

Remarkable enhancement of catalytic activity of a 2 : 1 complex between a non-planar Mo(V) porphyrin and a ruthenium-substituted Keggin-type heteropolyoxometalate in catalytic oxidation of benzyl alcohols

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雑誌名	Dalton transactions
巻	41
号	33
ページ	10006-10013
発行年	2012-04
権利	(C) Royal Society of Chemistry 2012
URL	http://hdl.handle.net/2241/119447

doi: 10.1039/C2DT30424D

Supplementary Information for

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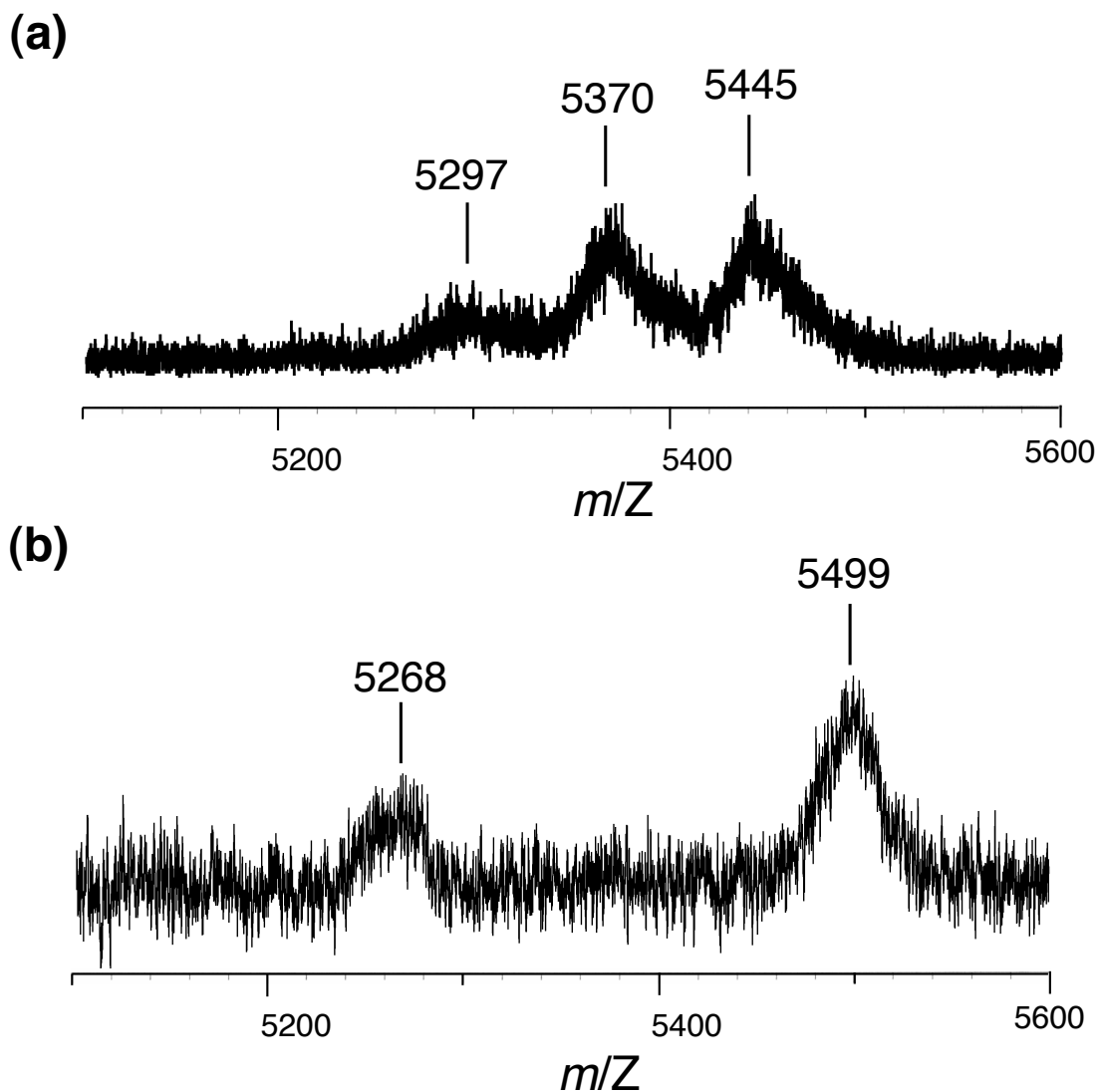


Fig. S1. MALDI-TOF-MS spectra in the negative mode: (a) **3** before the oxidation reaction; (b) after the oxidation reaction of benzylalcohol by **3** and PhIO in CDCl_3 . The peaks at $m/Z = 5499$ and $m/Z = 5268$ were assigned to that of $\{\mathbf{3} + \text{ClO}\}^-$ (calcd. 5497) and that of $\{\mathbf{3} - 2\text{Ph} - \text{O}\}^-$ (calcd. 5275), respectively.

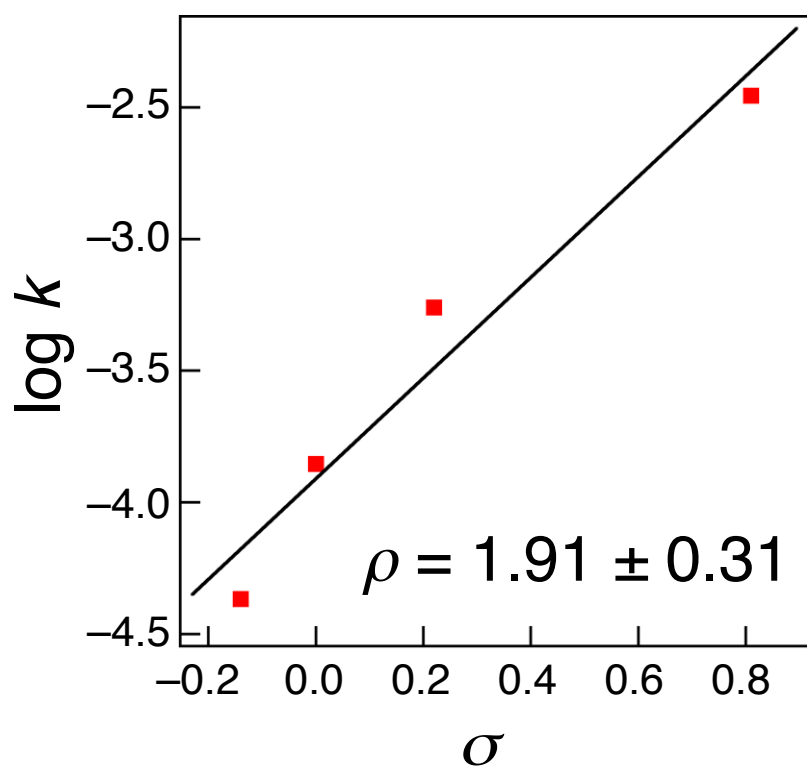


Fig. S2 A Hammett plot for the pseudo-first-order rate constants of oxidations of benzyl alcohol derivatives by **3** and PhIO in CDCl₃. The σ values were adopted from S. H. Pine, in *Organic Chemistry (5th Ed.)*, McGraw-Hill, New York, **1987**.