

Inorganic Chemistry

including bioinorganic chemistry

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Table A. Affect of pz:1 Ratio on the $\pi \rightarrow \pi^*$ Transition in the Visible Region

Mole Ratio		
pz:1	λ_{max} (nm)	Absorbance
0.000	462	0.344
0.125	474	0.394
0.250	496	0.487
0.375	512	0.609
0.500	514	0.707
0.625	512	0.737
0.750	506	0.749
0.875	496	0.753
1.000	490	0.768
1.125	486	0.793
1.250	484	0.810
1.375	482	0.823
1.500	480	0.842
1.625	480	0.850
1.750	478	0.877
2.000	478	0.887
2.250	476	0.910
2.500	476	0.913
3.000	476	0.938
3.500	474	0.949
4.680	472	0.981

Table B. UV/visible Data for Titration of **1** with 4-cp^a

1:4-cp	λ_{max} nm ($\epsilon \times 10^{-3} \text{ M}^{-1}\text{cm}^{-1}$)
1:0	464 (1.02)
4:1	476 (1.38)
2:1	488 (1.82)
3:2	494 (2.32)
1:1	494 (2.68)
2:3	500 (3.02)
1:2	502 (3.24)
1:10	514 (3.63)
1:30	514 (3.77)

a) toluene solutions $3.20 \times 10^{-4} \text{ M}$ in **1**