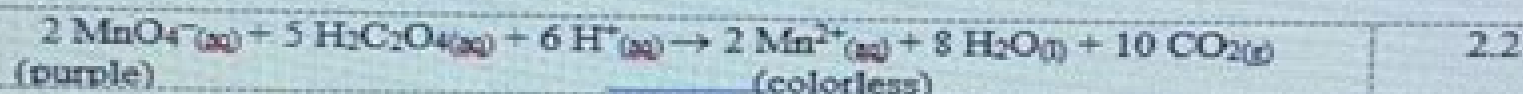


LAB 3-Factors Affecting Reaction Rate

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 (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 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 HIO_3 .

Use data provided to complete lab

Factors Affecting Reaction Rates 1 Answers

Dr. Neena Goyal, Manjeet Rani



Factors Affecting Reaction Rates 1 Answers:

The Enigmatic Realm of **Factors Affecting Reaction Rates 1 Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Factors Affecting Reaction Rates 1 Answers** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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