

# Reaction Rates and Chemical Equilibrium

18

## A. Factors That Affect the Rate of a Reaction

### A.1 Effect of Temperature

Test Tube	Temperature (3)	Observations (4)
1.	6.8°C	Some bubbling
2.	57.4°C	Many bubbles and fizzing

Which test tube cleared first (4)?

**Q1** How did an increase in temperature affect the rate of a reaction?

As temperature increases, rate of reaction increases. An increase in temperature will raise average kinetic energy of the reactant molecules. Therefore, a greater proportion of molecules will have the minimum energy necessary for an effective collision and maximize the rate of reaction.

### A.2 Effect of Changing Reactant Concentration

Test Tube	Concentration of HCl	Initial time (2)	Final time (3)	Total time (3) - (2)
1.	1.0 M HCl	0		206 s
2.	2.0 M HCl	0		113 s
3.	3.0 M HCl	0		30 s

# Lab Report On Reaction Rates And Equilibrium

**Sam Stuart**



## Lab Report On Reaction Rates And Equilibrium:

**Reaction Rates for High-temperature Air with Carbon and Sodium Impurities** Mina L. Carnicom, 1968 The values used by a number of investigators for the rate constants of high temperature greater than or equal to 1000 K homogeneous gaseous reactions involving species of the elements nitrogen oxygen carbon and sodium have been compiled and are presented in tabular form Included are reactions involving neutral species charged species free electrons some species in excited electronic or vibrational states and radiative processes **SCR.**, 1968 *The High Temperature Aspects of Hypersonic Flow* Wilbur C. Nelson, 2014-12-02 The High Temperature Aspects of Hypersonic Flow is a record of the proceedings of the AGARD NATO Specialists Meeting held at the Technical Centre for Experimental Aerodynamics Rhode Saint Genese Belgium in April 1962 The book contains the papers presented during the meeting that tackled a broad range of topics in the aspects of hypersonic flow The subjects covered during the meeting include pressure measurements interference effects the use of wind tunnels in aircraft development testing high temperature gas characteristics boundary layer research stability and control and the use of rocket vehicles in flight research Aerospace engineers and aeronautical engineers will find the book invaluable *Laboratory Manual for Principles of General Chemistry* J. A. Beran, Mark Lassiter, 2022-08-16 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don't write experiments A student's scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition's experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment's Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section Fossil Energy Update, 1976 Energy Research Abstracts, 1994-03 Ninth Symposium (International) on Combustion Sam Stuart, 2013-09-11 Ninth Symposium International on Combustion covers the proceedings of the Ninth Symposium International on Combustion held at Cornell University in Ithaca New York on August 27 to September 1 1962 under the auspices of the Combustion Institute The book focuses on the processes and reactions involved

in combustion The selection first offers information on flame strength of propane oxygen flames at low pressures in turbulent flow and mixing and flow in ducted turbulent jets Topics include radial profile of the jetting velocity radial growth of the jet and mixing zones of a ducted jet The text then elaborates on turbulent flame studies in two dimensional open burners turbulent mass transfer and rates of combustion in confined turbulent flames and flame stabilization in a boundary layer The publication examines the theoretical study of properties of laminar steady state flames as a function of properties of their chemical components and spectra of alkali metal organic halide flames The text then takes a look at the thermal radiation theory for plane flame propagation in coal dust clouds flame characteristics of the diborane hydrazine system and studies of the combustion of dimethyl hydrazine and related compounds The selection is a dependable reference for readers interested in the processes and reactions involved in combustion

*Research Report - Avco Everett Research Laboratory* Avco Corporation. Everett Research Laboratory,1967      *Scientific and Technical Aerospace Reports* ,1992-07      **Solar Energy Update** ,1982      *Nuclear Science Abstracts* ,1976-06      **Proceedings of the Workshop on Geochemical Modeling** ,1986      **ERDA Energy Research Abstracts** ,1983      *Proceedings* ,1967      **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1977      *Laboratory Manual for Principles of General Chemistry* Jo Allan Beran,2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures      *Addison-Wesley Chemistry Laboratory Manual* Dennis D. Staley,1995      **NASA Scientific and Technical Reports** United States. National Aeronautics and Space Administration Scientific and Technical Information Division,1967      *A Selected Listing of NASA Scientific and Technical Reports for ...* United States. National Aeronautics and Space Administration. Scientific and Technical Information Division,1966      *A Selected Listing of NASA Scientific and Technical Reports for 1966* United States. National Aeronautics and Space Administration. Scientific and Technical Information Division,1967

Lab Report On Reaction Rates And Equilibrium: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Lab Report On Reaction Rates And Equilibrium : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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