

Supplementary Material

Antiferromagnetic Cu-Gd interactions through oxime bridge

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Table S1. Relevant parameters for $[(\text{LCu})_2\text{Gd}(\text{NO}_3)_3(\text{H}_2\text{O})]$ complex 8

Space group (No.):	P 1 21/c 1 (14)
Lattice parameters:	
a/ Å:	17.84(1)
b/ Å:	18.55(1)
c/ Å:	11.983(8)
alpha/ °:	90
beta/ °:	96.30(1)
gamma/ °:	90
V/ 10^6 pm^3	3942.47500

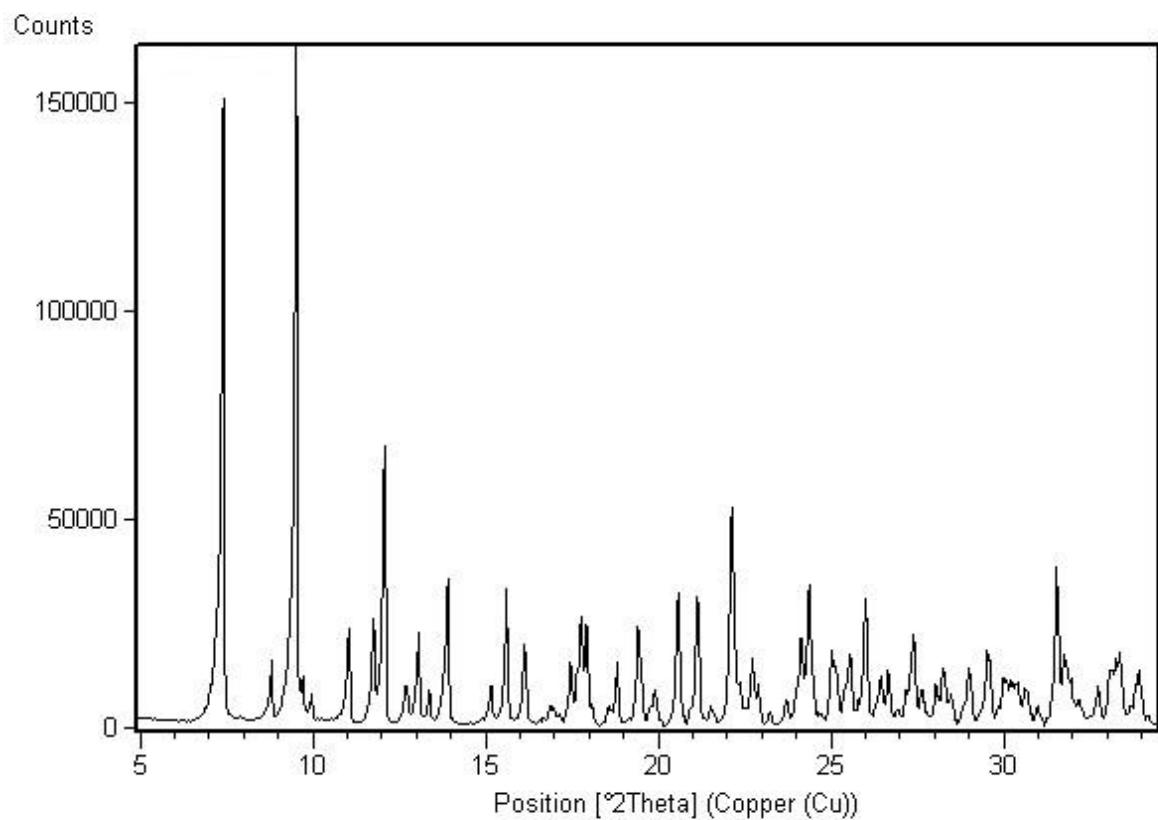


Figure S2. Powder diffractogram for complex 8.

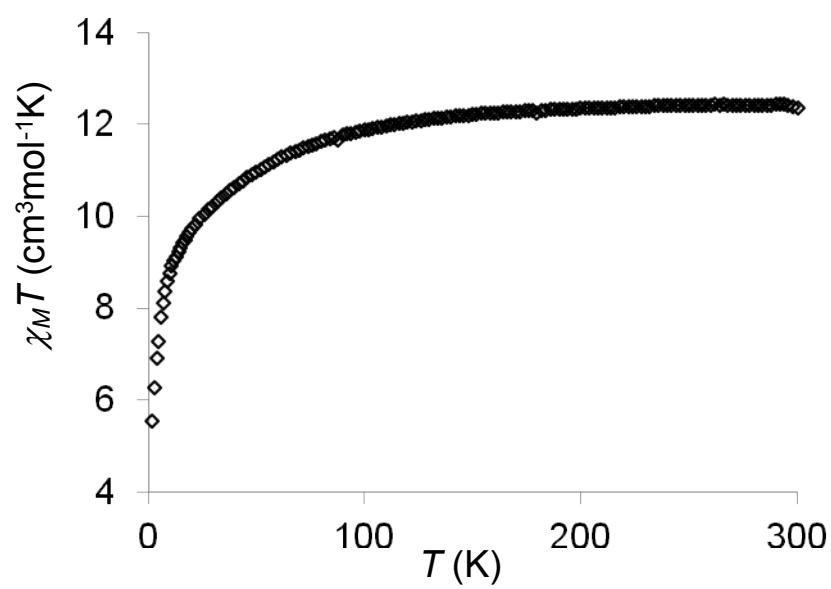


Figure S3. Temperature dependence of the $\chi_M T$ product for complex **9** at 0.1 T applied field.

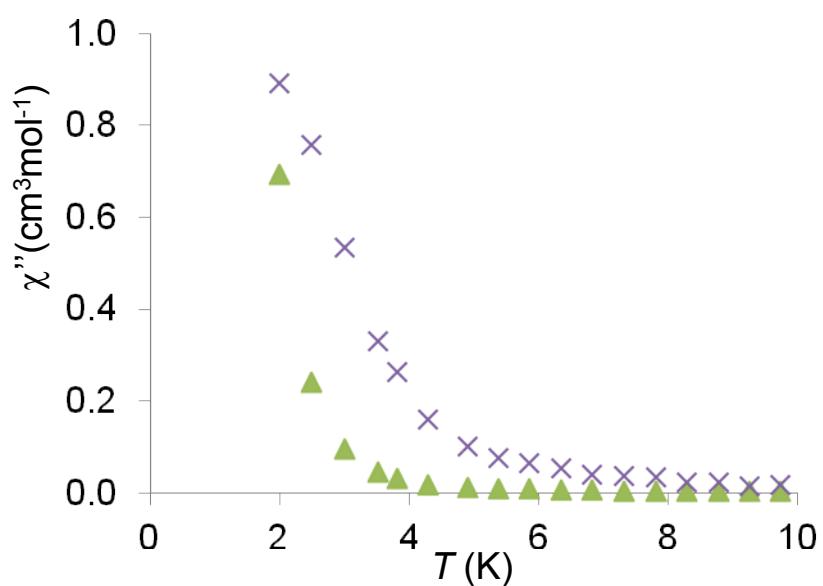
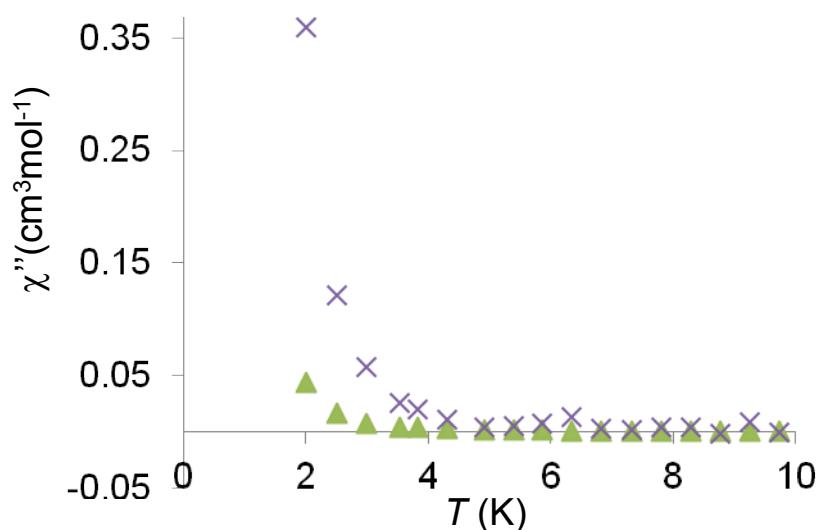


Figure S4. Out of phase susceptibility against temperature for complex 9 at ac field of 3 Oe without dc field (top) and with a dc field of 1000 Oe (bottom).