

Supplementary Material

Effect of Alkyl Chain Length in Anion on Physicochemical Properties of Cellulose-Dissolving Protic Ionic Liquids

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The melting temperature (T_m) was measured using DSC (DSC7020, Hitachi High-Technologies) in the range of -100 and 100 °C at the heating and cooling rates of 10°C min⁻¹, and nitrogen gas flow rates of 40 mL min⁻¹. The samples were tightly sealed in Al pans under Ar atmosphere in a dry glove box.

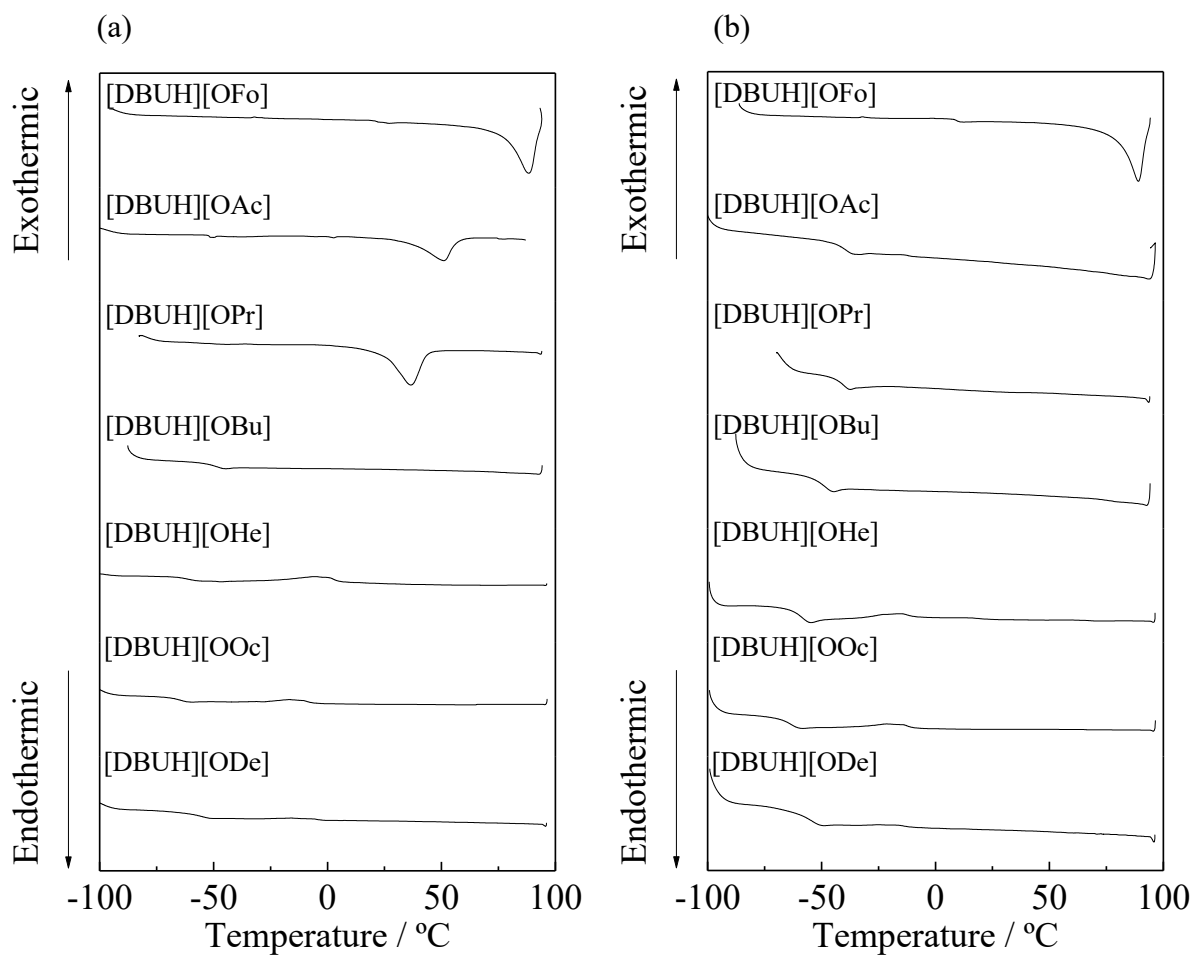


Figure S1 DSC curves of the PILs. (a) 1st heating; (b) 2nd heating.

The 5% weight loss temperature ($T_{d-5\%}$) was measured using thermogravimetry (TG-DTA7200, Hitachi High-Technologies). The samples were heated from room temperature to 500 °C at a scan rate of 20 °C min⁻¹ and nitrogen gas flow rates of 200 mL min⁻¹.

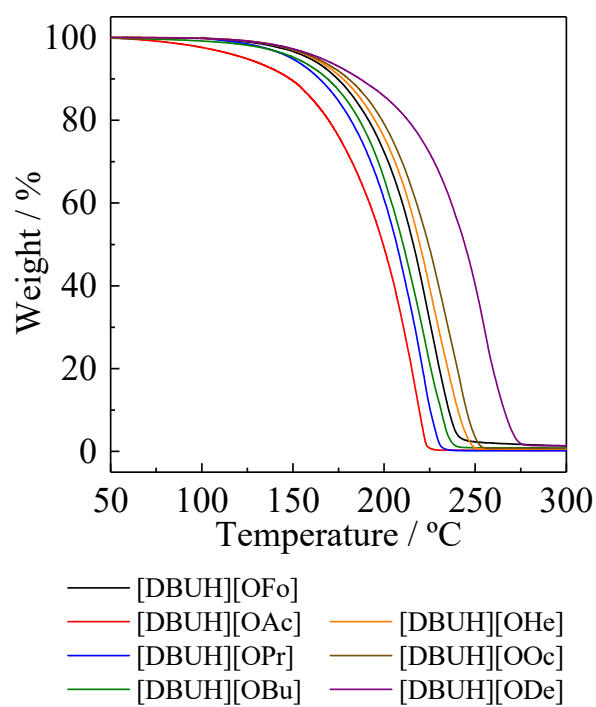


Figure S2 TG curves of the PILs.