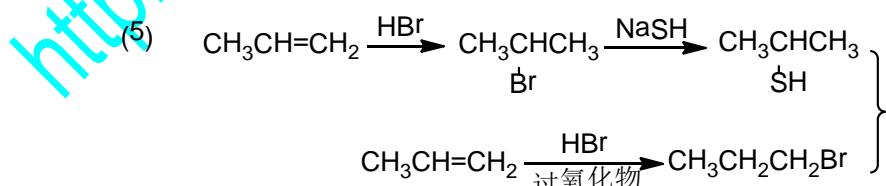
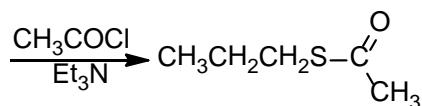
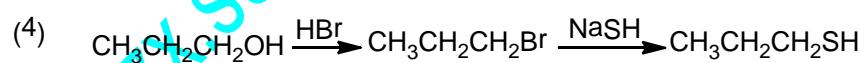
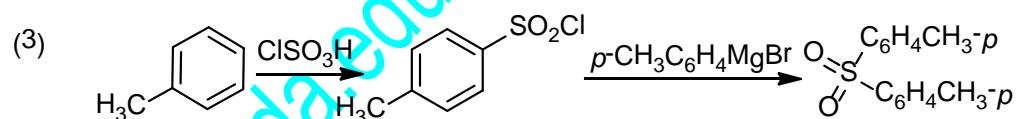
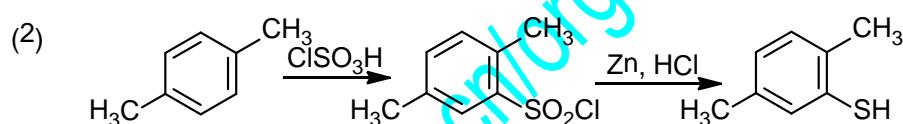
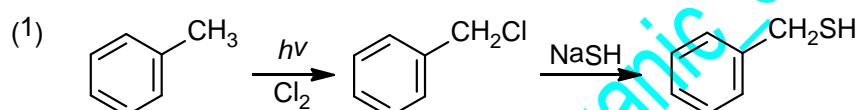


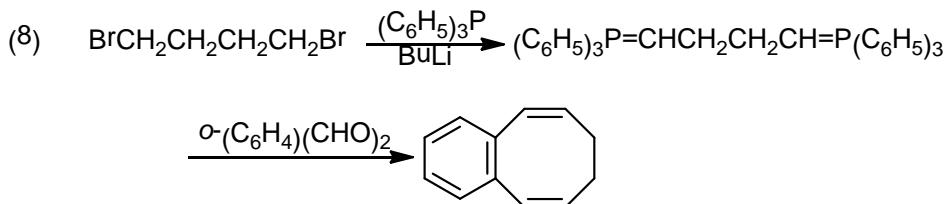
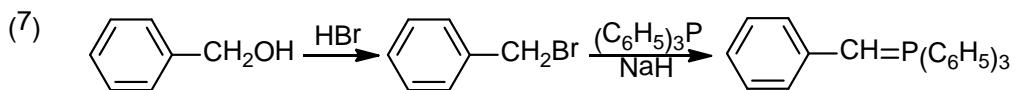
5. 完成下列转化:



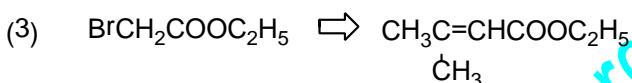
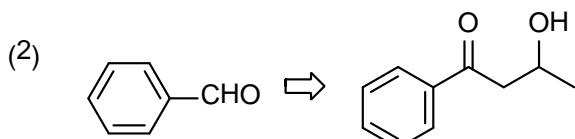
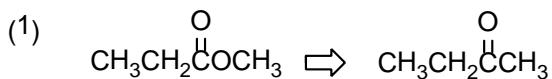


解答:





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：

