

Kinetics of Iodination of Propanone by Colorimetry

Student Handout

Purpose

To determine the rate equation of the reaction between acidified propanone solution and iodine.

Introduction

As the following reaction proceeds,



the concentration of iodine decreases and the brown/yellow colour intensity of the reacting solution also decreases. The change in colour intensity allows the use of colorimetry to follow the reaction kinetics.

For dilute solutions, absorbance is proportional to concentration. Decrease in concentration of species can be measured by the change in absorbance. Relative rate of disappearance of iodine, in terms of decrease in absorbance and *not in terms of actual decrease in concentration of iodine*, is measured from the absorbance vs time plot. This avoids the time-consuming conversion to concentration units using a calibration curve.

Order of reaction with respect to each reactant is determined by separately doubling the concentrations of each of $\text{CH}_3\text{COCH}_3(\text{aq})$, $\text{H}^+(\text{aq})$ and $\text{I}_2(\text{aq})$. A first order reaction with respect to $\text{CH}_3\text{COCH}_3(\text{aq})$ is confirmed when, while keeping the concentrations of $\text{I}_2(\text{aq})$ and $\text{H}^+(\text{aq})$ constant, the initial rate of decrease in concentration of $\text{I}_2(\text{aq})$ (or the initial rate of decrease in absorbance) doubles as the concentration of $\text{CH}_3\text{COCH}_3(\text{aq})$ is doubled.

Safety

Avoid skin contact with chemicals.

Materials and Apparatus

1 M sulphuric acid, 1 M propanone solution



0.02 M iodine solution, deionised water, a datalogger with colorimeter accessories, computer, micro-tip plastic pipette, 5 cm³ graduated pipette.



Colorimetry Of Iodine And Propanone

Michael Hoelscher



Colorimetry Of Iodine And Propanone:

Colorimetry Of Iodine And Propanone Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Colorimetry Of Iodine And Propanone**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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