Supporting Information

Mechanistic Studies of O_2 Reduction Effected by Group 9 Bimetallic Hydride Complexes

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Index *Page*

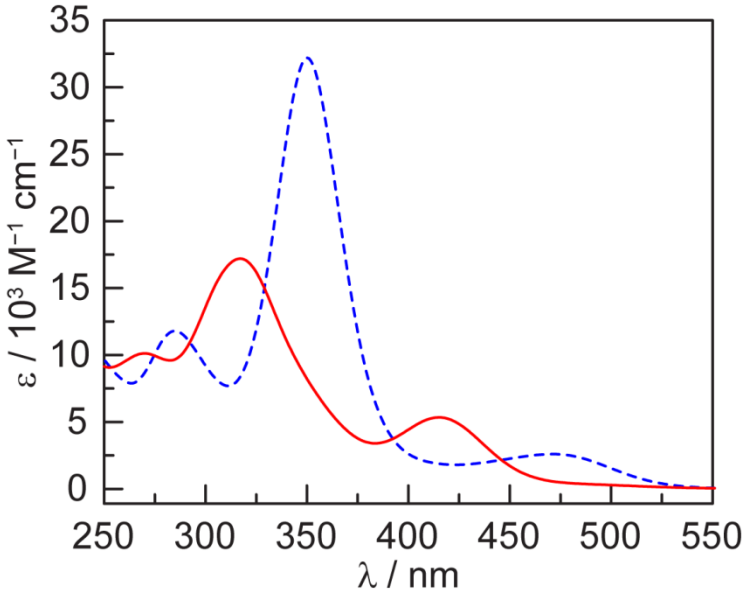

Figure S1. Overlaid electronic absorption spectra of **2** (——, red) and **3** (– –, blue), recorded at 295 K in THF.

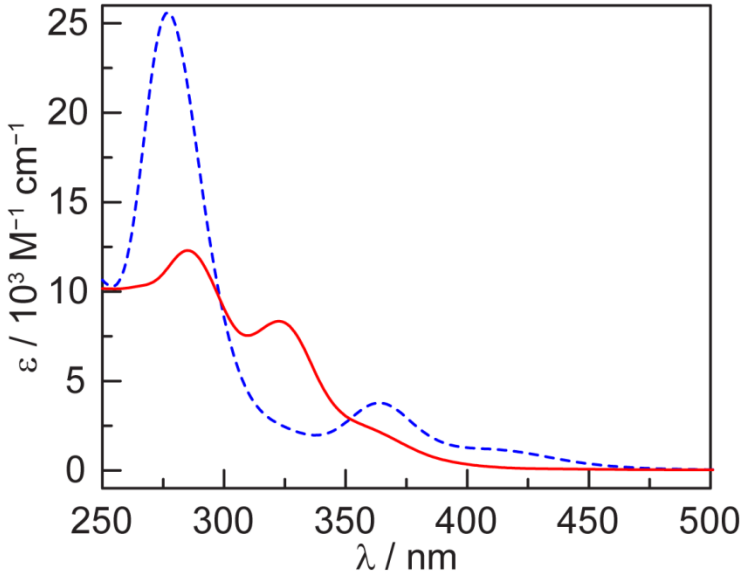

Figure S2. Overlaid electronic absorption spectra of **5** (——, red) and **6** (– –, blue), recorded at 295 K in THF.

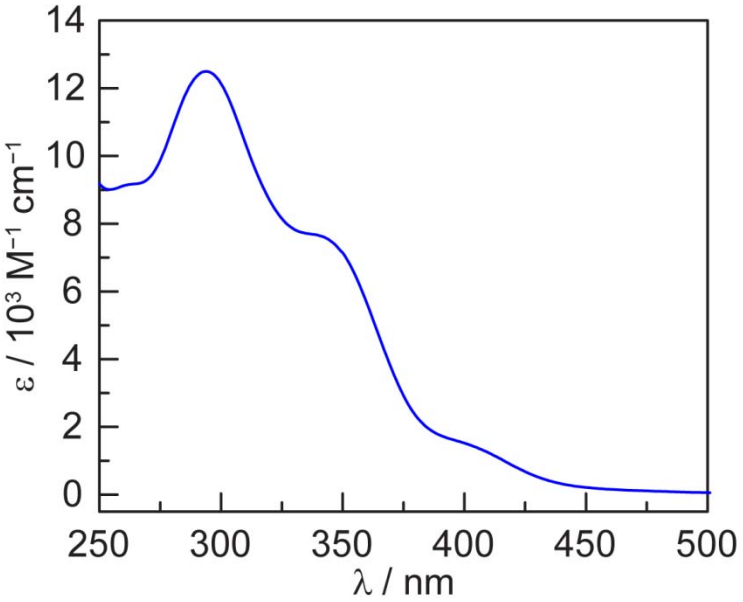

Figure S3. Electronic absorption spectrum of **7**, recorded at 295 K in THF.

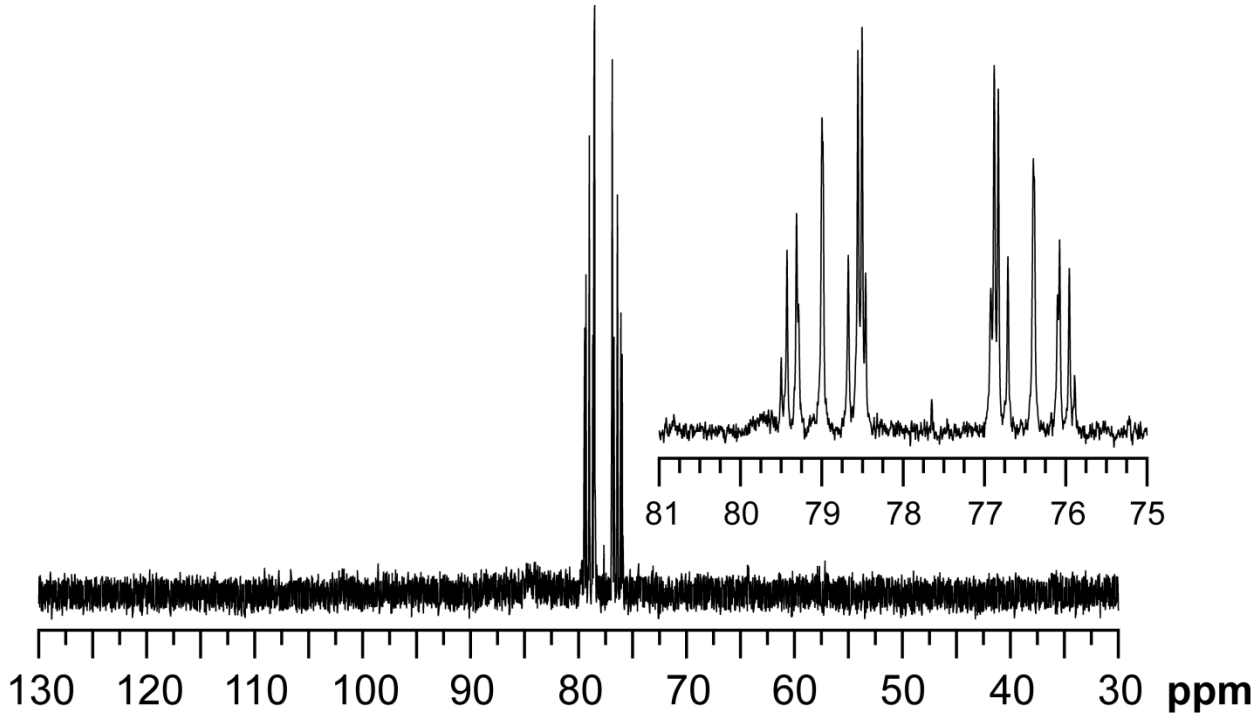

Figure S4. $^{31}P\{^{1}H\}$ NMR spectrum of **6**, recorded at 293 K and 121.5 MHz in CD_3CN. The inset shows an expansion of the spectrum.

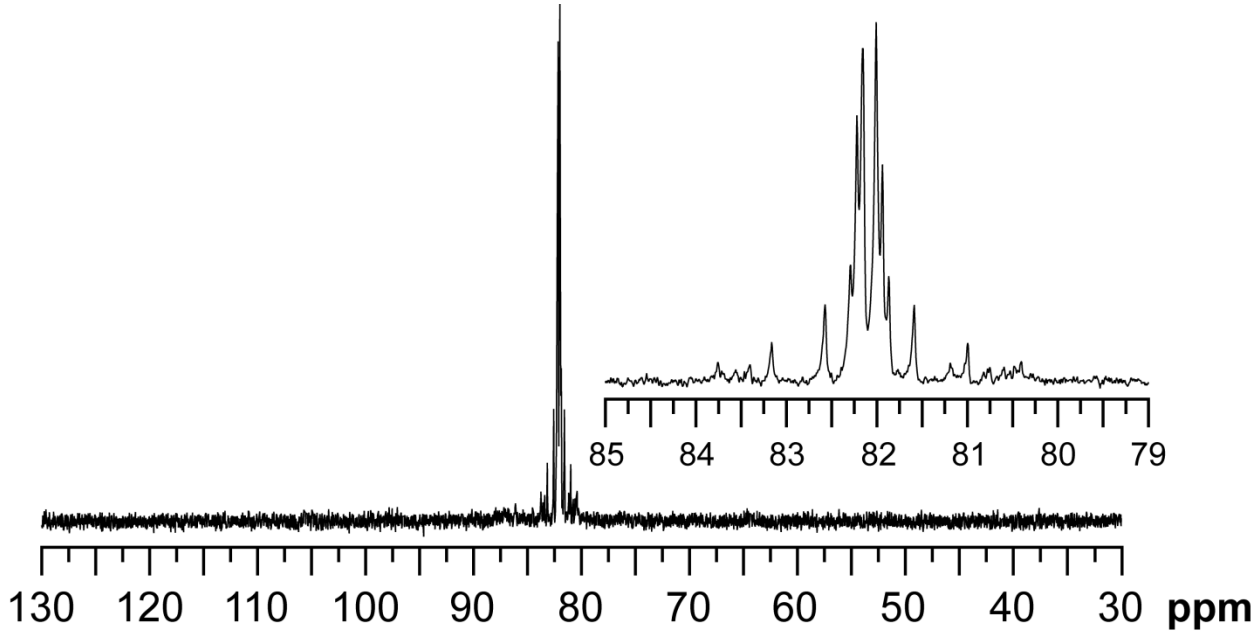

Figure S5. $^{31}P\{^{1}H\}$ NMR spectrum of **7**, recorded at 293 K and 121.5 MHz in CD_3CN. The inset shows an expansion of the spectrum.