Flim ChemTopic" Labs: Chemical Reactions



Double Replacement Reactions and Solubility

Net Ionic Equations

Introduction

Precipitation reactions, a type of coulde replacement reaction, are widely used to prepare new compounds and analyse their parity. Precipitation reactions octar when accesses solutions of tools compounds are combined and a new tools compound that is insoluble in water is precipitate. The result is the formation of a precipitate, a solid that seales out of the solution. By carrying out a series of provide dualite replacement reactions and observing which constitutions precipitates, we should be able to determine some general rules of solubility for tools constrained in water.

Concepts

Double replacement reactions

Molecular eculations

Net toeste enhantleren.

· Soliability rules

Background

Death's replacement reservings security when two lands consposants for consposants that break again to formations in accurrant solution descharge to us forme new consposants. Death's replacement resistions generally occur in one direction only in response to a "driving force," which provides a reason for the reaction to occur. Two important criticity forces for reactions between into its material solution are formation of a solid tyrecipitation resistions in according to a solid tyrecipitation resistions in according to the absence of a driving force, tonic corresposates will remain classified in arbitrary, and on observing force, tonic corresposates will remain classified in arbitrary, and on observing transfer

When an ionic conspound dissolves in water, the crystalline solid dissordians or separates into its corresponding cations and mitrate anions. For example, elser nitrate dissociates into eller cations and nitrate anions. (Equation 1).

Elganothers, 7.

Where solutions containing two ionic compounds are noised, two new conditionations of cattern and arisons are growthly. In some cases, the cattern from one conspound and the arison from the other compound may condition to form an insoluble product, a precipitate for example, when we turn be provided to a solution of all or nigrate, there are four

different tons present, and two new conditions of cations and antone—solution in the second state of cations and solution retrace is soluble to water, and its ions remain dissolved in adultion. Solver branche is insulable to water, and precipitates from solution as a wikil (Equation 2).

Equation 2 summarises the double replacement reaction between alternational and solitans broaded. It is called a confinite operation because the reactants and products are represented by their nucleoular formulas. The actual relation process can be better understood if we rewrite the equation to represent the tense correposation as they exist in solution, that is, in the form of their situation is not a formula.

The consider invices positive for the double replacement reaction of ellowniquese and excluses bronning is shown in Education 3. Because ellow bronoids is not soluble, it is best represented by its formula. AgBr.

$$Ag(ac) + NO_s(ac) + Nc(ac) + Re(ac) \rightarrow$$

 $AgRe(a) + Nc(ac) + NO_s(ac)$ Pararrier 3

Notice that some inters (Na. and NO₃) appear on both sides of the equation in Equation 3. These ions are referred to as speciate four because they do not participate in the overall reaction. Just a vin algebra, where a term that appears on both sides of an equation may be "concelled out," we can do the same thing with the complete ionic equation shown in Figure 3. Subtracting the spectator involves lash sides gives the set look equation for the precipitation reaction of allow browning them.

$$Ag(tax) + Br(tax) \rightarrow AgBr(s)$$

Physical Green 46.

Double replacement resistions may be used an determine some general salation relation materials refer for items correspond to water. If a precipitation relation octains others solutions of items correspond as even or and them as least one of the two possible precipitation formed by the "time exchange" relation made, be involuble in season. In this experiment, various tonic solutions will be retired used uses a since to determine which considered will forme precipitates. Knowing the tone that are present will make it possible to precipitate a distinct of different tonic approaches.

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Russo Steve Silver Michael, Steve Russo

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