

Supporting Information

Characterization of the gel phases formed in the synthesis of microporous gallophosphate, cloverite

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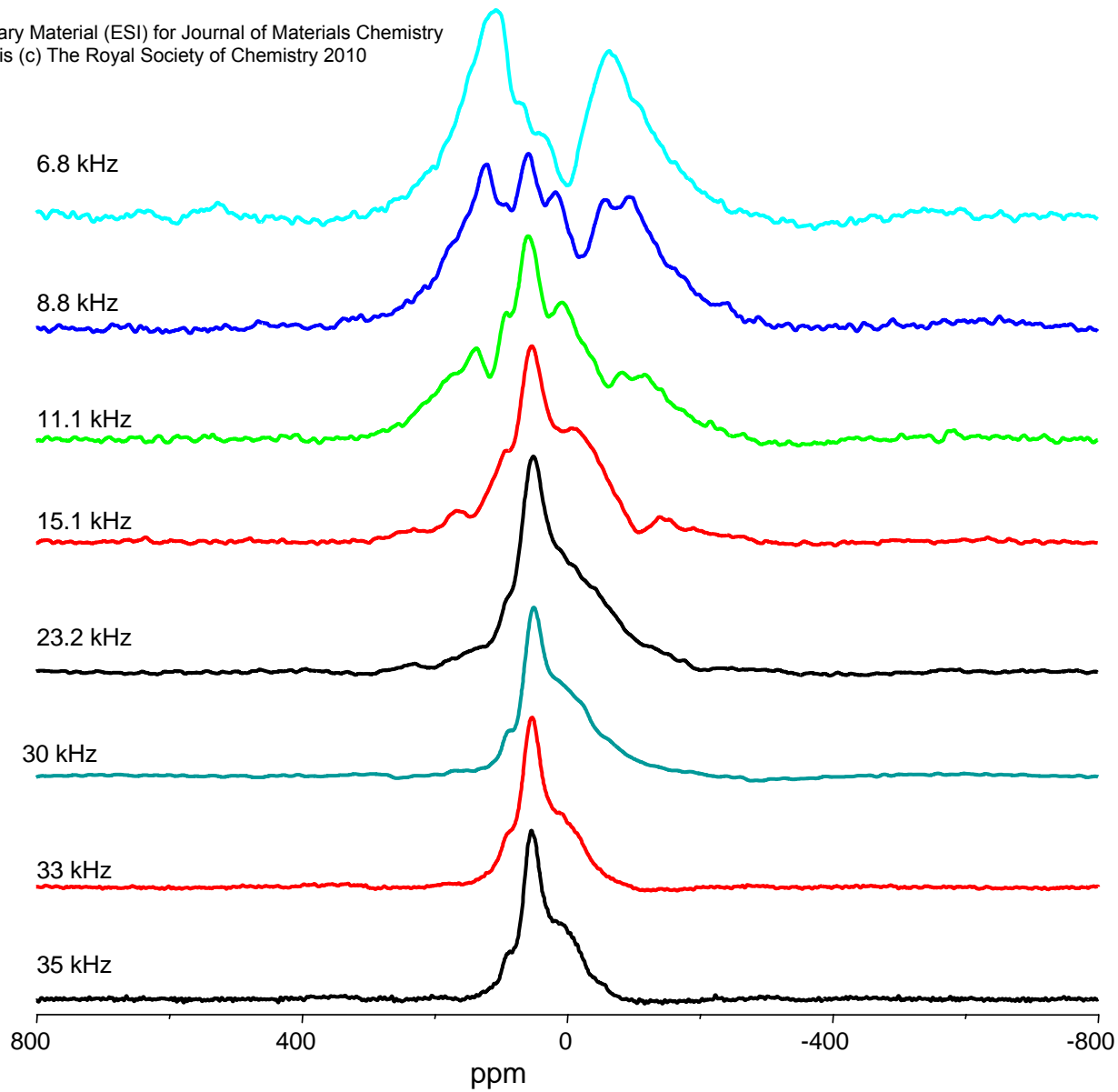


Figure S1 ^{71}Ga MAS NMR spectra of cloverite at 21.1 T with different spinning rates.
* denotes spinning sidebands.

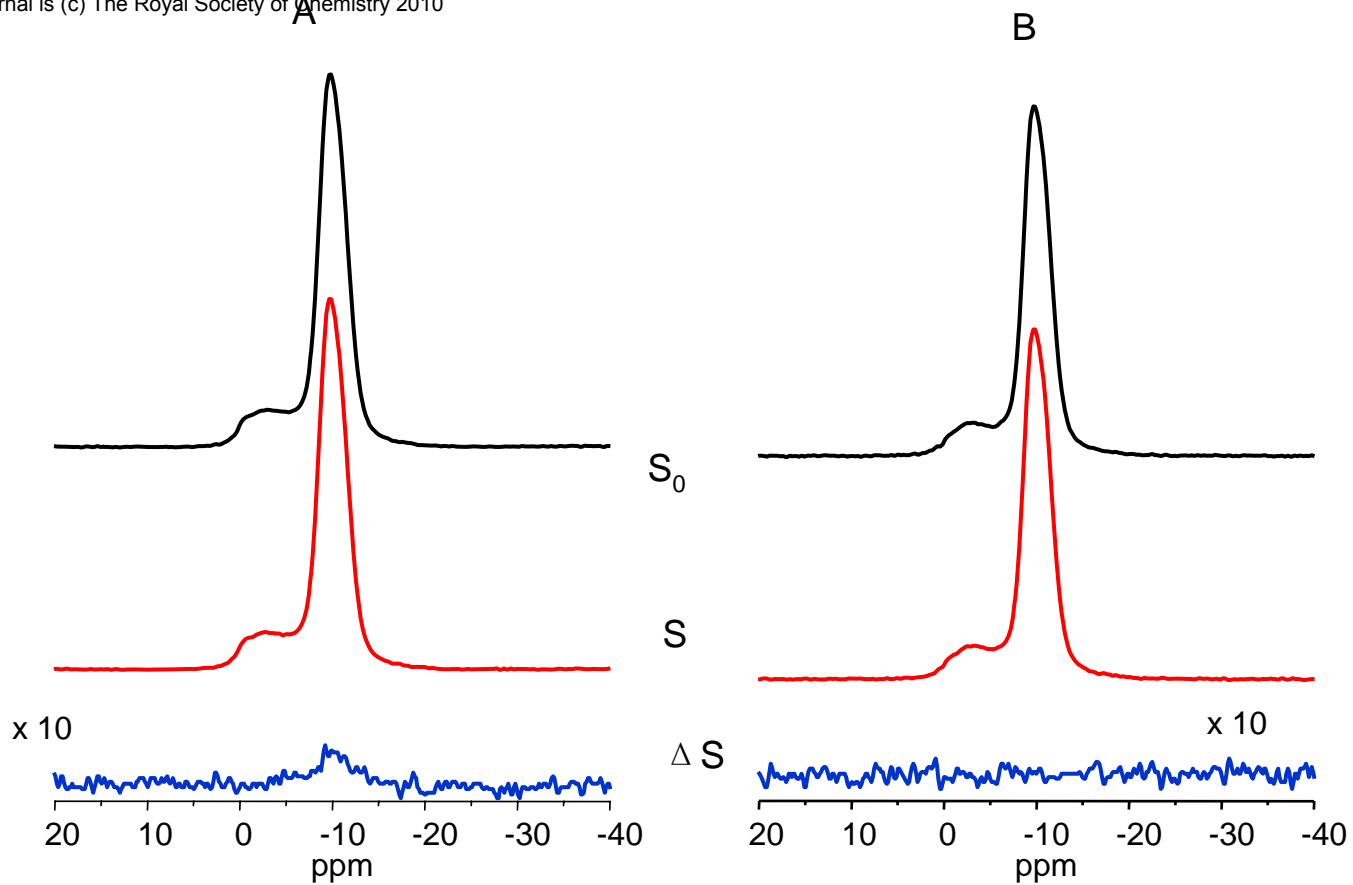


Figure S2 (A) $^{31}\text{P}\{^{71}\text{Ga}\}$ REAPDOR spectra of cloverite with a dephasing time of 0.2 ms; (B) corresponding null experiment

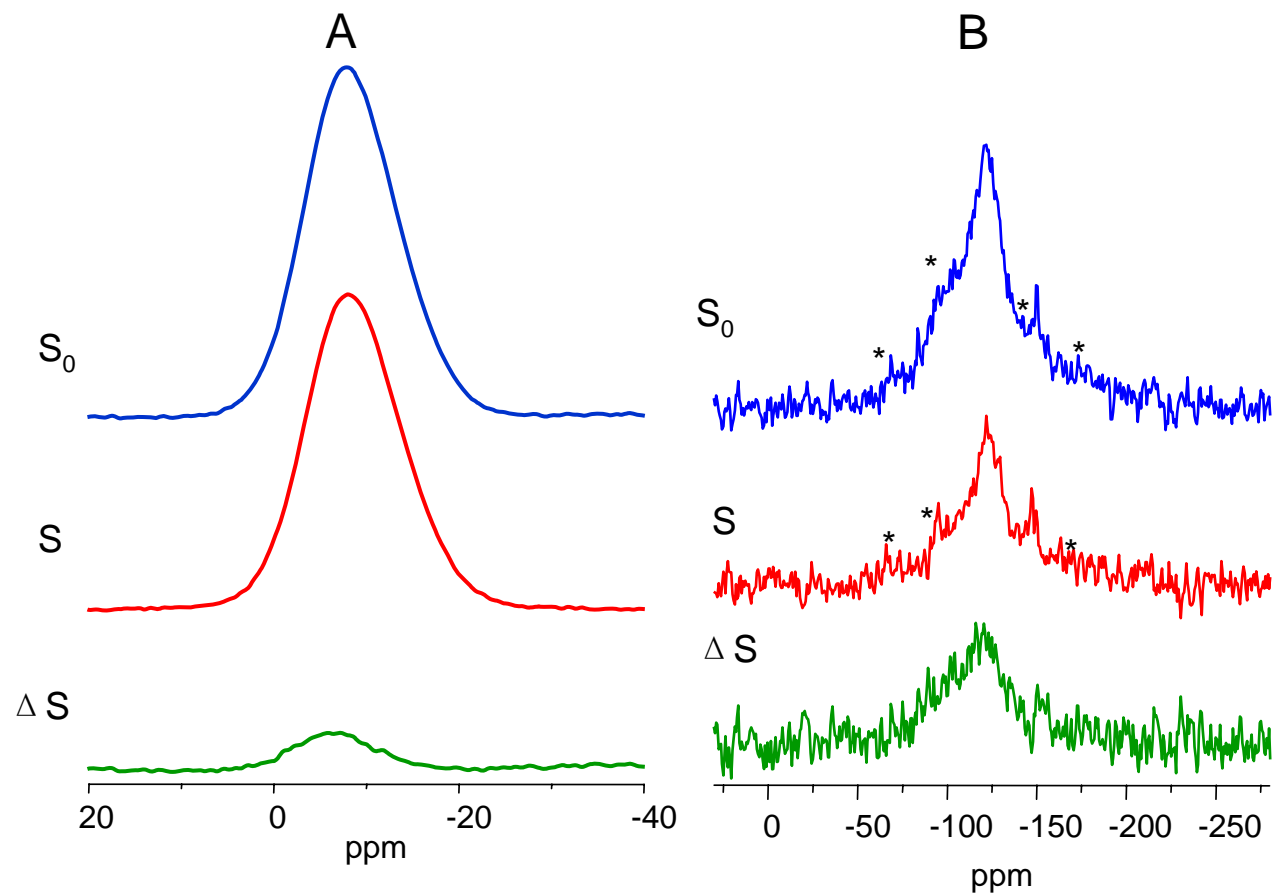


Figure S3 $^{31}\text{P}\{^{19}\text{F}\}$ REDOR (A) and $^{19}\text{F}\{^{31}\text{P}\}$ REDOR (B) spectra of the initial gel with a dephasing time of 0.4 ms. * denotes spinning sidebands.

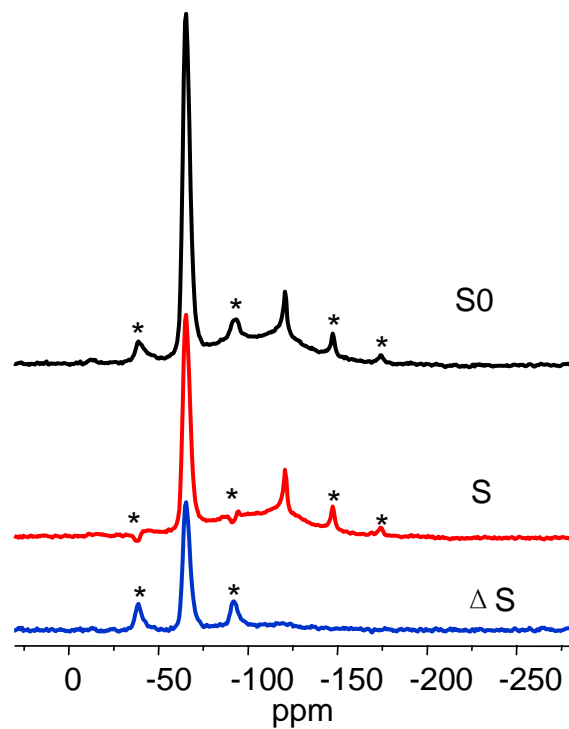


Figure S4 $^{19}\text{F}\{^{31}\text{P}\}$ REDOR spectra of the gel (18 h sample) with a dephasing time of 0.2 ms. * denotes spinning sidebands.

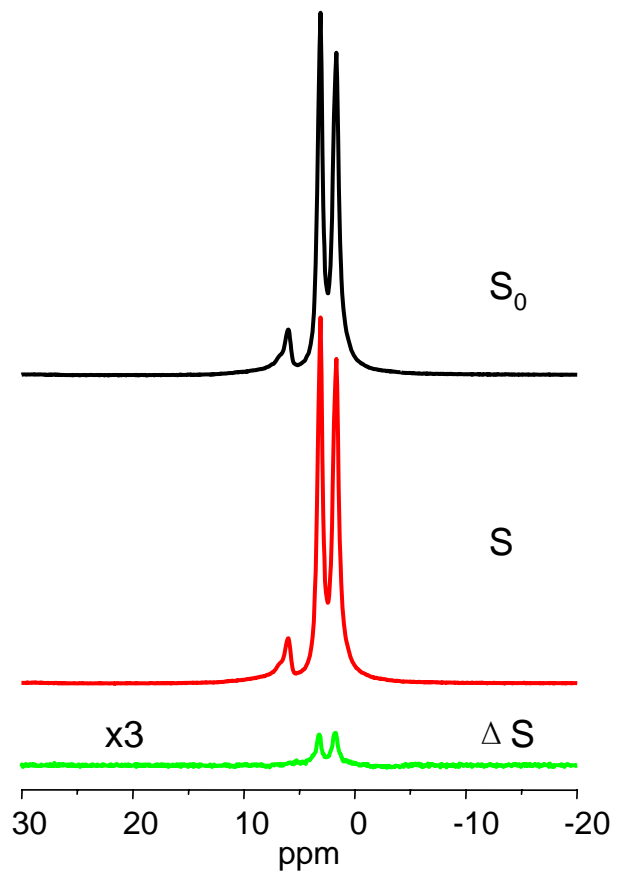


Figure S5 $^1\text{H}\{^{71}\text{Ga}\}$ TRAPDOR spectra of cloverite with a dephasing time of 0.133 ms

Table S1. Spectrometer parameters for REDOR, REAPDOR and TRAPDOR experiments

I{S} spin pair	90° pulse on I spin (μ s)	180° pulse on I spin (μ s)	180° pulse on S spin (μ s)	Irradiation field on S (kHz)	Recycle delay (s)	¹ H decoupling field (kHz)	Spinning speed (Hz)
³¹ P{ ¹⁹ F} ^a	5.0	10.0	11.2		180	50	10000 \pm 2
¹⁹ F{ ³¹ P} ^a	5.6	11.2	10		30	50	10000 \pm 2
¹ H{ ³¹ P} ^a	4	8	8		10	50	15000 \pm 2
³¹ P{ ⁷¹ Ga} ^b	5	10		100 kHz for $\tau_R/3$	100	50	10000 \pm 2
¹⁹ F{ ⁷¹ Ga} ^b	5	10		50 kHz for $\tau_R/2$	20	50	12000 \pm 2
¹ H{ ⁷¹ Ga} ^c	4	8		50	10	50	15000 \pm 2

^aREDOR; ^bREAPDOR, ^cTRAPDOR