

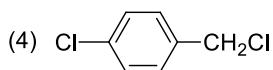
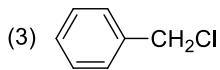
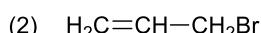
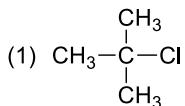
# 第十一次作业答案

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2. 写出符合下列名称的构造式:

- (1) 叔丁基氯; (2) 烯丙基溴; (3) 苯基氯; (4) 对氯苯基氯

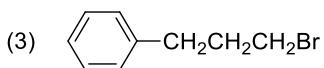
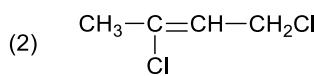
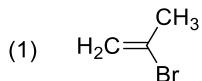
解答:



4. 根据  $^1\text{H NMR}$  信息, 写出下列卤代烃的结构式:

- (1) 分子式:  $\text{C}_3\text{H}_5\text{Br}$ ;  $^1\text{H NMR}$ : 2.32 (3H, s), 5.35 (1H, s), 5.54 (1H, s)  
(2) 分子式:  $\text{C}_4\text{H}_6\text{Cl}_2$ ;  $^1\text{H NMR}$ : 2.18 (3H, s), 4.16 (2H, d,  $J = 7 \text{ Hz}$ ), 5.71 (1H, t,  $J = 7 \text{ Hz}$ )  
(3) 分子式:  $\text{C}_9\text{H}_{11}\text{Br}$ ;  $^1\text{H NMR}$ : 2.15 (2H, m), 2.75 (2H, t,  $J = 7 \text{ Hz}$ ), 3.38 (2H, t,  $J = 7 \text{ Hz}$ ),  
7.22 (5H, m)

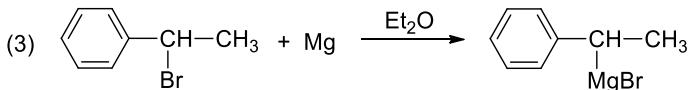
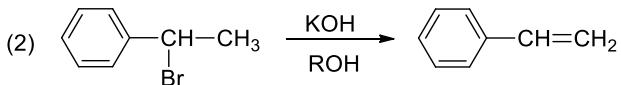
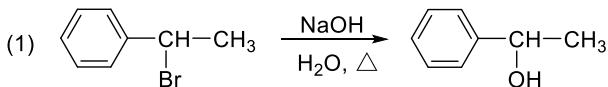
解答:

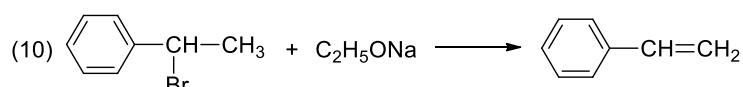
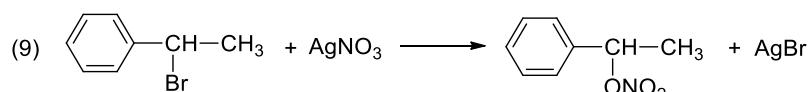
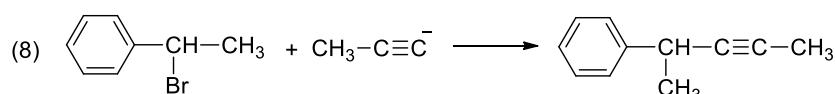
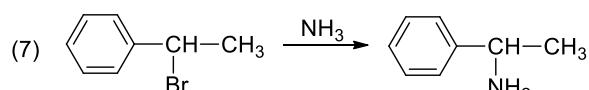
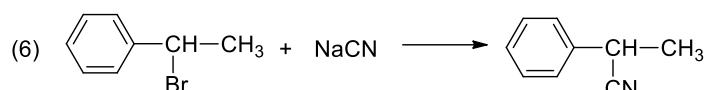
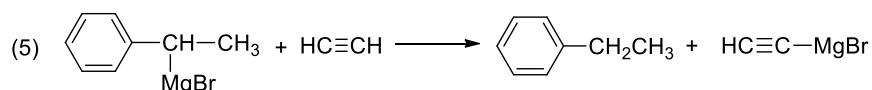
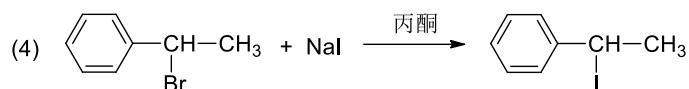


5. 用方程式表示  $\alpha$ -溴代乙苯与下列化合物反应的主要产物。

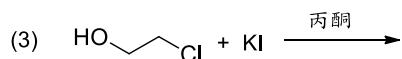
- (1)  $\text{NaOH}$ (水) (2)  $\text{KOH}$ (醇) (3)  $\text{Mg}$ , 乙醚 (4)  $\text{NaI}$ /丙酮 (5) 产物(3)+ $\text{CH}\equiv\text{CH}$   
(6)  $\text{NaCN}$  (7)  $\text{NH}_3$  (8)  $\text{CH}_3\text{C}\equiv\text{C}^-$  (9)  $\text{AgNO}_3$ , 醇 (10)  $\text{C}_2\text{H}_5\text{ONa}$

解答:

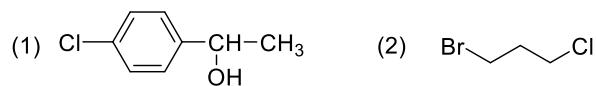




6. 写出下列反应的产物:

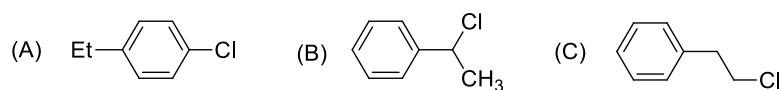


解答:

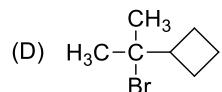
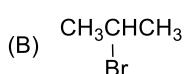
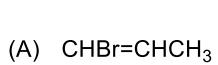


7. 将以下各组化合物，按照不同要求排列成序:

(1) 水解速率:



(2) 与  $\text{AgNO}_3$ -乙醇溶液反应难易程度:



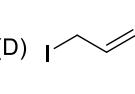
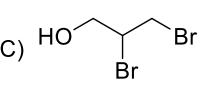
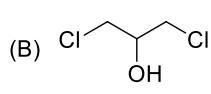
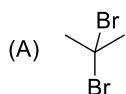
解答:

(1) 水解速率: (B) > (C) > (A)

(2) 与  $\text{AgNO}_3$ -乙醇溶液反应难易程度: (D) > (B) > (C) > (A)

18. 由指定的原料(其它有机或无机试剂可任选), 合成下列化合物。

(1) 由丙烯合成下列化合物:



解答:

(1)

