

Equilibrium Constant of a Hydrogen Bonded Complex

Name _____

$[A^\circ] = [\text{chloroform}^\circ] =$ _____ $\delta_A =$ _____ ppm

V_{acetone} (mL)	$[B^\circ]$ (M)	δ_{avg} (ppm)	$\Delta\delta_{\text{obs}}$ (ppm)

* all chemical shifts are relative to cyclohexane

Best guess for $\Delta\delta_{CA} =$ _____ ppm

$[B^\circ]$ (M)	K for best guess

Average K = _____ \pm _____

$\Delta_r G^\ominus =$ _____ \pm _____ units _____

Attach a plot of K vs. $\Delta\delta_{CA}$ or your Excel spreadsheet