17A. A Solubility Product Constant

Introduction

The interaction of a slightly soluble ionic compound with its dissolved ions leads to another type of equilibrium (Ebbing/Gammon, Chapter 17). The equilibrium constant for this kind of equilibrium has a special name. It is called the *solubility product constant*.

Purpose

In this experiment, you will determine the solubility of Ca(IO₂)₂ (calcium iodate) and calculate its solubility product constant. You will also demonstrate that the solubility of Ca(IO₂)₂ is independent of the amount of water that is used to obtain a saturated solution of this substance.

Concept of the Experiment

If the solubility of a slightly soluble ionic compound is measured, the solubility product constant for the substance can be calculated (Ebbing/Gammon, Example 17.3). This is the method that you will adopt for $Ca(IO_3)_2$ in this experiment. The equilibrium between solid $Ca(IO_3)_2$ and its ions in a saturated solution is

$$Ca(IO_3)_2(s) \implies Ca^{2*}(aq) + 2IO_3^{-}(aq)$$

If some analytical technique is used to determine the concentration of either $Ca^{2^{n}}$ ions or $IO_{3^{n}}$ ions in the saturated solution, the solubility of $Ca(IO_{3})_{2}$ will be known, and the solubility product constant (K_{ap}) can be calculated.

In this experiment, you will determine the concentration of IO₃ ions through a titration with a standardized solution of Na₂S₂O₃ (sodium thiosulfate) in the presence of KI (potassium iodide), using starch as an indicator. A definition of standardization can be found in the experiment "An Acid-Base Titration Curve." Potassium iodide will react with the iodate ions to give I₂ as the sole product containing iodine. The reaction is

$$10_3^{-}(aq) + 5\Gamma(aq) + 6H_3O'(aq) \rightarrow 3I_2(aq) + 9H_2O(1)$$

The molecular iodine reacts with S2O32 ions during the titration according to

$$I_2(aq) + 2S_2O_3^{2-}(aq) \rightarrow 2\Gamma(aq) + S_4O_4^{2-}(aq)$$

where S₄O₆²⁻ is the tetrathionate ion. When these two equations are combined, multiplying the second reaction by 3 so the intermediate I₂ is eliminated, the net reaction occurring in the titration is obtained.

$$IO_3^-(aq) + 5\Gamma(aq) + 6H_3O^+(aq) \rightarrow 3I_2(aq) + 9H_2O(I)$$

 $3I_2(aq) + 6S_2O_3^{2-}(aq) \rightarrow 6\Gamma^-(aq) + 3S_4O_6^{2-}(aq)$
 $IO_3^-(aq) + 6S_2O_3^{2-}(aq) + 6H_3O^+(aq) \rightarrow \Gamma^-(aq) + 3S_4O_6^{2-}(aq) + 9H_2O(I)$

Starch is used as an indicator in this titration because it reacts with l₂ reversibly to form a dark blue color. I₂ is consumed in the titration, so the color fades as the titration progresses. You will know when a stoichiometric volume of the Na₂S₂O₃ solution has been added because at that point, one drop of that solution will cause the disappearance of the last trace of the blue color. A trial titration will enable you to find the approximate volume that is required before you do the first of two exact titrations.

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Lei Huang

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