EXPERIMENT 1.1

Flame tests of metal cations STUDENT LABORATORY NOTES

Introduction

When vaporised in the flame of a Bunsen burner, some metallic elements produce a characteristic colour. The flame colour is the result of electrons moving from a higher energy level or electron shell to their normal shell.

Everyday applications of flame colours can be seen in 'neon' advertising signs (neon itself is red), and the mercury vapour and sodium vapour lamps used in street lighting.

Students will complete flame tests for different metal cations (as metal chlorides), and then identify

an unknown metal ion (chosen from those metals examined, or another metal that was not used).

Airm:

To observe the characteristic flame colours of the metal ions K*, Na*, Li*, Sr^{2*}, Cu^{2*}, Ca^{2*}, Ba^{2*}, and to identify an unknown metal ion

Hypothesis

Preparation for task

Location to conduct this task

In the laboratory

Duration 30 minutes

Group size

Two or three students

Methodology

Materials (per group)

- 9 watch glasses
- 8 nichrome or platinum wires, each attached to a holder (the wires must be clean)
- · Bunsen burner

Flame Tests For Metals Lab Report

AN Whitehead

Flame Tests For Metals Lab Report:

Practical Chemistry Labs Leonard Saland,1989 Features self contained step by step activities using common materials and covering topics from food chemistry to papermaking and electrochemistry Illustrates the connection between the real world and chemistry concepts such as solutions chemistry acids and bases and more Includes teacher notes quizzes and answers to help monitor student progress Symposium on Fire Test Methods ,1963 Scientific and Technical Aerospace Reports ,1995-05 English in Analytical Chemistry. Communicating about Methods & Techniques. Книга для студента Надежда Зорина,Александра Соболева,2022-10-19 Side Impact Padding Integration Study. Final Report Michael W. Monk,1981 Energy Research Abstracts ,1993 Accessions of Unlimited Distribution Reports ,1973-05-18

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