

Acetylacetone Equilibrium via NMR

Student Name:

Partner Name:

Date	Instructor Initials	Grade

Temperature	A_a	A_c	K
25 °C			
27 °C			
29 °C			
31 °C			
33 °C			
35 °C			

Show an example of your calculation of the equilibrium constant, K, at 25 °C.

Prepare a plot of $\ln K$ vs. $1/T$. Fit a line to your data and upload your spreadsheet to Canvas. Comment on how well your data fits your line.

Determine the standard enthalpy change for this process. Show all of your work.

Determine the standard entropy change for this process. Show all of your work.