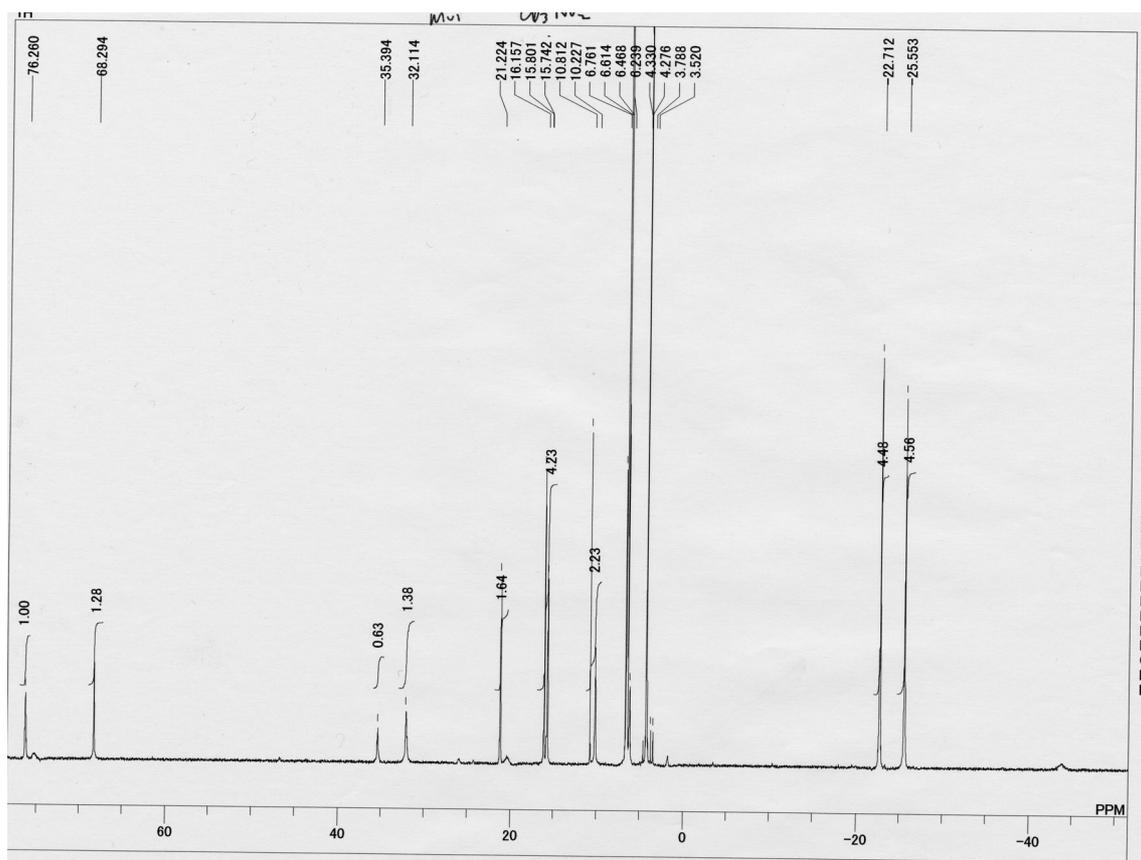


Contents

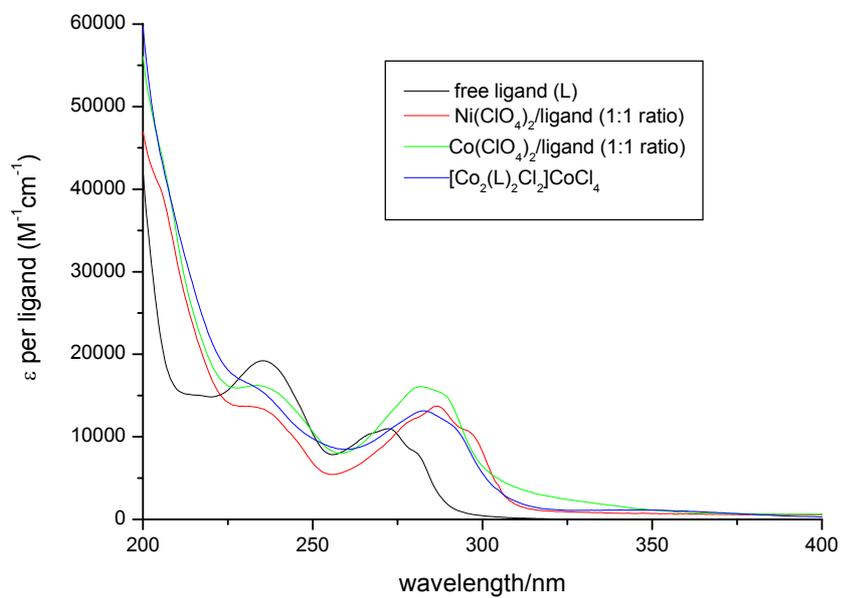
1. ^1H NMR spectrum of $[\text{Co}_2(\text{2})_2\text{Cl}]\text{CoCl}_4$ in CD_3NO_2
2. (a) UV spectra of:
 - (i) 2 in CH_3CN ;
 - (ii) $[\text{Co}_2(\text{2})_2\text{Cl}]\text{CoCl}_4$ in CH_3CN ;
 - (iii) a mixture of 2 and $\text{Co}(\text{ClO}_4)_2$ (1:1 ratio) in CH_3CN ;
 - (iv) a mixture of 2 and $\text{Ni}(\text{ClO}_4)_2$ (1:1 ratio) in CH_3CN .
- (b) Visible spectra of:
 - (i) a mixture of 2 and $\text{Co}(\text{ClO}_4)_2$ (1:1 ratio) in CH_3CN ;
 - (ii) a mixture of 2 and $\text{Ni}(\text{ClO}_4)_2$ (1:1 ratio) in CH_3CN .

1. ^1H NMR spectrum of $[\text{Co}_2(\text{2})_2\text{Cl}]\text{CoCl}_4$ in CD_3NO_2



2. UV-vis spectra

(a) UV spectra



(b) Visible spectra

