
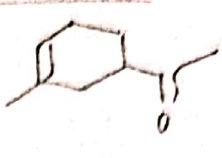
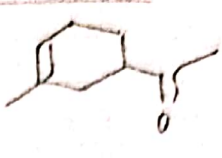


Answer key

Class Test 2 - CHEM F311

- 1) CH2=CH2 + CH3COCl >>[SnCl4][4] ? [2]   not 
- 2) c1ccccc1C=O >> ? >> c1ccccc1CO [1]; Ans: NaBH4
- 3) c1ccccc1C(=O)OCC >> ? >> c1ccccc1CO [1]; Ans: LAH
- 4) R-C(=O)NH2 >> ? >> R-N=C=O [1]; Ans: Br2 / NaOH
- 5) c1ccc2c(c1)c(c[nH]2)C(=O)N[R+] >> ? >> H2N-R + c1ccc2c(c1)c(c[nH]2)C(=O)N [2]; Ans: 1. R-X, 2. N2H4
- 6) CH3CHO >>[NaOH] ? >> ? >> ? >> ? [3]
 Ans: CH3CHO >>[NaOH] CH3CH(OH)CHO >>[CrO3][Py] CH3COCHO >>[CH2O][HNR2][H+] CH3COCH2CH2NR2 >>[MeI] CH3COCH2CH2N+(Me)R2
- 7) c1ccccc1C(=O)OCC >> ? >> c1ccccc1C(=O)OCC [3] Ans: CH3COCH2CH2NR2 >>[MeI] CH3COCH2CH2N+(Me)R2
- 8) c1ccccc1C(=O)OCC >>[RCOCl] ? [1] Ans: c1ccccc1C(=O)OCC >>[RCOCl] c1ccccc1C(=O)OCC
- 9) c1ccccc1C(=O)OCC >>[Mg(II)][RCOCl] [1] Ans: c1ccccc1C(=O)OCC >>[Mg(II)][RCOCl] c1ccccc1C(=O)OCC
- 10) c1ccccc1C(=O)OCC >> ? >> c1ccccc1C(=O)OCC [1] Ans: TiCl3
- 11) Ar-CHO >>[CH2N2] ? >> Ar-CH2-CHO [3]
 Ans: Ar-CHO >>[CH2N2] Ar-CH2-CHO >>[LAH] Ar-CH2-CH2OH >>[PBr3][PPh3] Ar-CH2-CH2-PPh3