Prelab Questions – Experiment 1: Chemical Kinetics, Week 1

Write answers to the following questions on this page and bring these with you to lab.

1. Calculate the concentration of crystal violet in a solution that has a total final volume of 3.00 mL and contains 350.0 μL of crystal violet stock solution, which has a concentration of 1.00×10^{-4} M.

2. If the absorbance of a 1.25×10^{-5} M solution of crystal violet is 1.12, what is the molar absorption coefficient at this wavelength if the path length is 1.00 cm?