

Advance Study Assignment: Determination of Iron by Reaction with Permanganate—A Redox Titration

1. Write the balanced net ionic equation for the reaction between MnO_4^- ion and Fe^{2+} ion in acid solution.



2. How many moles of Fe^{2+} ion can be oxidized by 1.2×10^{-2} moles MnO_4^- ion in the reaction in Question 1?

_____ moles

3. A solid sample containing some Fe^{2+} ion weighs 1.750 g. It requires 36.44 mL 0.0244 M KMnO_4 to titrate the Fe^{2+} in the dissolved sample to a pink end point.

- a. How many moles MnO_4^- ion are required?

_____ moles

- b. How many moles Fe^{2+} are there in the sample?

_____ moles

- c. How many grams of iron are there in the sample?

_____ g

- d. What is the percent Fe in the sample?

_____ %

4. What is the percent Fe in iron(II) ammonium sulfate hexahydrate, $\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6 \text{H}_2\text{O}$?

_____ %

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