

EXPERIMENT 7

CHEMICAL KINETICS

SAMPLE REPORT

Special Notes

1. The report must be written in ink (blue pen), no pencil allowed. However, the graph can be drawn in pencil.
2. The layout of the report must be tidy (no white out) and legible in writing.
(Work out all the solutions on some scrap papers first, then copy to the report sheets.)
3. Page 7 - 1
 - ① Record exact temperatures in °C to 1 decimal.
 - ② Both the "Time" in seconds and "Relative Rate" must be integers.
 - ③ Report the "Initial $[I^-]$ ", "Initial $[S_2O_8^{2-}]$ " and "Rate" in *3 s.f.*
4. Page 7 - 2
 - ① Show **all** calculations for:
 - (A) Concentration of initial $[I^-]$,
 - (B) Concentration of initial $[S_2O_8^{2-}]$,
 - (C) Rate of Reaction of $S_2O_8^{2-}$, and
 - (D) Relative Rates
 - ② Keep all calculations in *3 s.f.*. However, Relative Rate, Order of Reaction, and "m" and "n" must be reported as integers.
5. Page 7 - 3
 - ① For Question 1, the conclusion must include: **rate** \propto $[I^-]$.
 - ② For Question 2, the conclusion must include: **rate** \propto $[S_2O_8^{2-}]$.
 - ③ For Question 3, the rate law is: **rate** $= k [I^-] [S_2O_8^{2-}]$
6. Page 7 - 4
 - ① Show calculations of rate constants, **k**, for all five reactions.
 - ② The units of rate constant, **k**, is $M^{-1} \cdot s^{-1}$.
 - ③ The **accuracy** of **k** is between 3.30×10^{-3} to $3.90 \times 10^{-3} M^{-1} \cdot s^{-1}$ at 22 - 23°C.
 - ④ The **precision** of **k** $\pm 0.30 \times 10^{-3} M^{-1} \cdot s^{-1}$ between highest and lowest **k**.

Example Lab Report Kinetics Of A Reaction

Rodney L. Doran



Example Lab Report Kinetics Of A Reaction:

Scientific and Technical Aerospace Reports ,1995 *Laboratory Organization. Automation* D.J. Vonderschmitt,2011-12-07 No detailed description available for Laboratory Organization Automation Ironmaking and Steelmaking Zushu Li,Claire Davis,2019-08-13 Steel is a critical material in our societies and will remain an important one for a long time into the future In the last two decades the world steel industry has gone through drastic changes and this is predicted to continue in the future The Asian countries e g China India have been dominant in the production of steel creating global over capacity while the steel industry in the developed countries have made tremendous efforts to reinforce its global leadership in process technology and product development and remain sustainable and competitive The global steel industry is also facing various grand challenges in strict environmental regulation new energy and materials sources and ever increasing customer requirements for high quality steel products which has been addressed accordingly by the global iron and steel community This Special Issue Ironmaking and Steelmaking released by the journal Metals published 33 high quality articles from the international iron and steel community covering the state of the art of the ironmaking and steelmaking processes This includes fundamental understanding experimental investigation pilot plant trials industrial applications and big data utilization in the improvement and optimization of existing processes and research and development in transformative technologies It is hoped that the creation of this special issue as a scientific platform will help drive the iron and steel community to build a sustainable steel industry *Report summaries* United States. Environmental Protection Agency,1983 **Science Educator's Guide to Laboratory Assessment** Rodney L. Doran,2002 The book opens with an up to date discussion of assessment theory research and uses Then comes a wealth of sample assessment activities in biology chemistry physics and Earth science Keyed to the National Science Education Standards the activities include reproducible task sheets and scoring rubrics All are ideal for helping students reflect on their own learning during science lab **Selected Water Resources Abstracts** ,1991 *U.S. Government Research Reports* ,1964 **Energy Research Abstracts** ,1994-12 Symposia Defense Documentation Center (U.S.),1963 **U.S. Government Research & Development Reports** ,1970 **The Office of Environmental Management Technical Reports** ,1997 **Exploring General Chemistry in the Laboratory** Colleen F. Craig,Kim N. Gunnerson,2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science *Journal de physique* ,2002 *Technical Abstract Bulletin* ,1964 Chemical

Abstracts ,1907 **Inventory of Federal Energy-related Environment and Safety Research for ...** ,1978

Inquiry-based Experiments in Chemistry Valerie Ludwig Lechtanski,2000 Inquiry Based Experiments in Chemistry is an alternative to those cookbook style lab manuals providing a more accurate and realistic experience of scientific investigation and thought for the high school chemistry or physical science student **Nuclear Science Abstracts** ,1972

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