

Supporting Information

Structural and magnetic studies of Schiff base complexes of nickel(II) nitrite: change in crystalline state, ligand rearrangement and a very rare μ -nitrito-1 κ O:2 κ N:3 κ O' bridging mode

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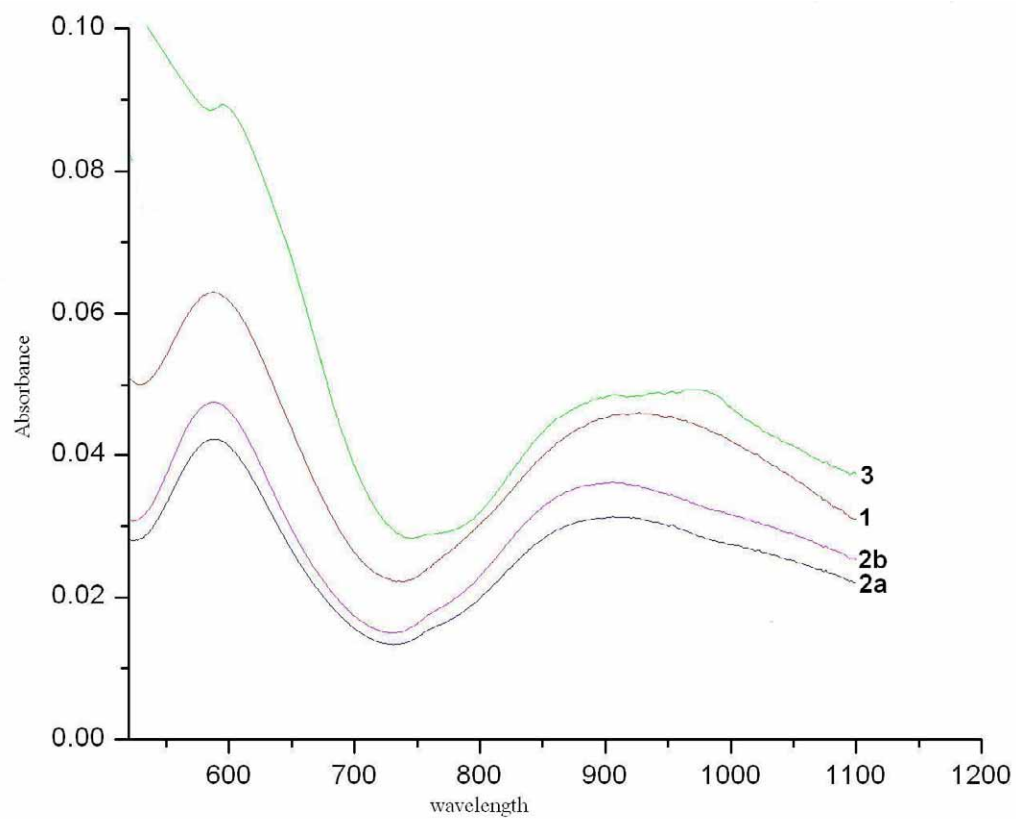


Figure S1: UV-VIS. Spectra of four compounds (1, 2a, 2b and 3)

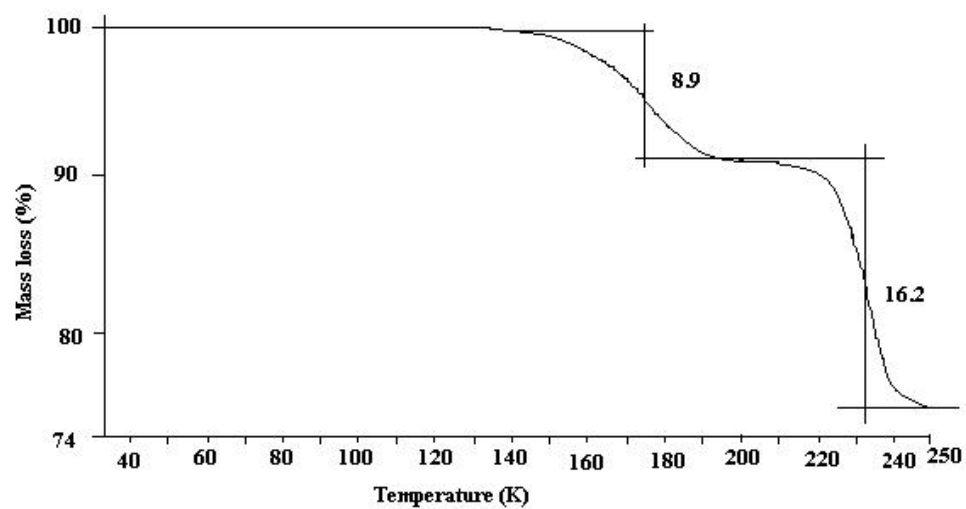


2a

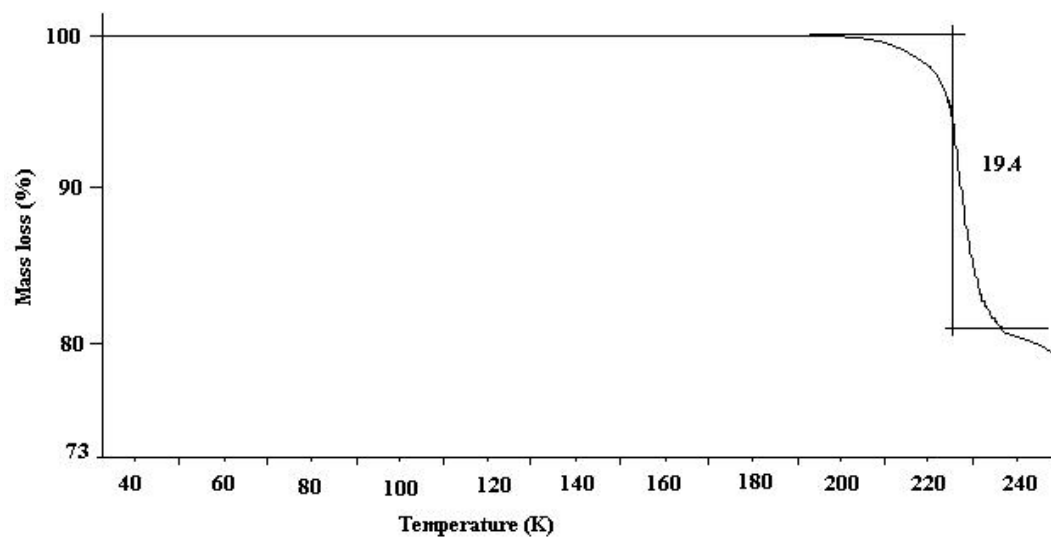


2b

Figure S2: Digital photos of crystal 2a and 2b

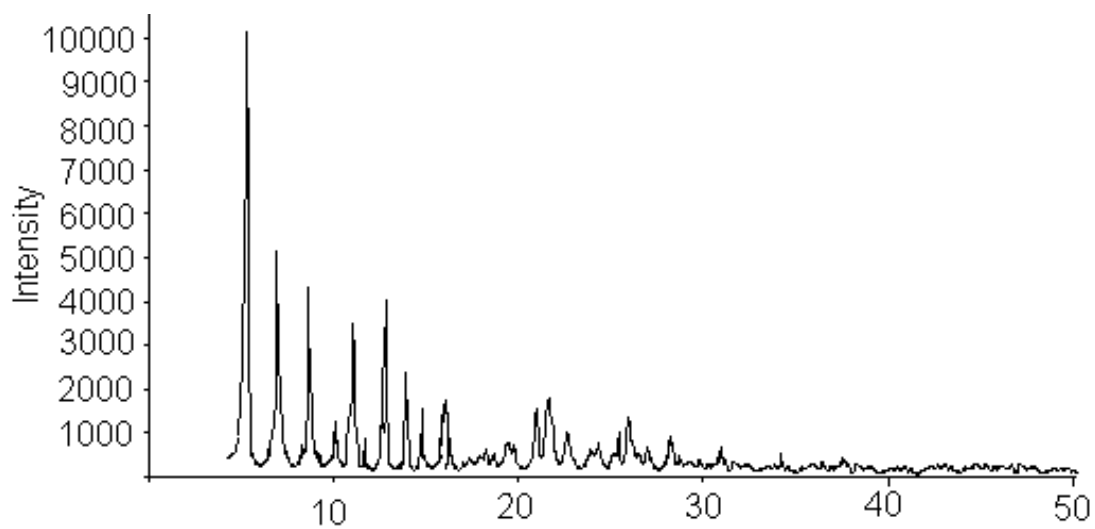


(a)

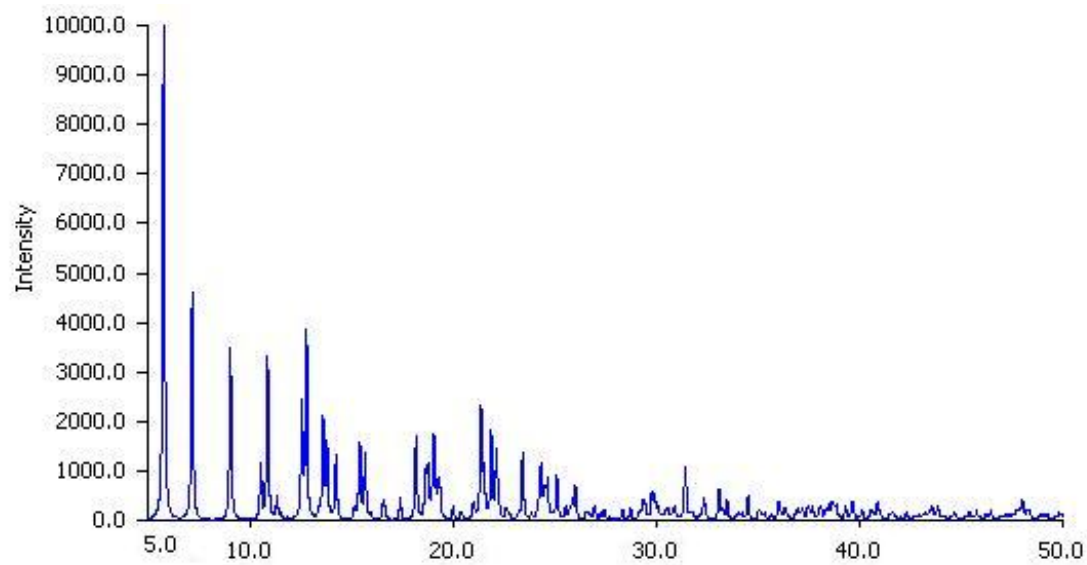


(b)

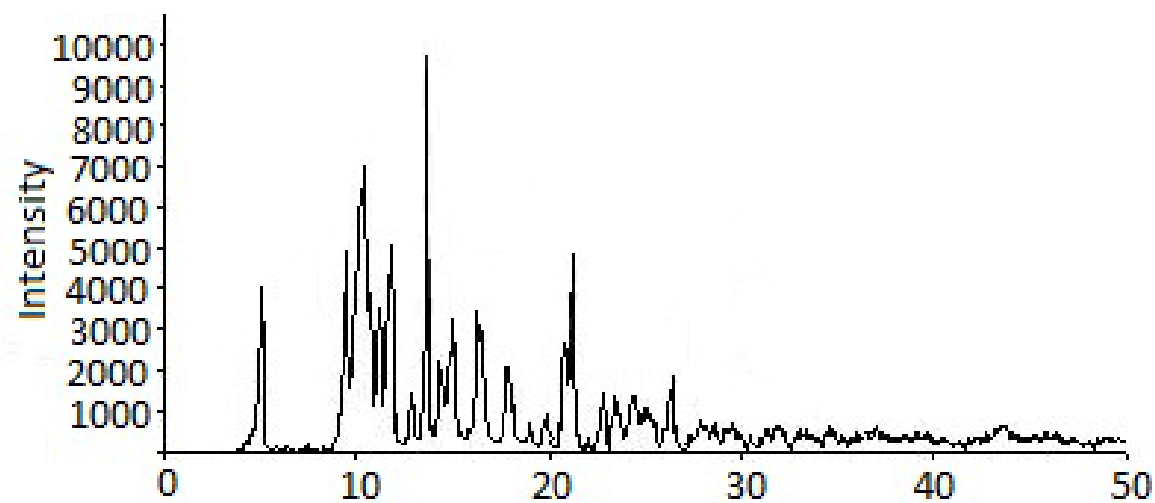
Figure S3: (a) Thermogravimetric plot of **2a** and (b) Thermogravimetric plot of **2b**.



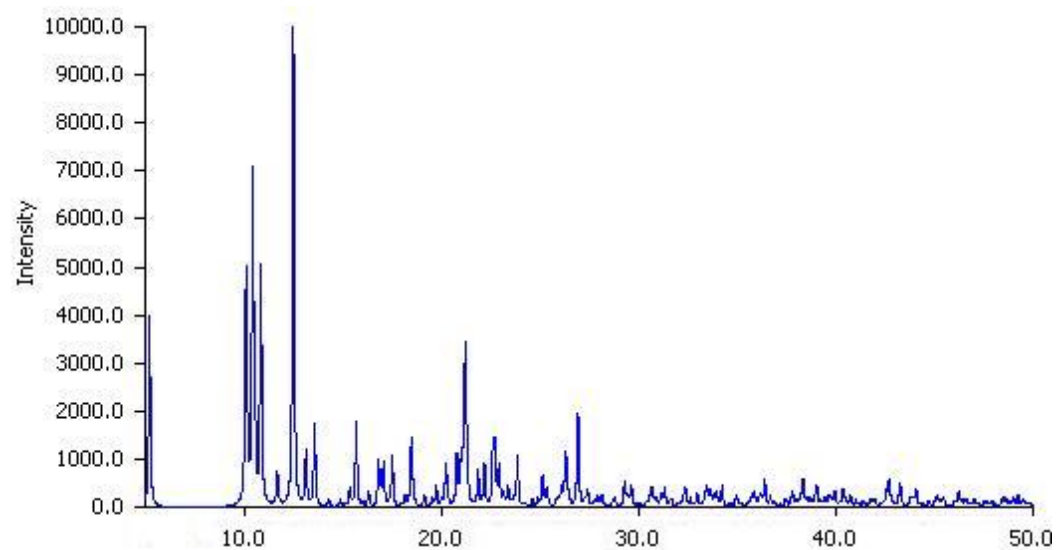
(a)



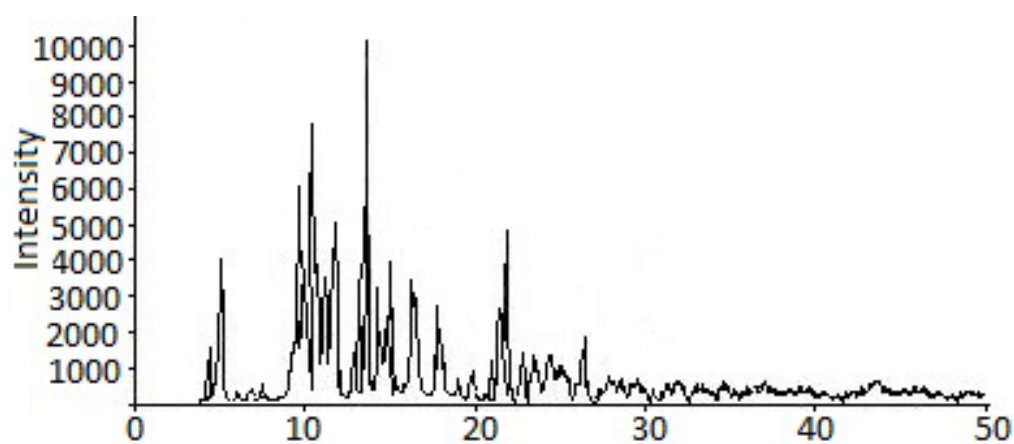
(b)



(c)



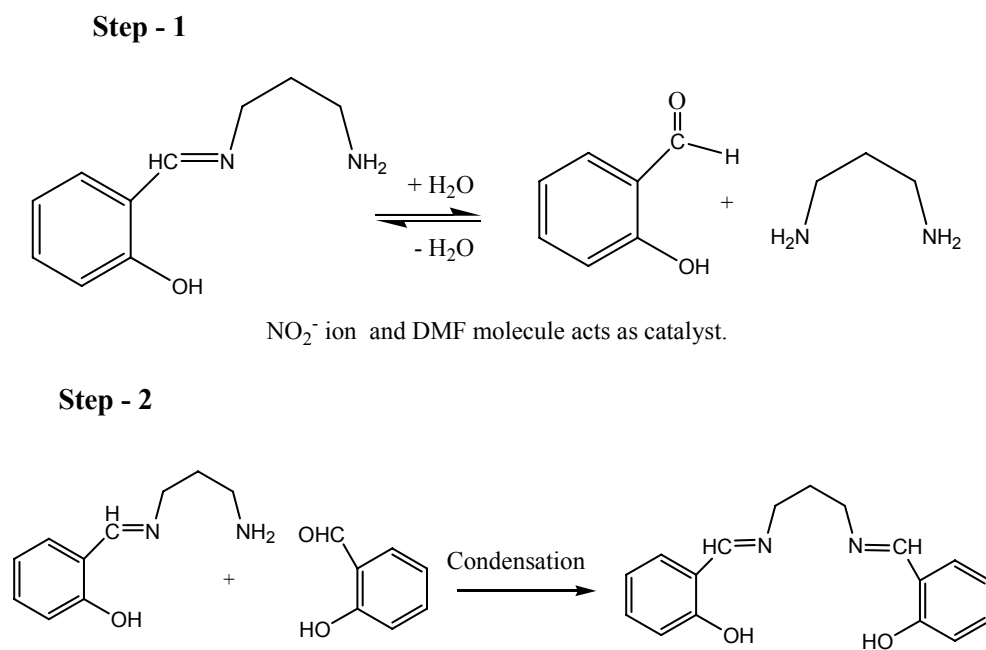
(d)



(e)

Figure S4: (a) Experimental powder XRD data plot of complex **2a**, (b) Simulated powder XRD data plot of complex **2a**, (c) Experimental powder XRD data plot of complex **2b**, (d) Simulated powder XRD data plot of complex **2b**, (e) Heat treated(190 °C) experimental powder XRD data plot of complex **2a**.

Figure S3: Experimental and simulated XRD patterns of complex



Scheme S1: Hydrolysis of tridentate Schiff base ligand to tetradentate Schiff base ligand