

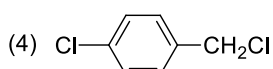
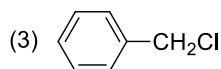
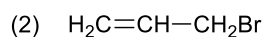
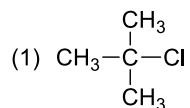
# 第十一次作业答案

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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) 苄基氯; (4) 对氯苄基氯

解答:



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

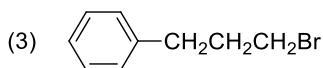
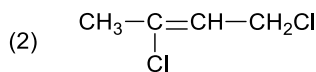
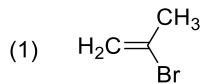
- (1) 分子式:  $\text{C}_3\text{H}_5\text{Br}$ ;  $^1\text{H}$ NMR: 2.32 (3H, s), 5.35 (1H, s), 5.54 (1H, s)

- (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,  $J=7$  Hz), 5.71 (1H, t,  $J=7$  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,  $J=7$  Hz), 3.38 (2H, t,  $J=7$  Hz),

7.22 (5H, m)

解答:

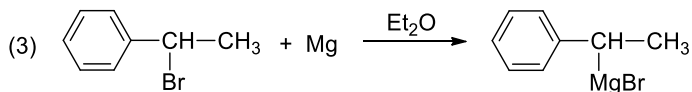
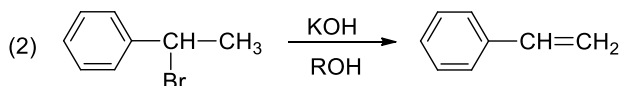
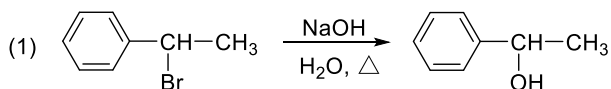


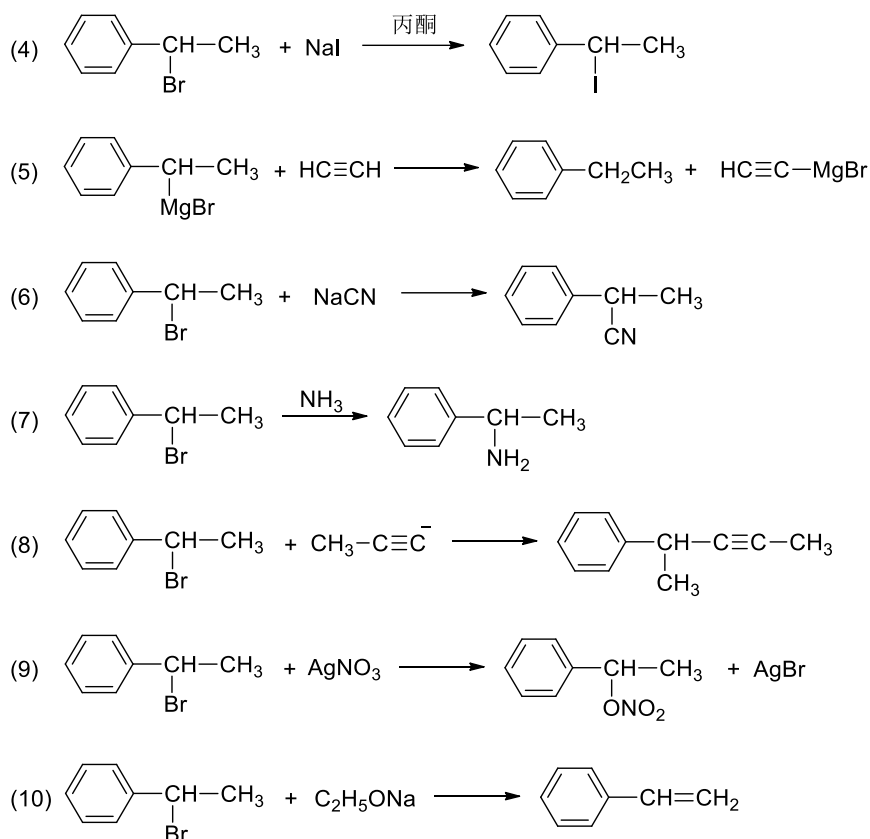
5. 用方程式表示  $\alpha$ -溴代乙苯与下列化合物反应的主要产物。

- (1) NaOH(水) (2) KOH(醇) (3) Mg, 乙醚 (4) NaI/丙酮 (5) 产物(3)+ $\text{CH}\equiv\text{CH}$

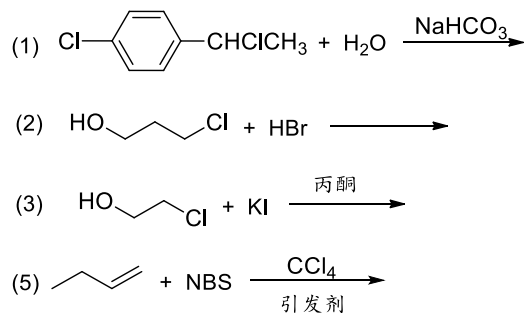
- (6) NaCN (7)  $\text{NH}_3$  (8)  $\text{CH}_3\text{C}\equiv\text{C}^-$  (9)  $\text{AgNO}_3$ , 醇 (10)  $\text{C}_2\text{H}_5\text{ONa}$

解答:

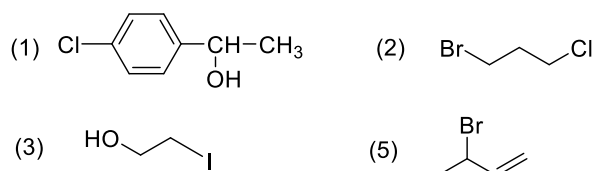




6. 写出下列反应的产物:

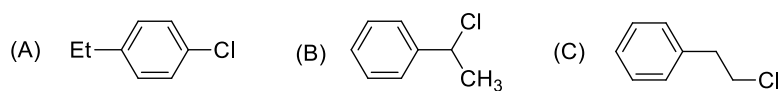


解答:

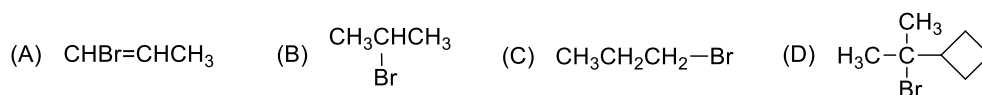


7. 将以下各组化合物, 按照不同要求排列成序:

(1) 水解速率:



(2) 与  $\text{AgNO}_3$ -乙醇溶液反应难易程度:



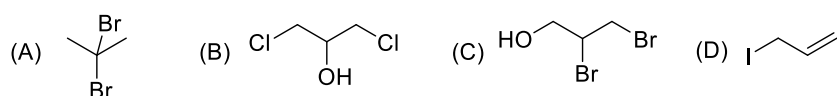
解答:

(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)

