Chemical kinetics worksheet pdf

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Worksheet 2 - Chapter 14 - Chemical Kinetics

1. The rate equation for a chemical reaction is determined by

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(A) theoretical calculations.
 (B) measuring reaction rate as a function of concentration of reacting species.
 (C) determining the equilibrium constant for the reaction.
 (D) measuring reaction rates as a function of temperature

Which line in the diagram represents the activation energy for a forward reaction?





3. The rate law for the reaction $A + B \rightarrow C + D$

is first order in [A] and second order in [B]. If [A] is halved and [B] is doubled, the rate of the reaction will

(A) remain the same.
(B) be increased by a factor of 2.
(C) be increased by a factor of 4.
(D) be increased by a factor of 8.

4. Bimolecular reactions (e.g. A + B ⇒ C) generally occur at much slower rates than one would predict from the rate of collision between molecules as calculated from the gas kinetic theory. The discrepancy can be explained in terms of

- (A) intermolecular repulsions.
 (B) nonspherical molecular shapes.
 (C) erroneous estimates of molecular size.
 (D) activation energies of reaction.
 (E) the uncertainty principle.

5. If a reaction proceeding by the mechanism $A + B \rightarrow C + D$

occurs at a rate x, and if the concentrations of A and B are both doubled, what will be the new rate of reaction? (A) x (B) 2x (C) 4x (D) 8x (E) 16x

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3. Which of the following call be used to determine the rate opustion for a characteria. Name Training

- Neeving the task of the reaction as a function of the concentration of reacting species.
- Measuring the take of the reaction as a functioni.
- of temperature."
- Story the rate squatters, hate = x (A/18), dofter the order of the reaction with respect to A and B. What is the total start of the reaction?

under with \$40 = 2 under size \$80 = 2 towerst under in 2.

3: A reaction function operation of a straphest" in some 20, 7 the concentration of 4. in haland? (b), man his 1/11

A Shop the excelorable between the rule of disappropriate of reactions. and formation of products for each of the following machines. 1. 2. Ougl = 3. Ougl

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Chemistry Question Bank - Kinetic Molecular Theory and Gas Laws



The entropy of a sample of HDO increases as the sample changes from a

 (1) gas to a liquid (2) gas to a solid 	(3) liquid to a gas (4) liquid to a solid
(6/99)	
A 1.0-mole sample of krypton gas has a mass of	

(0) 39 ± (3) 19 g (2) 36 g 00.84.0

Compared to the freezing point and boiling point of water at 1 atmosphere, a solution of a salt, and water at 1 atmosphere has a

(1) lower freezing point and a lower boiling point. (2) lower freezing point and a higher boiling point (1) higher beezing point and a lower boiling point (4) higher beezing point and a higher boiling point.

Under which conditions of temperature and pressure would a real gas behave most like an ideal gas?

5

- <u>Reaction Rate</u> = the change in concentration of 12-3 reactant(s) or products per unit time.

L> in the reaction on the last page (Table 12.1; Fig. 12.1) we have: $2 \operatorname{NO}_2(9) \longrightarrow 2 \operatorname{NO}(9) + \operatorname{O}_2(9)$ consumed (-) K A[NO2] A[NO] rate = 20 |rate = g rate = 2 V because only half as much produced. See the balanced equation. * so, the reaction rate, or "rate", can be written in terms of any of the reactants or in terms of any of the products. 1> To be consistent however, it's customary to represent the reaction rate in terms of the reactant (s), so: - An Examination of Figure 12-1 on the Previous Page. L's at any single point on the Noz curve, we can calculate the instantaneous rate of the reaction. Ly = calculated by finding the slope (m) of the line tangent to the curve at the specific time (t).

ex: Calculate the instantaneous rate of the reaction after 100. seconds has elapsed since the reaction started.





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Section Work in groups on these problems. You should try to answer the questions without referring to your textbook. If you get stuck, try asking another group for help. 1 Write the rate expression in terms of D[reactant]/Dt and D[product]/Dt: Student ID# Name rate = D[N2]/Dt = D[N2]/2Dt = D[N2]/2Dt = D[N2]/2Dt = D[NH3]/2Dt = Dthe initial concentration is 0.50 M, the concentration after 3 min is: 0.497 M b. The half-life for the reaction in question 4a is: 3.08×104 s 4. The decomposition of AB is first order with a k = $2.3 \times 10-7$ s-1 at 45oC. If the initial concentration is 0.25 M, the concentration after 2.3 min is: 0.25 M b. The half-life for the reaction in question 4a is: 3.01×106 s 5a. The concentration of reactant after 2.5 minutes if the initial concentration was 0.100 M and $k = 6.93 \times 10-3 \text{ s}-1$ for a first order reaction: \[SO 2Cl 2 \rightarrow SO 2 + Cl 2\] How long will it take to reach 0.31 x 10-3 M if the initial concentration was 1.25 x 10-3 M and $k = 6.93 \times 10-3 \text{ s}-1$ for a first order reaction: \[SO 2Cl 2 \rightarrow SO 2 + Cl 2\] How long will it take to reach 0.31 x 10-3 M if the initial concentration was 1.25 x 10-3 M and $k = 6.93 \times 10-3 \text{ M}$ if the initial concentration was 1.25 x 10-3 M and $k = 6.93 \times 10-3 \text{ M}$ if the initial concentration was 1.25 x 10-3 M and $k = 6.93 \times 10-3 \text{ M}$ if the initial concentration was 1.25 x 10-3 M and $k = 6.93 \times 10-3 \text{ M}$ if the initial concentration was 1.25 x 10-3 M and $k = 6.93 \times 10-3 \text{ M}$ if the initial concentration was 1.25 x 10-3 M and $k = 6.93 \times 10-3 \text{ M}$ and $k = 6.93 \times 10-3 \text{ M}$ if the initial concentration was 1.25 x 10-3 M and $k = 6.93 \times 10-3 \text{ M}$ and k0.17/hr? 8.2 hrs 7. For the second order reaction \(A \rightarrow B\) (k = 1.5 x 10-2/Ms), if the initial concentration of A is 0.10M, the concentration of A is 0.10M, the concentration of A after 4 min is: 0.074 M the half-life is: 667 s Read and download free pdf of CBSE Class 12 Chemistry Chemical Kinetics Worksheet Set E. Students and teachers of Class 12 Chemistry Can get free printable Worksheets for Class 12 Chemistry in PDF format prepared as per the latest syllabus and examination pattern in your schools. Standard 12 students should practice questions and answers given here for Chemistry in Grade 12 which will help them to improve your knowledge of all important chapters and its topics. 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Of B alone is increased to 3 times? b) the conc. A as well as B are doubled? Important Questions for NCERT Class 12 Chemistry Chemical KineticsQuestion. For reaction $aA \rightarrow xP$, when [A] = 2.2 mM, the rate was found to be 2.4 mMs-1. On reducing concentration of A to half, the rate changes to 0.6 mMs-1. The order of reaction with respect to A is : (a) 1.5(b) 2.0(c) 2.5(d) 3.0Question. For a first order reaction, to obtain a positive slope, we need to plot {where [A] is the concentration of reactant A} (a) - log10[A] vs t(c) log10[A] vs 0.0693 × 2.5 mol L-1 min-1(c) 0.0693 × 5 mol L-2 min-1(d) 0.0693 × 10 mol L-1 min-1Answer BQuestion. The first order rate constant for a certain reaction increases from 1.667 × 10-6 s-1 at 727°C to 1.667 × 10-6 s-1 at 7 19.9 = 1.299 (a) $3.911 \times 10-5$ s-1(b) $1.139 \times 10-5$ s-1(c) $3.318 \times 10-5$ s-1(d) $1.193 \times 10-5$ s-1(d) 1factor of 2 to 3(c) Activation energy is lowered by a factor of 2 to 3.(d) none of theseAnswer BQuestion. The rate constant for the reaction, $2N2O5 \rightarrow 4NO2 + O2$ is 3.0x10-4 s-1. If start made with 1.0 mol L-1 of N2O5, calculate the rate of formation of O2 is 0.1 mol L-1.(a) $2.7 \times 10-4 \text{ molL-1s}$. 1 (b) 2.4x10-4 molL-1s-1(c) 4.8x10-4 molL-1s-1(d) 9.6x10-4 molL-1s-1(d) 9.6x10-4 molL-1s-1Answer AQuestion. Half-lives of a first order and a zero order reaction are same. Then the ratio of the initial rates of first order reaction to that of the zero order reaction. Using this theory and the kinetic molecular model, which of the following does NOT BQuestion. Collision theory is used to explain how chemical species undergo a reaction. influence the rate of a chemical reaction?(a) The temperature of the system(b) The geometry or orientation of the collision(c) The velocity of the reactants at the point of collision(d) All of the above influence the rateAnswer DQuestion. For the following reaction: NO2(g) + CO2(g), the rate law is: Rate = k [NO2]2. If 0.1 mole of gaseous carbon monoxide is added at constant temperature to the reaction rate remain the same(b) Both k and the reaction rate remain the same(c) Both k and the reaction rate remain the same(b) Both k and the reaction rate download full pdf file for CBSE Class 12 Chemistry Worksheet - Chemical Kinetics. 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Show that for a first order in A and second order in B.a) Write differential rate equation.b) How is the rate affected when the concentration of A is tripled?c) How is the rate affected when the concentration, ln[R] Vs time(s) plot is given below: ln[R] T(s) For the reactiona) What is the order of the reaction?b) Give the relationship between k and t1/2c) What does the slope of the above line indicate? Important Questions for NCERT Class 12 Chemistry Chemical KineticsQuestion. It is because the (a) rate is proportional to the surface coverage(b) rate is inversely proportional to the surface coverage(c) rate is independent of the surface coverage(d) rate of decomposition is very slow. Question. The rate constant of the reaction between A and B the order A and B the with respect to A is 2 and the order with respect to B is 3. The concentration of both A and B are doubled, the rate will increase by a factor of 8 when the concentration of both the reactants (A and B are doubled, and rate increases by a factor of 8 when the concentration of both the reactants (A and B are doubled, and rate increases by a factor of 8 when the concentration of both the reactants (A and B are doubled, and rate increases by a factor of 8 when the concentration of both the reactants (A and B are doubled, and rate increases by a factor of 8 when the concentration of both the reactants (A and B are doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of B is doubled, and rate increases by a factor of 8 when the concentration of 8 B) are doubled, rate law for the reaction can be written as(a) rate = k[A][B]2(b) rate = k[A][B]2(c) rate = of a reaction is sum of power to the concentration terms of reaction. (d) Order of reaction is always whole number. Question. The unit of rate constant for a zero order reaction is (a) mol L-1 s-1(b) L mol-2 s-1(d) s-1 Question. For the reaction, $A + B \rightarrow$ products, it is observed that(i) on doubling the initial concentration of A only, the rate of reaction is also doubled and(ii) on doubling the initial concentration of both A and B, there is a change by a factor of 8 in the rate of this reaction. The rate of this reaction is given by(a) rate = k[A][B]2(c) rate = k[A decreases by a factor of 4 if the concentration of reactant B is doubled. The order of this reaction when(a) the rate of reaction is equal to the rate constant, the order of the reaction is (a) 0(b) 1(c) 2(d) 3 Question. 2A B \rightarrow C, It would be a zero order reaction when(a) the rate of reaction is (a) 2(b) - 2(c) 1(d) - 1 Question. If the rate of the reaction is (a) 0(b) 1(c) 2(d) 3 Question. 2A B \rightarrow C, It would be a zero order reaction when(a) the rate of reaction is equal to the rate constant, the order of the reaction is (a) 0(b) 1(c) 2(d) 3 Question. 2A B \rightarrow C, It would be a zero order reaction when(a) the rate of reaction is (a) 0(b) - 2(c) 1(d) - 1 Question. If the rate of the reaction is (a) 0(b) 1(c) 2(d) 3 Question. 2A B \rightarrow C, It would be a zero order reaction when(a) the rate of reaction is (a) 0(b) - 2(c) 1(d) - 1 Question. If the rate of the reaction is (a) 0(b) 1(c) 2(d) 3 Question. 2A B \rightarrow C, It would be a zero order reaction when(a) the rate of reaction is (a) 0(b) - 2(c) 1(d) - 1 Question. If the rate of the reaction is (a) 0(b) 1(c) 2(d) 3 Question. 2A B \rightarrow C, It would be a zero order reaction when(a) the rate of reaction is (a) 0(b) - 2(c) 1(d) - 1 Question. If the rate of the reaction is (a) 0(b) - 2(c) 1(d) - 1 Question. 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