

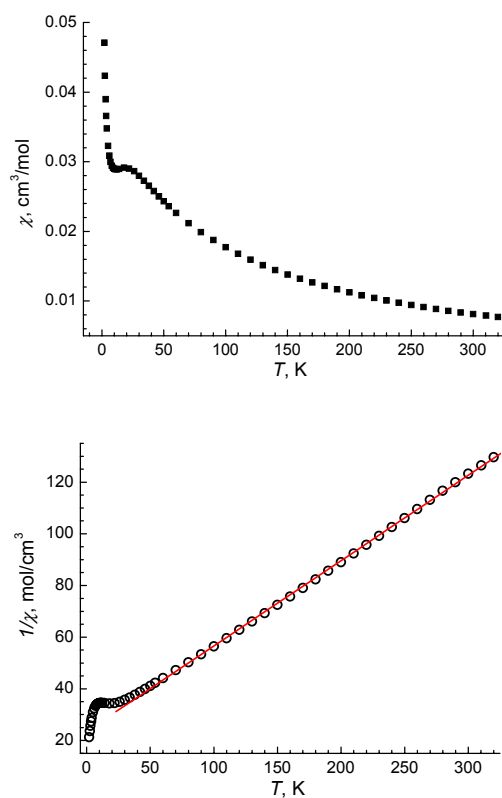
**ELECTRONIC SUPPLEMENTARY DATA**

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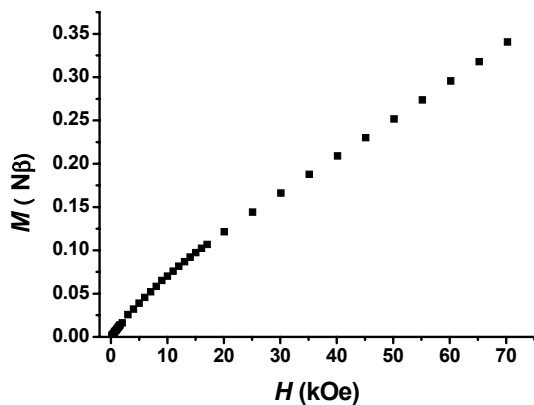
**Nanoporous Metal-Organic Framework Comprising of 1D Cobalt Oxalate Chains and Flexible Ligands Exhibiting Both Dynamic Gas Adsorption and Antiferromagnetic Chain Behaviours**

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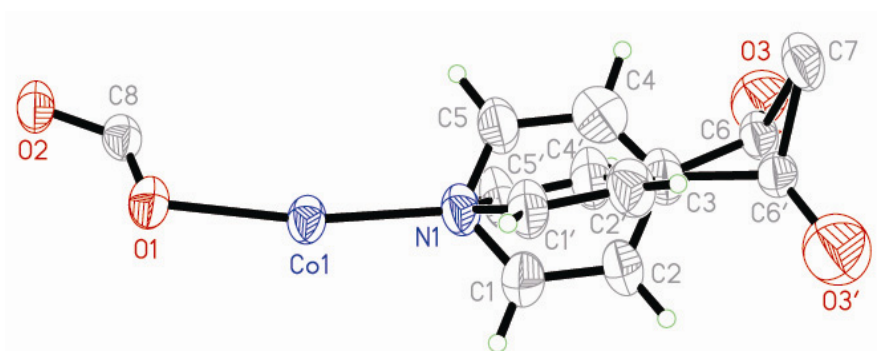
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**Figure S1.** Plots of  $\chi$  vs.  $T$  and  $1/\chi$  vs.  $T$  of  $1\cdot 9\text{H}_2\text{O}$ .



**Figure S2.** Plots of  $M$  vs.  $H$  of  $1 \cdot 9\text{H}_2\text{O}$ .



**Figure S3.** ORTEP drawings of the asymmetric unit of **1** with ellipsoids at 50% probability showing the temperature factors of the ligand disordered at two positions.