

Determining Concentration by Precipitation Lab #21

Using your knowledge of solution chemistry and stoichiometry, the concentration of a solution can be obtained by reacting it with a known solution and obtaining a precipitate.

Materials:

0.50 M KI solution Pb(NO₃)₂ solution of unknown concentration 250 mL beaker Other materials to be determined by the student

Procedure:

Obtain 50 mL of KI solution and 50 mL of Pb(NO₃)₂. Pour them into the 250 mL beaker. The remainder of the lab procedure is to be determined by the student.

Calculations:

Determine the mass of solid product formed.

Calculate the molarity of Pb(NO₃)₂ solution.