

# LAB 3-Factors Affecting Reaction Rate

**INTRODUCTION.** In this experiment students will plot data and determine the relationship between reaction rate and the following factors: temperature and concentration

**PART A,** the decomposition of permanganate ion ( $\text{MnO}_4^-$ ) in an acidic oxalic acid solution at different temperatures is examined and the data collected. The reaction between permanganate ion and oxalic acid in acid solution is:



Because the only species with a distinct color is  $\text{MnO}_4^-$ , which is purple, the reaction can be monitored by the loss of color. The reaction is assumed to be complete when the color disappears.  
*Use data provided to complete lab*

**PART B,** the effect of concentration of the reactants in an iodine clock reaction will be considered. The reaction is shown below:



Iodine in aqueous solution has a pale-yellow color at low concentrations and may be difficult to monitor. Because starch forms a deep-blue complex with iodine a 2% solution of starch is added to enhance the detection of iodine as shown below:



In this equation, the free iodine appears only after a fixed amount of sulfurous acid has been consumed. At that point the iodine reacts with the starch to form the complex and the deep blue color is observed.

Data was collected for various concentration of  $\text{HIO}_3$ .

*Use data provided to complete lab*

# Factors Affecting Reaction Rates 1 Answers

**Mocktime Publication**



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