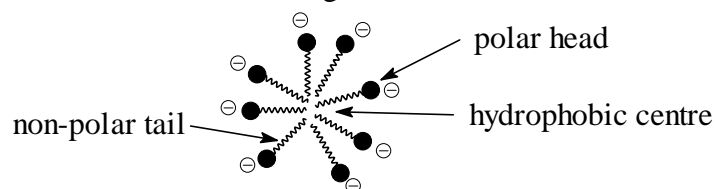


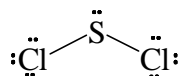
CHEM1405 (Vet. Science) - 2003

2003-J-2

- $\text{Ca}(\text{CH}_3\text{CO}_2)_2(\text{s}) \rightarrow \text{Ca}^{2+}(\text{aq}) + 2\text{CH}_3\text{CO}_2^-(\text{aq})$
- - NH_4Cl cobalt(II) chloride-6-water
 - $\text{Ca}(\text{HCO}_3)_2$ lithium sulfate
- 766 kJ released
- Long chain fatty acids consist of a polar head and a non-polar tail. When dispersed in water they arrange themselves spherically so that the polar (hydrophilic) heads are interacting with the polar water molecules and the non-polar (hydrophobic) tails are interacting with each other. This arrangement is called a micelle.



•



2003-J-3

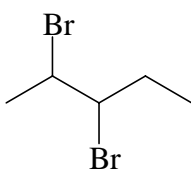
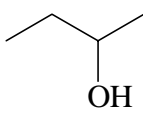
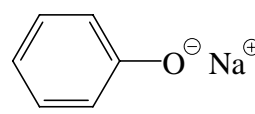
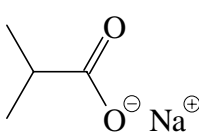
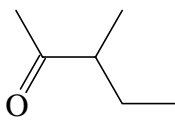
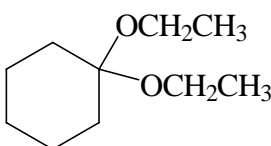
- $k = 0.0123 \text{ min}^{-1}$ $t_{1/2} = 56.4 \text{ min}$
113 min
- 6.4 atm

2003-J-4

- $2.00 \times 10^{-9} \text{ M}^2$
- 2.54
- $\text{C}_6\text{H}_5\text{CH}_2\text{CO}_2^-(\text{aq}) + \text{H}_3\text{O}^+(\text{aq}) \rightarrow \text{C}_6\text{H}_5\text{CH}_2\text{COOH}(\text{aq}) + \text{H}_2\text{O}(\text{l})$
 $\text{C}_6\text{H}_5\text{CH}_2\text{COOH}(\text{aq}) + \text{OH}^-(\text{aq}) \rightarrow \text{C}_6\text{H}_5\text{CH}_2\text{CO}_2^-(\text{aq}) + \text{H}_2\text{O}(\text{l})$

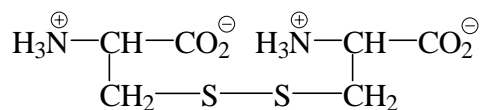
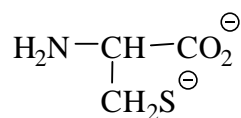
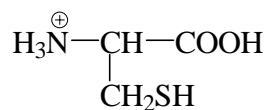
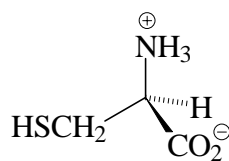
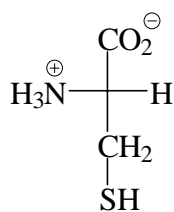
2003-J-5

•

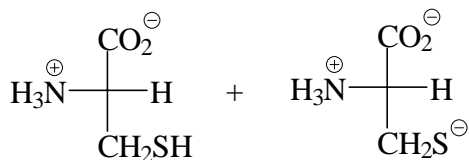
(E)-2-pentene		
butanone		
phenol		
		
		
cyclohexanone		

2003-J-6

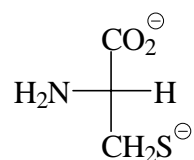
•



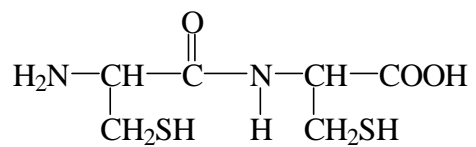
pH 8.2



pH 13.0



2003-J-6 (cont.)



2003-J-7

