

Angelina Sherba

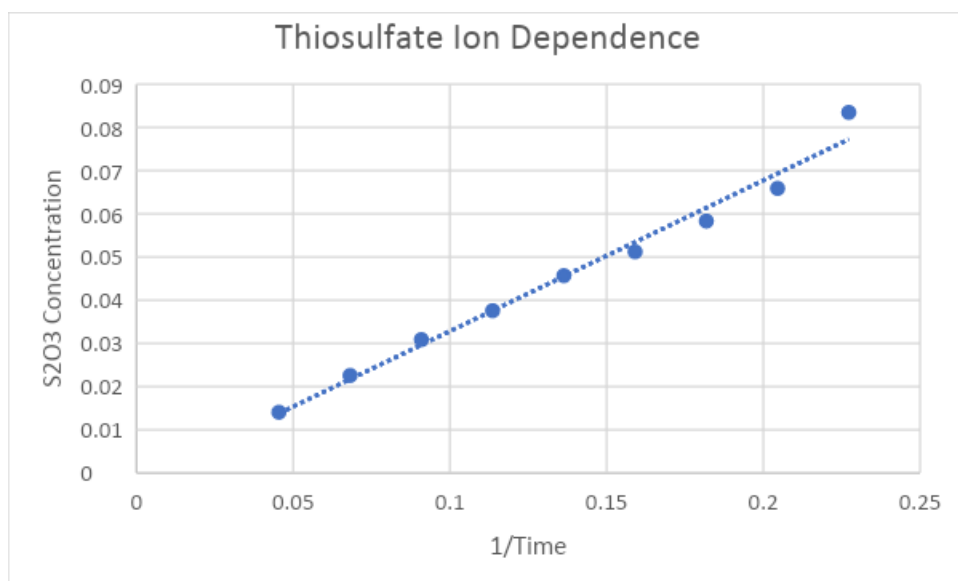
Part 1 Report Sheet

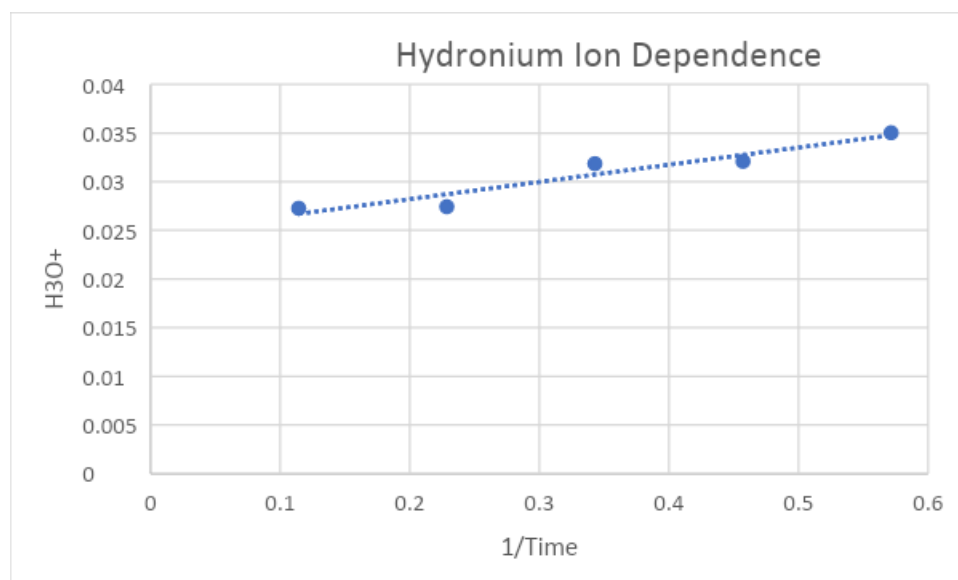
Thiosulfate Ion Concentration Dependence

First fifty milliliters of thiosulfate solution were measured and put into a beaker. The beaker was placed over a note card with a black "X" on it. Then five milliliters of HCL solution were measured and added to the beaker and a timer was started at the same time. The solution was timed until the exact moment the "X" was no longer able to be seen and time was recorded. This was repeated four more times except next trials ten milliliters of water was added to the thiosulfate increasing by ten every time. Also the volume of the thiosulfate was decreased by ten milliliters each time.

Hydronium Ion Concentration Dependence

Twenty milliliters of thiosulfate solution and thirty milliliters of water were added to a beaker and placed on the black "X". Twenty milliliters of HCL solution was then added and timing began immediately. Timing was stopped when the "X" was fully disappeared. This was repeated four times but the volume of HCL was decreased by four milliliters and the volume of water was increased by four milliliters each time.





$$\text{Rate} = k[\text{S}_2\text{O}_3^{2-}]$$