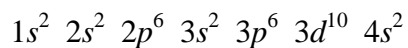


CHEM1611 Chemistry 1A (Pharmacy) - June 2004

2004-J-2

•		nitrogen dioxide	+IV	
		lead(II) acetate	+II	$\text{Pb}^{2+}(\text{aq}), \text{CH}_3\text{CO}_2^-(\text{aq})$
	$\text{Mg}(\text{ClO}_4)_2$	magnesium perchlorate	+VII	



•

YES	NO	NO

- hydrogen bonding in 1-propanol (strong)
dipole dipole forces in 1-propanethiol (relatively weak)

2004-J-3

•

tetrahedral sp^3 tetrahedral
 tetrahedral sp^3 trigonal pyramidal
 trigonal planar sp^2 trigonal planar
 tetrahedral sp^3 bent
 trigonal planar sp^2 bent

1.80 g

2004-J-4

2.80 g

2004-J-5

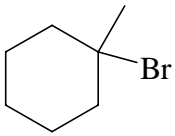
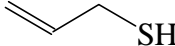
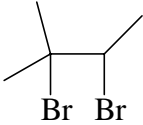
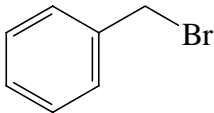


0.0825 L

3.69

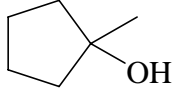
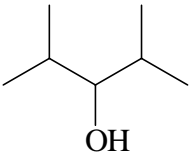
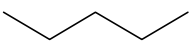
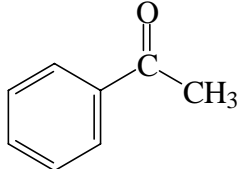
2004-J-6

•

1-methylcyclohexene		
		
2-methyl-2-butene		
		
		Br^{\ominus} $\text{CH}_3\text{CH}_2\text{CH}_2-\overset{\oplus}{\text{N}}\begin{matrix} \text{CH}_2\text{CH}_3 \\ \text{CH}_2\text{CH}_3 \\ \text{CH}_2\text{CH}_3 \end{matrix}$
cyclopentanone	excess CH_3OH H^{\oplus} / heat	

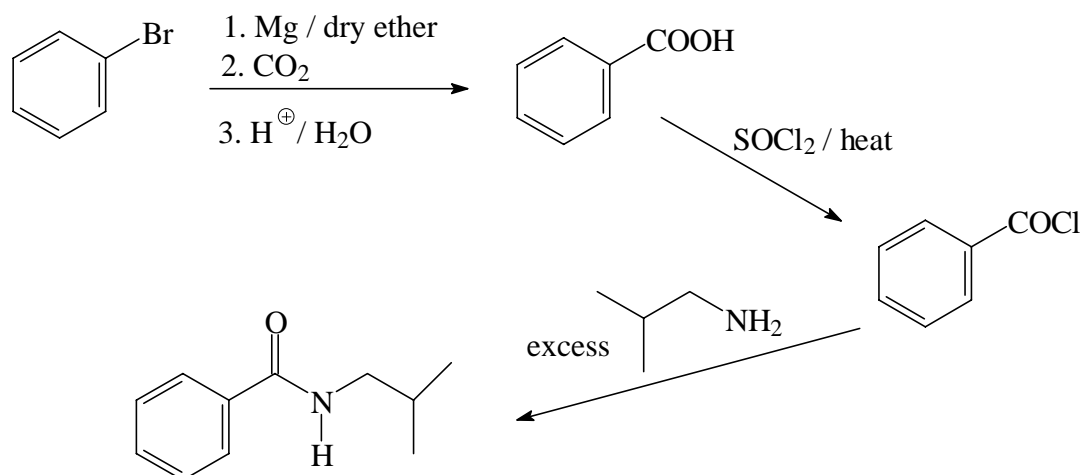
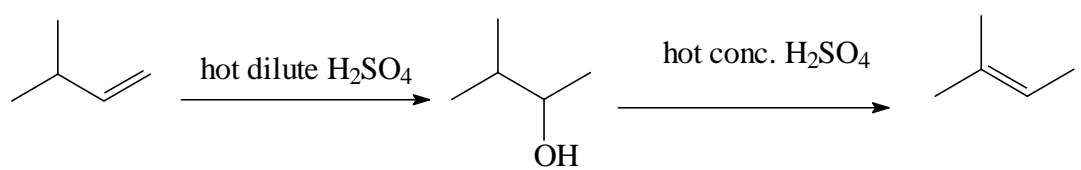
2004-J-7

•

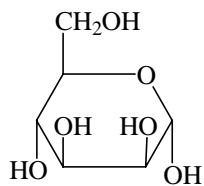
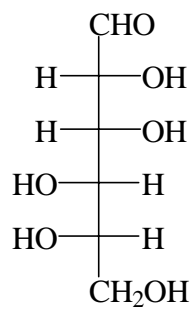
NaOH	
CH ₃ COCl	
	
	
(CH ₃) ₂ NH	
	
	

2004-J-8

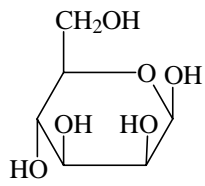
•



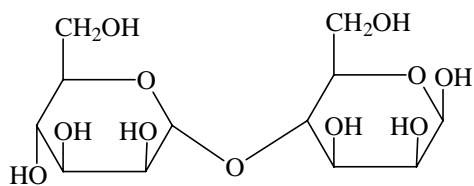
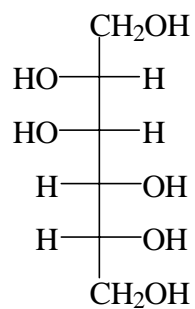
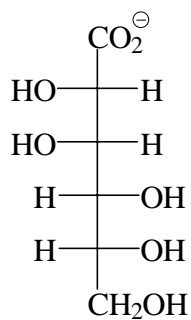
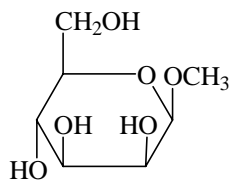
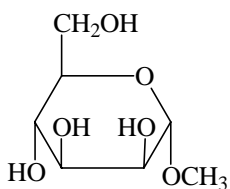
2004-J-9



α -anomer

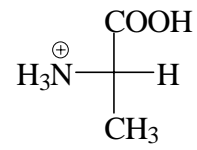
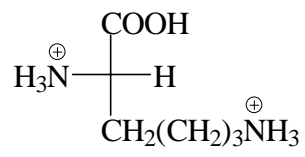
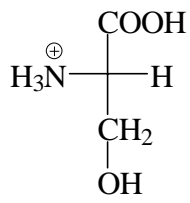


β -anomer

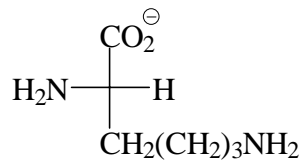


2004-J-10

•



pH = 12.0



pH = 5.6

