What Is Buffer Solution

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What Is Buffer Solution

A buffer solution is a solution containing both an acid and a base. The solution is made by taking a weak acid and adding its conjugate base (which is formed by removing a proton from the same type of acid) or by combining a weak base with its conjugate acid.

What is Buffer Solution? | Sciencing

Buffer solution. A buffer solution (more precisely, pH buffer or hydrogen ion buffer) is an aqueous solution consisting of a mixture of a weak acid and its conjugate base, or vice versa. Its pH changes very little when a small amount of strong acid or base is added to it. Buffer solutions are used as a means...

Buffer solution - Wikipedia

A buffer is a solution that resists changes in its pH when small amounts of strong acid or base is added to it. Small amount is bolded to stress the fact that if you add too much strong acid or base to your buffer, it's pH will change.

Buffer solution: what is it and how does it work to resist ...

A buffer solution is water mixed with a chemical to give it special properties in regards to pH (acidity). The chemical, known as a buffer agent, resists pH changes when exposed to acids and bases when properly mixed in a solution. This property makes it extremely useful in protecting sensitive equipment,...

What is a Buffer Solution? (with pictures) - wisegeek.com

Definition A buffer solution is one which resists changes in pH when small quantities of an acid or an alkali are added to it. Acidic buffer solutions An acidic buffer solution is simply one which has a pH less than 7. Acidic buffer solutions are commonly made from a weak acid and one of its salts - often a sodium salt.

BUFFER SOLUTIONS - chemquide

Buffer Solutions. A buffer solution is one in which the pH of the solution is "resistant" to small additions of either a strong acid or strong base. Buffers usually consist of a weak acid and its conjugate base, in relatively equal and "large" quantities.

Buffer Solutions - Purdue University

Buffer solutions are solutions which resist change in hydronium ion concentration (and consequent pH) upon addition of small amounts of acid or base, or upon dilution. Buffer solutions consist of a weak acid and its conjugate base. The resistive action is the result of the equilibrium between the weak acid (HA) and its conjugate base (A-):

what is buffer solution? | Yahoo Answers

A buffer is made by mixing a large volume of a weak acid or weak base together with its conjugate. A weak acid and its conjugate base can remain in solution without neutralizing each other. The same is true for a weak base and its conjugate acid.

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