

DETERMINATION THE REACTION ORDER FOR FAST FORMATION OF CuS_2O_3

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Abstract: The kinetics of the redox reaction between copper ions and thiosulfate ions, respectively the formation of the intermediate complex, CuS_2O_3 , are investigated. The reaction order, with respect to the intermediate complex depends upon the concentrations of the reactants. The kinetics of fading away of the color of this complex has been traced spectrophotometrically with a stopped-flow apparatus. The experimental reaction order is consistent with the concentration of the reactants.

Keywords: Preequilibrium Kinetics, Fast Redox Reaction, Intermediate Complex CuS_2O_3 .

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