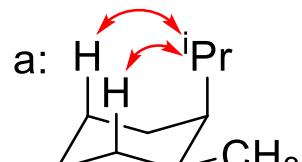
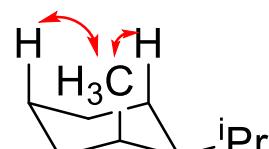


化学D宿題02 問題1の解答例

配布日： 2019年11月08日
提出日： 2019年11月15日

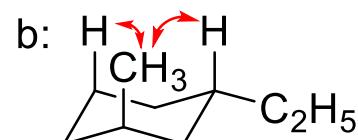


2.2 kcal/mol

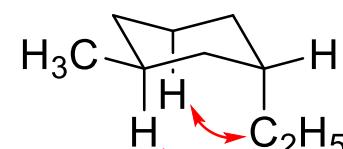


1.8 kcal/mol

0.4 kcal/mol 安定

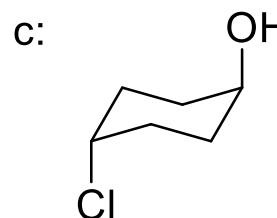


0.9 × 2 = 1.8 kcal/mol



0.9 × 2 = 1.8 kcal/mol

安定性は同じ



1.46 kcal/mol



0 kcal/mol

1.46 kcal/mol 安定

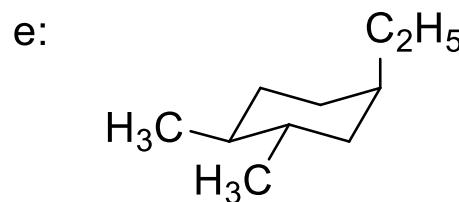


2.9 kcal/mol

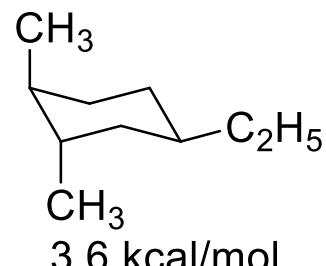


5.0 kcal/mol

2.1 kcal/mol 安定



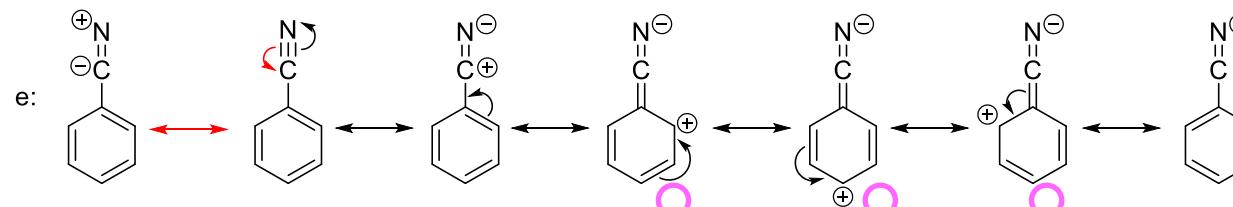
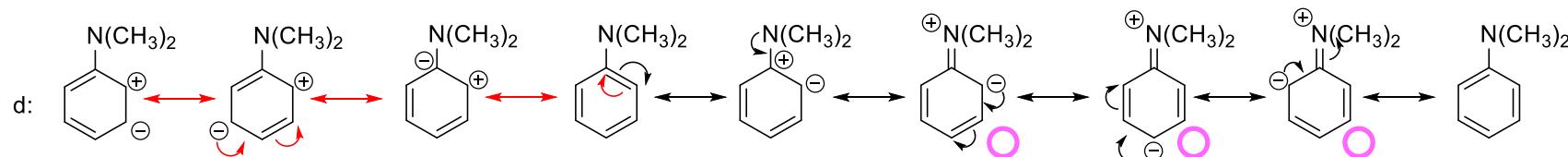
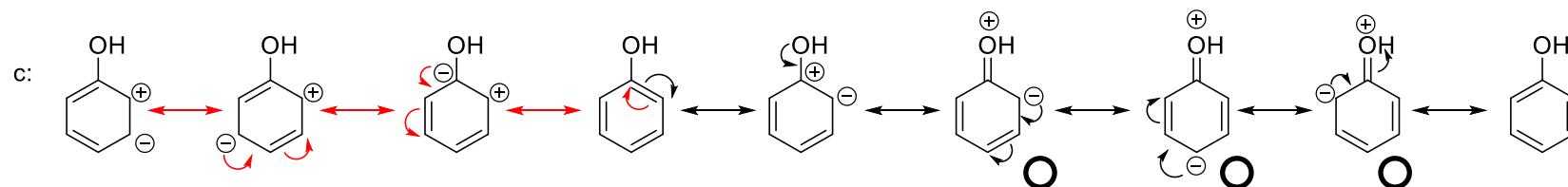
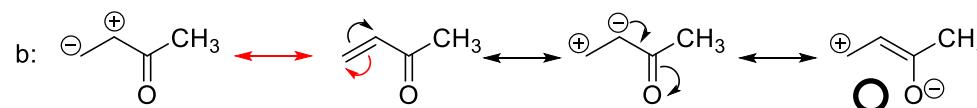
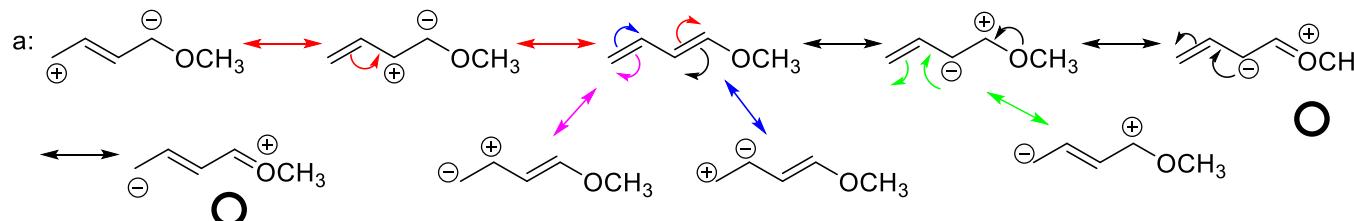
1.8 kcal/mol



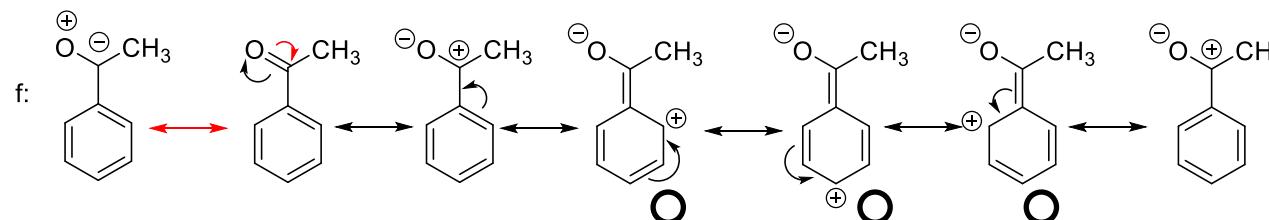
3.6 kcal/mol

1.8 kcal/mol 安定

化学D宿題02 問題2の解答例

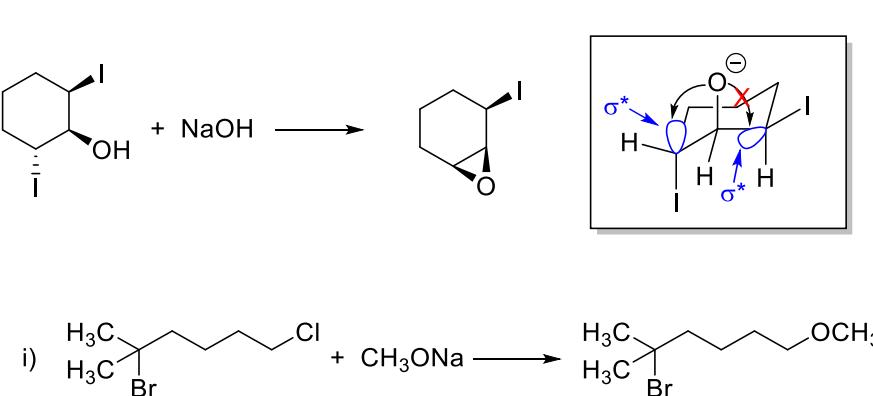
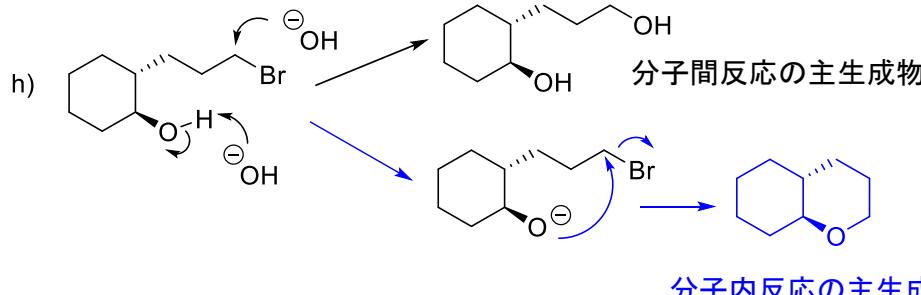
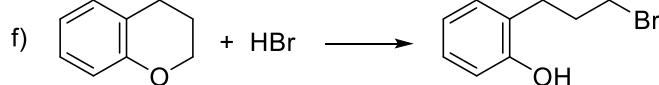
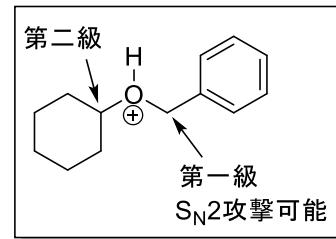
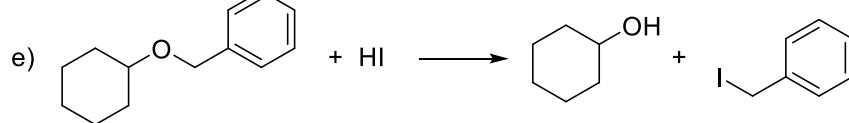
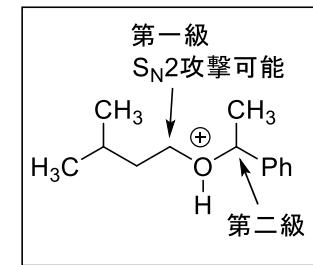
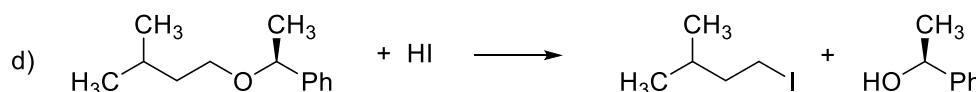
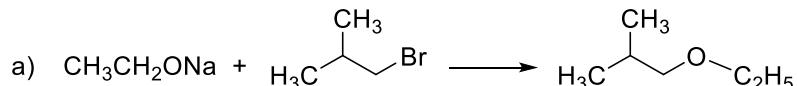


正電荷がベンゼン環上
に非局在化している。反応性を
考えるときに重要な構造

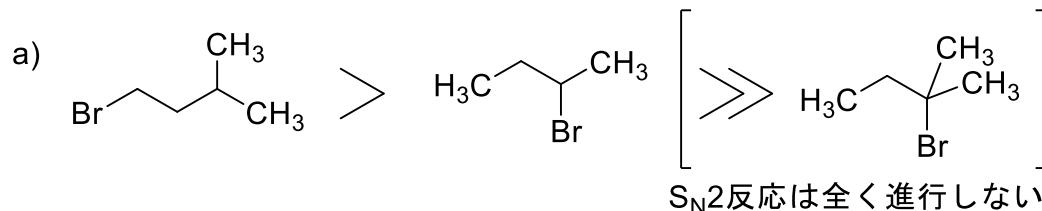


正電荷がベンゼン環上
に非局在化している。反応性を
考えるときに重要な構造

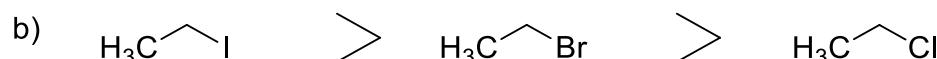
化学D宿題02 問題3の解答例



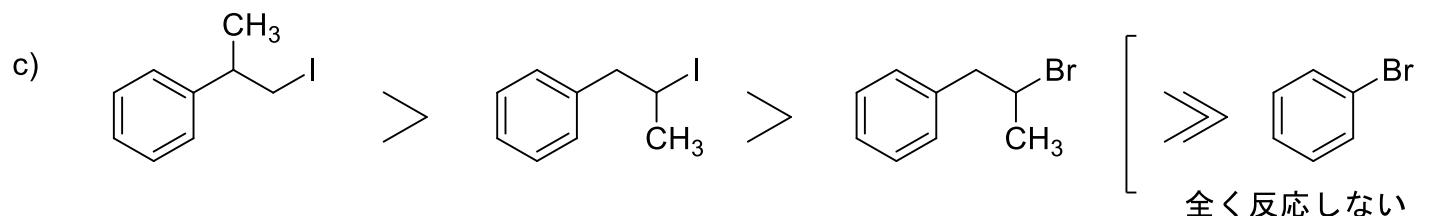
化学D宿題02 問題4の解答例



求核攻撃の受け易さ: 第一級 > 第二級



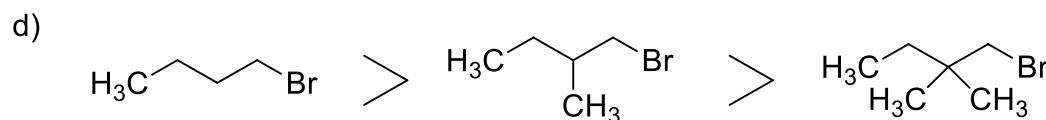
脱離基の脱離能: I > Br > Cl



求核攻撃の受け易さ: 第一級 > 第二級

脱離基の脱離能: I > Br > Cl

強い電子求引性置換基をもたない芳香族ハロゲン化物は求核置換を受けない



求核置換反応を受ける炭素に隣接する炭素上の立体的
かさ高さが高いと求核攻撃を受けにくくなる