

Solutions for Gravimetric Analysis Exercises

1. The terms in a reaction quotient are actually dimensionless ratios of actual concentrations (or pressures) divided by standard concentrations (or pressures). The standard state for solutes is a 1 M solution and for gases it is a pressure of 1 bar (~ 1 atm), so these are the units used. For liquids and solids the standard state is the pure substance, so these ratios are unity. The solvent in a dilute solution is approximated as a pure substance.
2. The equilibrium constant for a reaction is dimensionless because it equals the reaction quotient at equilibrium, and, as discussed in Problem 1, this ratio involves only dimensionless terms.

3. a) Adding the two equations together gives



- b) At equilibrium $K_3 = [\text{AgCl}(\text{aq})]$, so $[\text{AgCl}(\text{aq})] = 3.6 \times 10^{-7}$ M.

4. Determine the solubility of $\text{La}(\text{IO}_3)_3$ using K_{sp} for $\text{La}(\text{IO}_3)_3$ and a table of initial and equilibrium concentration terms.



where x equals the increase in the $[\text{La}^{3+}]$ as a result of the dissolving process.

$$\text{at equil, } K_{sp} = 1.0 \times 10^{-11} = [\text{La}^{3+}][\text{IO}_3^-]^3 = (x)(0.050 + 3x)^3 = (x)(0.050)^3$$

\downarrow
 assumes $3x \ll 0.050$

$$[\text{La}^{3+}] = \frac{1.0 \times 10^{-11}}{(0.050)^3} = 8.0 \times 10^{-9} \text{ M} \quad (\text{assumption valid})$$

Solutions For Gravimetric Analysis Exercises

Hussin A.Rothana



Solutions For Gravimetric Analysis Exercises:

The Top Books of the Year Solutions For Gravimetric Analysis Exercises The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. Solutions For Gravimetric Analysis Exercises : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Solutions For Gravimetric Analysis Exercises : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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