

Chem 213
Glassware Calibration Experiment
Instructions for Lab Report

Due Date: Friday, Sept. 15, by 5:00 pm.

Your report should include:

1. Name, date, course, lab section, experiment title, objective of experiment (just a few words), brief description of method (2-3 sentences).
2. Prepare Two Tables - one of mass experimental data (empty vial mass, filled vial mass, etc) and one of computed results (here, volumes). Report other measured data (here, the temperature of the water) and the appropriate correction factor.
3. Calculation methods: Give a sample calculation (handwritten is fine) for determining the "volume of water" from your "mass of water" data. Use *all your data* (not a subset of your data). We will address potential "bad data" later.
4. Graph: Attach the graph of Volume vs. Trial No. prepared using Excel.
5. Conclusions (based on data and graph): Comment on the relative variation of each piece of glassware, ease of use, and when it would be appropriate to use each one. Also comment *why* you think each piece of glassware produces the variation that you observe.