I'm not robot!



From left to right COLD, NORMAL, HOT



approximately 30 seconds. If you observe a gas forming, test for its identity by holding a lighted matchstick into the solution. Record your observations. Discard the contents of the test tube into the waste container provided.

Table 1. Observations

19.1

Reaction	Observation	Reaction Type
1. Iron and copper(II) sulfate		
2. Lead(II) nitrate and potassium iodide		
3. Heated copper(II) sulfate pentahydrate		
4. Magnesium and hydrochloric acid		
5. Heated hydrogen peroxide		

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Data Analysis

- Decide which type of reaction is represented by each reaction observed in the experiment. Record your answers in Table 1.
- 2. Write a balanced chemical reaction for each of the reaction observed.
- No combination reactions were described in the procedure section for this experiment. Give an
 example of a combination reaction from an experiment you have done in Pisay. Please note the
 title of the experiment and the year it was done. Write the balanced chemical reaction for the
 reaction.



Half Life for First-Order Reactions

Half-life is defined as



Kinetics lab report chemistry. Kinetics order of reaction lab report.

Introduction My essay is focused on chemical kinetics, which is only about 100 years old subfield of chemistry. Kinetics is topic, which investigates the speed of reactions happen and about set is topic, which investigates the speed of reactions happen and about happen and about reactions happen and about reactions happen a areas: for instance, in pharmacology to work out how fast the drug dissolves or in food industry in order to understand food decomposition. This experiment is following: CH3COCH3 (aq) + I2 (aq) = CH3COCH2I (aq) + HI (aq) This reaction is suitable because it is fast enough to make multiple runs, but...show more content...The reaction is first order with respect to propanone or acid is increased, the rate increases as well, in liner...... However, when the concentration of iodine is changed, the rate is not affected. This is due to it's reaction mechanism. One way the reaction to occur, is explain as following: In the rate constant. The rate constant. The rate constant is independent of the concentrations of substances, but may depend on environmental factors such as temperatures . k stays the same. This property can be used to find k with different concentrations and find the average in order to ensure that the value of k in specific temperature is reliable. In order to calculate activation energy, the rate constant must be calculated in different temperatures, in this particular experiment, rate constant is calculated in following temperatures: 9°C, 22°C, 29°C, 37°C, 45°C. Rate constant can be calculated by dividing the initial rate of the reaction by the concentrations of CH3COCH3 and H+. In this experiment, the units of k are mol-1 dm3...show more content...To ensure the constant rate between HCl and propanone, solutions of propanone and HCl were prepared by following next steps: 100 cm3 of 2M propanone was poured in 250 cm3 of 2M HCl was poured on the top of propanone (±1.5 cm3) The mixture was poured on the top of propanone (±1.5 cm3) The mixture was diluted by 10%. The amounts of propanone, distilled water and HCl were following: 1st solution 2nd solution 3rd solution 3rd solution 5th solu solutions were put in fridge to cool down the solutions and others were left to stay in room temperature over night. Afterwards, for temperature constant. Measuring the To determine the rate law for the reaction 2 I- + S2O82- - I2 + 2 SO42- . 1 To relate changes in reactant concentrations to changes in reaction and the mechanism by which the reaction occurs. We can think of the rate as the number of events per unit time. The rate at which you drive (your speed) is the number of miles you drive in an hour (mi/hr). For a chemical reaction the rate is the number of moles that react in a second. In practice, we usually monitor how much the concentration (the number of moles in a liter) changes in a second. Reaction rates are usually expressed in units of moles per liter per second, or molarity per second (M/s). The reaction to be studied in this experiment is a redox reaction between iodide ions and persulfate anions: (1) $2I - + S2082 - \rightarrow I2 + 2 S042 - Our definition of reaction rate is the change in concentration with time, but the concentration of which chemical species? The answer is, any of them. For example, we could measure the rate at which I2 is formed. Then the rate would$ be: This equation states that the rate is equal to the change in I2 concentration divided by the change in time. The units are M/s. We could also measure the rate at which S2O82- is used up. Then the rate would be: (3) Note the negative sign in equation 3. Reaction rates are always given positive values, but the S2O82- concentration is decreasing as the reaction proceeds. (4) Δ [S2O82-] = [S2O82-] final - [S2O82-] initial < 0 Hence, there is a negative sign to make the reaction rate based on rate based on disappearance of I- would be expressed as: (5) The three reactions of importance in this experiment are: (6) $2I - + S2032 - \rightarrow 2I - + S4062 - (7) I2 + 2S2032 - \rightarrow 2I - + S4062 - (7) I2 + 2S2032 - \rightarrow 2I - + S4062 - (7) I2 + S2032 - \rightarrow 2I - + S4062 - (7) I2 + S2032 - \rightarrow 2I - + S4062 - (7) I2 + S2032 - \rightarrow 2I - + S4062 - (7) I2 + S2032 - \rightarrow 2I - + S4062 - (7) I2 + S2032 - \rightarrow 2I - + S4062 - (7) I2 + S2032 - \rightarrow 2I - + S4062 - (7) I2 + S2032 - \rightarrow 2I - + S4062 - (7) I2 + S2032 - \rightarrow 2I - + S4062 - (7) I2 + S2032 - \rightarrow 2I - + S4062 - (7) I2 + S2032 - \rightarrow 2I - + S4062 - (7) I2 + S2032 - \rightarrow 2I - + S4062 - (7) I2 + S2032 - \rightarrow 2I - + S4062 - (7) I2 + S2032 - (7) I2 + (7) I$ and persulfate ions (S2O82-) is elemental iodine. Iodine, in the presence of thiosulfate ions (Reaction 7). Iodine can also, in the presence of starch, form a blue-black product (Reaction 8). Reaction 7). Iodine can also, in the presence of starch, form a blue-black product (Reaction 8). Reaction 7). up, Reaction 8 occurs and the dark color of the indicator appears. The change in concentration of a chemical species usually depends on the reaction, its concentration is high, and a substantial amount of reactant will disappear in a second. Near the end of the reaction, its concentration is low, and a much smaller amount of reactant will disappear in a second. A standard way to compare reaction rates under different conditions is to measure the time it takes for the first small percentage of Reaction 6 to occur. But we do it in an indirect way. The time it takes for Reaction 7 to occur will actually be measured. The experiment will be set up such that the amount of thiosulfate (S2O32-) is only about one percent of the amount of thiosulfate (S2O32-) is only about one percent of the amount of the a is consumed by thiosulfate in Reaction 7. No iodine is left to react with the starch indicator. When the S2O32- is used up, Reaction 6 is still going (it still has about 99% to go!), but the iodine produced then begins to react with the starch, giving a color change. Thus, the color change indicates the total consumption of thiosulfate, S2O32-. Knowing the amount of thiosulfate that reacted and measuring the time that it takes to react gives Δ [S2O32-]/ Δ t. This is related to the rate of Reaction 6 (what we want!) by the stoichiometry between S2O82- and S2O32-] is negative (the concentration decreases as the reaction proceeds), but the negative sign in the formula again gives a positive value for the rate. A simple question about reactants you start with? It seems as if it should, but this is not always the case. The answer to the question depends on the mechanism of the reaction. A reaction mechanism is the series of steps that the reaction follows. The slowest step determining step. Look again at the reaction whose rate is to be measured: (10) 2 I- + S2O82- → I2 + 2 SO42- You might guess that this reaction occurs when two iodide and one persulfate ion collide together in solution. However, a collision between three species such that they meet in the correct orientations to react is very rare. Most likely, the reaction proceeds in simpler steps. Some reasonable mechanisms are these: 1 The rate-determining step has two iodide ions coming together. In this case, the rate depends only on the initial concentration of iodide. 2 The rate-determining step involves a persulfate ion decomposing. In this case, the rate depends only on the initial concentration of persulfate. 3 The rate-determining step has an iodide ion and a persulfate ion coming together. In this case, the rate depends on the concentrations of both ions. All of the mechanisms are plausible. The only way to distinguish among them is by experiment. The concentration dependencies are summarized by the rate constant, which is unique to the reaction. (Do not confuse k, the rate constant, with K, the equilibrium constant!) The exponents x and y must be determined by experiment. We do this by measuring the reaction rate at different initial concentrations of iodide and persulfate. For example, if we double the initial [I-] and the rate doubles when [I-] is doubled x must be one, and the reaction is first order in iodide ions. If the rate goes up by a factor of four when [I-] is doubled, x must be two, and the reaction order for persulfate ion. Your textbook gives an algebraic method for determining x and y, which must be used for more complicated reaction orders. Once the reactant is determined, one can substitute the values for reactant is determined, one can substitute the values for reactant is determined. overall reaction order, which is the sum of the individual exponents. Reaction order is an indication of the reaction. These will enable you to determine the reaction order in each of the reactions, and calculate the rate constant. You will then determine the rate law for the reaction between iodide and persulfate ions. 50 mL burets 50 mL graduated cylinders 100 mL volumetric pipet bulb ring stand with buret clamp deionized water squirt bottle 0.200 M KI 0.100 M (NH4)2S2O8 0.0050 M Na2S2O3 0.200 M KCl 0.100 M (NH4)2SO4 3% starch solution Ammonium persulfate is an oxidizing agents. The dilute persulfate solutions used in this experiment may be handled safely with other aqueous solutions. The chemicals used in this experiment are very dilute so gloves will not be available. Remember to wash your hands with soap and water when the experiment is completed. All of the solutions can be flushed down the sink with plenty of water. Please read the following sections of Lab Safety and Practices: Good Lab the following videos under Instructional Videos: Please complete WebAssign prelab assignment. Check your WebAssign Account for due dates. Students who do not complete the WebAssign prelab are required to bring and hand in the prelab worksheet. Please print the worksheet for this lab. You will need this sheet to record your data. 1 Five different solutions with similar names are used in this experiment. Label the glassware so you will not mix things up. For example, 50 mL buret for (NH4)2S2O8 100 mL beaker for obtaining (NH4)2S2O8 50 mL beaker for (NH4)2S2O8 dispensed from buret 50 mL buret for KI dispense for 10.00 mL pipet for Na2S2O3 graduated cylinder for KCl graduated cylinder for KCl graduated cylinder for (NH4)2SO4 100 mL beakers, and pouring the liquids into beakers, and pouring them from the beakers as you conduct the reactions. Some loss of liquid will occur in these transfers. Therefore, it is not necessary to read the buret to 0.01 mL as you would in a titration. Read to the nearest 0.1 mL (small gradation). 2 The following procedure applies for each run. Make sure the reaction beaker is rinsed and dried between each run. a Use your KI buret to measure the appropriate amount of 0.200 M KI into the labeled beaker. b Use your (NH4)2S2O8 buret to measure the appropriate amount of 0.100 M (NH4)2S2O8 into the labeled beaker. c Use a pipet to measure 10.00 mL of Na2S2O3 into the reaction beaker. Add 3 or 4 drops of starch solution. d Use a graduated cylinder to add KCl or (NH4)2SO4 solution to the reaction beaker if it is required for the run. These solutions are added to maintain a constant concentration of ions in all the runs. e Add the magnetic stir bar to the reaction beaker and mix the contents of the reaction beaker and mix the contents of the reaction beaker and mix the contents of the reaction beaker. reaction beaker. This is the initial time for the reaction and note the time at which the blue-black color of the starch-iodine complex appears. Record the elapsed time in Data Table A. Table thiosulfate in the first run? Account for dilution and show your work. 3 Record the values from these calculations in Data Table B. Repeat the calculations for the other four runs. Table B: Repeat the calculations for the other four runs. Table B: Repeat the calculations in Data Table B: Repeat the calculations for the other four runs. Table B: Repeat the calculations in Data Table B: Repeat the calculations for the other four runs. Table B: Repeat the calculations for the other four runs. Table B: Repeat the calculations for the other four runs. Table B: Repeat the calculations for the other four runs. Calculations for Determination of Rate Law Question 4: Inspect the data in Data Table B. What is the order of the reaction with respect to iodide ions? Explain how you arrived at your answer. Question 5: Inspect the data in Data Table B. What is the order of the reaction with respect to iodide ions? Explain how you arrived at your answer. Question 6: Write the rate law for this reaction, showing the proper exponents. Question 7: Calculate the rate constant for the first run. Include units. Show your work, and record the result in Data Table B. 4 Calculate the rate constants for the other four runs and record the rate constants in Data Table B. 5 When you are finished, rinse all of your glassware with water, dry it and return it to the set-up area where you found it. 6 Before leaving, enter your results in the in-lab assignment. If all results are correct, log out. If not all results are correct, try to find the error or consult with your lab instructor. When all results are correct, log out of WebAssign. The in-lab assignment must be completed by the end of the lab period. If additional time is required, please consult with your lab instructor.

The course assumes no prior knowledge of chemistry and begins with basic concepts. Topics include an introduction to the scientific method, dimensional analysis, atomic structure, nomenclature, stoichiometry and chemical reactions, the gas laws, thermodynamics, chemical bonding, and properties of solutions. Co-Requisite: CHM-113L. CHEM 125. Foundations of Chemical Inquiry II. 2 hours. Laboratory in general chemistry including chemical thermodynamics, spontaneity, chemical equilibrium, acid-base equilibrium, electrochemistry includents with it. ... Chemical Reactions; Chemicals; chemicals

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