

Supplementary Figure 1

Copper(I)/TEMPO Catalyzed Aerobic Oxidation of Primary Alcohols to Aldehydes with Ambient Air

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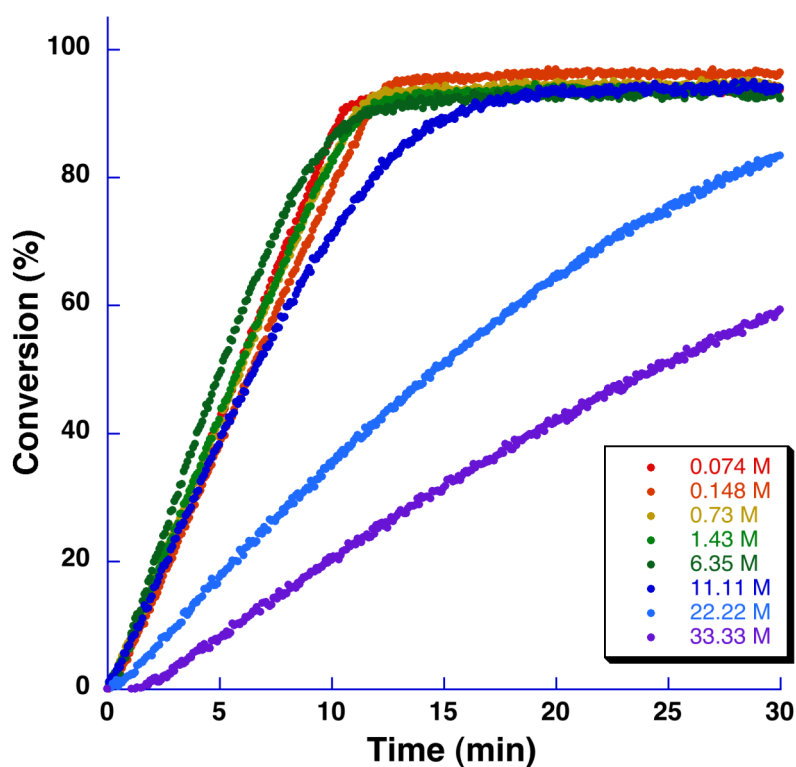


Figure S1. Influence of added H₂O on the oxidation of benzyl alcohol by Cu/TEMPO. Standard conditions: BnOH (0.2 M), Cu(MeCN)₄(OTf) (5 mol%), bpy (5 mol%), TEMPO (5 mol%), NMI (10 mol%) in MeCN at 27 °C under 1 atm O₂ with varying concentrations of added water (0.074 M to 33.33 M).

Under these conditions, water is tolerated at concentrations up to 6 M with little change in the reaction rate. Water concentrations of 11 M or greater lead to decreased reaction rates and increased reaction times.