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there are three basic ways you will need to know that are used to describe aqueous chemical reactions these are typically single and double displacement reactions the difference between these lies in how you describe the ions of dissolved ionic compounds

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aqueous solutions can be classified as polar or nonpolar depending on how well they conduct electricity most chemical reactions are carried out in solutions which are homogeneous mixtures of two or more substances

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in the sections that follow we discuss three of the most important kinds of reactions that occur in aqueous solutions precipitation reactions also known as exchange reactions acid base reactions and oxidation reduction reactions

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learn about reactions in aqueous solutions including how to write a net ionic equation and learn about solubility rules

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the arrhenius theory svante augustus arrhenius first presented this theory of acids and bases in 1884 acids are substances that contain hydrogen and produces H^+ in aqueous solutions bases are substances that contain the hydroxyl OH^- group and produce hydroxide ions OH^- in aqueous solutions

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reactions in aqueous solution james f kirby quinnipiac university hamden ct solutions are defined as homogeneous mixtures of two or more pure substances the solvent is present in greatest abundance all other substances are solutes t the solution i aqueous solution aqueous solutions substances can dissolve in water by different ways

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the three most common types of aqueous reactions are precipitation acid base and oxidation reduction reactions in aqueous solutions a precipitation reaction involves the exchange of ions between ionic compounds in aqueous solution to form an insoluble salt or a precipitate

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chapter 4 aqueous reactions and solution stoichiometry solutions homogeneous mixtures of two or more pure substances the solvent is usually present in greatest abundance or the solvent is the liquid when a solid is dissolved all other substances are solutes dissociation ionic compound dissolves in water individual ions are

separated

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many chemical reactions occur in aqueous solutions these reactions fall into 3 main categories precipitation acid base and oxidation reduction in a typical precipitation reaction dissolved cations and anions come together to form an insoluble ionic compound that precipitates from the solution

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chapter 4 reactions in aqueous solutions 4 1 general properties of aqueous solutions solution a homogeneous mixture solute the component that is dissolved solvent the component that does the dissolving generally the component present in the greatest quantity is considered to be the solvent

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when water is the solvent for a reaction the reaction is said to occur in aqueous solution which is denoted by the abbreviation aq following the name of a chemical species in a reaction three important types of reactions in water are precipitation acid base and oxidation reduction reactions

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since ionic compounds and polar covalent compounds constitute the main classes which are appreciably soluble in water reactions in aqueous solutions usually involve these types of substances there are three important classes of reactions which occur in aqueous solution precipitation reactions acid base reactions and redox reactions

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in fact many of the reactions that take place throughout your body from your organs down to individual cells are aqueous reactions understanding the most common aqueous reactions and how to correctly write them is one of the most important skills you should master in chemistry 1a

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precipitation reactions are double displacement reactions that result in the formation of an insoluble compound for example when aqueous solutions of lead nitrate and potassium sulfate are

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solutions a solution is a homogenous mixture of 2 or more substances the solute is are the substance s present in the smaller amount s the solvent is the substance present in the larger amount aqueous solutions of kmno_4 ken karp mcgraw hill electrolytes 1

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understand how an aqueous solution differs from a liquid and see examples of aqueous solution reactions

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4 1 general properties of aqueous solutions key definitions electrolyte substance that when dissolved in water results in a solution that can conduct electricity non electrolyte substance that when dissolved in water results in a solution that does not conduct electricity figure 4 1 p 98

chapter summary reactions in aqueous solution siyavula Feb 03 2023

there are three main types of reactions that occur in aqueous solutions these are precipitation reactions acid base reactions and redox reactions precipitation and acid base reactions are sometimes known as ion exchange reactions ion exchange reactions also include gas forming reactions

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aqueous solutions can be classified as polar or nonpolar depending on how well they conduct electricity most chemical reactions are carried out in solutions which are homogeneous mixtures of two or more substances

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