Supplementary Information

N-(diisopropylphosphanyl)benzamide

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Table S1. Crystal data and structure refinement for compound **1**

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Empirical formula	$C_{13}H_{20}NOP$
Formula weight	237.27
Temperature	193(2) K
Wavelength	0.71073 Å
Crystal system	Monoclinic
Space group	$P2_1/c$
Unit cell dimensions	a = 15.482(3) Å $\quad$ α= 90°.
	b = 8.741(2) Å $\quad$ β= 98.382(10)°.
	c = 10.260(2) Å $\quad$ γ = 90°.
Volume	1373.7(5) Å^3
Z	4
Density (calculated)	1.147 Mg/m^3
Absorption coefficient	0.182 mm^{-1}
F(000)	512
Crystal size	0.100 x 0.080 x 0.050 mm^3
Theta range for data collection	2.660 to 25.245°.
Index ranges	-18<=h<=18, -9<=k<=10, -12<=l<=11
Reflections collected	2489
Independent reflections	2489 [R(int) = 0.0843]
Completeness to theta = 25.242°	99.9 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.7460 and 0.6523
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	2489 / 291 / 183
Goodness-of-fit on F^2	1.113
Final R indices [I>2sigma(I)]	R1 = 0.0864, wR2 = 0.1842
R indices (all data)	R1 = 0.1289, wR2 = 0.2003
Extinction coefficient	n/a
Largest diff. peak and hole	0.380 and -0.322 e.Å^{-3}
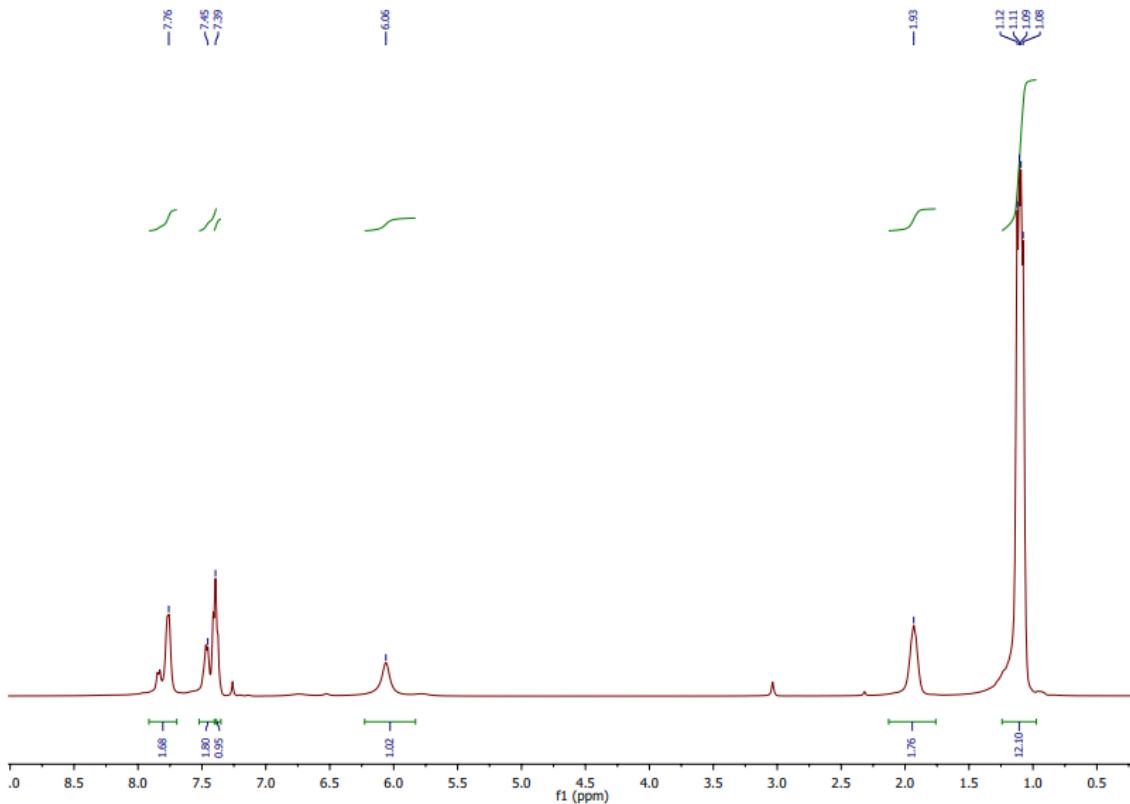
Figure S1. ^{1}H NMR spectrum of **1** (400 MHz, CDCl$_3$).
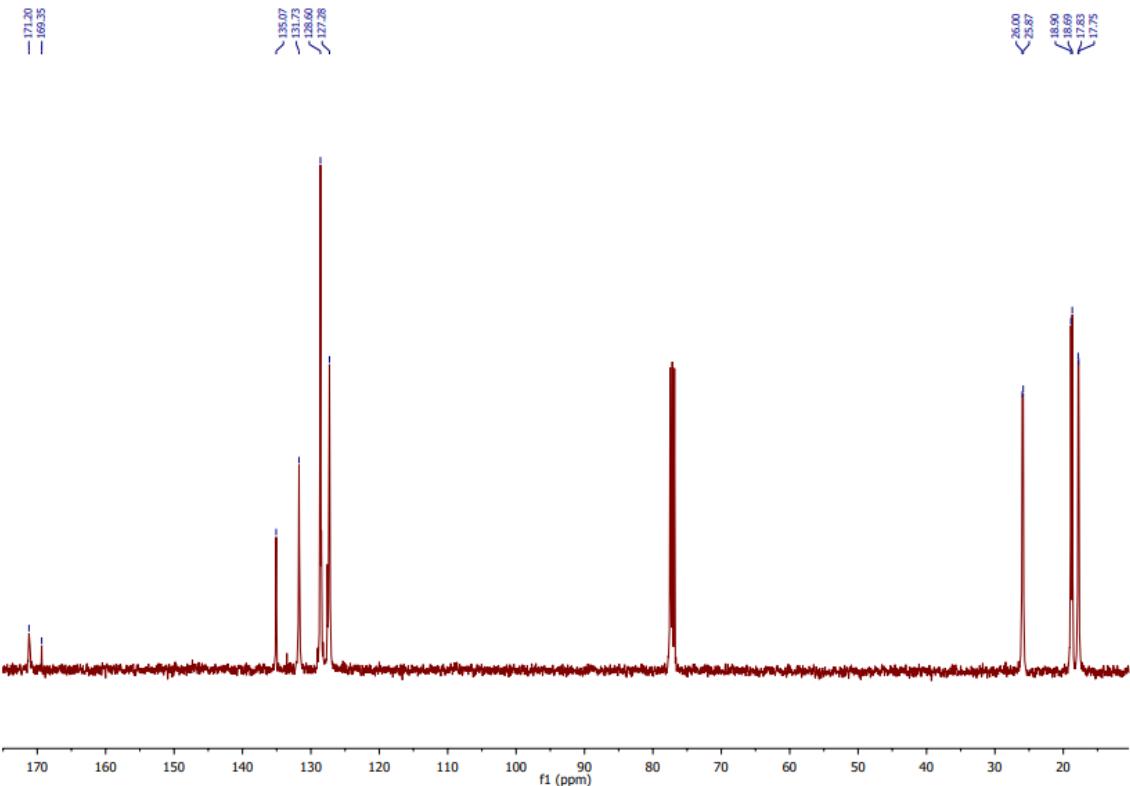
**Figure S2.** ^{13}C{^{1}H} NMR spectrum of **1** (100 MHz, CDCl$_3$).
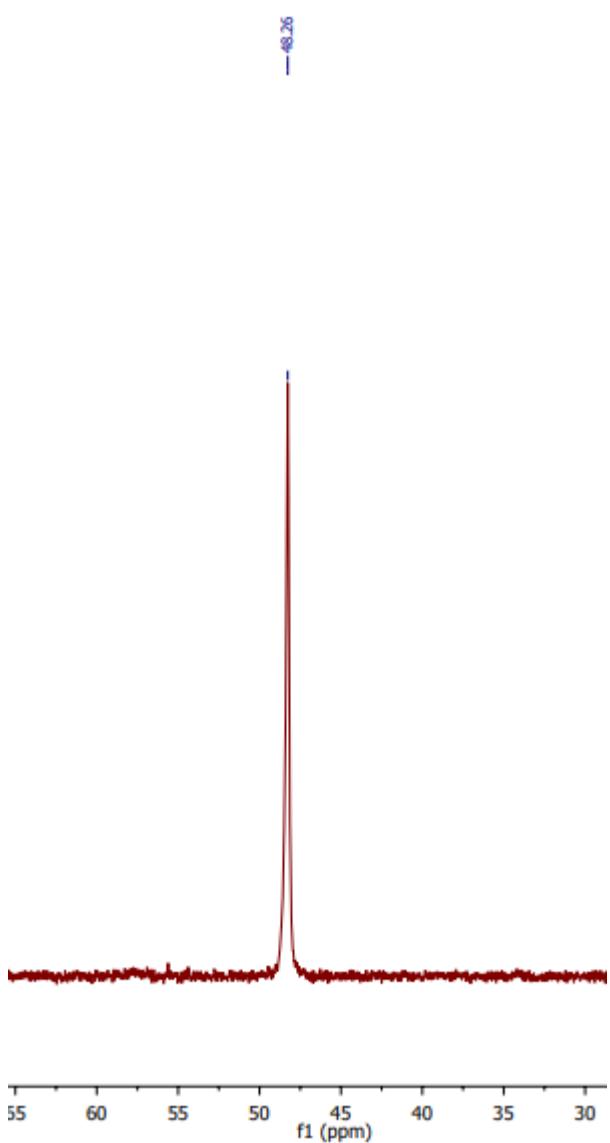
Figure S3. $^{31}P\{^1H\}$ NMR spectrum of **1** (162 MHz, CDCl₃).