

Acid-Base Equilibrium

Dissociation of a generic acid can be represented by the following equation:

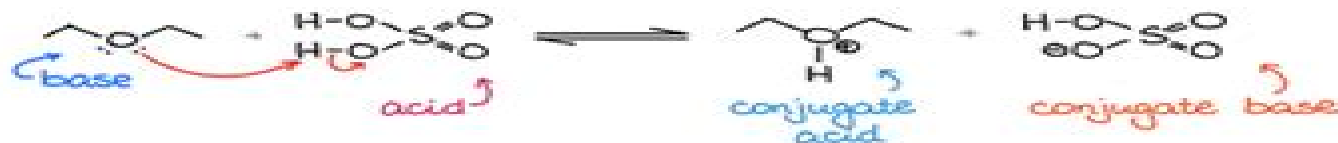


According to the Brønsted-Lowry definition, the acid is a donor of H^+ while the base is an acceptor of H^+ in the solution.

Examples:



IMPORTANT: Once the acid loses the proton, it becomes a conjugate base. Likewise, when the base accepts the proton from the solution, it becomes the conjugate acid.



STRONG ACIDS vs WEAK ACIDS

Strong acids dissociate nearly quantitatively while weak acids dissociate only partially. We describe the extent of this dissociation with the K_a & pK_a values.



K_a of $\text{CH}_3\text{COOH} = 1.8 \times 10^{-5}$ $\Rightarrow$ acetic acid only dissociates partially
 $\Rightarrow$ acetic acid is a weak acid

High K_a = strong acid & Low K_a = weak acid

Raw K_a values are hard to operate $\Rightarrow$ we use pK_a values instead.
By definition, $pK_a = -\log K_a \Rightarrow pK_a$ of $\text{CH}_3\text{COOH} = 4.75$

Low pK_a = strong acid & High pK_a = weak acid

Equilibrium And Acid Base Study Guide

Mike Jess



Equilibrium And Acid Base Study Guide:

The Top Books of the Year Equilibrium And Acid Base Study Guide The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated 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 prevail. Equilibrium And Acid Base Study Guide : 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. Equilibrium And Acid Base Study Guide : Delia Owens "Where the Crawdads Sing" This mesmerizing 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 popular 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 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 masterful 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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