

Supporting Information

Catalysis and molecular magnetism of dinuclear iron(III) complexes with *N*-(2-pyridylmethyl)-iminodiethanol/-ate

Jong Won Shin, Jeong Mi Bae, Cheal Kim, and Kil Sik Min

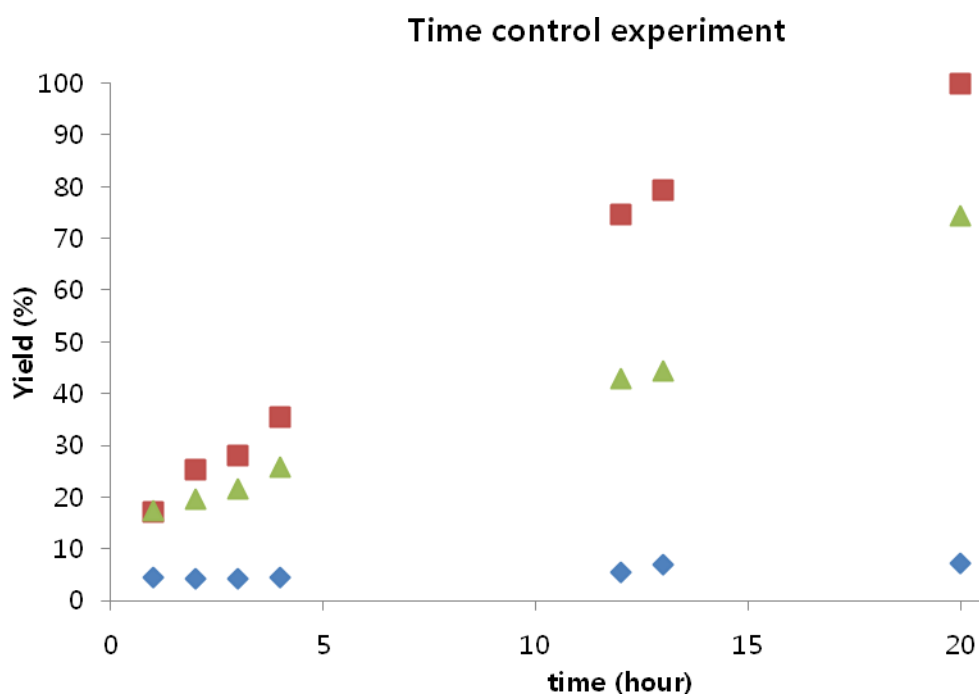


Fig. S1. Time-course for the **1**-catalyzed oxidation of cyclohexanol with *t*-BuOOH in CH₃CN. Reaction conditions: catalyst; 1.2×10^{-3} mmol, cyclohexanol; 0.30 mmol, *t*-BuOOH; 0.03 mmol, dodecane; 0.01 mmol, solvent; CH₃CN (1 mL).

◆ without catalyst, ▲ [(pmide)Fe(N₃)]₂, ■ [(Hpmdide)Fe(NO₃)]₂(NO₃)₂

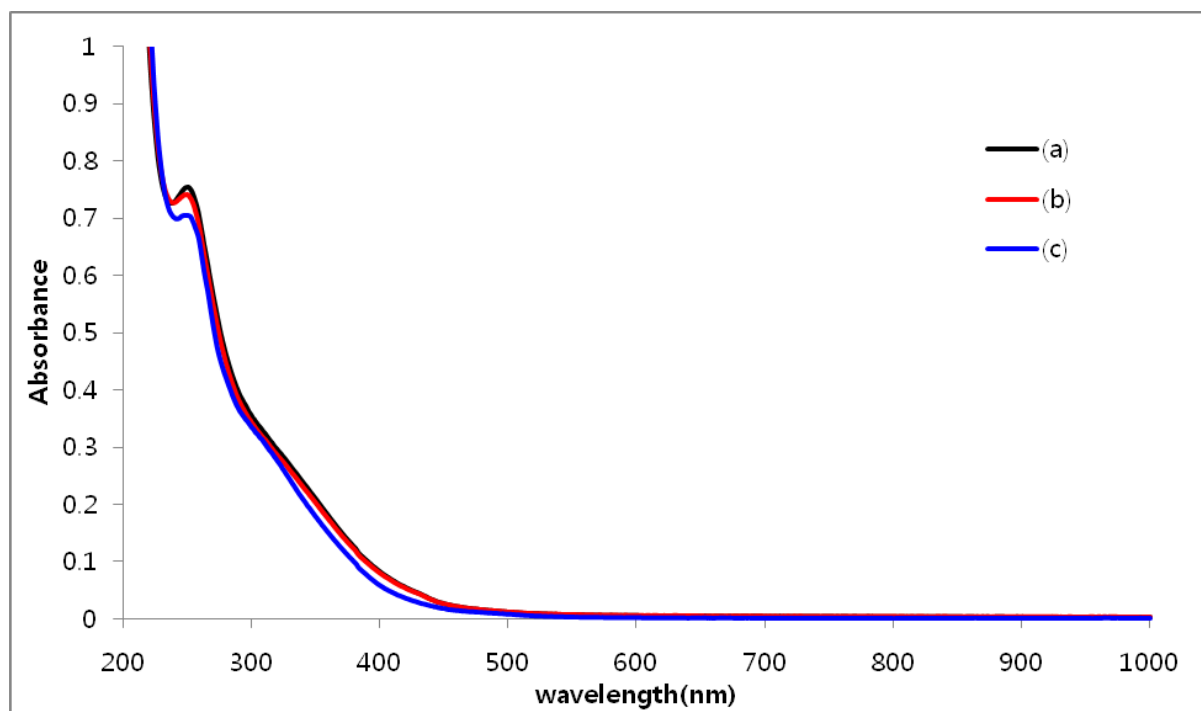


Fig. S2. UV-vis spectra of (a) **1** (1.2×10^{-3} mmol) with 250 equiv of cyclohexanol (black line), (b) immediately after the addition of *t*-BuOOH (25 equiv) (red line), and (c) 24 h after the addition of *t*-BuOOH (25 equiv) (blue line) in CH_3CN at room temperature. All UV-vis spectra were taken after 30 times dilution.

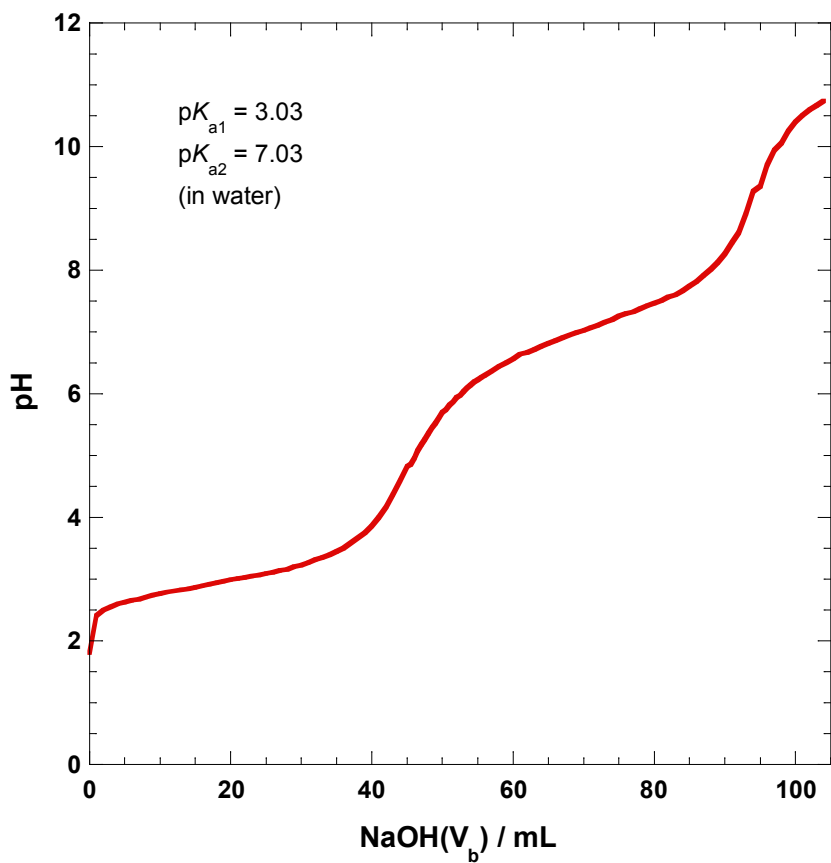


Fig. S3. Titration curve for the reaction of 0.025 M [(Hpmide)Fe(NO₃)₂]₂(NO₃)₂•2CH₃OH (10 mL) and 0.01 M NaOH.