

Supplementary Material for

Cellulose dissolution in mixtures of ionic liquids and dimethyl sulfoxide. Quantitative assessment of the relative importance of the temperature and composition of the binary solvent.

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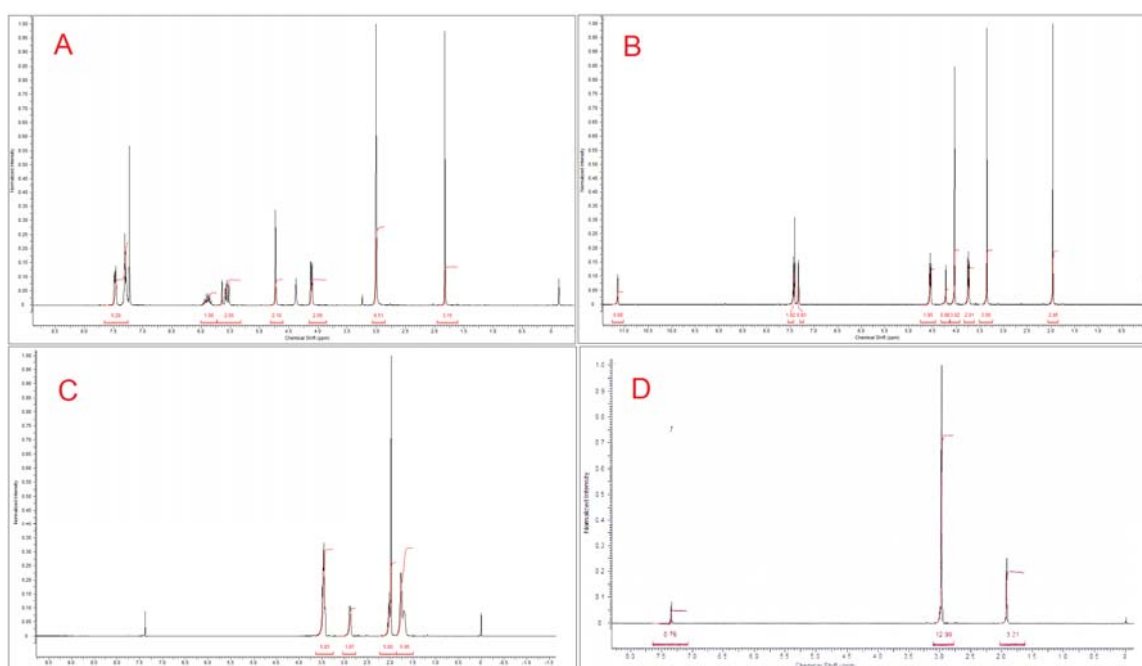


Figure S1. ^1H NMR spectra of the ionic liquids synthesized. All spectra (Varian Inova model YH300 spectrometer; 300 MHz for ^1H ; all ILs were dissolved in CDCl_3). The spectra are for allylbenzyltrimethylammonium acetate ($\text{AlBzMe}_3\text{N}^+\text{AcO}^-$), A; 1-(2-methoxyethyl)-3-methylimidazolium acetate ($\text{C}_3\text{OMeIm}^+\text{AcO}^-$), B; 1,8-diazabicyclo[5.4.0]undec-7-ene-8-ium acetate ($\text{DBUH}^+\text{AcO}^-$), C; and tetramethylguanidinium acetate ($\text{TMGH}^+\text{AcO}^-$), D.

Table S1. Experimental factorial planning 3^2 , and experiment repetitions. ^a

Entry	T, °C	DMSO
1	-1	-1
2	-1	-1
3	0	-1
4	1	-1
5	1	-1
6	-1	0
7	0	0
8	0	0
9	0	0

10	0	0
11	1	0
12	-1	1
13	-1	1
14	0	1
15	1	1
16	1	1

See text for definitions of $(-1, 0, 1)$. The randomized order of experiments was generated by the Statistica software, see Experimental for details.