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## **Supplementary information**

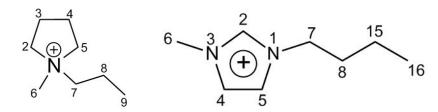


Fig. S1 Chemical structures of  $[C_1C_3pyrr^+]$  and  $[C_4mim^+]$  cations with numbering of carbon atoms.

N° C	Number of protons	Multiplicity	Chemical shift (ppm)
2-5	2 x 2	multiplet	3.49
7	2	triplet	3.28
6	3	singlet	3.03
3-4	2 x 2	multiplet	2.20
8	2	multiplet	1.81
9	3	triplet	0.97

**Table S1** Peak assignments of the  $^1\text{H-NMR}$  spectrum of  $[C_1C_3pyrr^*]$  cation.