Neutron Diffraction, NMR and Molecular Dynamics Study of Glucose Dissolved in the Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate


**Supporting Information**

**Figure S1** Partial radial distribution functions between glucose oxygen atoms and aromatic protons of the [C$_2$ mim] cation in the 6:1 mole ratio system. Individual oxygen atoms are ring oxygen OG (black), O1 (green), O2 (blue), O3 (yellow), O4 (brown), and O6 (red).
Figure S2 NOESY spectrum of fully protiated 6:1 mixture of [C₅mim][OAc]:glucose. The mixing time employed was 40 ms.

Figure S3 Centre-of-mass RDFs between glucose molecules and ionic liquid ions for 4:1 (red), 6:1 (black), 8:1 (green) and 10:1 (blue) mole ratios of ionic liquid:glucose.
Figure S4  Spatial distributions of anions (red) and cations (blue) around a central cation in the pure liquid (left) and 6:1 ionic liquid:glucose system (right). Isosurfaces are drawn to encompass six times the bulk density of anions and two times the bulk density of cations.