

**Assignment 4**

**Due:** *In Lecture*, Monday, February 11

Graph the data you collected for Lab 1 in such a way that you can calculate  $k_p$  for the bulk, free-radical polymerization of styrene from the slope of the graph. Be sure to label the axes of your graph (including units), and give your graph a descriptive “figure caption” underneath the graph that explains it, just as you saw in your *Macromolecules* paper from Assignment 3. In addition, separate from the graph and caption, discuss the graph and your calculated  $k_p$ . Was your rate constant consistent with past measurements of  $k_p(\text{styrene})$ ? If you performed a mathematical fit to your data, how much error was there/how good was the fit? Any obvious outlier data points or errors?

You may want to use this assignment as an opportunity to familiarize yourself with pasting objects (e.g., your graph) into your word processing program; you will be using this more extensively when you prepare your writeup for Lab 2. Microsoft Word adds captions to embedded objects conveniently with References -> Insert Caption.