

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 KMnO_4 in the acidic medium can be represented by the following equation:



Solution containing MnO_4^- ions are purple in colour and the solution containing 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 solution.
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°C.

Redox Titration Experiment Report Guidelines

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