

**Desolvation and Aggregation of Sterically Demanding Alkali Metal
Diarylphosphides**

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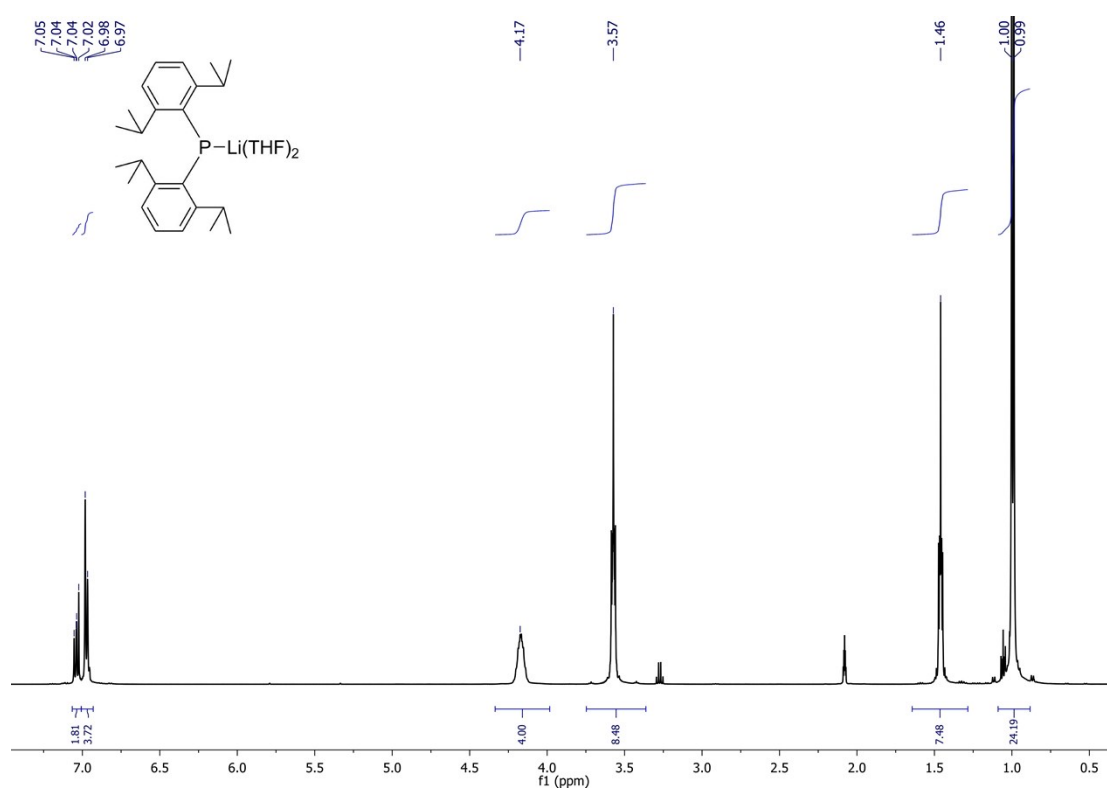
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Newcastle University, Newcastle upon Tyne, NE1 7RU, UK, e-mail:*

keith.izod@ncl.ac.uk

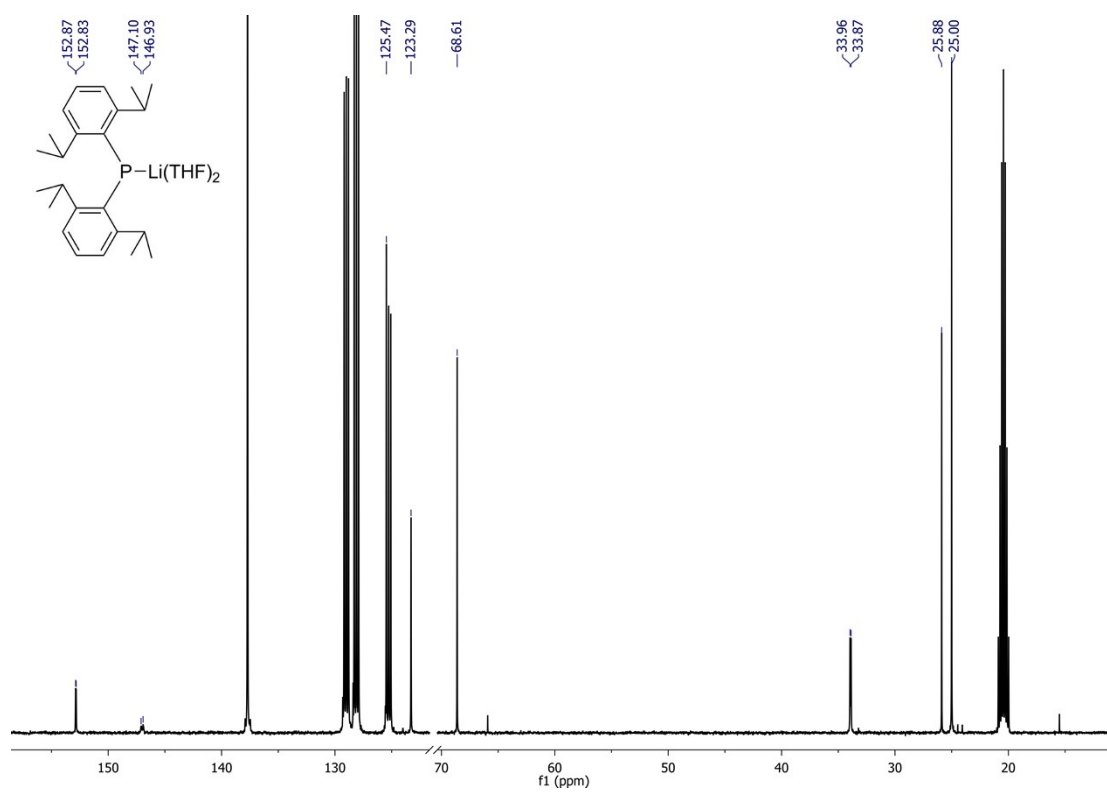
SUPPORTING INFORMATION

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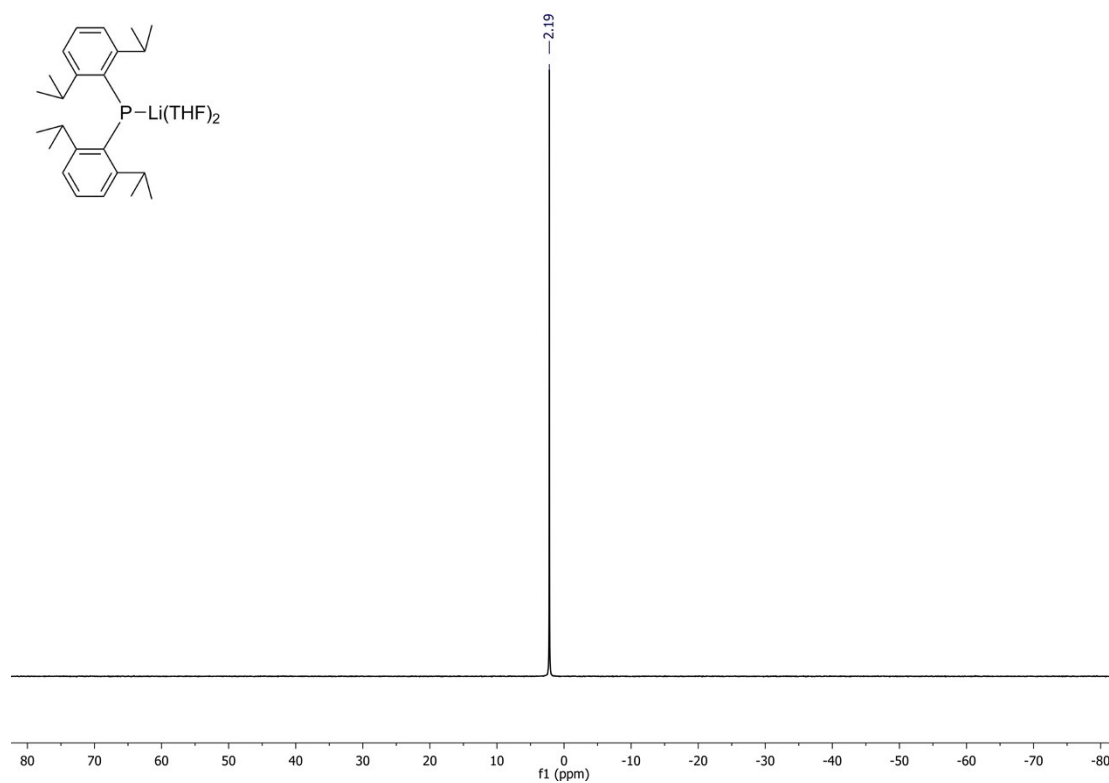
- S3-S4 ^1H , $^{13}\text{C}\{^1\text{H}\}$, ^7Li and $^{31}\text{P}\{^1\text{H}\}$ NMR spectra of **2b** in d_8 -toluene at 363 K.
- S5-S6 ^1H , $^{13}\text{C}\{^1\text{H}\}$ and $^{31}\text{P}\{^1\text{H}\}$ NMR spectra of **3b** in d_8 -toluene at 298 K.
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- S11-S12 ^1H , $^{13}\text{C}\{^1\text{H}\}$, ^7Li and $^{31}\text{P}\{^1\text{H}\}$ NMR spectra of **7b** in d_8 -toluene at 298 K.
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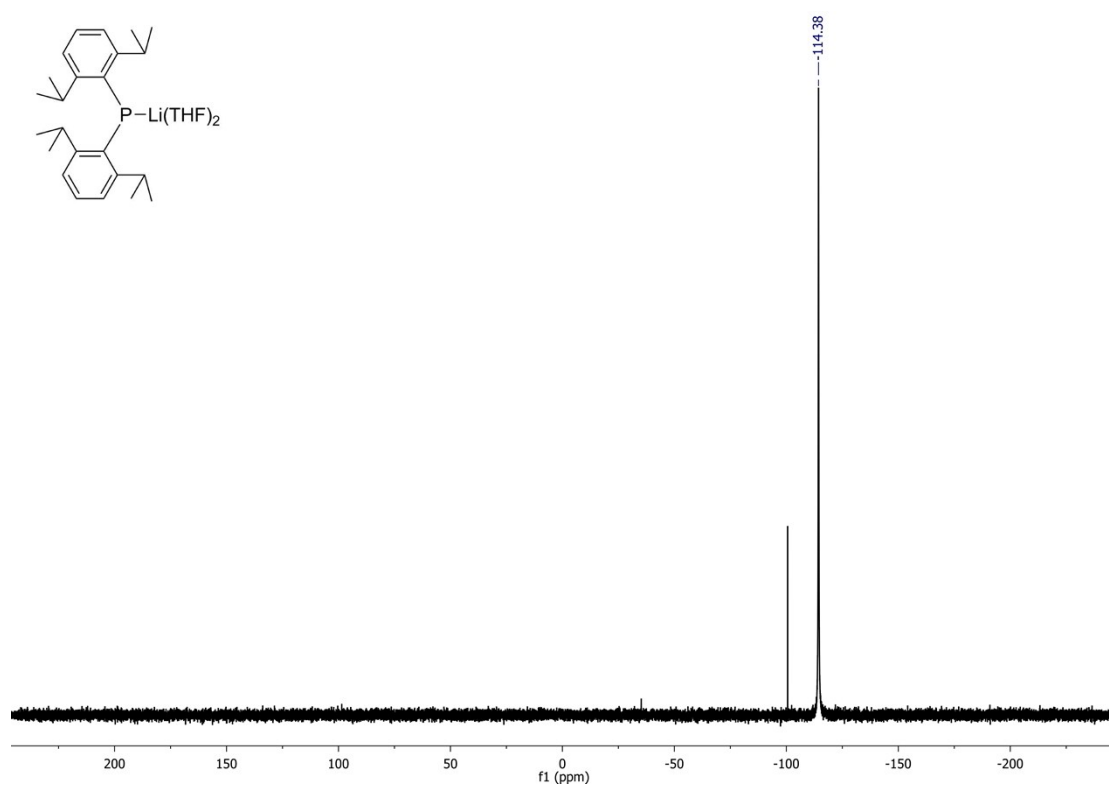
¹H NMR spectrum of **2b** in *d*₈-toluene at 363 K.



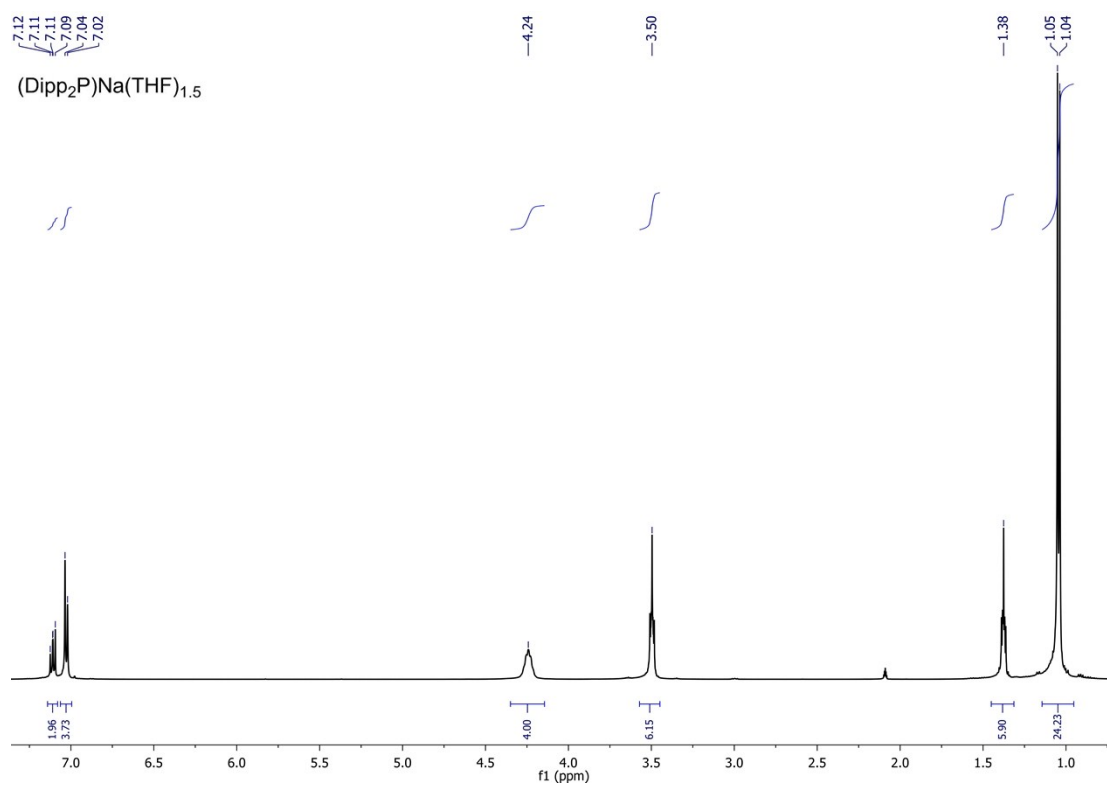
¹³C{¹H} NMR spectrum of **2b** in *d*₈-toluene at 363 K.



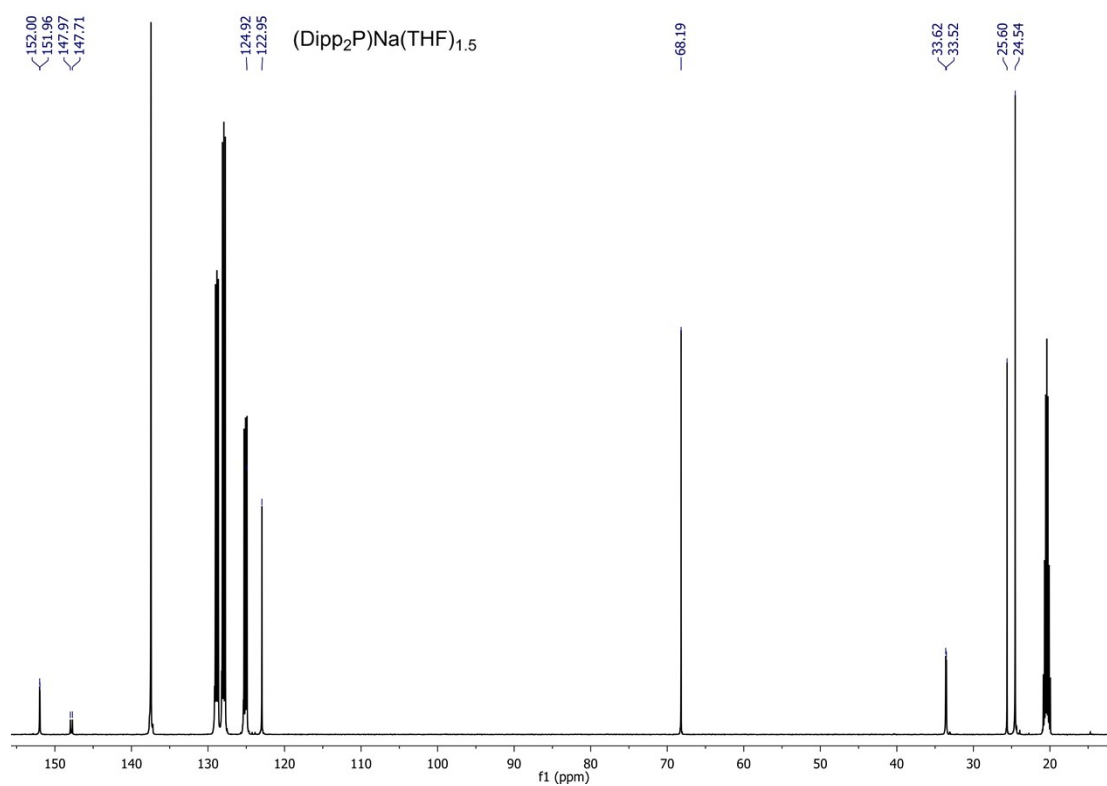
^7Li NMR spectrum of **2b** in d_8 -toluene at 363 K.



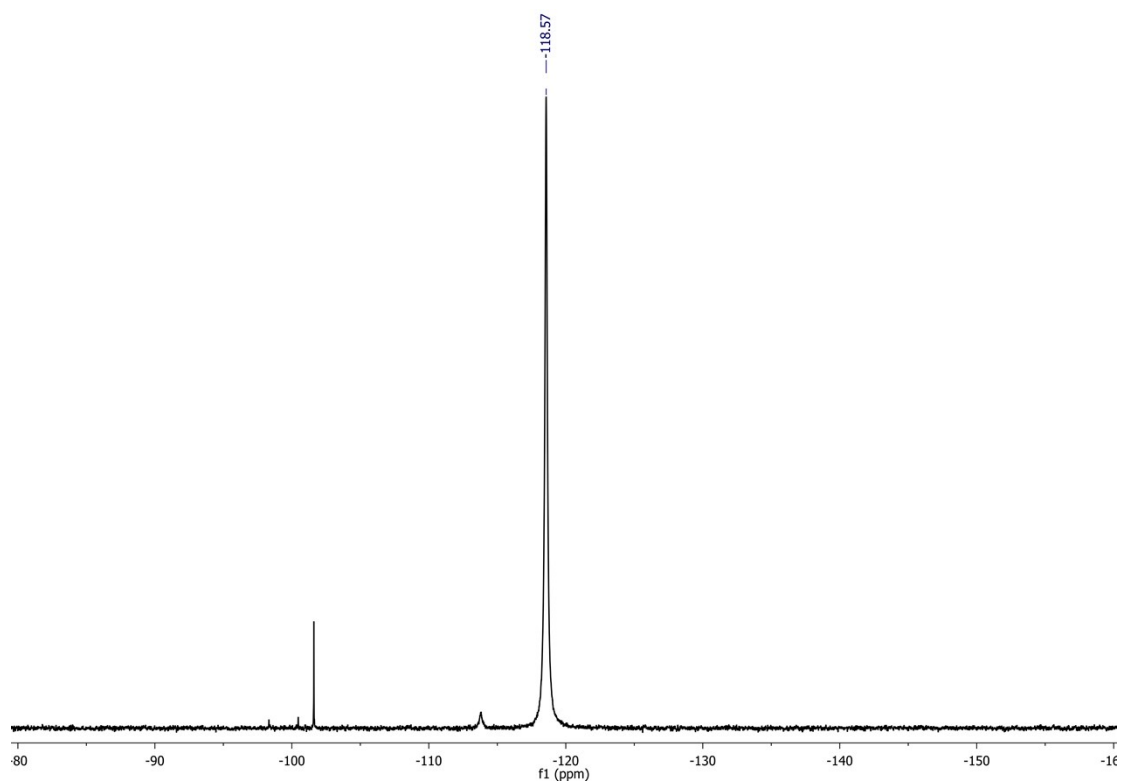
$^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **2b** in d_8 -toluene at 363 K.



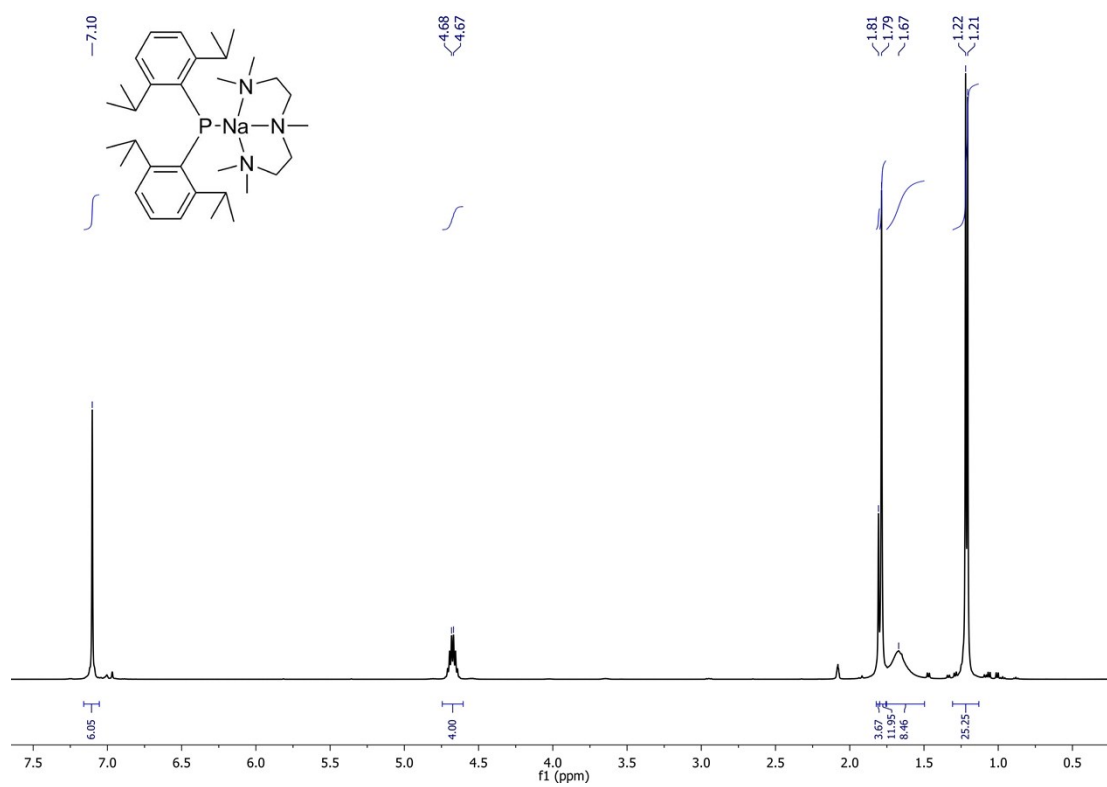
¹H NMR spectrum of **3b** in *d*₈-toluene at 298 K.



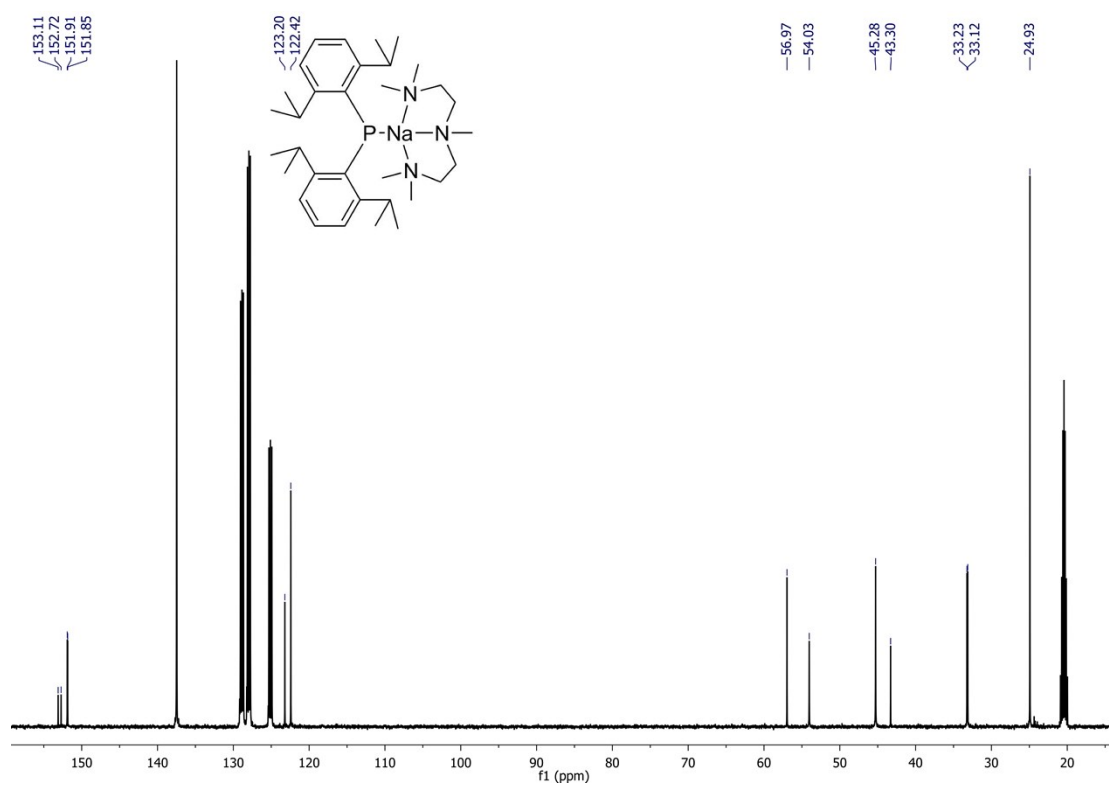
¹³C{¹H} NMR spectrum of **3b** in *d*₈-toluene at 298 K.



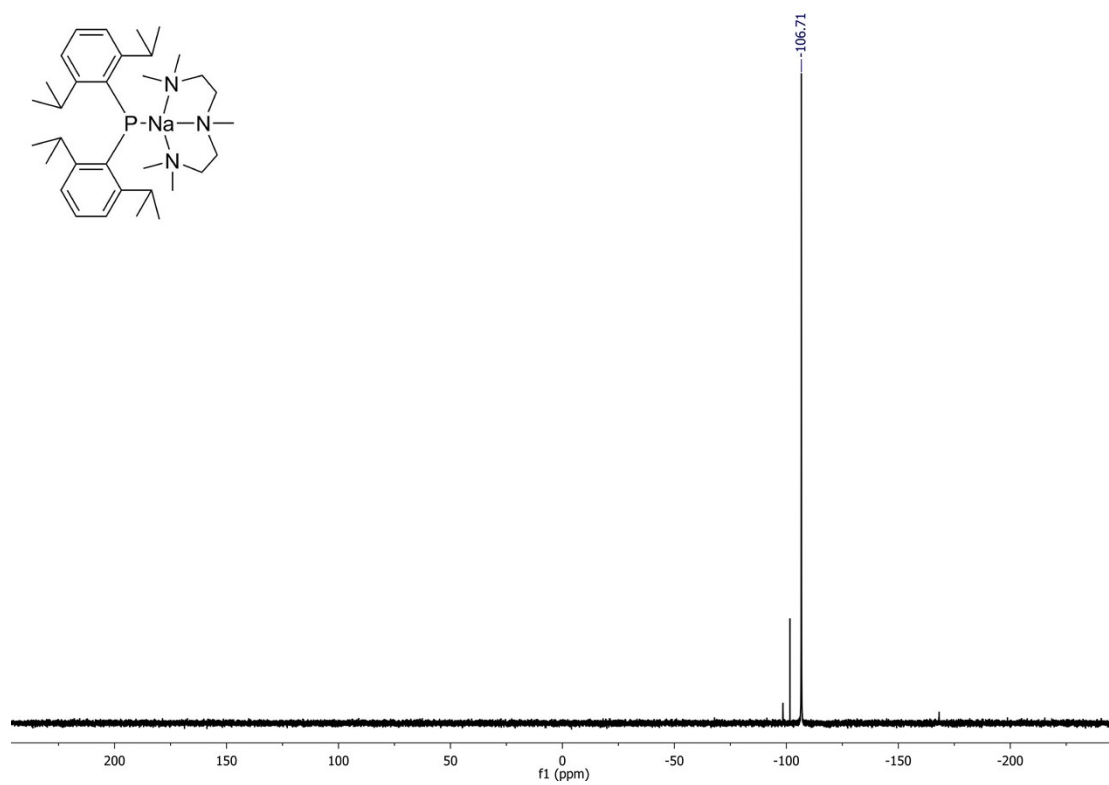
$^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **3b** in d_8 -toluene at 298 K.



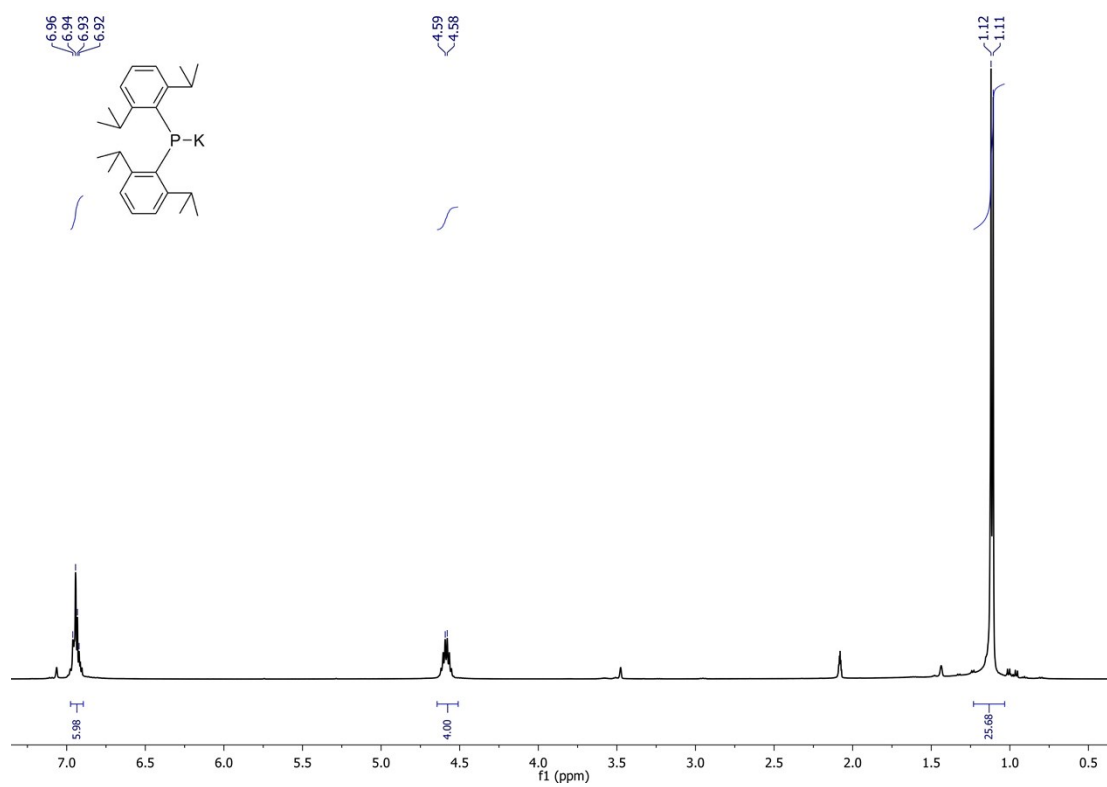
^1H NMR spectrum of **3c** in d_8 -toluene at 298 K.



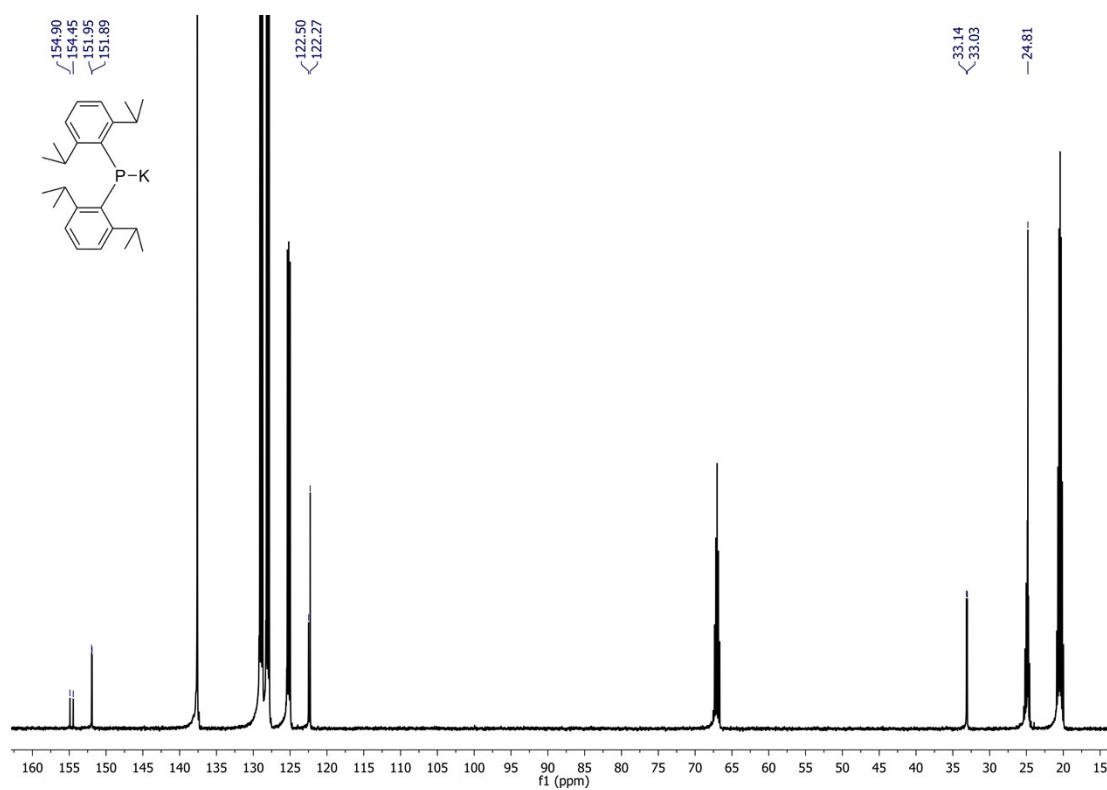
¹³C{¹H} NMR spectrum of **3c** in *d*₈-toluene at 298 K.



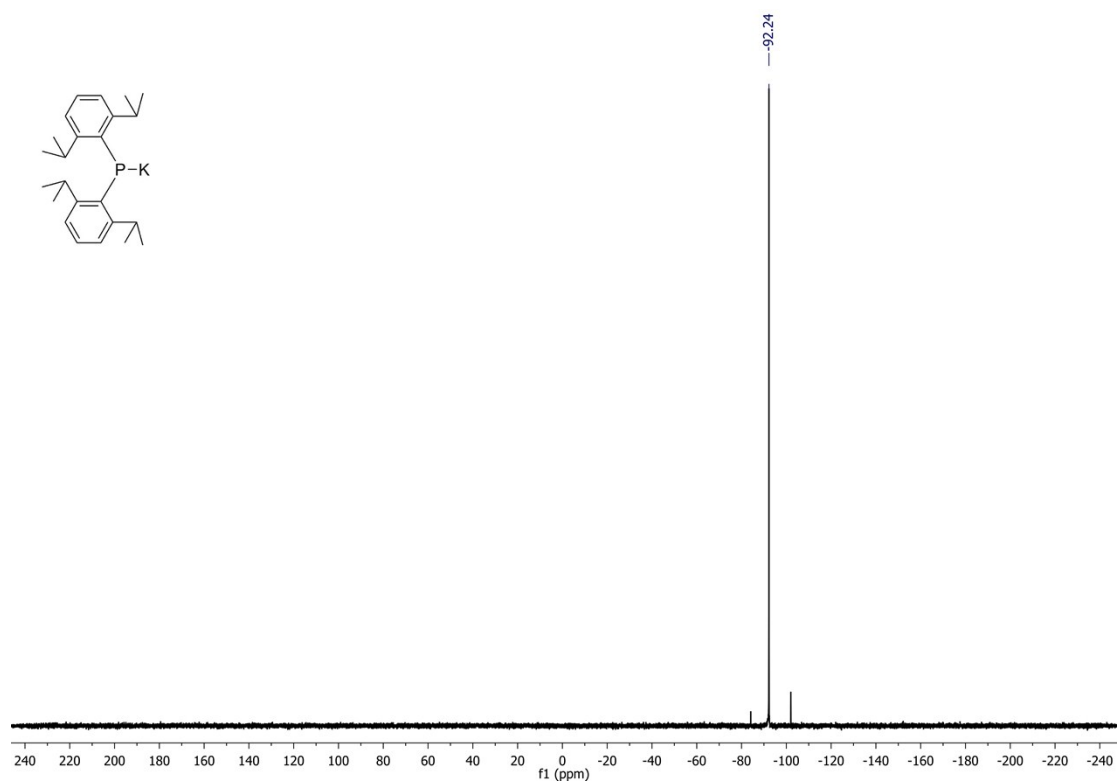
³¹P{¹H} NMR spectrum of **3c** in *d*₈-toluene at 298 K.



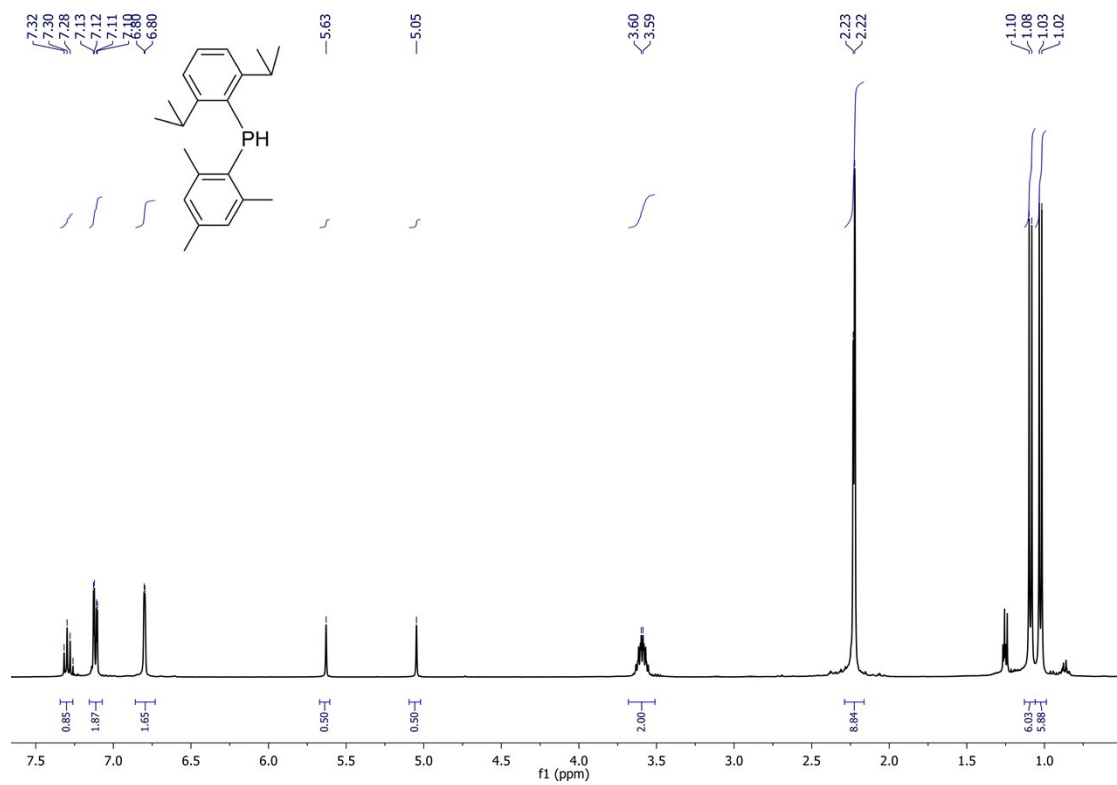
¹H NMR spectrum of **4b** in *d*₈-toluene at 298 K.



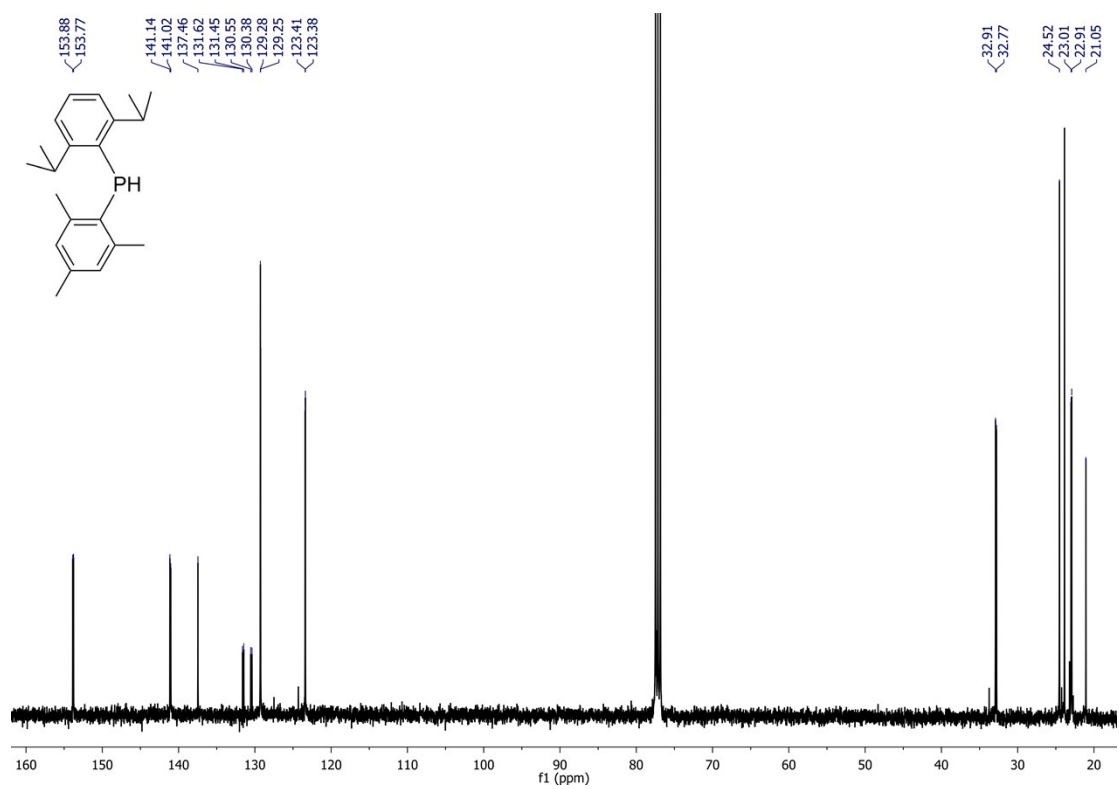
¹³C{¹H} NMR spectrum of **4b** in *d*₈-toluene at 298 K.



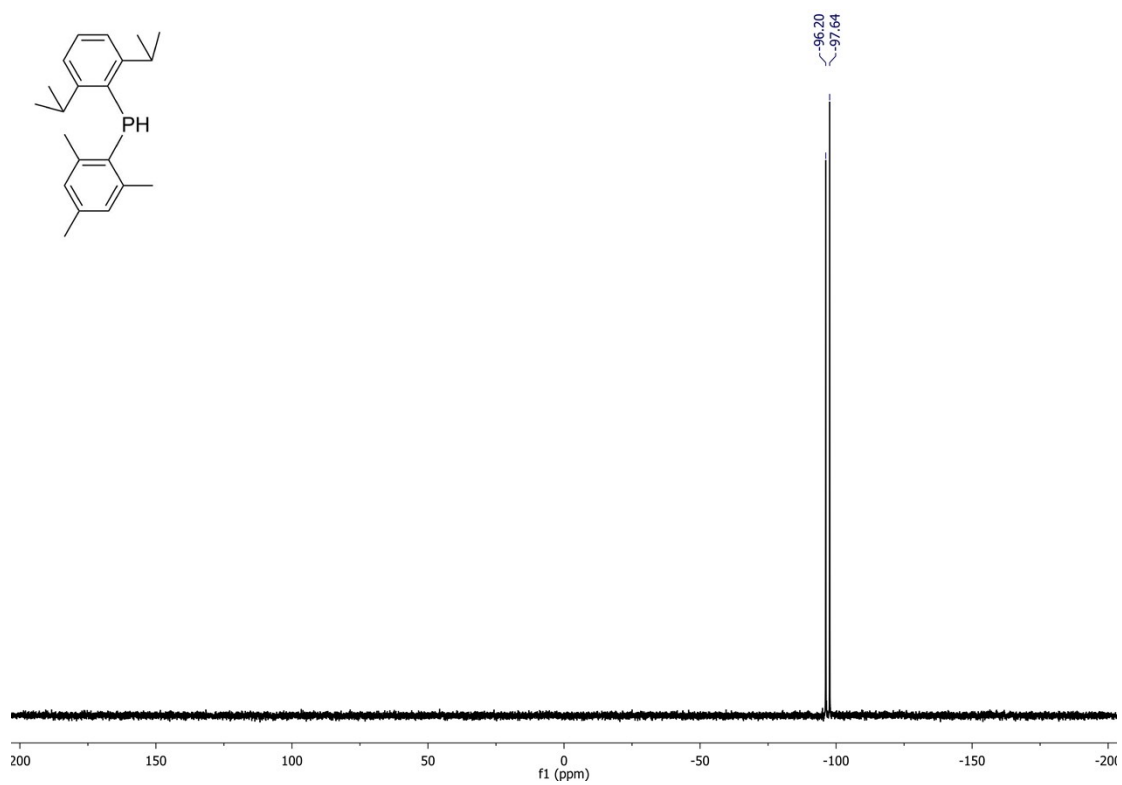
$^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **4b** in d_8 -toluene at 298 K.



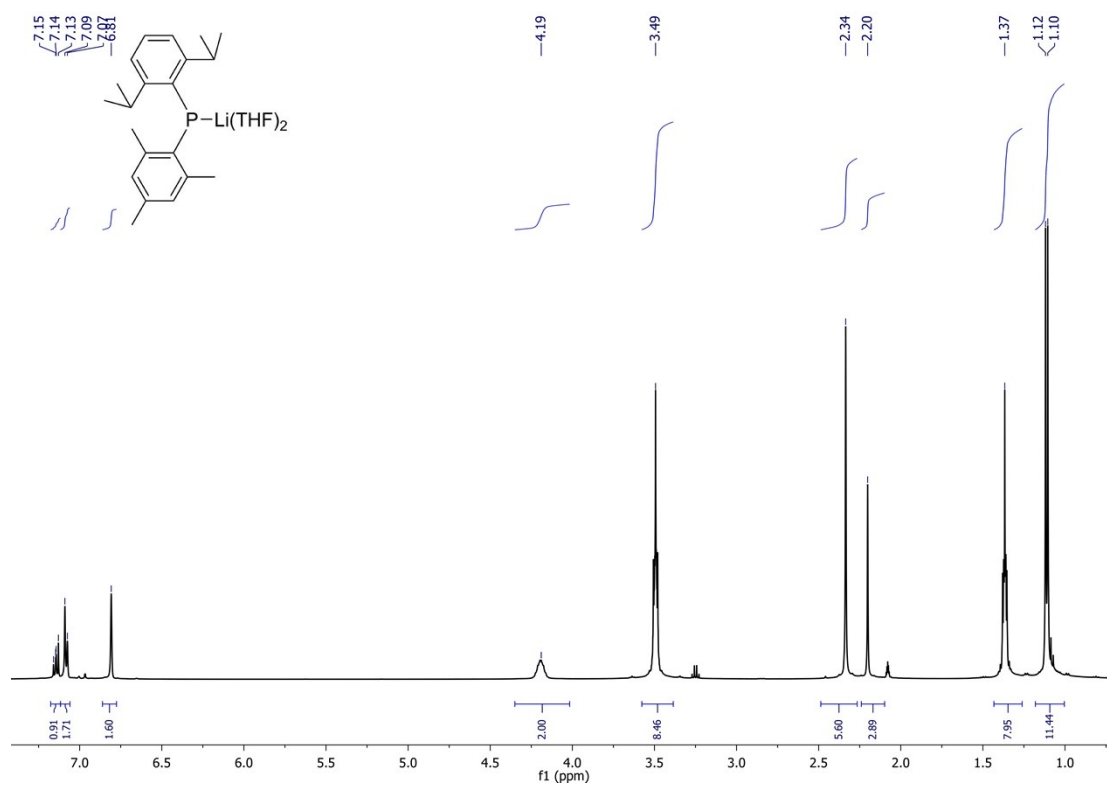
^1H NMR spectrum of **5** in CDCl_3 at 298 K.



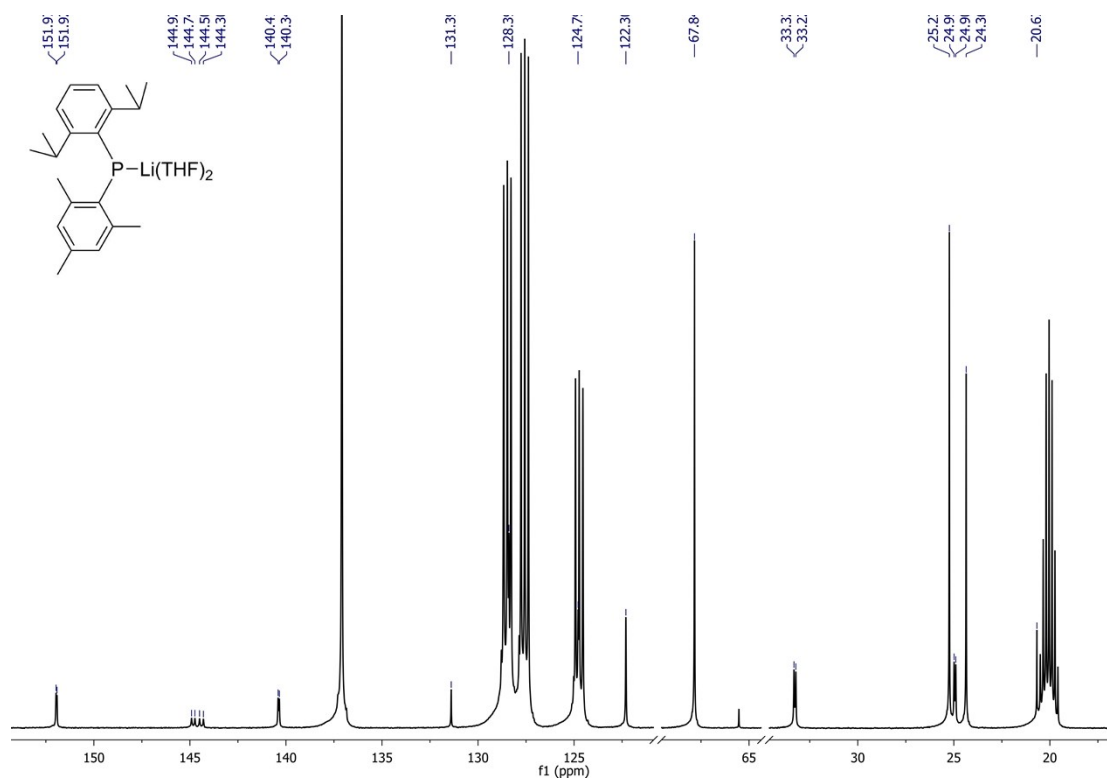
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of **5** in CDCl_3 at 298 K



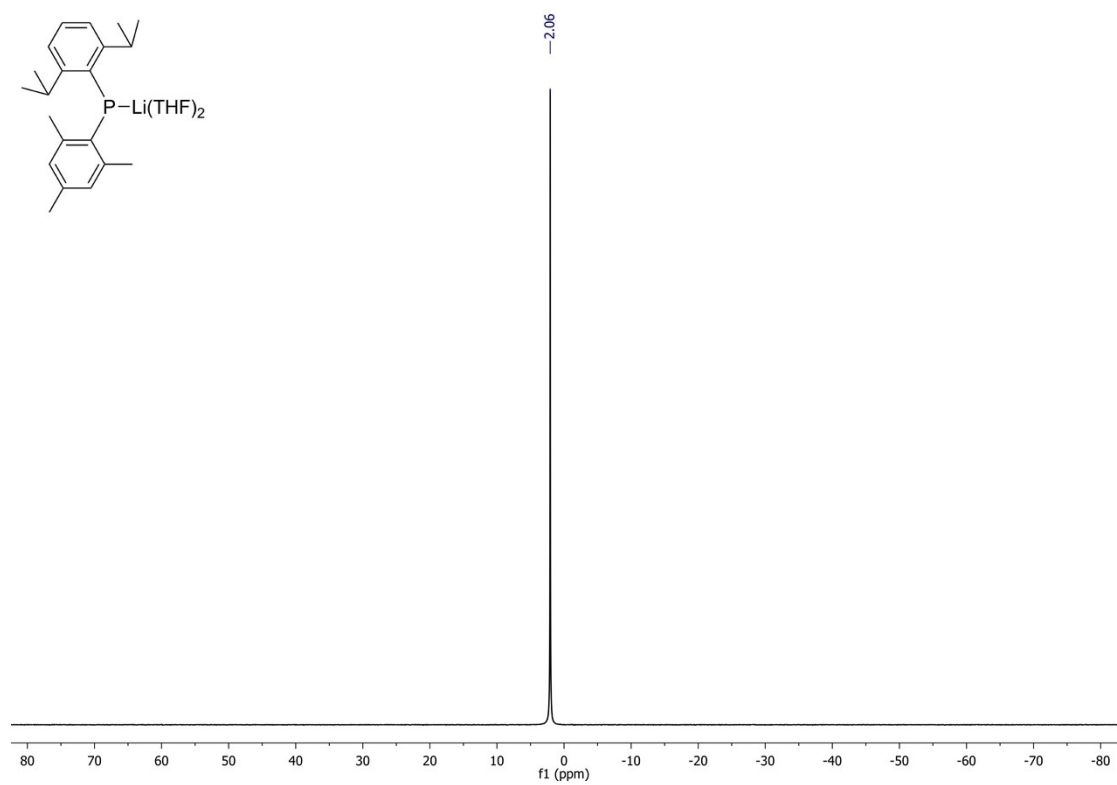
^{31}P NMR spectrum of **5** in CDCl_3 at 298 K.



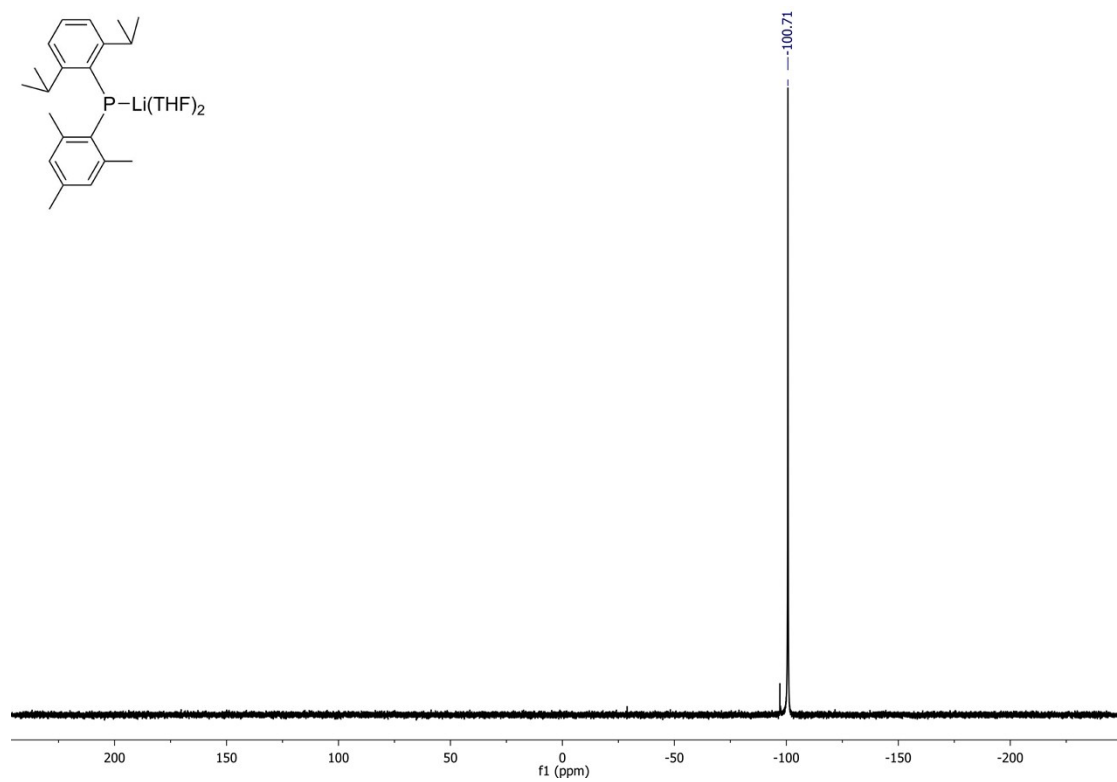
¹H NMR spectrum of **7b** in *d*₈-toluene at 298 K.



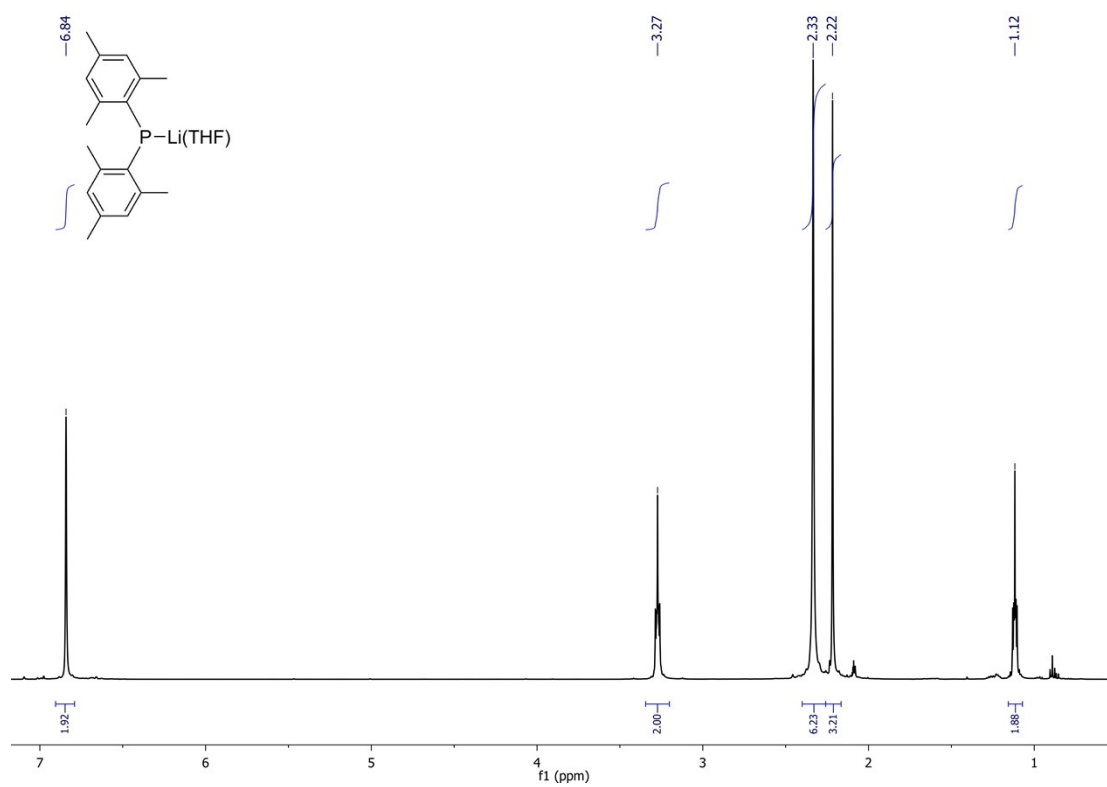
¹³C{¹H} NMR spectrum of **7b** in *d*₈-toluene at 298 K.



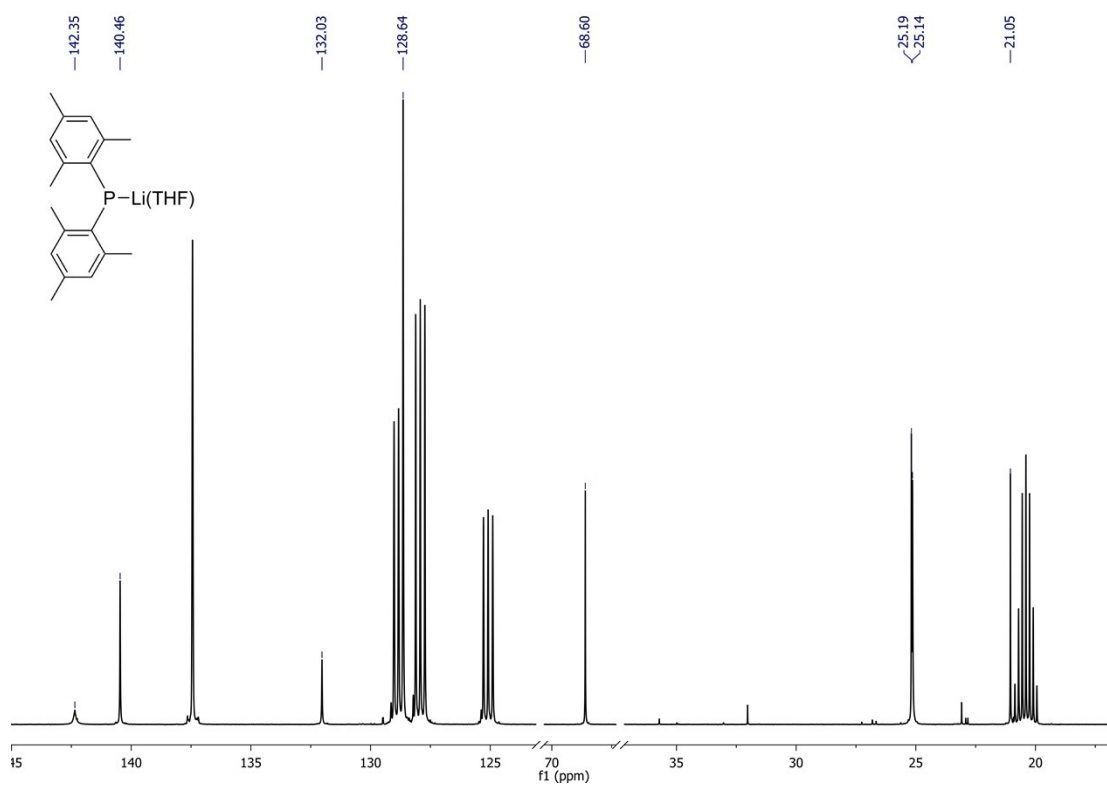
^7Li NMR spectrum of **7b** in d_8 -toluene at 298 K.



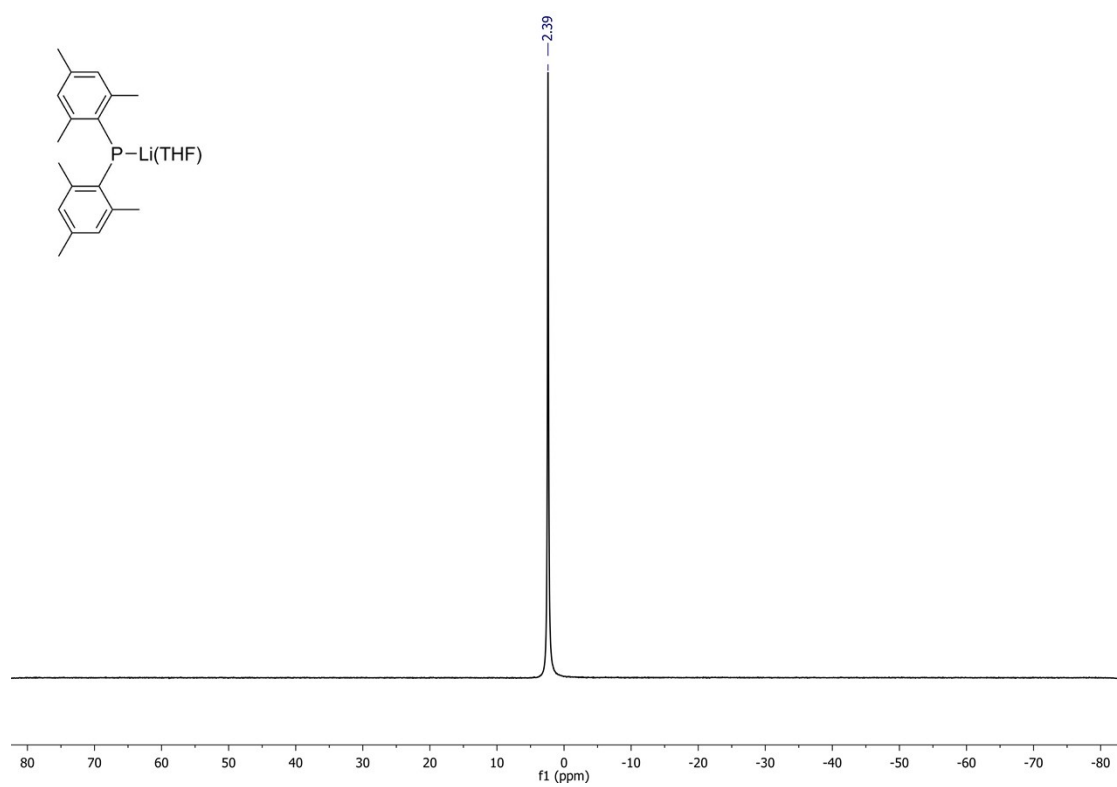
$^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **7b** in d_8 -toluene at 298 K.



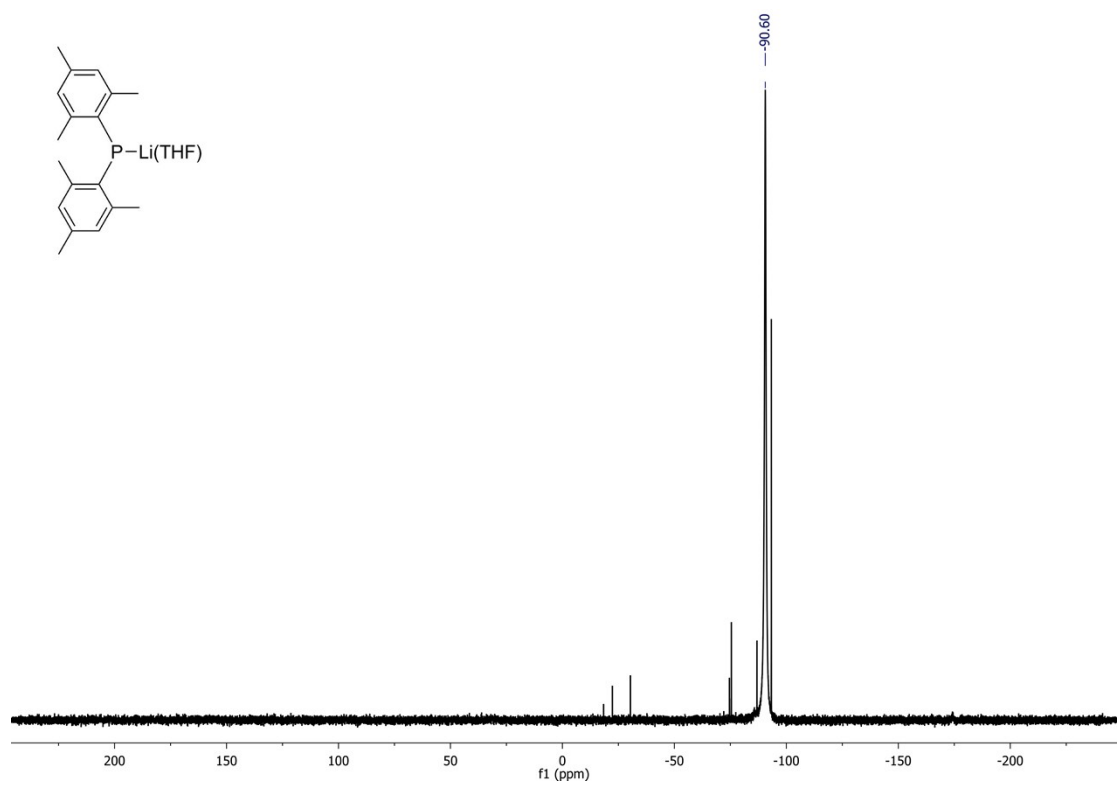
¹H NMR spectrum of **8c** in *d*₈-toluene at 298 K.



¹³C{¹H} NMR spectrum of **8c** in *d*₈-toluene at 298 K.



^7Li NMR spectrum of **8c** in d_8 -toluene at 298 K.



$^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **8c** in d_8 -toluene at 298 K.