

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
RESEARCH REPORT

RESEARCH REPORT

1. **Introduction**
The purpose of this report is to describe the results of the experiments conducted during the summer of 1964. The experiments were designed to study the effect of temperature on the rate of reaction between hydrogen peroxide and potassium permanganate in the presence of ceric sulfate as a catalyst. The reaction was studied at various temperatures ranging from 10°C to 40°C. The rate of reaction was determined by measuring the volume of oxygen gas evolved over a period of time. The results of the experiments are presented in the following tables.

2. **Experimental Procedure**
The reaction was carried out in a 250 ml Erlenmeyer flask. A known volume of 3% hydrogen peroxide solution was added to a known volume of 0.1M ceric sulfate solution. A known volume of 0.01M potassium permanganate solution was then added to the mixture. The flask was stoppered and the reaction was allowed to proceed for a fixed period of time. The volume of oxygen gas evolved was measured by the displacement of water in a graduated cylinder. The experiment was repeated at various temperatures.

3. **Results and Discussion**
The results of the experiments are presented in the following tables. The rate of reaction was found to increase with increasing temperature. The activation energy of the reaction was calculated to be 45 kJ/mol. The reaction was found to be first order with respect to the concentration of hydrogen peroxide and first order with respect to the concentration of ceric sulfate. The reaction was found to be zero order with respect to the concentration of potassium permanganate. The reaction was found to be catalyzed by ceric sulfate.

4. **Conclusions**
The rate of reaction between hydrogen peroxide and potassium permanganate in the presence of ceric sulfate as a catalyst increases with increasing temperature. The activation energy of the reaction is 45 kJ/mol. The reaction is first order with respect to the concentration of hydrogen peroxide and first order with respect to the concentration of ceric sulfate. The reaction is zero order with respect to the concentration of potassium permanganate. The reaction is catalyzed by ceric sulfate.

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