

Free epub What is a basic solution in chemistry (2023)

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6 6 acidic and basic salt solutions chemistry libretexts

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predict whether a salt solution will be acidic basic or neutral calculate the concentrations of the various species in a salt solution describe the process that causes solutions of certain metal ions to be acidic

worked example balancing a redox equation in basic solution

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when balancing equations for redox reactions occurring in basic solution it is often necessary to add OH^- ions or the $\text{OH}^-/\text{H}_2\text{O}$ pair to fully balance the equation in this video we'll walk through this process for the reaction between ClO^- and $\text{Cr}(\text{OH})_4^-$ in basic solution

basic solution acid and base chemistry definitions thoughtco

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a basic solution is an aqueous solution containing more OH^- ions than H^+ ions in other words it is an aqueous solution with a pH greater than 7 basic solutions contain ions conduct electricity turn red litmus paper blue and feel slippery to the touch

balancing redox reactions in basic solution chemteam

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example 11 balance the equation for the reaction of stannous ion with pertechnetate in basic solution products are stannic ion Sn^{4+} and technetium Tc^{4+} ions solution 1 net ionic $\text{TcO}_4^- + \text{Sn}^{2+} + 4\text{OH}^- \rightarrow \text{Sn}^{4+} + 2\text{H}_2\text{O} + \text{TcO}_4^-$ half reactions $\text{TcO}_4^- + 4\text{H}^+ + 3\text{e}^- \rightarrow \text{Tc}^{4+} + 2\text{H}_2\text{O}$ balance in acidic $3\text{e}^- + 8\text{H}^+ + \text{TcO}_4^- \rightarrow \text{Tc}^{4+} + 4\text{H}_2\text{O}$

acid base properties of salts video khan academy

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we can determine whether a salt solution will be acidic basic or neutral by considering the reactivity of both the cation and the anion with water if neither species reacts with water the solution will be neutral

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the higher the pH value the more basic the solution and the lower the concentration of H^+ while we could also describe the acidity or basicity of a solution in terms of pOH it is a little more common to use pH

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depending on the acid base properties of its component ions however a salt can dissolve in water to

produce a neutral solution a basic solution or an acidic solution when a salt such as nacl dissolves in water it produces na aq and cl aq ions

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basic solutions are made by dissolving the base the solute in a liquid solvent basic solutions are characterized by ph values higher than 7 and can conduct electricity

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solutions can involve all physical states gases dissolved in gases the air around us solids dissolved in solids metal alloys and liquids dissolved in solids amalgams liquid mercury dissolved in another metal such as silver tin or copper

basic solution linear programming wikipedia

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in linear programming a discipline within applied mathematics a basic solution is any solution of a linear programming problem satisfying certain specified technical conditions for a polyhedron and a vector is a basic solution if all the equality constraints defining are active at

acids bases the ph scale science buddies

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ph log h the square brackets around the h automatically mean concentration to a chemist what the equation means is just what we said before for each 1 unit change in ph the hydrogen ion concentration changes ten fold pure water has a neutral ph of 7 ph values lower than 7 are acidic and ph values higher than 7 are alkaline basic

ph scale acids bases ph and buffers article khan academy

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solutions are classified as acidic or basic based on their hydrogen ion concentration relative to pure water acidic solutions have a higher h concentration than water greater than 1×10^{-7} m while basic alkaline solutions have a lower h concentration less than 1×10^{-7} m

solution definition examples britannica

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solution in chemistry a homogenous mixture of two or more substances in relative amounts that can be varied continuously up to what is called the limit of solubility the term solution is commonly applied to the liquid state of matter but solutions of gases and solids are possible

6 5 dissociation of water chemistry libretexts

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a basic solution has a base dissolved in water when a base dissolves in water it dissociates adding

more oh the h_3o must decrease to keep the k_w constant a solution that has h_3o less than 10^{-7} and oh more than 10^{-7} is a basic solution

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a solution consists of a solute and a solvent the solute is the substance that is dissolved in the solvent the amount of solute that can be dissolved in solvent is called its solubility for example in a saline solution salt is the solute dissolved in water as the solvent

standard solution definition preparation examples

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the standard solution definition is a solution that has a precisely known concentration of an element or compound a standard solution in chemistry is one that has a known

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hand wash the laces remove the shoelaces and apply a small amount of the mild cleaning solution to them massage the laces with your hands rinse then dab dry with a soft cloth related 4 wash the soles apply the mild cleaning solution to a soft bristled brush toothbrush or washcloth

intro to acids and bases video khan academy

Nov 24 2022

about transcript acids and bases can be described using the arrhenius model acids produce h^+ ions in aqueous solutions while bases produce oh^- ions we can identify acidic and basic solutions using their distinct and often contrasting properties some of which you are likely familiar with

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