



# CHROMATOGRAPHY PROBLEMS

- 1) Pentanal – less polar than pentan-1-ol has greater relative affinity towards the eluent rather than the silica than the pentan-1-ol
  
- 2) a)  $A = 0.24$ ,  $B = 0.71$   
b) A = phenylamine – forms hydrogen bonds and so has greater affinity for polar stationary phase, B = tetrachloromethane – non polar so has greater affinity for non-polar solvent hexane
  
- 3) a) 5, morphine  
b) takes longest to move through column, must have greater relative affinity for powder than the carrier gas than the other substances