

Laboratory Report Guideline

Rate Law

1. Cover Page

2. Data

table of reactant volumes and the time required for the color to change
table of final concentrations, the rate of each run, and the corresponding rate constants
table of concentration logarithms
graphs of $\log []$ vs $\log (\text{rate})$ – one for each reactant – I^- , H^+ , BrO_3^-

3. Calculation

show one set of calculations for one of the reactants

4. Results and Discussion

determine the average and standard deviation for run #1.
determine the average and standard deviation of the rate constant values
use these values to discuss of the reproducibility of the data

5. Conclusion

give an overall summary of the experiment
answer questions on page 48 (be specific with your answers, especially for question 4)

6. References

Reminder: be sure not to use pronouns and make sure all your data tables and calculations have the appropriate units and significant figures