



**SUPPLEMENTAL FIGURE S1.**  $T_N$  behavior for  $\text{Fe}_2^{2+}\text{SiO}_4\text{-Mg}_2\text{SiO}_4$  olivines given by low-temperature  $C_p$  and magnetic susceptibility measurements. Black circles = Dachs et al. (2007) and red circles = Belley et al. (2009).