

Table S1

(A) ¹H-NMR spectra of the investigated IL

¹ H NMR (δ, ×10 ⁻⁶) ^a					
ILs(CDCl ₃) ^b					
	[Simam][Cl]	[Simim][Cl]	[Siemp][Cl]	[Sitmg][Cl]	[SimpY][Cl]
1-H	1.23(t, 9H)	1.22(t, 9H)	1.22(m, 9H)	1.23(t, 9H)	1.23(t, 9H)
2-H	3.82(q, 6H)	3.83(q, 6H)	3.82(q, 6H)	3.83(q, 6H)	3.81(q, 6H)
3-H	0.64(t, 2H)	0.62(t, 2H)	0.75(t, 2H)	0.63(t, 2H)	0.75(t, 2H)
4-H	1.84(m, 2H)	2.01(m, 2H)	1.89(m, 2H)	1.84(m, 2H)	1.86(m, 2H)
5-H	3.54(t, 2H)	4.36(t, 2H)	3.54(t, 2H)	3.70(t, 2H)	3.51(t, 2H)
6-H	3.36(s, 6H)	10.6(s, 1H)	2.43(t, 2H)	6.31(s, 2H)	6.61(s, 1H)
7-H	3.72(t,3H)	7.37(s, 1H)	3.81(t, 2H)	-	6.12(s, 1H)
8-H	4.10(t, 2H)	7.60(s, 1H)	1.25(m, 2H)	3.07(s, 4H)	3.80(s, 3H)
9-H	5.87(s, 1H)	4.14(s, 1H)	1.10(t, 3H)	-	-

^a Note: ¹H-NMR chemical shifts are reported downfield from trimethylsilane (TMS). Multiplicities are abbreviated as s=singlet, d=doublet,

quart =quartet, t=triplet and m= multiplet.

^bThe eight ILs were recorded on Varian-INOVA 400 NMR spectrometry.

(B) ¹³C-NMR spectra of the investigated ILs

¹³ C NMR (δ, ×10 ⁻⁶) ^a					
ILs(CDCl ₃) ^b					
	[Simam][Cl]	[Simim][Cl]	[Siemp][Cl]	[Sitmg][Cl]	[SimpY][Cl]
1-C	6.883	7.028	7.982	7.364	8.020
2-C	58.58	58.52	58.40	58.39	58.42
3-C	51.82	36.49	47.45	40.36	36.04
4-C	18.23	24.30	18.22	18.22	18.24
5-C	55.80	51.66	52.71	57.72	47.47
6-C	16.66	138.1	53.27	-	121.61
7-C	65.75	121.6	66.89	161.6	108.13
8-C	67.59	123.4	26.43	40.08	26.48
9-C	-	18.20	11.58	-	-

^a Note: ¹³C-NMR chemical shifts are reported downfield from trimethylsilane (TMS).

^b The eight ILs were recorded on Varian-INOVA 400 NMR spectrometry.