

Supplemental data

Figure S1 Plotting of $\ln(1-L_S)$ versus reaction time t at different temperatures and formic acid concentration (A: 60 %; B: 70 %; C: 80 %; D: 88 %). The plotting showed an apparent deviation from linear relationship, which indicates that the kinetic model of $\frac{dL_S}{dt} = k_L(1-L_S)$ (Saeman's model) cannot be employed to accurately describe the kinetic of lignin delignification by aqueous formic acid.

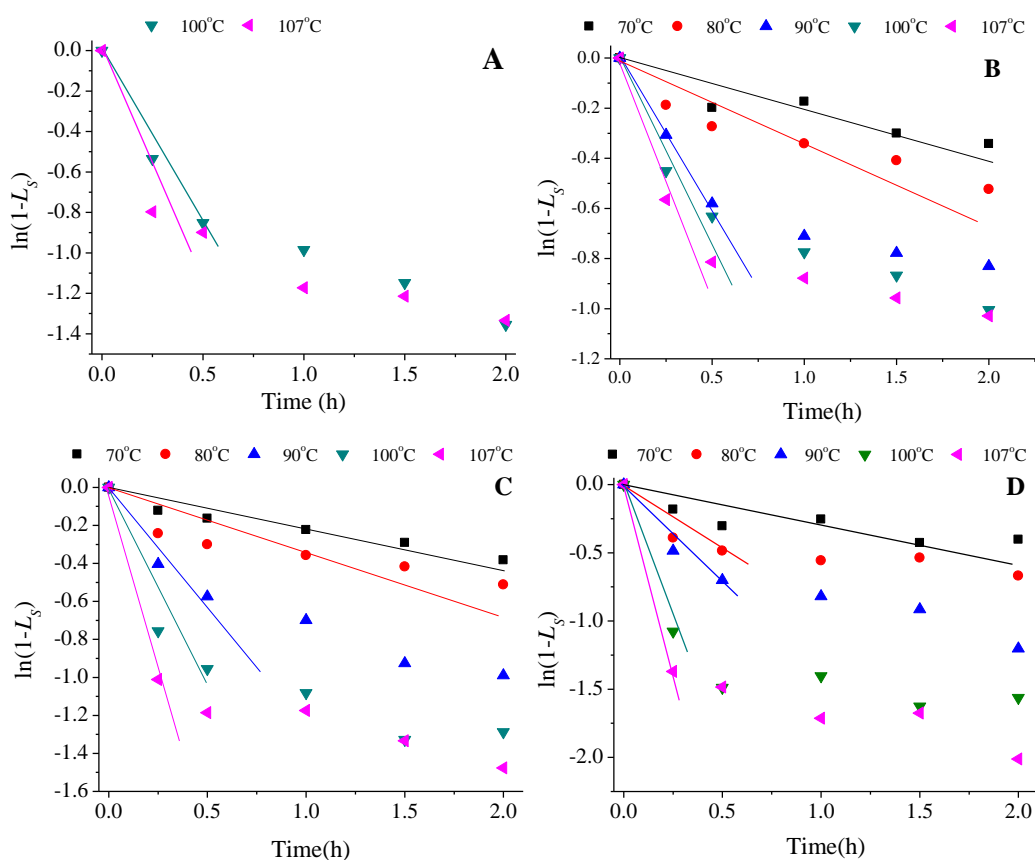


Figure S2 Comparison of experiment-determined data and model-predicted data by multivariate linear regression for rate constant (k_L , k_X and k_G) and degree of reaction (d_D , d_{SX} and d_{SG})

