

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 (± 0.25 ml)
6. Stopwatch (± 0.01 s)
7. Reaction beaker
8. White paper

Volumes of solutions used in the experiment

Experiment	Distilled water (± 0.25 ml)	Solution A/ Potassium iodate solution (± 0.25 ml)	Solution C/ Starch solution (± 0.25 ml)	Solution B/Sodium bisulfite solution (± 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

**Uno Kask, Otto W. Nitz, Martin G.
Ondrus, Tammy J. Melton**

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

The Education Index, 1974 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 *Boston Journal of Chemistry and Popular Science Review*, 1882 INIS Atomindex, 1984 *Aerospace Medicine and Biology*, 1986 A selection of annotated references to unclassified reports and journal articles that were

introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA *Popular Science News* ,1882 **The Popular Science News and Boston Journal of Chemistry** ,1882 **Current Index to Journals in Education** ,1987-07 **Biological Abstracts** Jacob Richard Schramm,1963 **The Journal of General Microbiology** ,1981 Contains abstracts of papers presented at meeting of the Society for General Microbiology *Computer Vision and Image Processing* ,1986

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