

Supporting information for:

Direct, One-Pot Synthesis of POCOP-Type
Pincer Complexes from Metallic Nickel

*Boris Vabre, Fabien Lindeperg and Davit Zargarian**

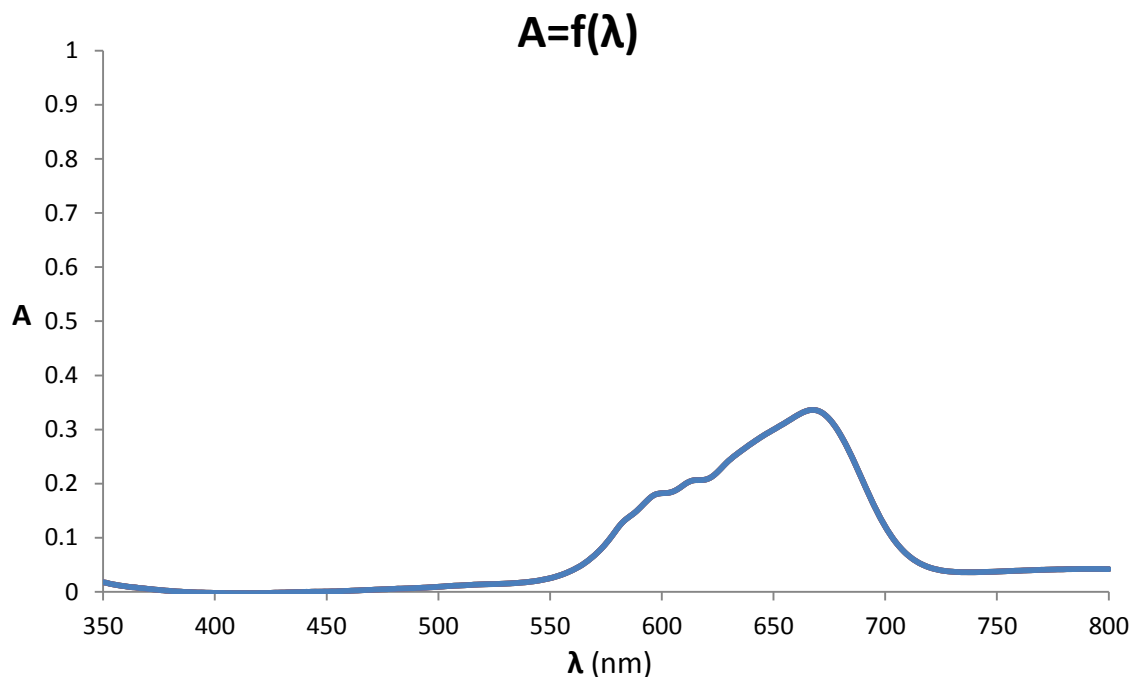
Département de chimie, Université de Montréal, Montréal (Québec), Canada H3C 3J7

zargarian.davit@umontreal.ca

Table 1 : Crystal Data Collection and Refinement Parameters for Compound **2**, **3** and **4**

Compound	2	3	4
chemical formula	C ₁₉ H ₃₃ ClNiO ₃ P ₂	C ₂₀ H ₃₃ ClNiO ₄ P ₂	C ₂₆ H ₄₇ ClNiO ₂ P ₂
Fw	465.55	493.56	547.74
T (K)	100	150	200
wavelength (Å)	1.54178	1.54178	1.54178
space group	C2/c	P2(1)/c	P2(1)/n
a (Å)	18.8143(2)	15.9080 (12)	10.4275(4)
b (Å)	18.2714(2)	13.0746 (10)	14.0330(5)
c (Å)	14.9031(2)	11.1340 (8)	20.5730(7)
α (deg)	90	90	90.00
β (deg)	117.8053(4)	91.464	101.1800(10)
γ (deg)	90	90	90.00
Z	8	4	4
V (Å³)	4531.62(9)	2315.0 (3)	2953.30(18)
ρ_{calcd} (g cm⁻³)	1.365	1.416	1.232
μ (mm⁻¹)	3.778	3.766	2.944
θ range (deg)	3.59 - 71.18	2.78 - 69.76	3.84 - 72.53
R₁^a [I > 2σ(I)]	0.0253	0.0304	0.0448
wR₂^b [I > 2σ(I)]	0.0951	0.0844	0.1176
R₁ [all data]	0.0265	0.0305	0.0464
wR₂ [all data]	0.0984	0.0845	0.1192
GOF	0.918	1.004	1.074

$$^a R_1 = \frac{\sum(|F_o| - |F_c|)}{\sum|F_o|} \quad ^b wR_2 = \left\{ \frac{\sum[w(F_o^2 - F_c^2)^2]}{\sum[w(F_o^2)^2]} \right\}^{1/2}$$



Spectre 1 : UV-vis spectra (CH_2Cl_2 , r.t.) of a sample of Co (0) one pot reaction.