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# Kinetic Studies of Condensation of Aromatic Aldehydes with Meldrum's Acid

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From the journal [Zeitschrift für Naturforschung B](#)

<https://doi.org/10.1515/znb-2002-1119>

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The condensation reaction of Meldrum's acid with aromatic aldehydes in the presence of a catalyst has been investigated spectrophotometrically at 25–50 °C. The reaction follows overall second order kinetics, first order in each of the reactants. Electron-withdrawing groups accelerate and electron-releasing groups retard the rate of condensation. From the dependence of the rate constants on temperature, the activation parameters have been calculated and also the isokinetic temperature with a value of 403.5 K. Based on this reaction, determination of eight aromatic aldehydes in a concentration range of 1.49 – 91



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