Dimethyl sulfoxide enhances both cellulose dissolution ability and biocompatibility of a carboxylate-type liquid zwitterion

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## **Electronic Supplementary Information for**

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Fig. S1 shows concentration of  $OE_2imC_3C$  and DMSO in the  $OE_2imC_3C/DMSO$  mixtures at  $EC_{50}$ . While this figure is basically the same as Fig. 2(c) that mentions  $EC_{50}$  of the  $OE_2imC_3C/DMSO$  mixture, in this figure, concentration of  $OE_2imC_3C$  and DMSO was shown separately. For example,  $EC_{50}$  of  $OE_2imC_3C/DMSO$  (80/20) was 216 g/L, arising from 173 g/L of  $OE_2imC_3C$  and 43 g/L of DMSO.



Fig. S1 Concentration of OE<sub>2</sub>imC<sub>3</sub>C and DMSO in the OE<sub>2</sub>imC<sub>3</sub>C/DMSO mixtures at EC<sub>50</sub>.