



education

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GRADE 11

**PHYSICAL SCIENCES
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QUESTION PAPER (1)**

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Grade 1

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web we will make some simplifying assumptions for this new planetary system the orbit of the planet is circular $e = 0$ the mass of the star is 1 solar mass the mass of the planet is much much less that of the star we are viewing the system nearly edge on

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web oct 8 2019 51 pegasi b also called dimidium was the first exoplanet discovered orbiting a sun like star in 1995 in 2019 its discoverers michel mayor and didier Queloz shared the nobel prize in physics here the astronomers talk about the discovery of 51 peg b

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web lab manual the discovery of exoplanet 51 pegasi b astr 1010 solar system astronomy fall 2020 shift slightly to the red then to the blue because you know where the line ought to be 656nm you can determine the radial velocity and the bigger the doppler shift the more massive the planet is

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web assumption the mass of the star 51 pegasi is the same as the sun hint compare its spectral type to the sun s assumption the planet s eccentricity is 0 remember that e 0 is perfectly circular assumption the planetary system is

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web jan 26 2016 the solubility product or ksp is a way of showing how effective a chemical is at dissolving into an aqueous

solution the higher the K_{sp} the more the chemical will dissolve into that solvent for this lab calcium hydroxide is created then ionized $Ca(OH)_2$ when calcium is put in water reacts as follows $Ca + 2H_2O \rightarrow Ca(OH)_2 + H_2$

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web K_{sp} of calcium hydroxide 1 author j m mccormick last update october 13 2013 introduction an equilibrium constant K is related to ΔG for a process through eqn 1 and as long as ΔH and ΔS are independent of temperature eqn 1 can be combined with eqn 2 to determine ΔH and ΔS from the temperature dependence of K

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web your primary objective in this experiment is to test a saturated solution of calcium hydroxide and use your observations and measurements to calculate the K_{sp} of the compound you will do this by titrating the prepared $Ca(OH)_2$ solution with a standard hydrochloric acid solution

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web in today's experiment you will determine the solubility product K_{sp} 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 K_{sp} 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 $Ca(OH)_2(s) \rightleftharpoons Ca^{2+}(aq) + 2OH^{-}(aq)$ the solubility product expression describes in mathematical terms the equilibrium

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web K_{sp} 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 $Ca(OH)_2 \rightarrow Ca^{2+} + 2OH^{-}$ $5 \times 10^{-2} M$ calcium ions $5 \times 10^{-2} M$ $2 \times 10^{-2} M$ hydroxide ions calculate calcium hydroxide K_{sp} using the concentrations of calcium ions and hydroxide ions

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web madison bowe elana keller april 15 2014 introduction the objective of this lab was to measure the ksp of a slightly soluble basic salt and how solubility changes with temperature ksp is another form of equilibrium expression that deals with solubility the reaction that will take place is $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$

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web question experiment 8 determining ksp for calcium hydroxide post lab report sheet data table 2 points trial 1 trial 2 hci molarity 0.050 m volume of filtered Ca(OH)_2 solution ml 5.00 5.00 3.71 13.75 equivalence point volume ml oh in saturated Ca(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 ksp $\text{Ca}^{2+} \text{OH}^-$ 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

18.1 solubility product constant ksp chemistry libretexts - Feb 01 2023

web jul 12 2023 because the concentration of a pure solid such as Ca_3PO_4 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 $\text{Ca}_3\text{PO}_4 \rightleftharpoons 3\text{Ca}^{2+} + \text{PO}_4^{3-}$ ksp Ca_3PO_4

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web lab report 8 determining calcium hydroxide the purpose of this was to titrate a saturated Ca(OH)_2 solution with a standard hcl solution and find the ksp or the oh concentration was found and then the concentration was found and u for this experiment a titration of calcium hydroxide with hydrochloric acid

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web question determining the ksp of calcium hydroxide $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$ for this experiment the titration of calcium hydroxide with hydrochloric acid was investigated determining the ksp of calcium hydroxide $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$ for this experiment the titration of calcium

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web question chem 182 experiment 8 determining the ksp of calcium hydroxide calcium hydroxide is an ionic solid that is sparingly soluble in water solution of Ca(OH)_2 is represented in equation form $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$ an ionic solid that is sparingly soluble in water a saturated aqueous as shown below

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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 calculate the ksp for calcium hydroxide $\text{ksp Ca}^{2+} \text{OH}^{-}$ 2 0 0 2 $\text{ksp} = 5 \times 10^{-6}$ 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}