

# Iodine Clock Reaction

## Research question

How does the concentration of sodium bisulfite affect the rate of reaction between acidified potassium iodate solution and sodium bisulfite solution?

## Objective

To investigate the effect of the concentration of sodium bisulfite on its rate of reaction with acidified potassium iodate solution, measured by the time it takes for the appearance of blue-black colour in the reaction mixture.

## Balanced chemical equation with state symbols



## Materials (with uncertainty)

1. Potassium iodate solution (solution A)
2. Sodium bisulfite solution (solution B)
3. Starch solution (solution C)
4. Distilled water
5. 3ml Plastic graduated pipette ( $\pm 0.25$  ml)
6. Stopwatch ( $\pm 0.01$  s)
7. Reaction beaker
8. White paper

## Volumes of solutions used in the experiment

Experiment	Distilled water ( $\pm 0.25$ ml)	Solution A/ Potassium iodate solution ( $\pm 0.25$ ml)	Solution C/ Starch solution ( $\pm 0.25$ ml)	Solution B/Sodium bisulfite solution ( $\pm 0.25$ ml)
1	3	1.0	0.5	0.5
2	2.5	1.0	0.5	1
3	2	1.0	0.5	1.5
4	1.5	1.0	0.5	2

# Iodine Clock Experiment Lab Report

**Ying Liu**



## **Iodine Clock Experiment Lab Report:**

**Teaching Science in Diverse Classrooms** Douglas B. Larkin, 2025-05-29 As a distinctive voice in science education writing Douglas B Larkin provides a fresh perspective for science teachers working to make real science accessible to all K 12 students Through compelling anecdotes and vignettes this book draws on research to present a vision of successful and inspiring science teaching that builds upon the prior knowledge experiences and interests of students With empathy for the challenges faced by contemporary science teachers Teaching Science in Diverse Classrooms encourages teachers to embrace the intellectual task of engaging their students in learning science and offers an abundance of examples of what high quality science teaching for all students can look like This updated and expanded second edition includes more attention to teaching and learning science in a world changed by the pandemic and reaffirms the importance of attending to equity and justice in science classrooms Divided into four sections this book centers around the idea that the decisions made by good science teachers help light the way for their students along both familiar and unfamiliar pathways to understanding The book addresses topics and issues that occur in the daily lives and career arcs of science teachers such as Aiming for culturally relevant science teaching Eliciting and working with students ideas Reshaping school science with scientific practices Viewing science teachers as science learners Teaching science in turbulent times Grounded in the Next Generation Science Standards NGSS this is a perfect resource for both pre service and in service teachers and teacher educators that addresses the intellectual challenges of teaching science in contemporary classrooms and models how to enact effective reform based science teaching practices for all students

**Instructors Manual to Lab Manual** Ralph Petrucci, William Harwood, Geoffrey Herring, 2001 Experiments in General Chemistry Gerald S. Weiss, 1985 Scientific and Technical Aerospace Reports ,1986 Government Reports Announcements & Index ,1993-02 Nuclear Science Abstracts ,1963 Nuclear Science Abstracts ,1963-03 **Laboratory Manual to Accompany Introductory Chemistry** Uno Kask, Otto W. Nitz, Martin G. Ondrus, Tammy J. Melton, 1993-07 This fifth edition of this laboratory manual emphasizes safety in the lab and discusses equipment requirements in the apparatus section at the beginning of each experiment It also features a revised art programme and explains the rationale for each experiment *The Boston Journal of Chemistry and Popular Science Review* ,1881 **Boston Journal of Chemistry and Popular Science Review** ,1882 The Education Index ,1974 The Popular Science News and Boston Journal of Chemistry ,1882 Energy Research Abstracts ,1992 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **INIS Atomindex** ,1984 Popular Science News ,1882

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In a digitally-driven earth wherever screens reign great and instant connection drowns out the subtleties of language, the profound strategies and psychological subtleties hidden within phrases frequently go unheard. However, nestled within the pages of **Iodine Clock Experiment Lab Report** a interesting literary treasure blinking with natural thoughts, lies a fantastic quest waiting to be undertaken. Published by a skilled wordsmith, this enchanting opus invites readers on an introspective journey, softly unraveling the veiled truths and profound influence resonating within ab muscles fabric of every word. Within the psychological depths of this touching evaluation, we shall embark upon a heartfelt exploration of the book is primary themes, dissect its captivating writing style, and fail to the powerful resonance it evokes deep within the recesses of readers hearts.

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