Supporting Information for:

Solvent-Modulated Reactivity of PCl₃ with Amines

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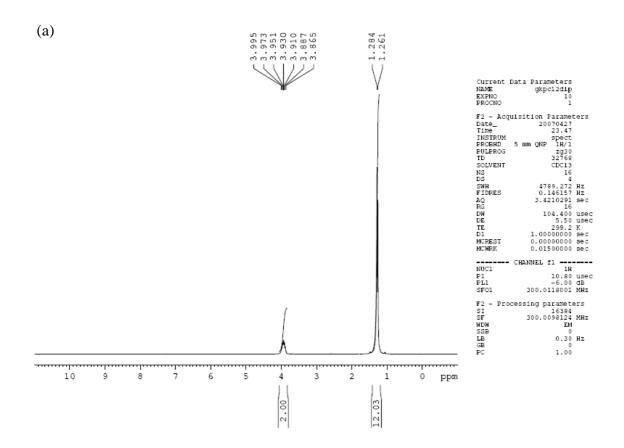
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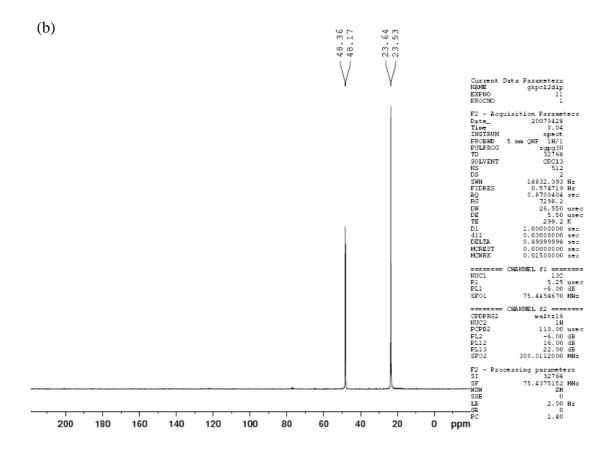
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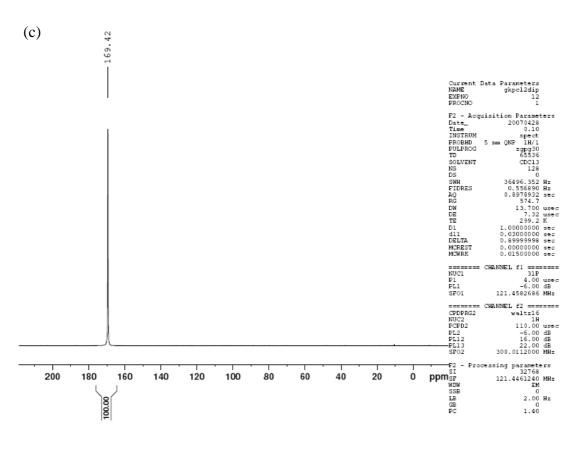
Figure S1

(a) ¹H NMR, (b) ¹³C NMR and ³¹P NMR spectra following the reaction 0.4 mol of distilled diisopropylamine (56.10 cm³) and 0.4 mol of distilled ethyldiisopropylamine (Hünig's base, 69.68 cm³) with 0.4 mol of PCl₃ (34.90 cm³) in [C₄mim][NTf₂] under argon and subsequent isolation of dichloro diisopropylaminophosphine at 20°C.



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Figure S2 A comparison of the reaction mixture following the reaction of PCl_3 (0.0008 mol) with diisopropylamine (0.0008 mol) in the presence of Hünig's base (0.0008 mol) and either 1.5 cm³ (a) hexane (0.011 mol) or (b) $[C_4mpyrr][NTf_2]$ (0.005 mol) at 20 °C.



