Answer on Question #63429, Chemistry / General Chemistry

Chapter 15 (15.92)

Consider the reaction IO_4 -(aq)+2H₂O(I) \rightleftharpoons H₄IO₆-(aq);Kc=3.5×10⁻². If you start with 23.0 mL of a 0.903 M solution of NaIO₄, and then dilute it with water to 500.0 mL, what is the concentration of H₄IO₆-at equilibrium? Express your answer to two significant figures and include the appropriate units.

Solution:

Answer: 0.0014