

Across key

- 2. **parasitism** = a relationship between 2 species in which 1 species, the parasite benefits other species the host, which is harmed
- 4. **density** = the number of individuals ...

Down key

- 1. **carrying capacity** = largest population than an environment can support at any given time
- 3. **commensalism** = a relationship between two organisms in which one organism benefit and the other is unaffected
- 5. **predation** = an interaction between ...

Holt Environmental Science Understanding Populations

Concept Review Answers

Terry C. Jones



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web in today's experiment you will determine the solubility product ksp of calcium hydroxide Ca(OH)_2 by measuring the concentration of Ca(OH)_2 in a saturated solution calcium hydroxide is a sparingly soluble salt that dissolves according to the following reaction the solubility product expression for this reaction is

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web expert verified chem 182 determining the ksp of calcium hydroxide calcium hydroxide is an ionic solid that is sparingly soluble in water a saturated aqueous solution of Ca(OH)_2 is represented in equation form as shown below $\text{Ca(OH)}_2(\text{s}) \rightleftharpoons \text{Ca}^{2+}(\text{aq}) + 2\text{OH}^{-}(\text{aq})$ the solubility product expression describes in mathematical terms the equilibrium

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web ksp for calcium hydroxide calcium hydroxide is a soft white caustic powder used in making mortar cements calcium salts paints and petrochemicals it is also used in saltwater aquaria to make up kalkwasser limewater solutions for reef tanks and is used as a pH regulating agent notice that calcium hydroxide is divalent and thus has twice

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web use the concentration of calcium hydroxide to calculate the concentration of calcium ions and hydroxide ions in the solution $\text{Ca(OH)}_2 \rightarrow \text{Ca}^{2+} + 2\text{OH}^{-}$ $5 \times 10^{-2} \text{ M}$ calcium ions $5 \times 10^{-2} \text{ M}$ 0 M hydroxide ions calculate calcium hydroxide ksp using the concentrations of calcium ions and hydroxide ions

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oh 2 m ca in saturated ca oh 2 m ksp of ca oh 2 average ksp of ca oh 2

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web the chemical equation used was $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$ the solubility product was determined to be $K_{sp} \text{Ca(OH)}_2$ from the titration which was made by dripping a concentrated solution of calcium hydroxide into hydrochloric acid the calcium hydroxide was filtered before starting the titration

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web jul 12 2023 because the concentration of a pure solid such as $\text{Ca}_3(\text{PO}_4)_2$ is a constant it does not appear explicitly in the equilibrium constant expression the equilibrium constant expression for the dissolution of calcium phosphate is therefore $K_{sp} \text{Ca}_3(\text{PO}_4)_2$

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web therefore it was determined through error calculations and ease of use that the most reliable valid method to use to get the closest ksp value to the theoretical ksp for ca was the determination through ph method 2 introduction calcium hydroxide is a strong base soluble in water

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web we will filter the solid calcium hydroxide from the solution and then titrate the dissolved calcium hydroxide in solution with a known concentration of hydrochloric acid using titrimetric calculations we will determine the Ca^{2+} and OH^- concentrations in solution

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web calculate the ksp for calcium hydroxide Ca^{2+} OH^- 2.0 $\times 10^{-2}$ ksp 5×10^{-4} find the accepted value of the ksp for calcium hydroxide and compare it with your value discuss the discrepancy and suggest possible sources of experimental error accepted value for ksp for sodium hydroxide is 5×10^{-6}

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lanthanides tend to react with oxygen to form oxides the reaction at room temperature can be slow while heat can cause the reaction to

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web the fifteen elements shown in table pageindex 1 from lanthanum La 4f 0 to lutetium Lu 4f 14 are lanthanoids Ln may be used as a general symbol for the lanthanoid elements although lanthanoids scandium Sc and yttrium Y are sometimes called rare earth elements they are relatively abundant in the earth s crust

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