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Kinetic and mechanistic studies in the oxidation of Isoamyl alcohol by p-Methoxy-N-Bromobenzamide

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ABSTRACT

Kinetics Studies of The oxidation of Isoamyl alcohol by p-methoxy-N-bromobenzamide has been made in aqueous acetic acid in the presence of mercuric acetate. The reaction is first order with respect to both, the oxidant and near about are with respect to the substrates. The order with respect to perchloric acid is fractional or first order depending upon the substrate concentration. The reaction is retarded by the initial addition of benzamide and is enhanced by the added potassium bromide. The activation parameters have been calculated and a suitable mechanism has been proposed.

Keywords: Kinetics, Oxidation, Isoamylalcohol, p-Methoxy-N-Bromobenzamide.
