**Synthesis, Structure, and Properties of a Dinuclear Cu(II) Coordination Polymer based on Quinoxaline and 3,3-thiodipropionic acid Ligands**

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**[Cu2(TDPH)4(QNX)].DMF 1 Cambridge Crystallography Database Centre (CCDC) Deposition No.: 2015762**

**Volume adsorbed (cm3g-1)**

0.04

0.08

0.12

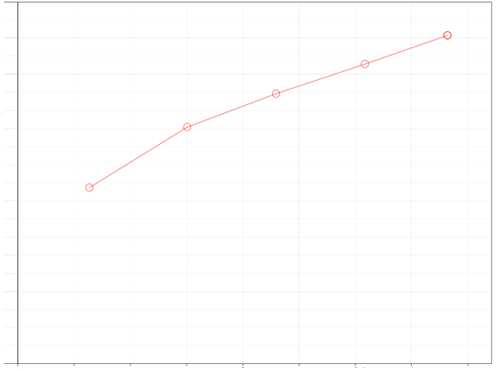
0.16

0.20

0.24

0.28

0.32



8000

16000

24000

32000

40000

48000

56000

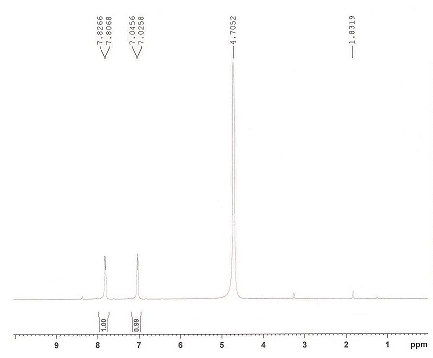
64000

72000

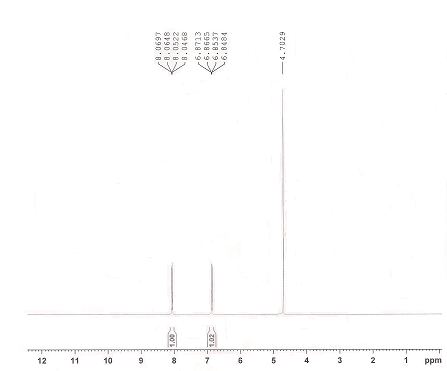
80000

**Relative Pressure (P/Po)**

**Figure S1.** BET Nitrogen isotherm of compound **1**



a



b

**Figure S2.** 1HNMR Spectra of (a) 4-aminophenol; (b) 4-nitrophenol

**Table S1:** Rate constants (kapp) and thermodynamic parameters for the reduction reduction of 4-NP at different temperatures using **1** as catalyst.

|  |  |
| --- | --- |
| **Parameters** | [Cu2(TDPH)4(QNX)].DMF **1** |
| **30 °C** | 8.0 x 10-4 s-1 |
| **40 °C** | 4.0 x 10-4 s-1 |
| **50 °C** | 3.0 x 10-4 s-1 |
| **60 °C** | 8.0 x 10-4 s-1 |
| **Ea (kJ mol-1)** | -3.290 |
| **ΔH (kJ mol-1)** | -5.929 |
| **Δs (J mol-1 K-1)** | 326.872 |