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Supplementary Information

Slow Relaxation of the Magnetization in Oximato-Bridged Heterobimetallic Copper(II)-Manganese(III) Chains

Rafael Ruiz,[a,b] Isabel Castro,[a] Emilio Pardo,[a] Jesús Ferrando-Soria,[a] Joan Cano,[a,b] Francesc Lloret[a] and Miguel Julve*[,a]

[a]Departament de Química Inorgànica/Instituto de Ciencia Molecular (ICMol), Universitat de València, C/ Catedrático José Beltrán 2, 46980 Paterna, València, Spain

[b]Fundación General de la Universitat de València (FGUV), Amadeo de Saboya 4, 46010 València, Spain

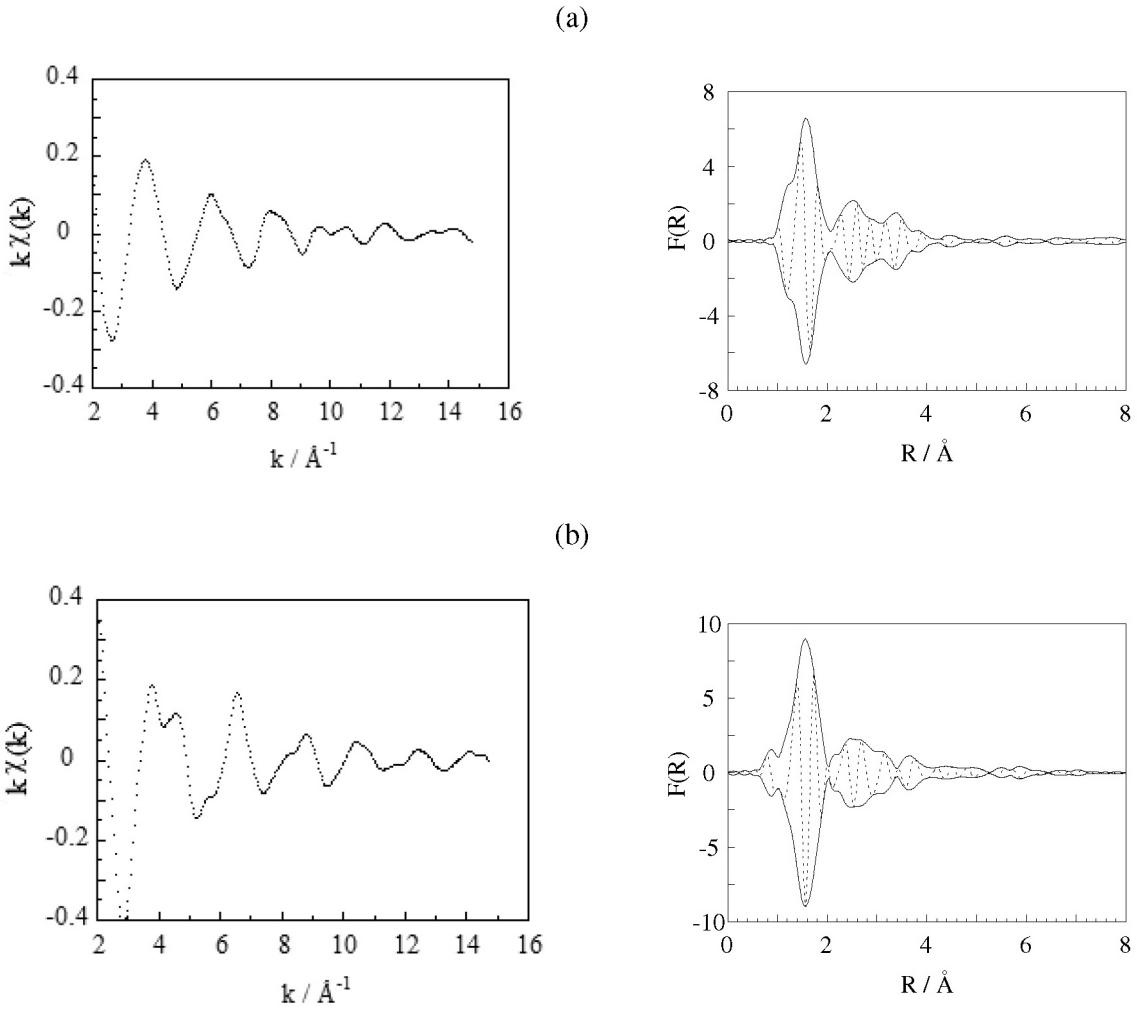

Figure S1. *k*-space experimental EXAFS spectra kχ(k) *vs.* k (left) and the corresponding Fourier transforms (right) at the copper (a) and manganese (b) K-edges for **2** at 40 K.

*e-mail: miguel.julve@uv.es

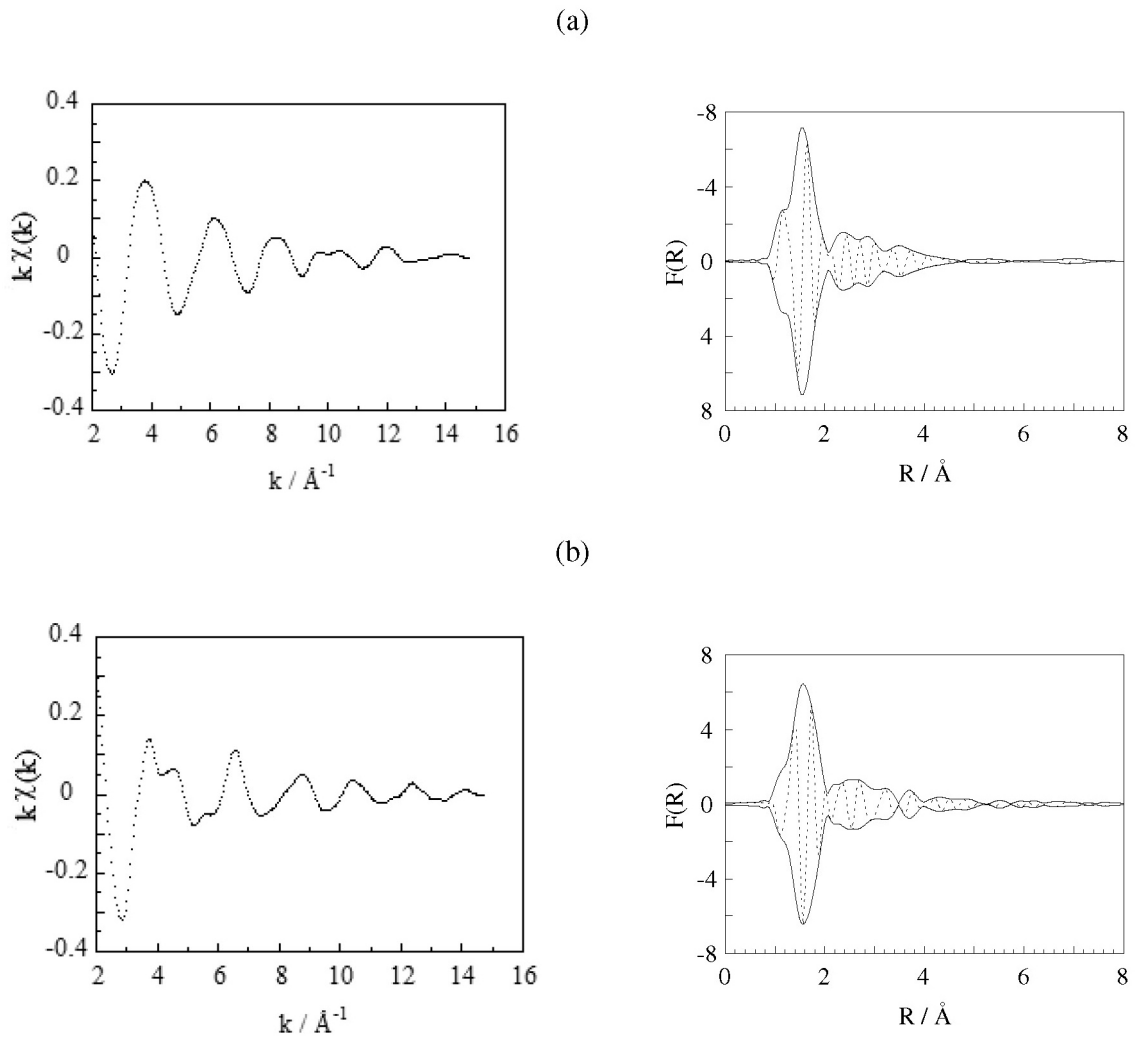

Figure S2. *k*-space experimental EXAFS spectra $k\chi(k)$ *vs. k* (left) and the corresponding Fourier transforms (right) at the copper (a) and manganese (b) K-edges for **3** at 40 K.

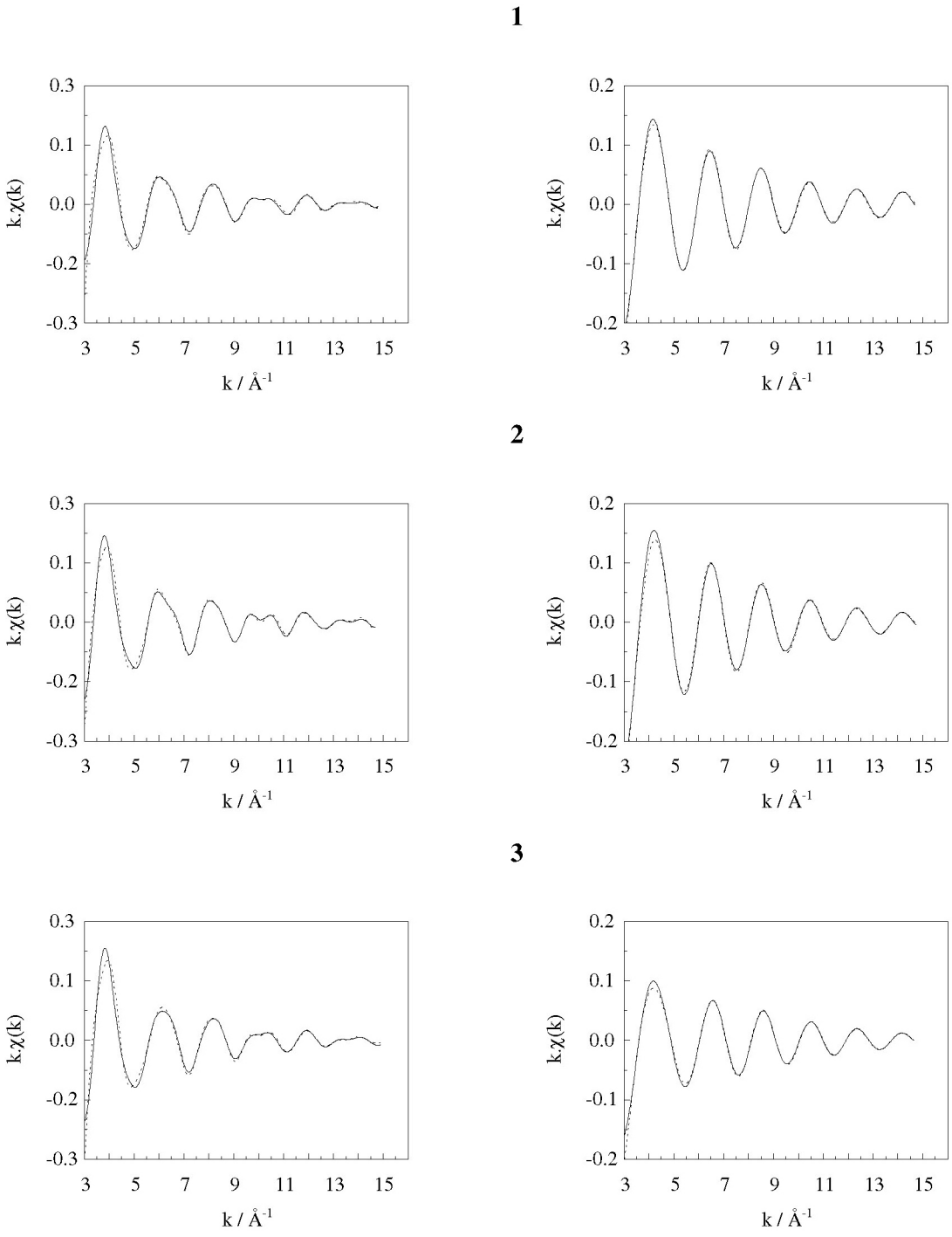

Figure S3. Experimental first-shell filtered data (dashed line) and best-fit (solid line) modelled contributions for **1-3** at the copper (left) and manganese (right) K-edges.

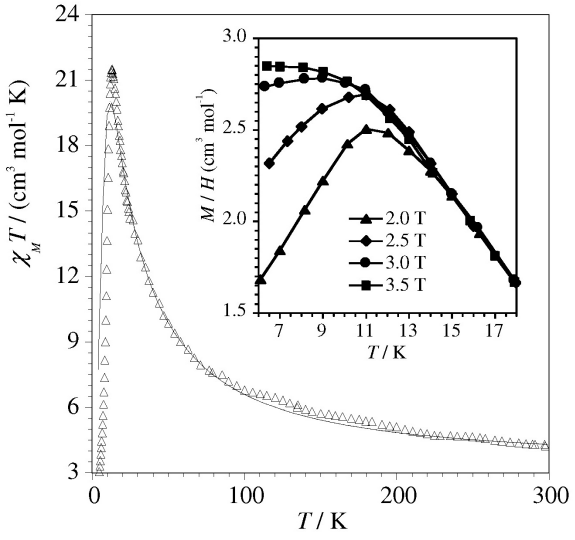

Figure S4. Temperature dependence of the $\chi_M T$ product for **2** at 2000 G: (Δ) experimental; (–) calculated curve as discussed in the text. The inset shows the field dependence of *M/H* of **2** in the low temperature region (the solid lines are eye-guides).

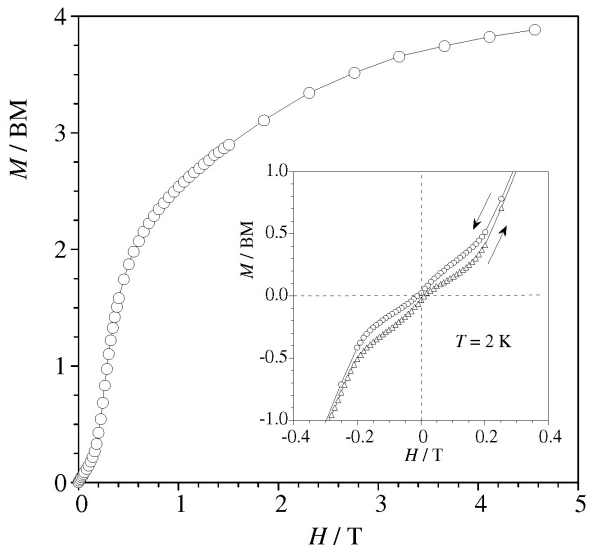

Figure S6. Magnetization *vs. H* plot for **2** at 2.0 K: (o) experimental; (–) eye-guide. The inset shows the hysteresis loop of **2** at very low magnetic fields.

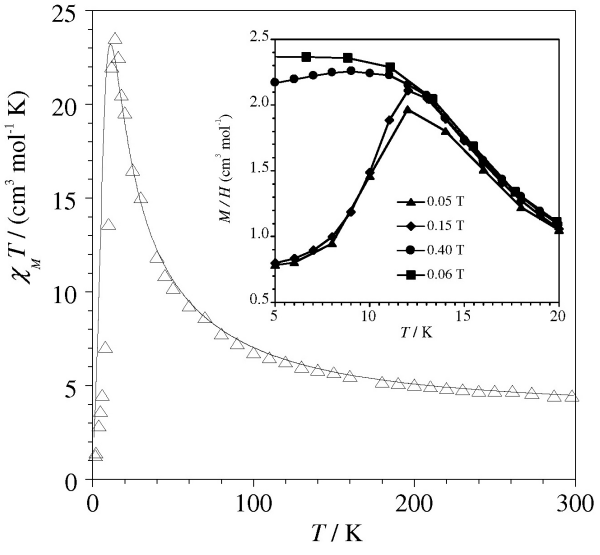

Figure S5. Temperature dependence of the $\chi_M T$ product for **3** at 500 G: (Δ) experimental; (–) calculated curve as discussed in the text. The inset shows the field dependence of *M/H* of **3** in the low temperature region (the solid lines are eye-guides).

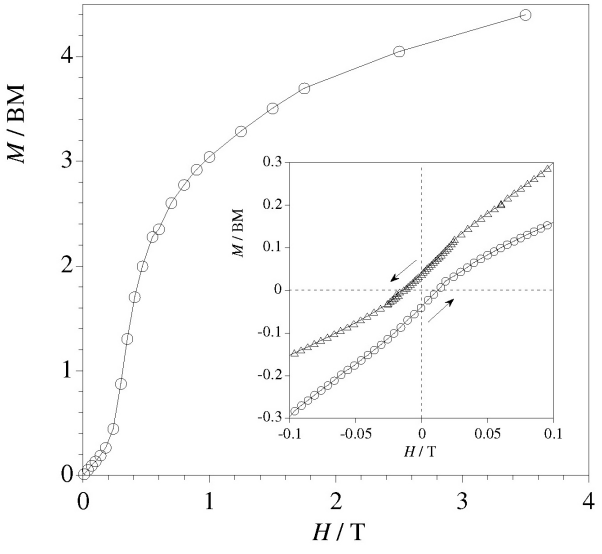

Figure S7. Magnetization *vs. H* plot for **3** at 2.0 K: (o) experimental; (–) eye-guide. The inset shows the hysteresis loop of **3** at very low magnetic fields.

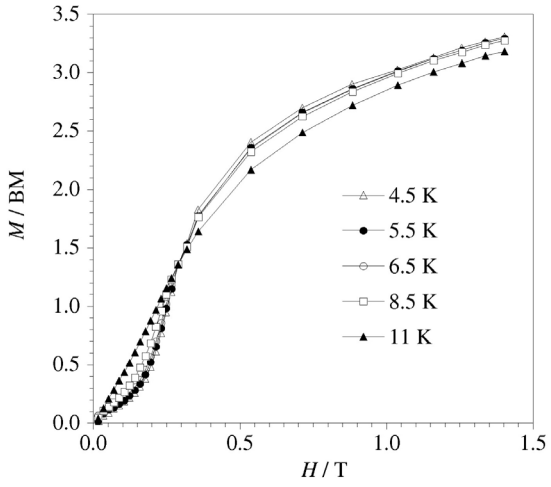

Figure S8. Magnetization isotherms for **2** at the indicated temperatures.

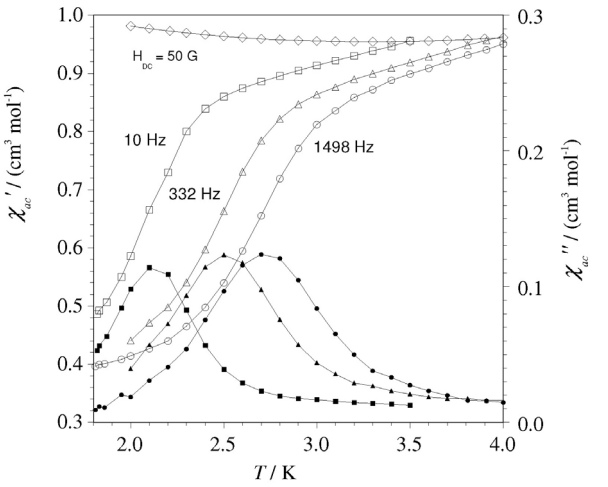

Figure S10. Field-cooled magnetization of **2** under an applied dc field of 50 G and temperature dependence of the in-phase (χ_M') and out-of-phase (χ_M") ac signals in zero applied static field and under 1 G oscillating field at different frequencies.

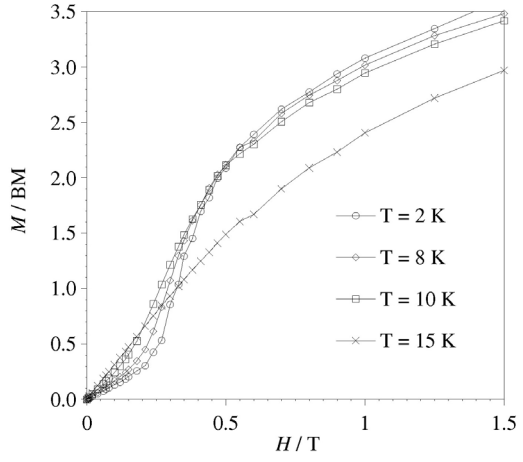

Figure S9. Magnetization isotherms for **3** at the indicated temperatures.

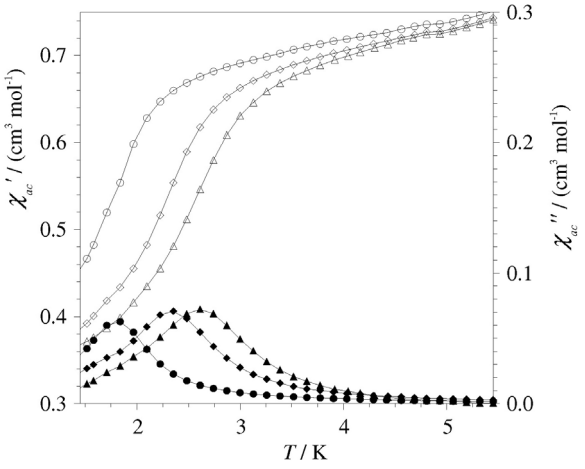

Figure S11. Temperature dependence of the in-phase (χ_M') and out-of-phase (χ_M") ac signals in zero applied static field and under 1 G oscillating field at different frequencies.

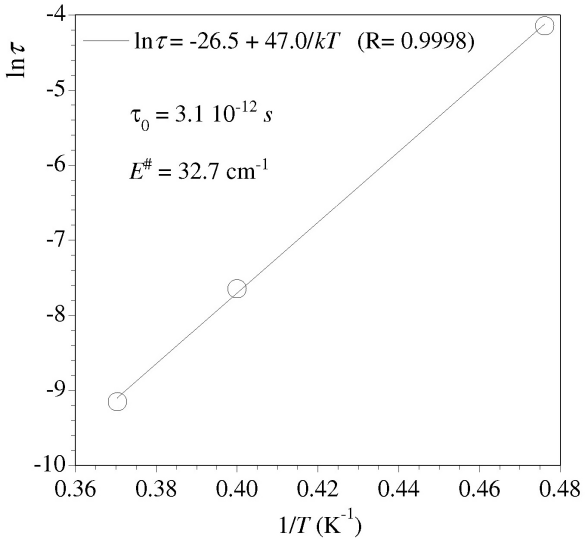

Figure S12. Arrhenius plot for **2**.

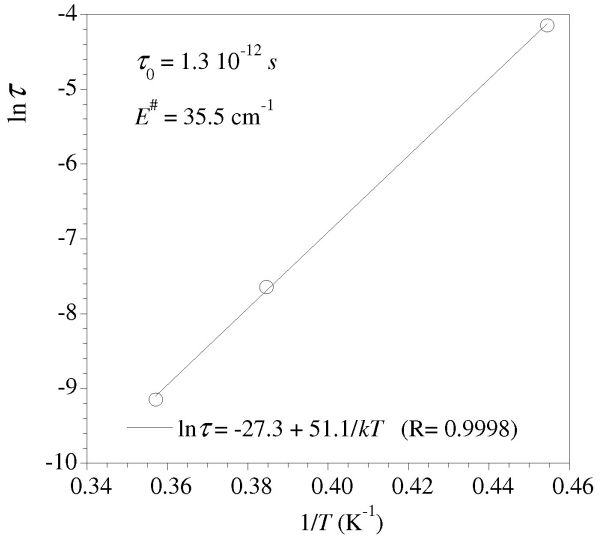

Figure S13. Arrhenius plot for **3**.