

Iodine Clock Reaction

Research question

How does the concentration of sodium bisulfite affect the rate of reaction between acidified potassium iodate solution and sodium bisulfite solution?

Objective

To investigate the effect of the concentration of sodium bisulfite on its rate of reaction with acidified potassium iodate solution, measured by the time it takes for the appearance of blue-black colour in the reaction mixture.

Balanced chemical equation with state symbols



Materials (with uncertainty)

1. Potassium iodate solution (solution A)
2. Sodium bisulfite solution (solution B)
3. Starch solution (solution C)
4. Distilled water
5. 3ml Plastic graduated pipette (± 0.25 ml)
6. Stopwatch (± 0.01 s)
7. Reaction beaker
8. White paper

Volumes of solutions used in the experiment

Experiment	Distilled water (± 0.25 ml)	Solution A/ Potassium iodate solution (± 0.25 ml)	Solution C/ Starch solution (± 0.25 ml)	Solution B/Sodium bisulfite solution (± 0.25 ml)
1	3	1.0	0.5	0.5
2	2.5	1.0	0.5	1
3	2	1.0	0.5	1.5
4	1.5	1.0	0.5	2

Iodine Clock Experiment Lab Report

David Kirk



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