

Chemistry Laboratory 11B - The Iodine-Clock Reaction Shawn Yoon

Purpose:

The purposes of this laboratory were to:

- observe and record the effect of changing the concentrations of a reactant on the rate of reactions, and to
- observe and record the effect of changing the temperature of a system on the rate of a reaction.

Materials and Methods:

The materials and methods for this laboratory followed the procedures laid out in Experiment 11B on pages 149-170 of *Essential Experiments for Chemistry* by Morrison and Boyd with the following exceptions:

- only two beakers were used to make water baths instead of four,
- volumetric pipettes were used instead of dropping pipettes,
- 25 mm + 100 mm test tubes were used instead of 15 mm + 175 mm ones,
- four test tubes were used instead of eight, and
- solutions A and B were mixed by shaking the test tube slightly instead of pouring between both test tubes.

Observations:

Part I:

First, approximately 50 mL of solution A and 50 mL of solution B were obtained from the front of the laboratory in 100 mL beakers. According to the instructor, solution A contained 0.002M KIO_3 and solution B contained 0.0005M NaHSO_3 , H_2SO_4 , and starch. Solution A appeared very clear, its appearance no different than water while solution B appeared very cloudy, due to the starch in solution.

Then, four 25 mm + 100 mm test tubes were obtained from the laboratory and placed in a test tube rack. Using a volumetric pipette, 10 mL of solution A was transferred into a graduated

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Publications United States. National Bureau of Standards,1981 **Comprehensive Coordination Chemistry II** J. A. McCleverty,T.J. Meyer,2003-12-03 Comprehensive Coordination Chemistry II CCC II is the sequel to what has become a classic in the field Comprehensive Coordination Chemistry published in 1987 CCC II builds on the first and surveys new developments authoritatively in over 200 newly commissioned chapters with an emphasis on current trends in biology materials science and other areas of contemporary scientific interest Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1981 **Cumulated Index to the Books** ,1928 The United States Catalog Mary Burnham,Carol Hurd,1928 **Foundations of College Chemistry, Alternate** Morris Hein,Susan Arena,2010-01-26 Learning the fundamentals of chemistry can be a difficult task to undertake for health professionals For over 35 years this book has helped them master the chemistry skills they need to succeed It provides them with clear and logical explanations of chemical concepts and problem solving They ll learn how to apply concepts with the help of worked out examples In addition Chemistry in Action features and conceptual questions checks brings together the understanding of chemistry and relates chemistry to things health professionals experience on a regular basis NBS Special Publication ,1968 **Chemical Engineer** Richard Kidder Meade,Harry McCormack,Laurance T. Clark,Alexander G. Sclater,Lloyd Lamborn,1916 **Popular Mechanics** ,1937-07 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle

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