

LABORATORY

THE EFFECT OF TEMPERATURE ON THE RATE OF A CHEMICAL REACTION

AIM: To determine the effect of temperature on the rate of a chemical reaction.



PROCEDURE

1. Prepare a solution of sodium thiosulfate in a conical flask.
2. Prepare a solution of hydrochloric acid in a separate conical flask.
3. Measure a fixed volume of the sodium thiosulfate solution into a conical flask.
4. Measure a fixed volume of the hydrochloric acid solution into a conical flask.
5. Place the flask containing the hydrochloric acid solution in a water bath.

RESULTS AND CONCLUSIONS

As the temperature of the reaction mixture increases, the rate of reaction increases.