

Low-temperature heat capacities of 1-alkyl-3-methylimidazolium bis(oxalato)borate ionic liquids and the influence of anion structural characteristics on thermodynamic properties

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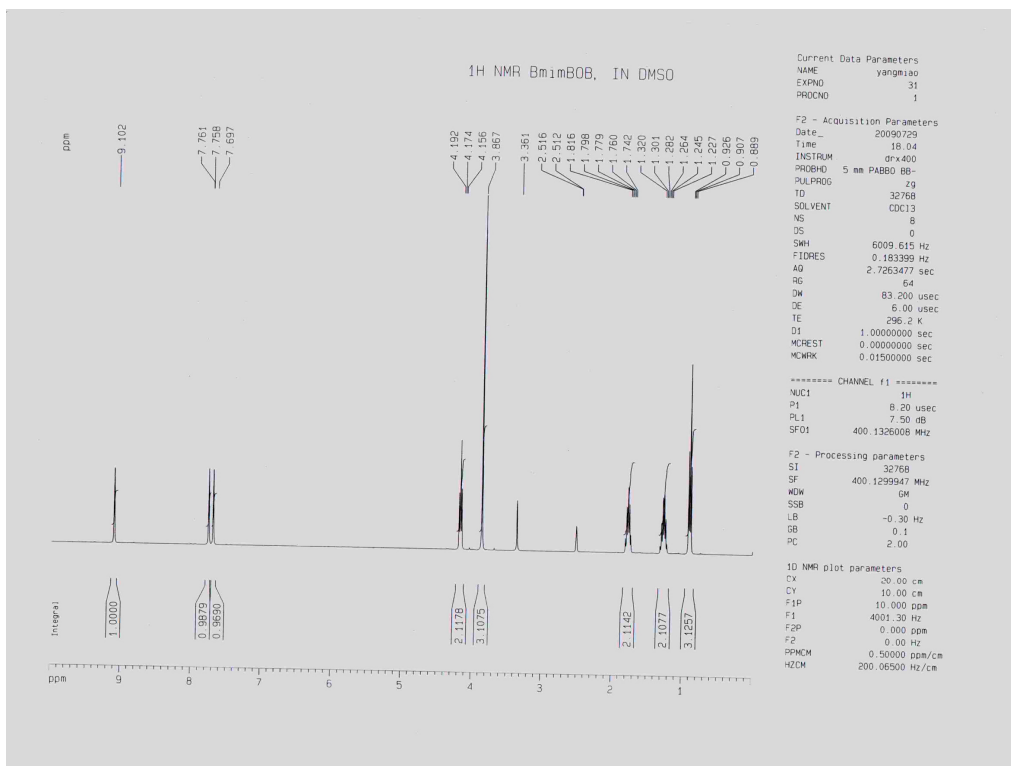


Fig. S1 ¹H NMR of [Bmim][BOB]

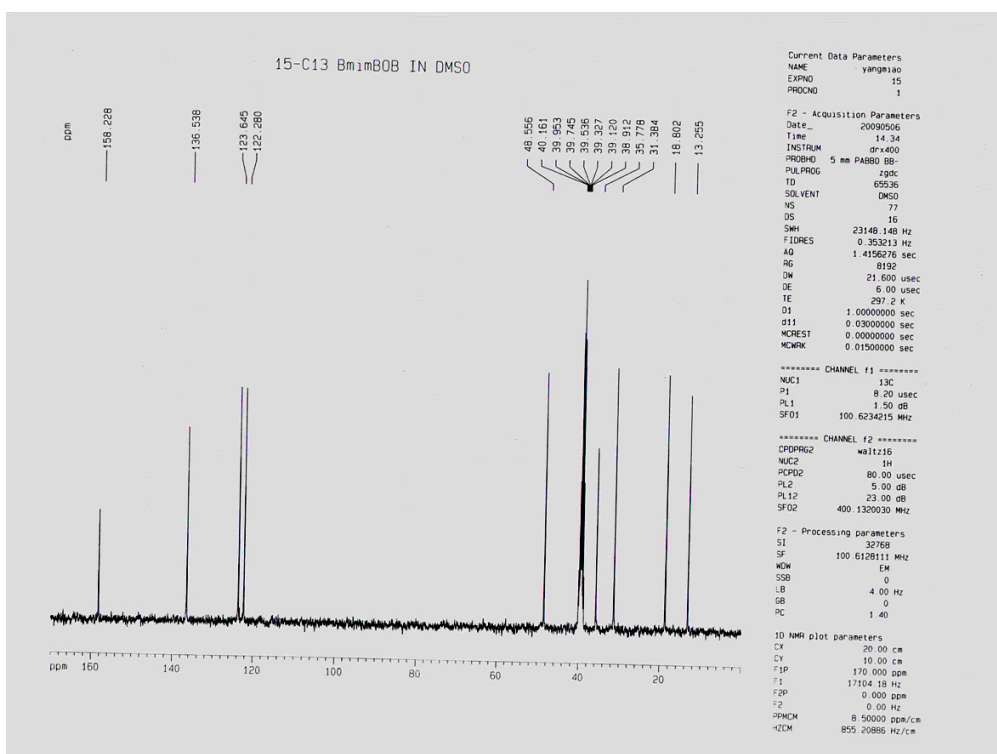


Fig. S2 ¹³C NMR of [Bmim][BOB]

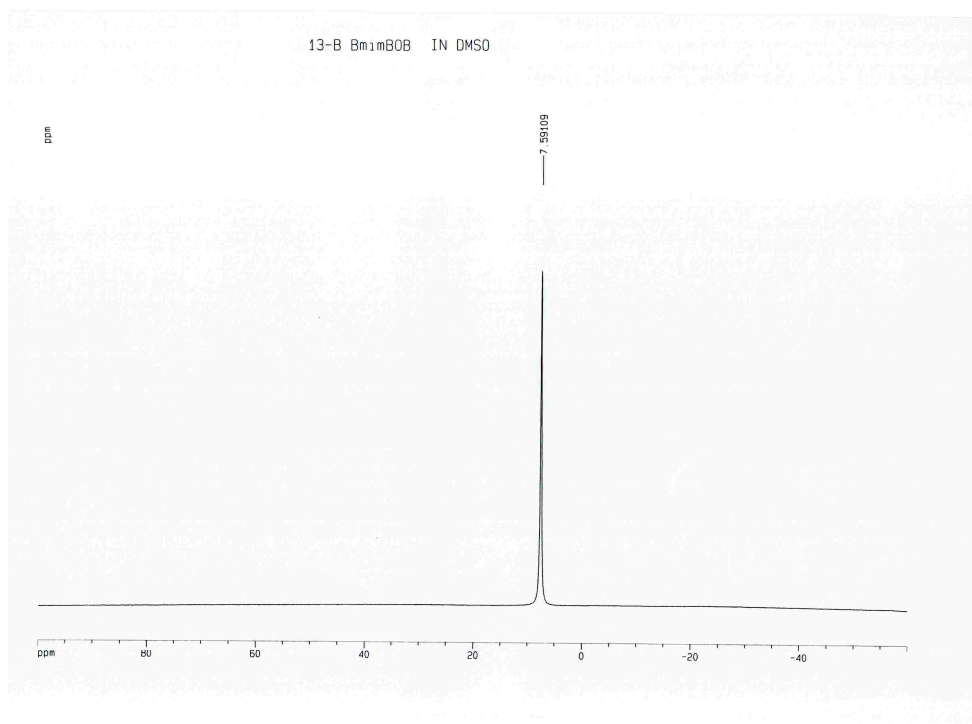


Fig. S3 ^{13}B NMR of [Bmim][BOB]

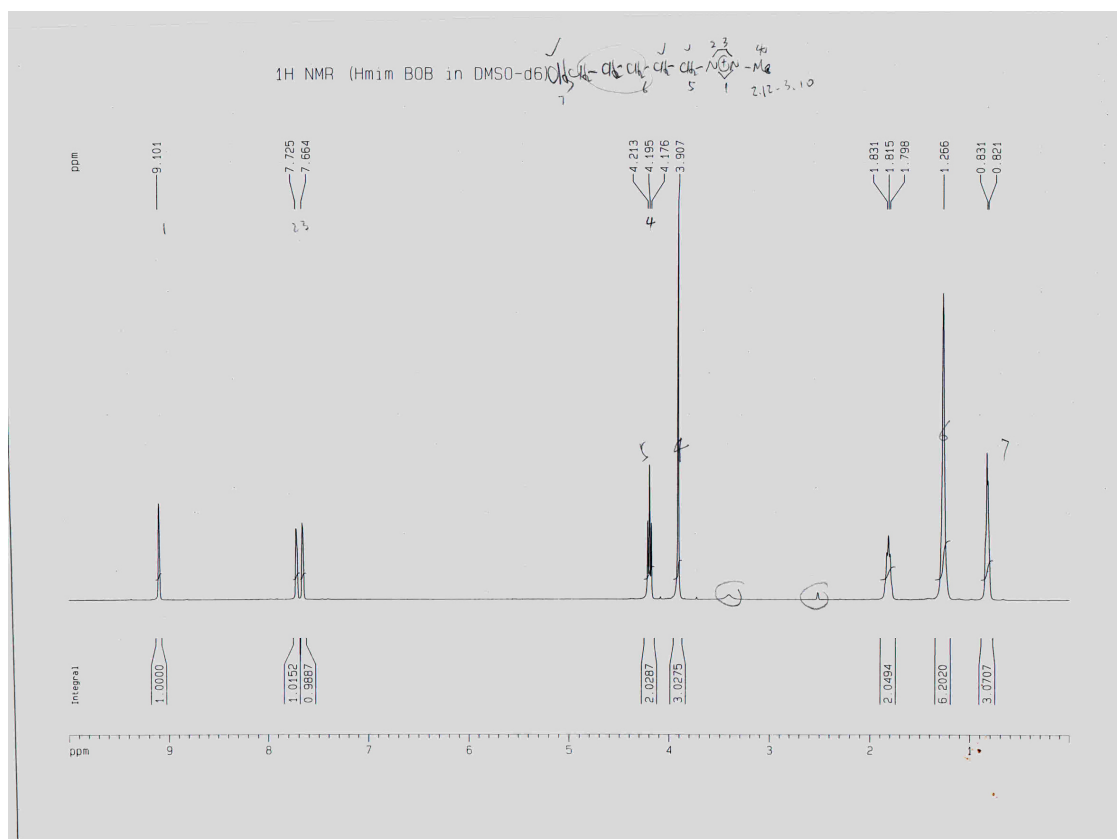


Fig. S4 $^1\text{H NMR}$ of [Hmim][BOB]

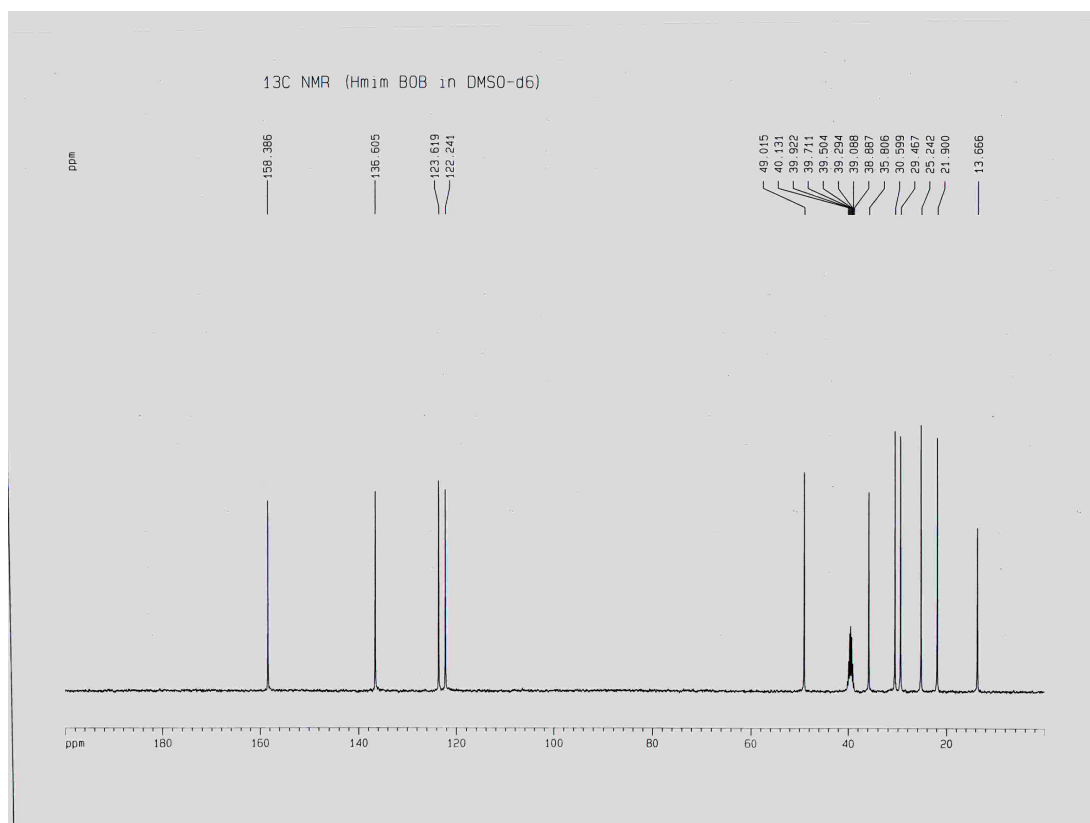


Fig. S5 ^{13}C NMR of [Hmim][BOB]

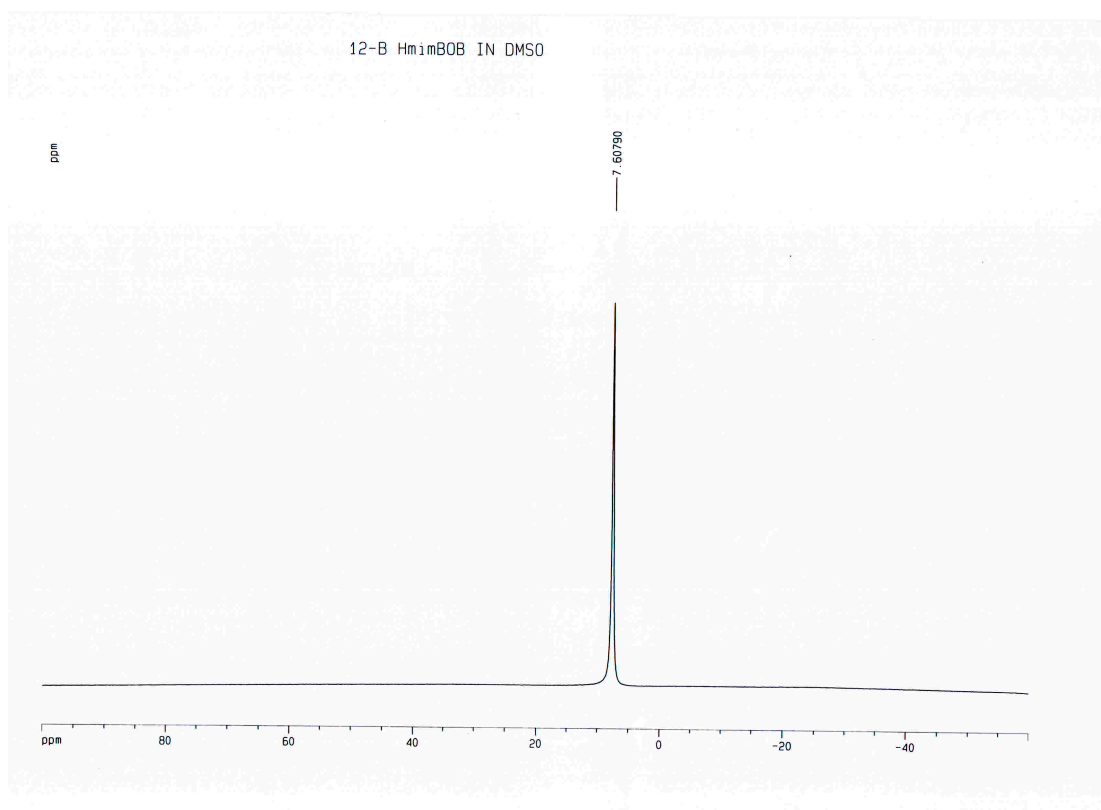


Fig. S6 ^{11}B NMR of [Hmim][BOB]

The TG measurements were carried out by using a Netzsch differential scanning calorimeter (model: STA449F3). The experimental curves, as seen in Figure S7 and S8, show that the decomposition temperature of [Bmim][BOB] is around 259 °C and that of [Hmim][BOB] is 235 °C.

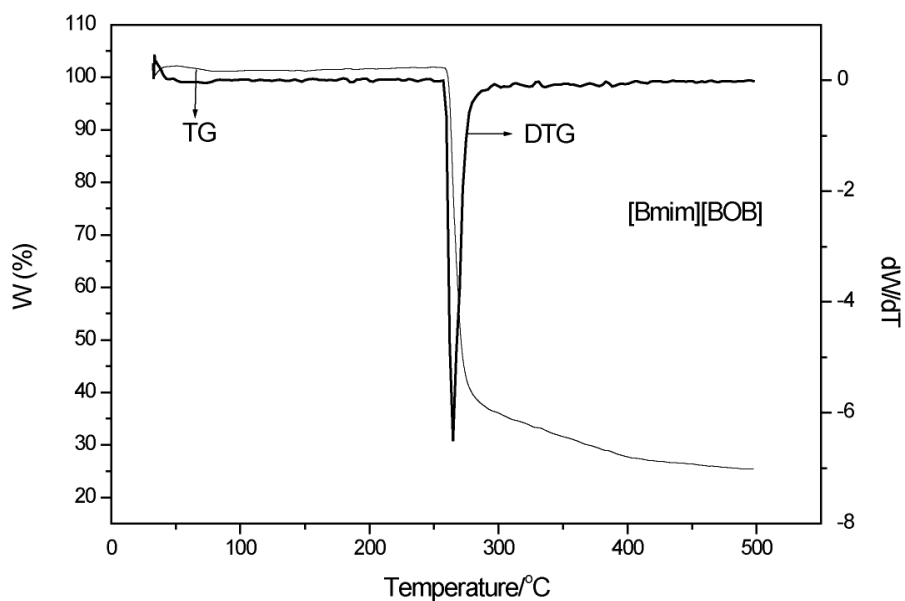


Fig. S7 TG and DTG curves of [Bmim][BOB]

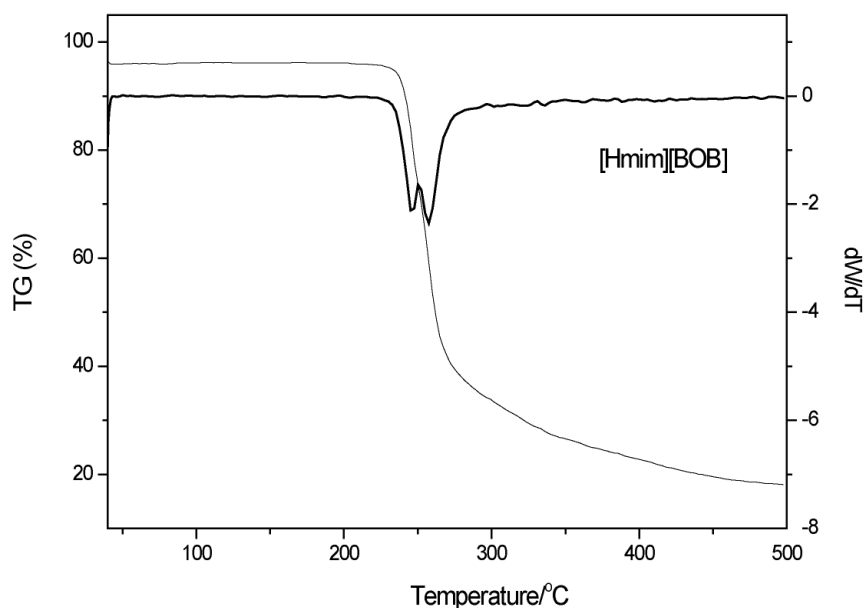


Fig. S8 TG and DTG curves of [Hmim][BOB]