Supporting Information

Noncovalent secondary interactions in Co(II)Salen complexes: O_2 binding and catalytic activity in cyclohexene oxygenation

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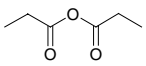
GC analysis of the catalytic oxidation of cyclohexene S2-S3

GC analysis of the catalytic oxidation of cyclohexene

GC method: injector 200ºC; detector 280ºC; column: 50ºC (hold 0.5 min), ramp 7ºC/min to 75ºC (hold 0.1 min), ramp 25ºC/min to 120ºC.

The retention times observed for compounds possibly present in the reaction mixture are summarized in Table S1 (determined using commercially available samples).

Table S1. *Retention Times (t) for Analytical Samples of Compounds Present in the Cyclohexene Oxidation Reaction Mixture*

		t (min)
	**20**	1.80
		1.9-2.4
	**18**	3.48
		4.32
	**19**	4.58
	**21**	5.96

Response factors were determined for products **18**, **19** and for cyclohexene **20** using 1,2-dichlorobenzene as internal standard (Figure 1S).

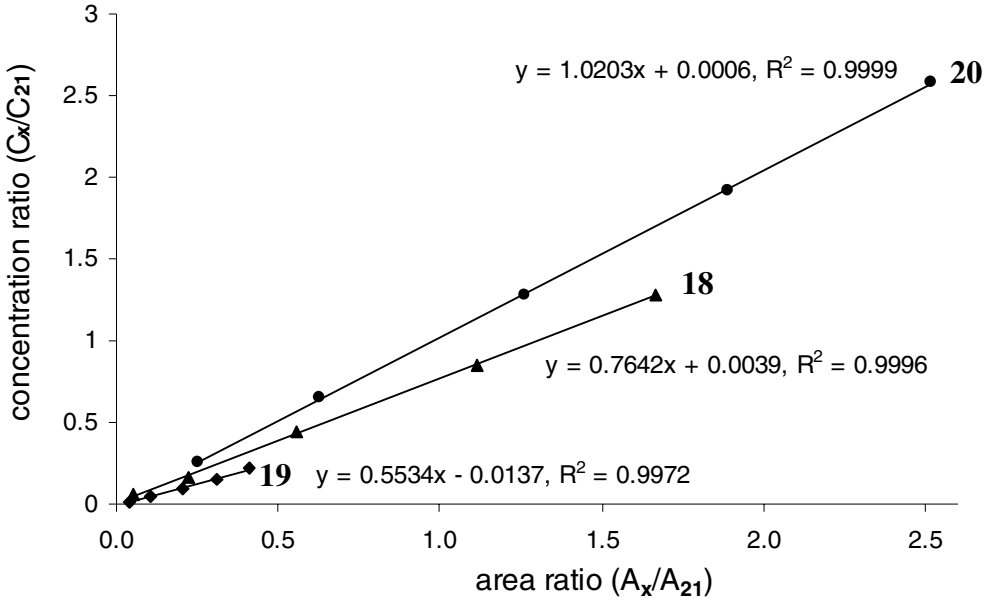


Figure S1. Response factors for **18**-**20**

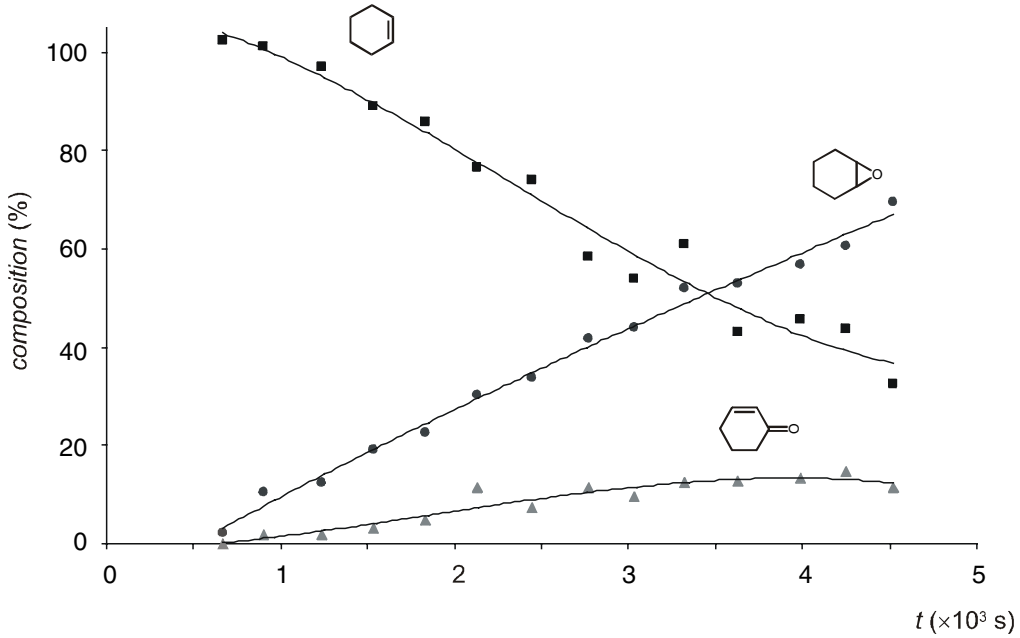


Figure S2. Concentration vs time profile for cyclohexene (0.18 M in CH_3CN) oxidation catalyzed by Co(II)Salen **4** (0.005 equiv). Conditions: 20°C, O_2 1 atm, propanal (4 equiv). Note especially the slightly sigmoidal shape for the cyclohexene curve.[33]