

Buffer Solution Definition

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Buffer Solution Definition

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

Buffer Definition. A buffer is a solution containing either a weak acid and its salt or a weak base and its salt, which is resistant to changes in pH. In other words, a buffer is an aqueous solution of either a weak acid and its conjugate base or a weak base and its conjugate acid. Buffers are used to maintain a stable pH in a solution,...

Buffer Definition in Chemistry and Biology - ThoughtCo

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 - chemguide

Definition of Buffers. A solution which tends to resist changes in pH is called buffer solution. Buffer solutions are the solutions that resist changes in the concentration of hydronium ion and hydroxide ion (and therefore pH) when adding low amounts of acid or base, or when diluting the solution.

Buffer Solution : Definition Examples & Applications ...

: a solution that usually contains on the one hand either a weak acid (as carbonic acid) together with one of the salts of this acid or with at least one acid salt of a weak acid or on the other hand a weak base (as ammonia) together with one of the salts of the base and that by its resistance to changes in hydrogen-ion concentration on the addition ...

Buffer Solution Medical Definition | Merriam-Webster ...

Definition of BUFFER SOLUTION: A liquid that does not present pH change easily as a result of acid or base additions. Generally created as a weak acid or base with its conjugate salt.

What is BUFFER SOLUTION? definition of BUFFER SOLUTION ...

buffer solution one that resists appreciable change in its hydrogen ion concentration (pH) when acid or alkali is added to it. colloid solution (colloidal solution) imprecise term for colloid (def. 3). hyperbaric solution one having a greater specific gravity than a standard of reference.

Buffer solution | definition of buffer solution by Medical ...

Freebase (3.00 / 1 vote) Rate this definition: Buffer solution. A buffer is an aqueous solution consisting of a mixture of a weak acid and its conjugate base or a weak base and its conjugate acid. Its pH changes very little when a small amount of strong acid or base is added to it and thus it is used to prevent changes in the pH of a solution.

What does buffer solution mean? - Definitions.net

For example, a mixture of acetic acid and sodium acetate acts as a buffer solution with a pH of about 4.75. Alkaline buffers, on the other hand, have a pH above 7 and contain a weak base and one of its salts. For example, a mixture of ammonium chloride and ammonium hydroxide acts as a buffer solution with a pH of about 9.25.

Buffer Solutions: Definition, Types, Preparation, Examples ...

Definition of Buffers (acid-base) A buffer solution can be made by mixing a weak acid with one of its salts OR mixing a weak base with one of its salts. A more technical way of saying this is that a buffer solution consists of a mixture of a weak acid and its conjugate base OR a weak base and its conjugate acid.

Definition of buffers_acid_base - Chemistry Dictionary

Chemistry. any substance or mixture of compounds that, added to a solution, is capable of neutralizing both acids and bases without appreciably changing the original acidity or alkalinity of the solution. Also called buffer solution. a solution containing such a substance. Chemistry. to treat with a buffer.

Buffer | Definition of Buffer at Dictionary.com

Chemistry A substance that prevents change in the acidity of a solution when an acid or base is added to the solution or when the solution is diluted. Buffers are used to make solutions of known pH, especially for instrument calibration purposes. Natural buffers also exist in living organisms, where biochemical reactions are very sensitive to changes in pH.

Buffers | Definition of Buffers at Dictionary.com

Related to buffer: buffer solution. [buf'ər] a substance that, by its presence in solution, increases the amount of acid or alkali necessary to produce a unit change in pH. The bicarbonate buffer system in the blood maintains a balance between bicarbonate and carbon dioxide ions and determines the pH of the blood.

Buffer | definition of buffer by Medical dictionary

'A spectral change was observed upon addition of lipid vesicles to the buffer solution of the sensitizers.' 3 Computing A temporary memory area in which data is stored while it is being processed or transferred, especially one used while streaming video or downloading audio.

buffer | Definition of buffer in English by Oxford ...

PH Buffer synonyms, PH Buffer pronunciation, PH Buffer translation, English dictionary definition of PH Buffer. A solution which can maintain an almost constant pH value when dilute acids or alkalis are added to it.

PH Buffer - definition of PH Buffer by The Free Dictionary

Medical Definition of buffer (Entry 1 of 2) 1 : a substance or mixture of substances (as bicarbonates and some proteins in biological fluids) that in solution tends to stabilize the hydrogen-ion concentration by neutralizing within limits both acids and bases

Buffer | Definition of Buffer by Merriam-Webster

2005) incubated hay or wheat grain using different ratios of rumen fluid/ buffer solution and reported reduction in final pH of in vitro incubation related to the decreased amount of buffer solution, differently from the findings of this study.

Buffer solution legal definition of buffer solution

Definition of Buffer Solutions? What is the definition of a buffer solution and what two species must be present for a buffer to work? What's the definition of buffer system is it the same as buffer solution definition?

what is the definition for buffer solutions or buffers ...

Buffer systems play important roles in nature and in laboratory settings. In nature, they offer protection to living organisms, while in labs they're used to create an environment with a stable pH. By definition, a buffer system is a solution that...

What is the definition of buffer in biology? - Quora

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.

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