

Supporting information

**Liquid-liquid extraction of neodymium(III) by dialkylphosphate ionic liquids from
acidic medium: the importance of the ionic liquid cation**

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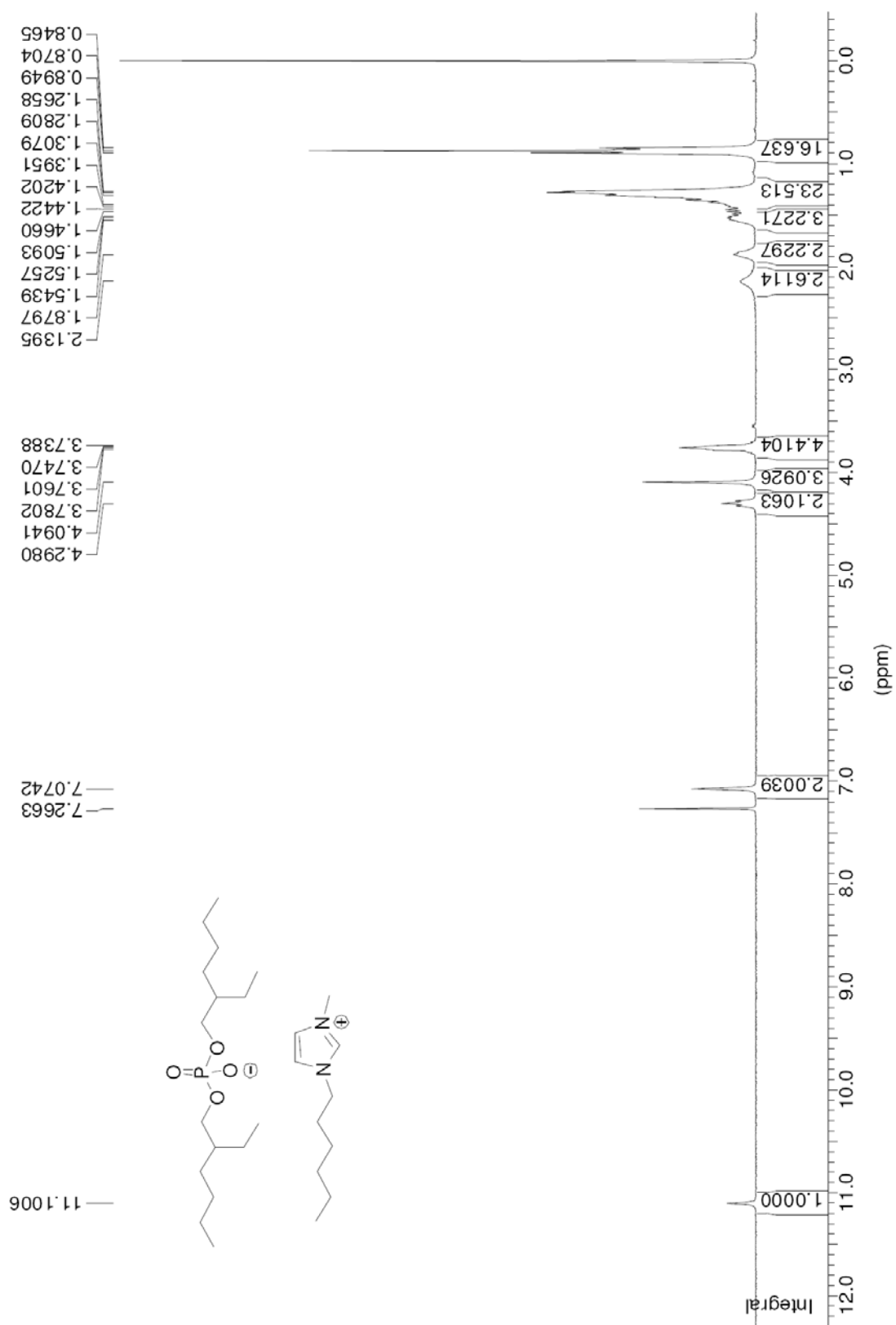


Figure S1. ¹H NMR spectrum of [C₆mim][DEHP].

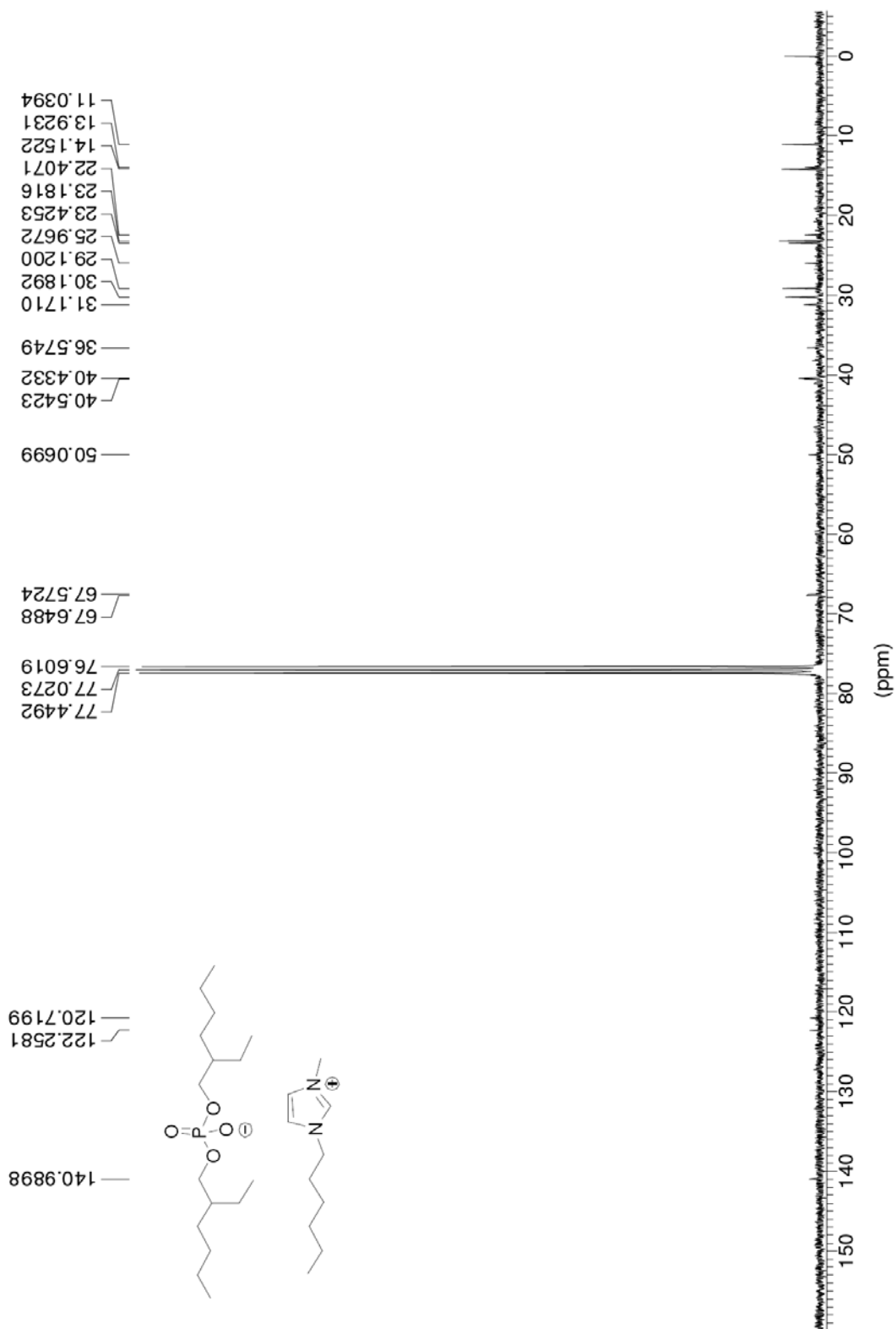


Figure S2. ^{13}C NMR spectrum of [C₆mim][DEHP].

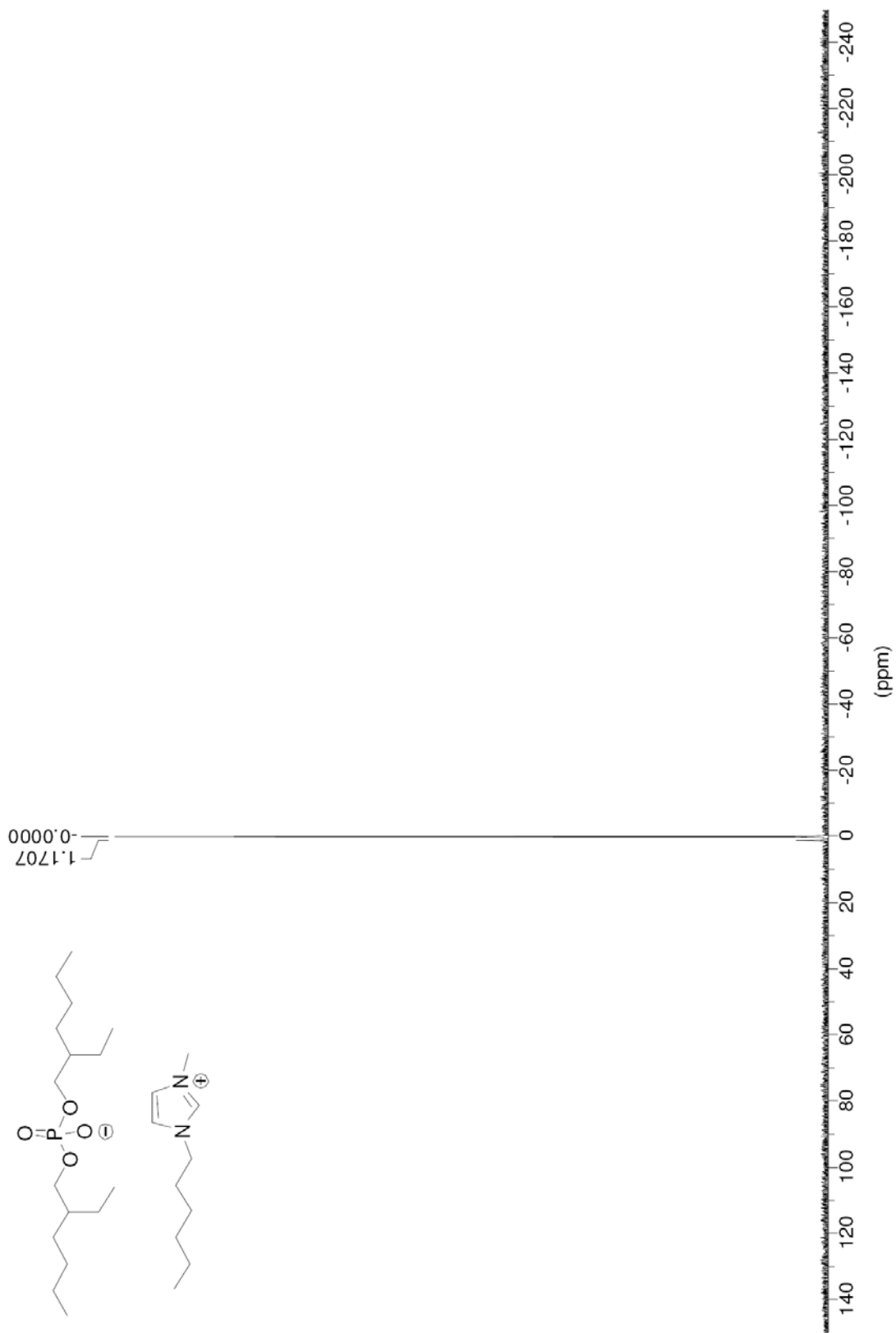


Figure S3. ³¹P NMR spectrum of [C₆mim][DEHP].

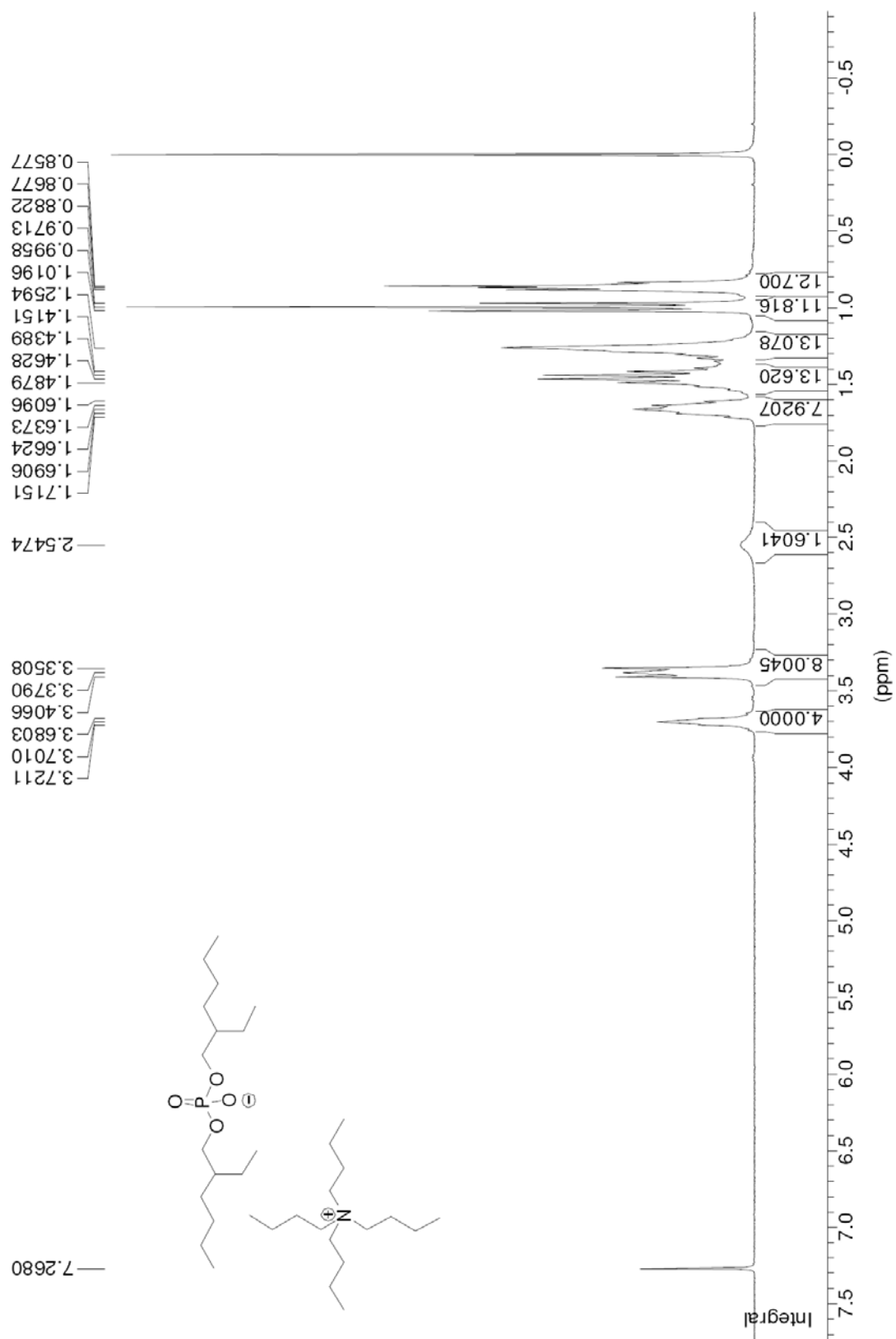


Figure S4. ¹H NMR spectrum of [N₄₄₄₄][DEHP].

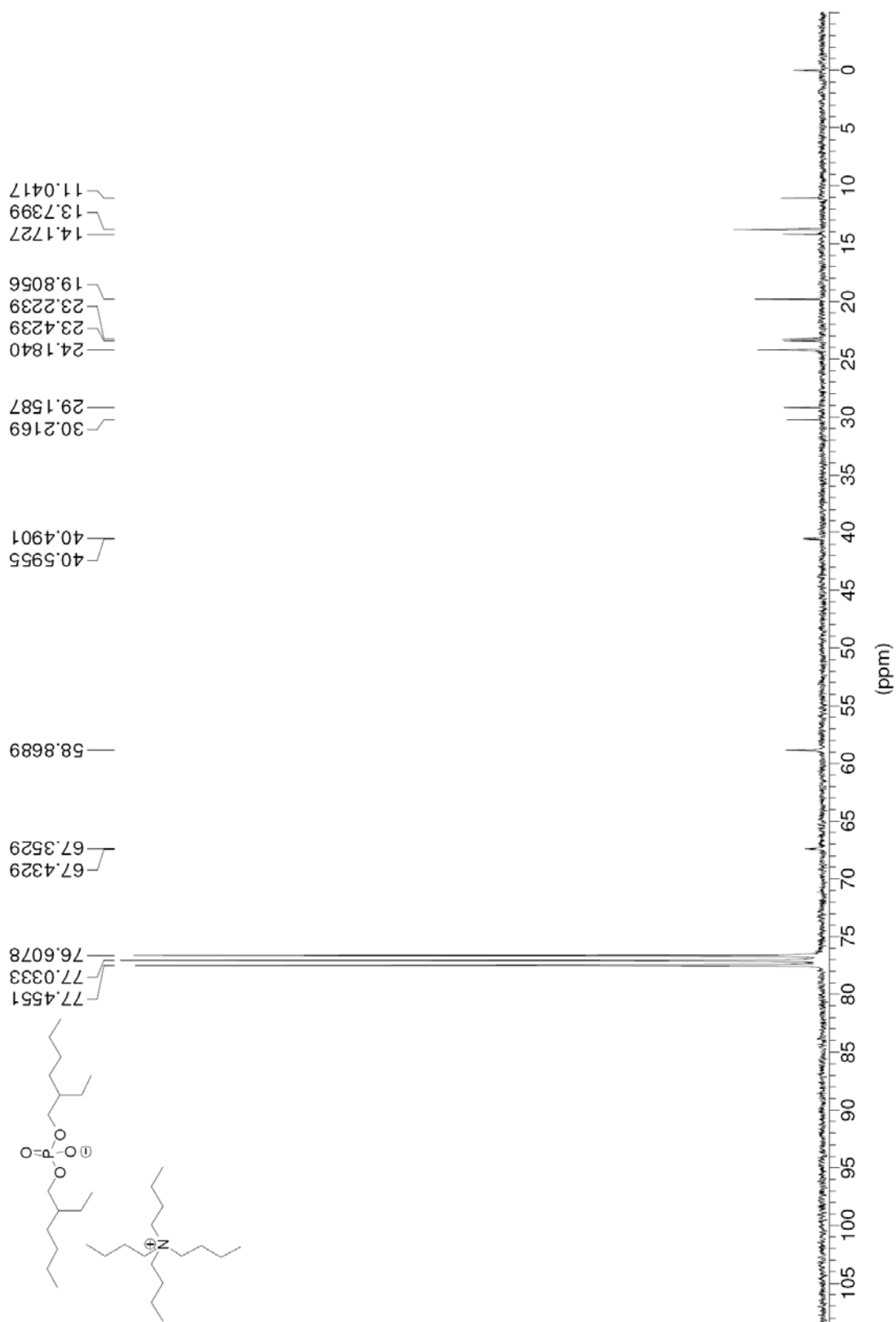


Figure S5. ^{13}C NMR spectrum of [N₄₄₄₄][DEHP].

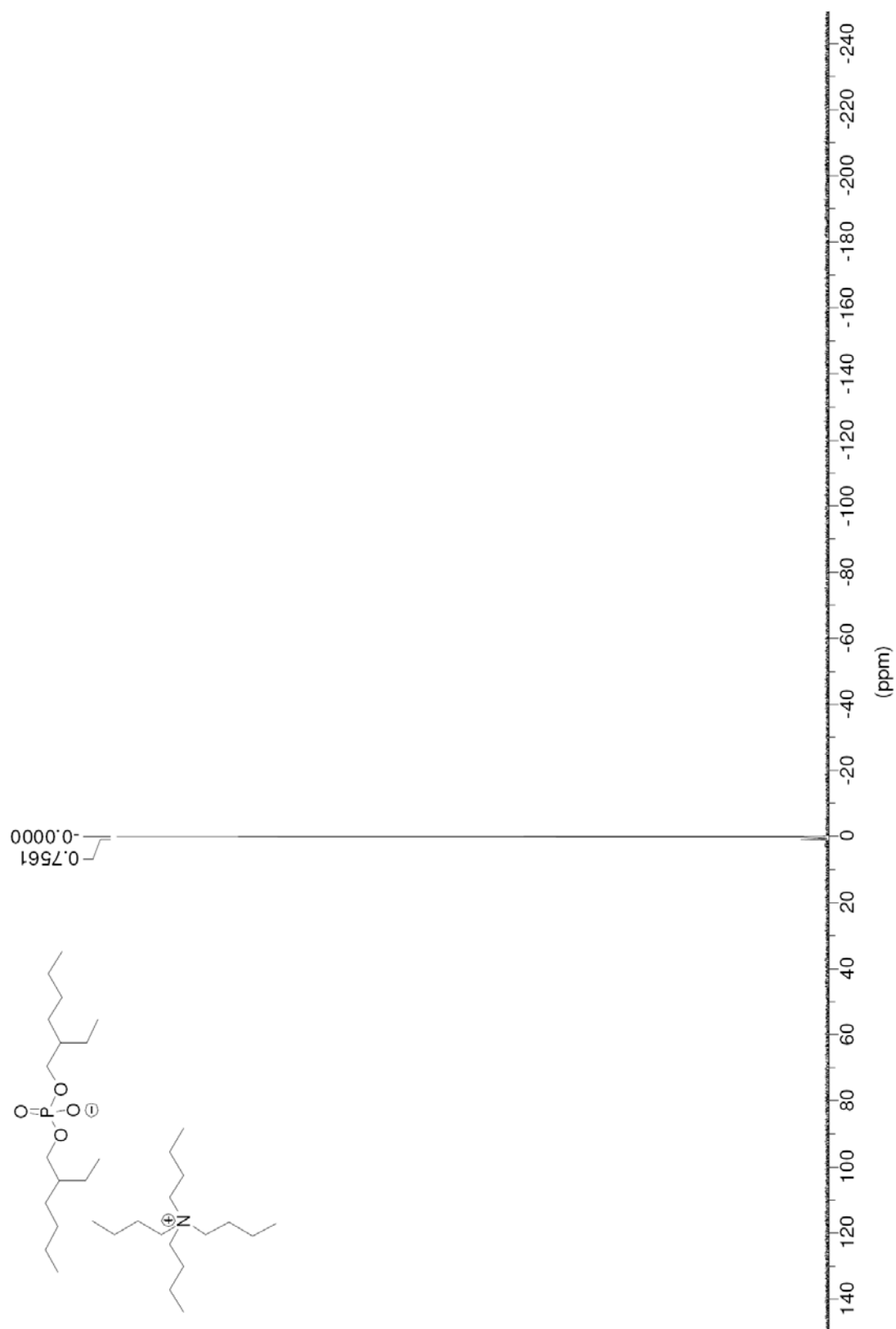


Figure S6. ^{31}P NMR spectrum of $[\text{N}_{4444}][\text{DEHP}]$.

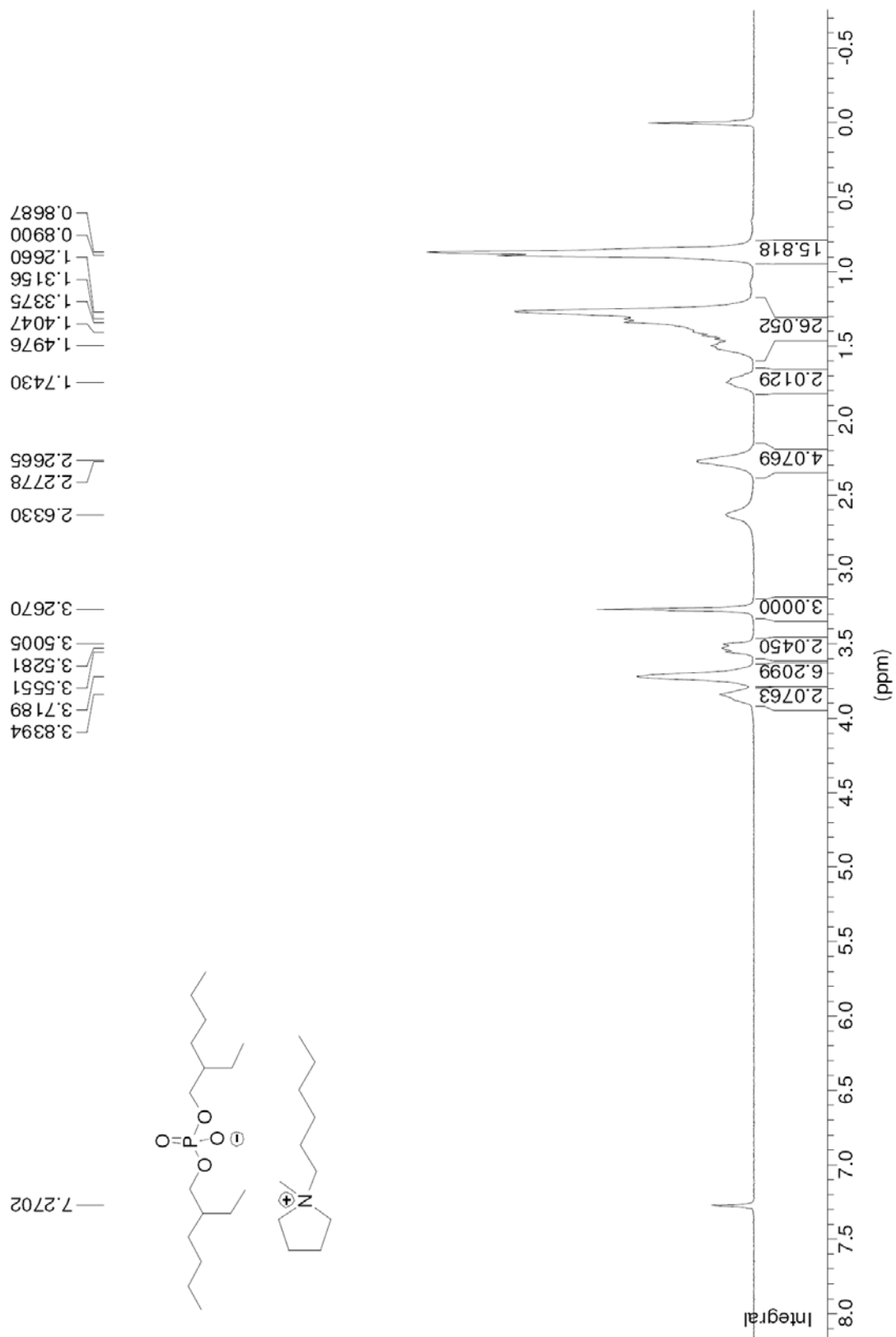


Figure S7. ^1H NMR spectrum of $[\text{C}_6\text{mpyr}][\text{DEHP}]$.

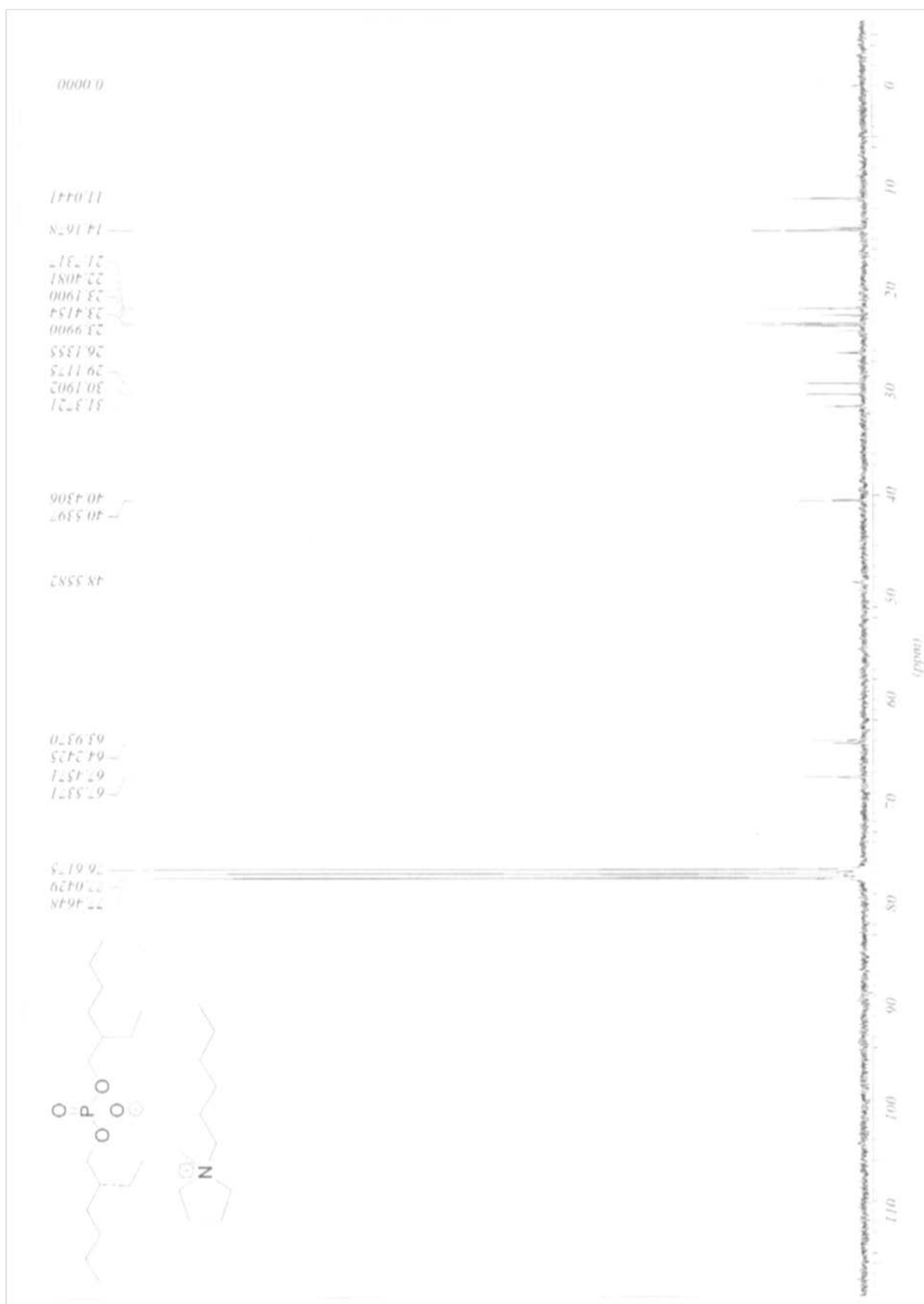


Figure S8. ^{13}C NMR spectrum of [C₆mpyr][DEHP].

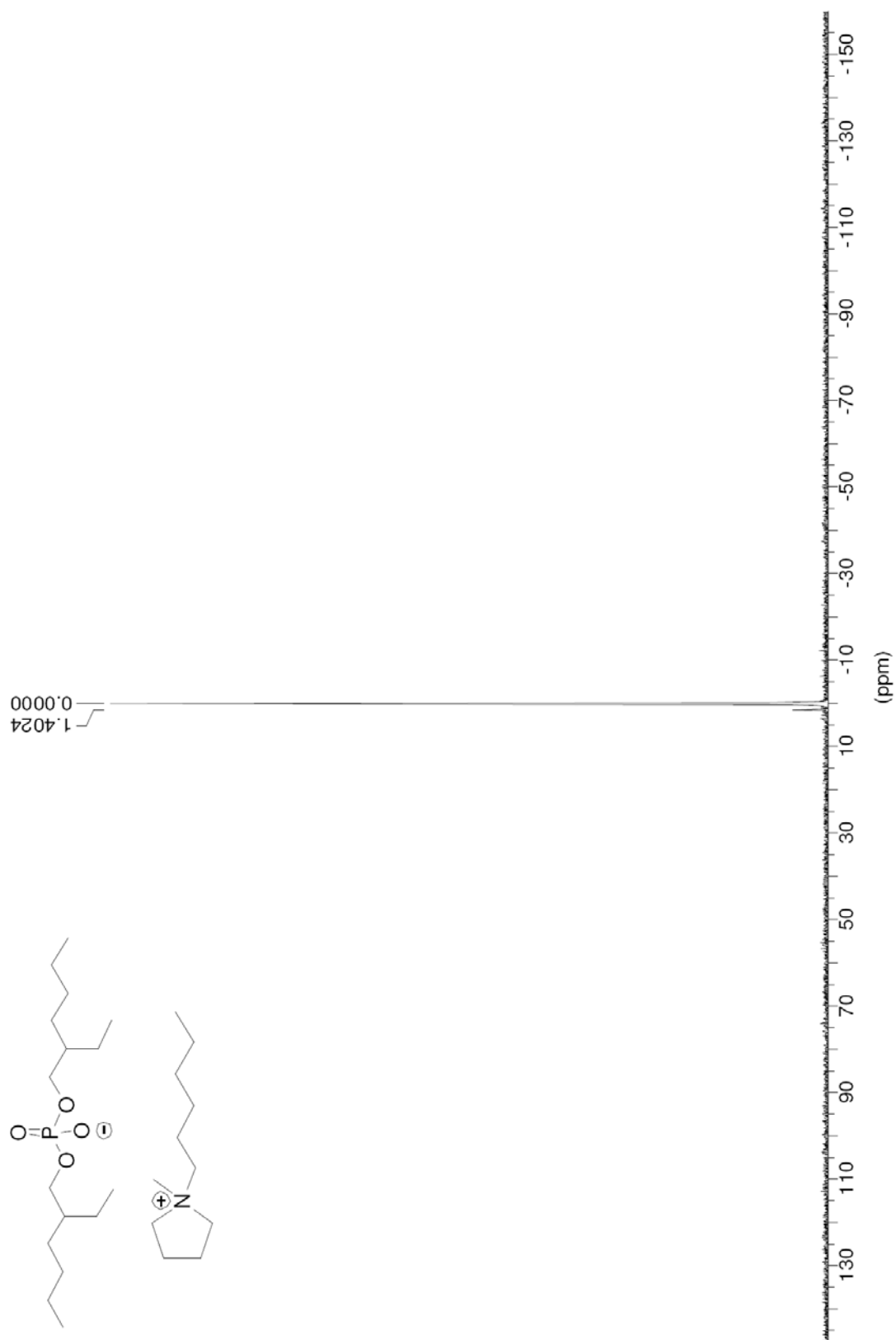


Figure S9. ³¹P NMR spectrum of [C₆mpyr][DEHP].