



Student Exploration: Discharge Rate

(My answers are indicated below)

Problem: Suppose a certain chemical reaction occurs with constant temperature, pressure, and volume. Then the rate of change of the concentration of the reactants is proportional to the concentration of the reactants.

What knowledge do you need to solve this problem? List any formulas you use.

1. A differential equation of the form $y' = ky$ has the solution $y(t) = y_0 e^{kt}$ where y_0 is the initial value of y at $t = 0$. In this case, y is the concentration of the reactants and t is time.
2. If the concentration of the reactants is y_0 at $t = 0$, then the concentration of the reactants at time t is $y(t) = y_0 e^{kt}$. The rate of change of the concentration of the reactants is $y'(t) = ky(t) = ky_0 e^{kt}$.

What do you know?

I know that the concentration of the reactants is y_0 at $t = 0$. I also know that the rate of change of the concentration of the reactants is proportional to the concentration of the reactants.

What do you need to solve this problem? I need to know the differential equation that describes the concentration of the reactants as a function of time. I also need to know the initial value of the concentration of the reactants at $t = 0$. I also need to know the rate of change of the concentration of the reactants at $t = 0$.

Strategy: I should find the differential equation.

$$y' = ky \quad y(0) = y_0$$

1. What is the differential equation that describes the concentration of the reactants as a function of time? The differential equation is $y' = ky$ where y is the concentration of the reactants and t is time. The initial value of the concentration of the reactants is y_0 at $t = 0$.

$$y' = ky \quad y(0) = y_0$$

2. If the concentration of the reactants is y_0 at $t = 0$, then the concentration of the reactants at time t is $y(t) = y_0 e^{kt}$. The rate of change of the concentration of the reactants is $y'(t) = ky(t) = ky_0 e^{kt}$.

$$y(t) = y_0 e^{kt} \quad y'(t) = ky_0 e^{kt}$$

$$y(0) = y_0 \quad y'(0) = ky_0$$

What does this tell you about the differential equation? Yes, the equation is $y' = ky$.

What do you know?

$$y' = ky \quad y(0) = y_0$$

What do you need to solve this problem?

I need to know the differential equation that describes the concentration of the reactants as a function of time. I also need to know the initial value of the concentration of the reactants at $t = 0$.

Strategy: I should find the differential equation.



Explore Learning Stoichiometry Answers

Ian Pickup



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