

Equilibrium Expressions Worksheet

Look at the chemical equation $aA + bB \rightleftharpoons cC + dD$. In this reaction A, B, C, and D are chemical substances, and a, b, c, and d are the coefficients in the chemical equation. Since the equation is reversible, the reactants will not necessarily run to completion—so there won't be a limiting reactant. The forward equation and the backward equation will reach an equilibrium point where the forward equation is using A and B as fast as the backwards equation is making A and B.

If the temperature is held constant, the reaction will always reach equilibrium in such a way such that the equilibrium constant is the same. (At a different temperature the equilibrium constant for the reaction would be a constant but would be a different number.)

Equilibrium constant (K_{eq})

The relationship between the concentration of products and reactants at equilibrium can be expressed by an equilibrium constant K_{eq} (or K). Given the chemical equation in the form $aA + bB \rightleftharpoons cC + dD$, K_{eq} is found by the equation

$$K_{eq} = \frac{[C]^c [D]^d}{[A]^a [B]^b}$$

Note: [] denotes molar concentrations.

But when writing equilibrium expressions, reactants or products that are pure solids or pure liquids do not appear in the expression since no matter how much of it there is its density, and therefore its concentration, is always the same.

1. Write equilibrium expressions for each in the box provided:

- a. $O_3(g) + NO(g) \rightleftharpoons O_2(g) + NO_2(g)$
- b. $2CO(g) + O_2(g) \rightleftharpoons 2CO_2(g)$
- c. $NH_4NO_3(s) \rightleftharpoons N_2O(g) + 2H_2O(l)$
- d. $2H_2O(g) \rightleftharpoons 2H_2(g) + O_2(g)$

a.

b.

c.

d.

Calculations involving K_{eq}

The concentrations of the solutions/gases involved in the reversible reactions **at equilibrium** are known as the equilibrium concentrations. Since K_{eq} represents the system at equilibrium, only the equilibrium concentrations can be used in the equilibrium expression (not the initial concentrations).

2. $PCl_5(g) \rightleftharpoons PCl_3(g) + Cl_2(g)$. What is the equilibrium constant if the equilibrium concentrations are as follows: PCl_5 is 0.0096 mol/L, PCl_3 is 0.0247 mol/L and Cl_2 is 0.0247 mol/L? Ans: 0.064

3. At 1000°C, a 1.00 L container has an equilibrium mixture consisting of 0.102 mol of ammonia, 1.03 mol of nitrogen, and 1.62 mol of hydrogen. Calculate the K_{eq} for the equilibrium system. $N_2(g) + 3H_2 \rightleftharpoons 2NH_3(g)$ Ans: 0.00238

4. At a given temperature, the K_{eq} for the reaction $2HI(g) \rightleftharpoons H_2(g) + I_2(g)$ is 1.40×10^{-2} . If the concentration of both H_2 and I_2 at equilibrium are $2.00 \times 10^{-4}M$, find the concentration of HI. Ans: 0.00169M

Genetic Equilibrium Worksheet 16 1

Jicheng Xie



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The Top Books of the Year Genetic Equilibrium Worksheet 16 1 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Genetic Equilibrium Worksheet 16 1 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing 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 spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling 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 engaging stories waiting to be discovered. The novel begins with Richard Papen, 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 brilliant and suspenseful 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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