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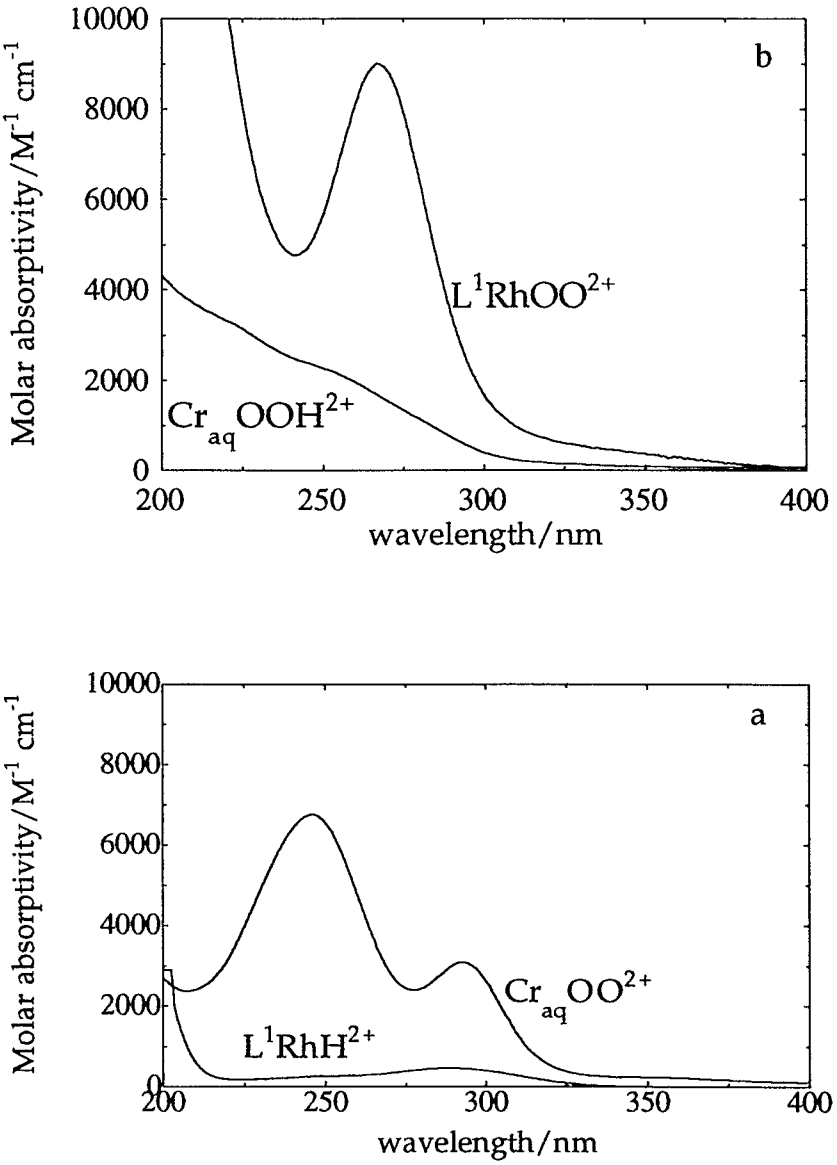
Figure Captions

Figure S1. UV spectra of (a) reactants (L^1RhH^{2+} and $Cr_{aq}OO^{2+}$) and (b) products (L^1RhOO^{2+} and $Cr_{aq}OOH^{2+}$) of reaction 13 (L = L^1) in O_2-saturated 0.1 M $HClO_4$.

Figure S2. Plot of k_ψ against [$(NH_3)_4RhH^{2+}$] for the reaction between L^1RhOO^{2+} and $(NH_3)_4RhH^{2+}$ under argon.

Figure S3. Initial portion of a kinetic trace at 240 nm for the reaction between 0.022 mM $(NH_3)_4RhOO^{2+}$ and 0.72 mM L^1RhH^{2+} in O_2-saturated 0.1 M $HClO_4$. The exponential absorbance increase in the first ~150 s corresponds to the stoichiometric reaction between the two reactants. This is followed by the much slower catalytic conversion of L^1RhH^{2+} to L^1RhOOH^{2+}, which takes several hours for completion.



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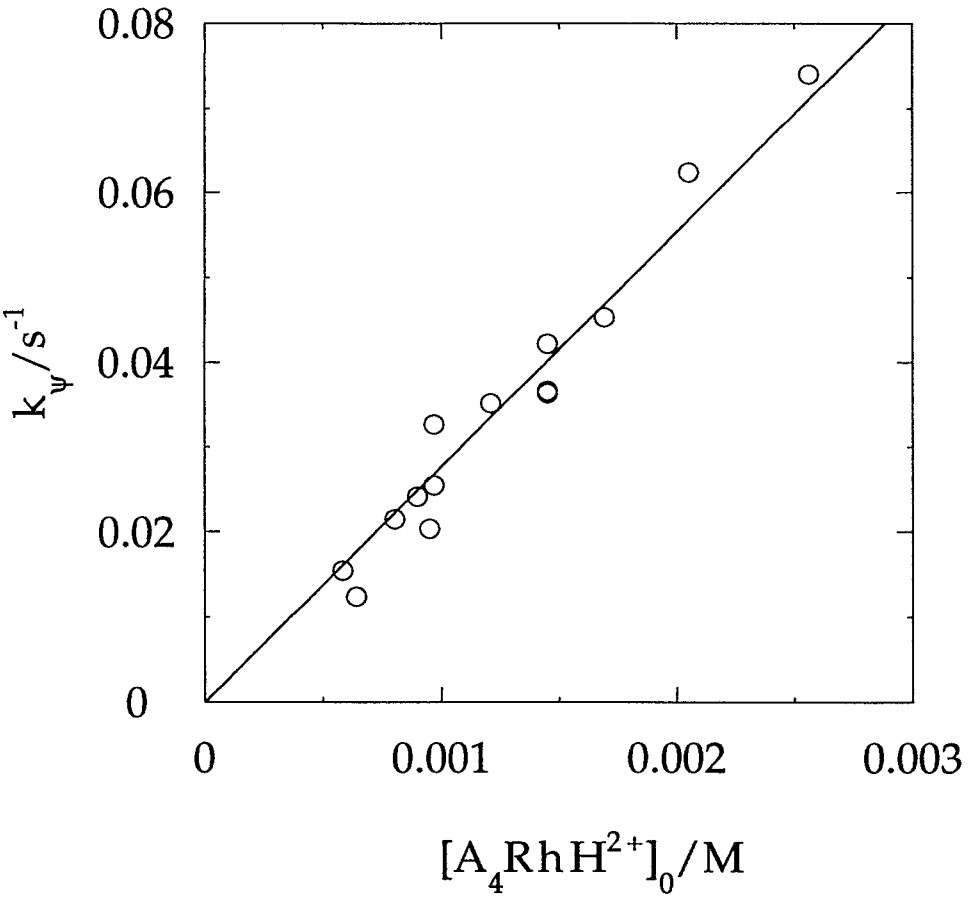

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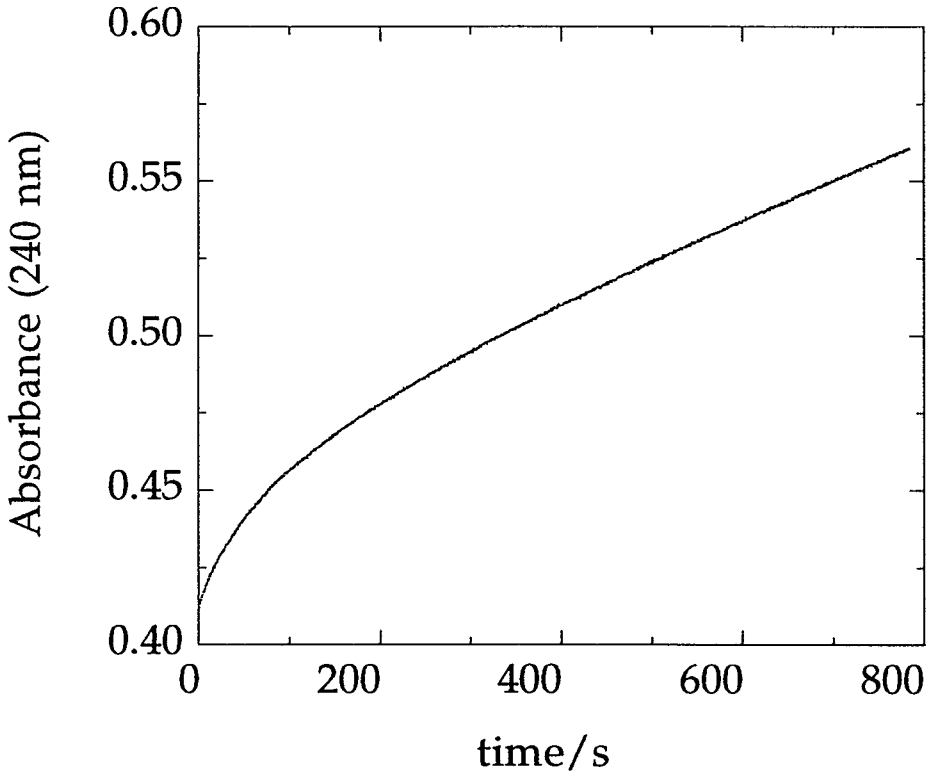

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