

Experiment 30 Advance Study Assignment: Determination of Iron by Reaction with Permanganate—A Redox Titration

Name _____

Section _____

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



2. How many moles of Fe^{2+} ion can be oxidized by 1.4×10^{-2} moles MnO_4^- ion in the reaction in Question 1?

1 mole of MnO_4^- reacts with 5 moles of Fe^{+2}
 then 1.4×10^{-2} moles of MnO_4^- reacts with x moles Fe^{+2}

$$x = \frac{1.4 \times 10^{-2} \text{ moles} \times 5 \text{ moles}}{1 \text{ mole}} = 7 \times 10^{-2} \text{ moles Fe}^{+2}$$

$$7 \times 10^{-2} \text{ moles Fe}^{+2}$$

3. A solid sample containing some Fe^{2+} ion had a total mass of 0.9791 g. It required 18.2 mL, 0.02034 M KMnO_4 to titrate the Fe^{2+} in the dissolved sample to a pink end point.

MnO_4^- molarity (M) = 0.02034 M
 volume of KMnO_4^- (V) = 18.2 ml

- a. How many moles of MnO_4^- ion were required? = 18.2×10^{-3} Liters.

moles of MnO_4^- ion required = M x V
 = $0.02034 \frac{\text{moles}}{\text{L}} \times 18.2 \times 10^{-3} \text{ Lit}$

$$= 0.3701 \times 10^{-3} \text{ moles}$$

- b. How many moles of Fe^{2+} were present in the sample?

mass of Fe^{+2} ions = 0.9791 g.

molecular weight of Fe^{+2} = 55.8 g/mol.

moles of $\text{Fe}^{+2} = \frac{\text{mass}}{\text{molecular weight}} = \frac{0.9791 \text{ g}}{55.8 \text{ g/mol}}$

moles of $\text{Fe}^{+2} = 0.01754 \text{ moles}$

$$0.01754 \text{ moles}$$

Advance Study Assignment Experiment 30 Answers

Michael Brown



Advance Study Assignment Experiment 30 Answers:

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