

## EXPERIMENT 7: REDOX TITRATION

### PURPOSE

The purpose of this experiment is to standardize the potassium permanganate solution by titration method.

### INTRODUCTION

Oxidation-reduction processes electrons transfer one species to another. Potassium permanganate has been widely used as an oxidizing agent and requires no indicator unless very dilute solutions are used. The oxidizing action of  $\text{KMnO}_4$  in the acidic medium can be represented by the following equation:



Solution containing  $\text{MnO}_4^-$  ions are purple in colour and the solution containing  $\text{Mn}^{2+}$  ions colourless and hence permanganate solution is decolourised when added to a solution of a reducing agent.

### CHEMICALS AND APPARATUS

Potassium permanganate solution	Burette
Dried sodium oxalate	Conical flask
1M sulphuric acid	Hot plate
	Pipette
	Thermometer

### PROCEDURE

1. The burette was rinsed and filled with potassium permanganate solution. the air bubble was removed from the nozzle of the burette by draining some of the solutions..
2. 0.3 g to 0.4 g of dried sodium oxalate was weighed accurately. The mass of sodium oxalate was noted and transferred to conical flask.
3. 40 ml of 1.0 M sulphuric acid was added to the conical flask and carefully heated to  $60^\circ\text{C}$ .

# Redox Titration Experiment Report Guidelines 2010

**Tao Wei**



## **Redox Titration Experiment Report Guidelines 2010:**

This book delves into Redox Titration Experiment Report Guidelines 2010. Redox Titration Experiment Report Guidelines 2010 is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Redox Titration Experiment Report Guidelines 2010, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Redox Titration Experiment Report Guidelines 2010
    - Chapter 2: Essential Elements of Redox Titration Experiment Report Guidelines 2010
    - Chapter 3: Redox Titration Experiment Report Guidelines 2010 in Everyday Life
    - Chapter 4: Redox Titration Experiment Report Guidelines 2010 in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, the author will delve into the foundational concepts of Redox Titration Experiment Report Guidelines 2010. The second chapter will elucidate the essential principles that must be understood to grasp Redox Titration Experiment Report Guidelines 2010 in its entirety.
  4. In chapter 3, the author will examine the practical applications of Redox Titration Experiment Report Guidelines 2010 in daily life. The third chapter will showcase real-world examples of how Redox Titration Experiment Report Guidelines 2010 can be effectively utilized in everyday scenarios.
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  6. In chapter 5, the author will draw a conclusion about Redox Titration Experiment Report Guidelines 2010. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Redox Titration Experiment Report Guidelines 2010.

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