

Supplementary Materials

Approach to the “Missing” Diarylsilylene: Formation, Characterization, and Intramolecular C–H Bond Activation of Blue Diarylsilylenes Having Bulky Rind Groups

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UV-vis spectra of **3a** and **3b**

The solution containing (EMind)₂Si: (**3a**): Figure S1

The solution containing (Eind)₂Si: (**3b**): Figure S2

NMR spectra of **3b**, **4b**, and **5b**

The solution containing (Eind)₂Si: (**3b**): Figures S3 and S4

The cyclic hydrosilane (**4b**): Figures S5–S10.

(Eind)₂SiH(OH) (**5b**): Figures S11–S13

IR spectra of **5b**

(Eind)₂SiH(OH) (**5b**): Figure S14

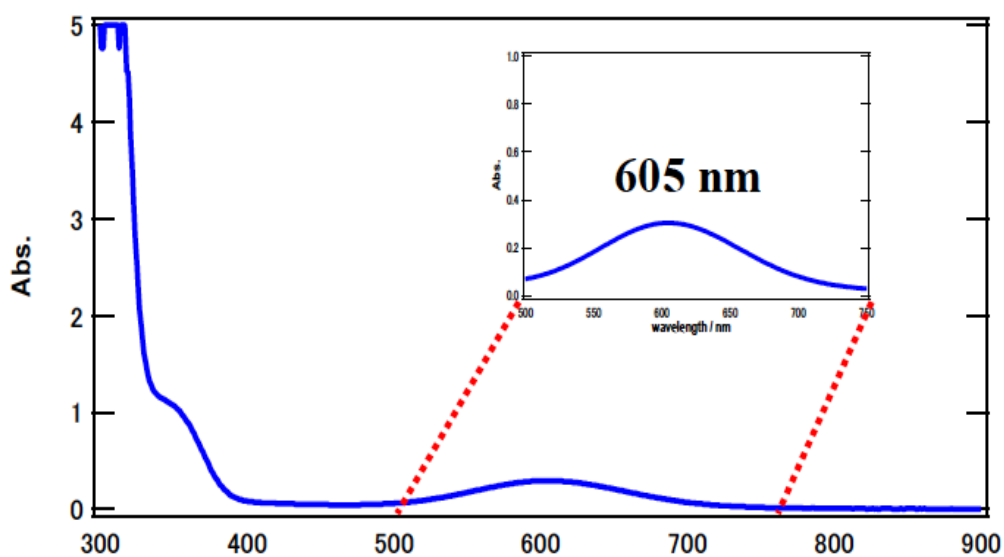


Figure S1. UV-vis spectrum of the solution containing (EMind)₂Si: (**3a**) in toluene at −20 °C.

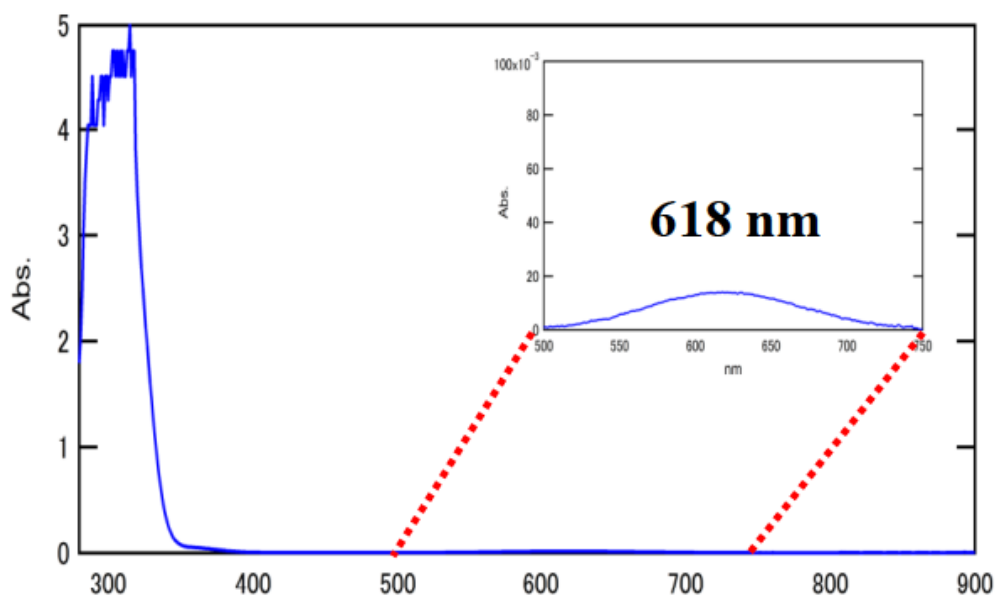


Figure S2. UV-vis spectrum of the solution containing (Eind)₂Si: (**3b**) in toluene at −20 °C.

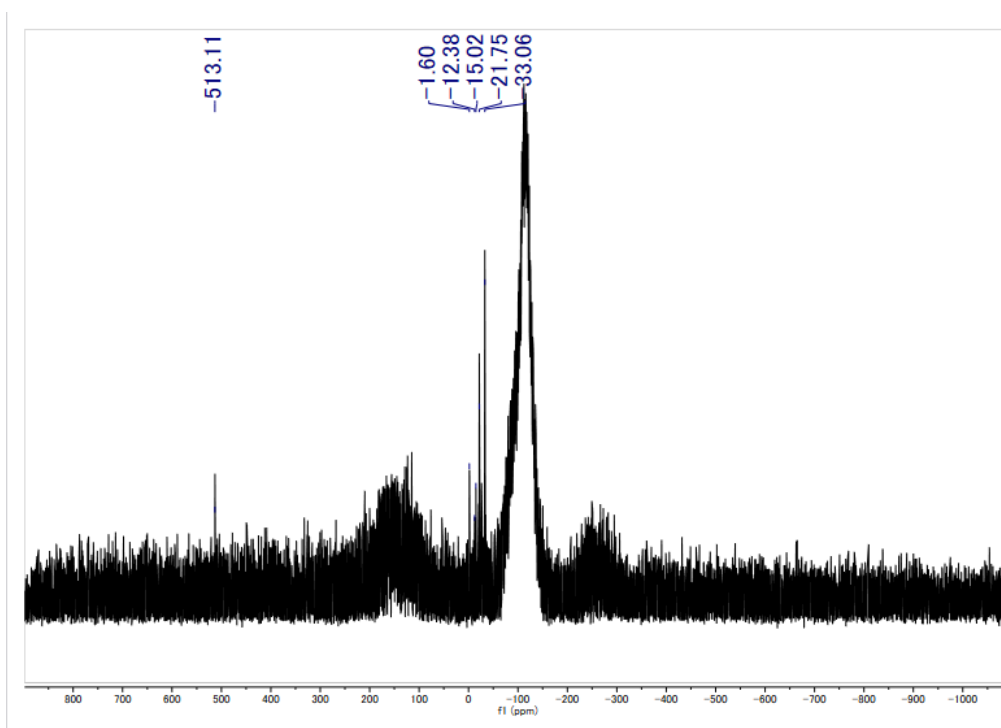


Figure S3. ^{29}Si NMR spectrum of the solution containing $(\text{Eind})_2\text{Si}$: (**3b**) in C_7D_8 at $-20\text{ }^\circ\text{C}$, ranging from -1100 to 900 ppm.

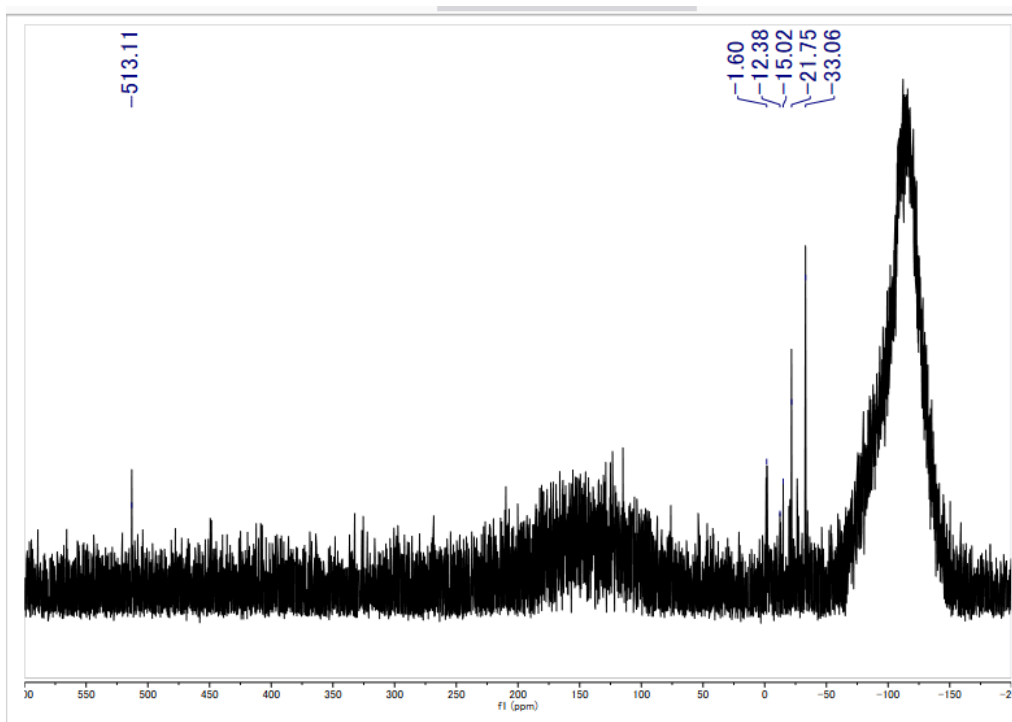


Figure S4. ^{29}Si NMR spectrum of the solution containing $(\text{Eind})_2\text{Si}$: (**3b**) in C_7D_8 at $-20\text{ }^\circ\text{C}$, ranging from -200 to 600 ppm.

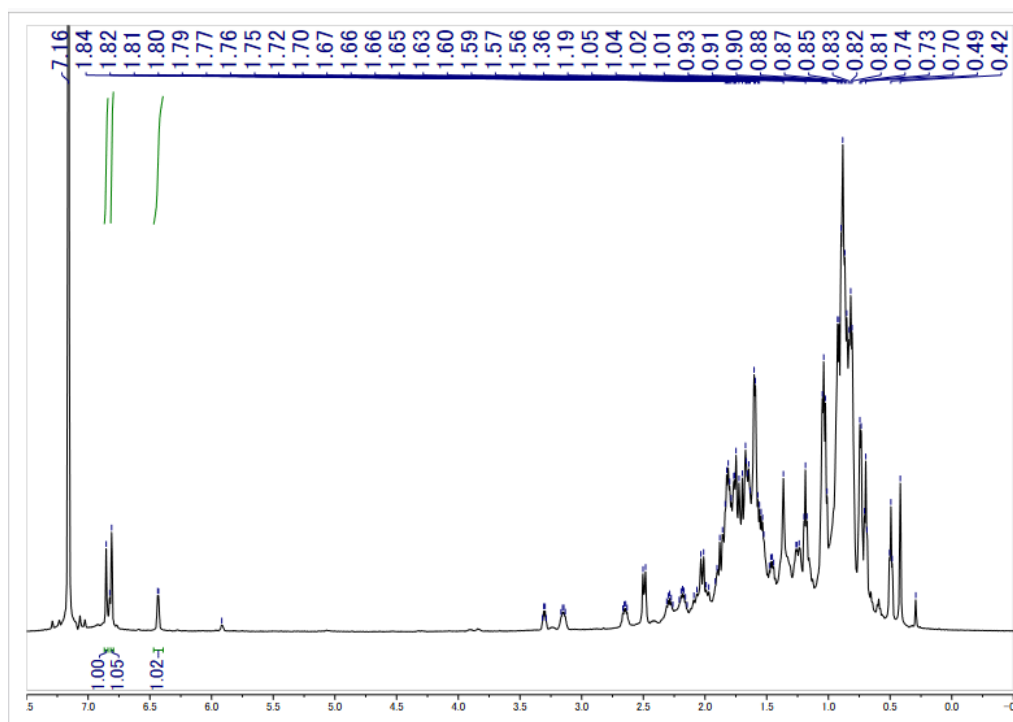


Figure S5. ^1H NMR spectrum of the cyclic hydrosilane (**4b**) in C_6D_6 at 20 °C.

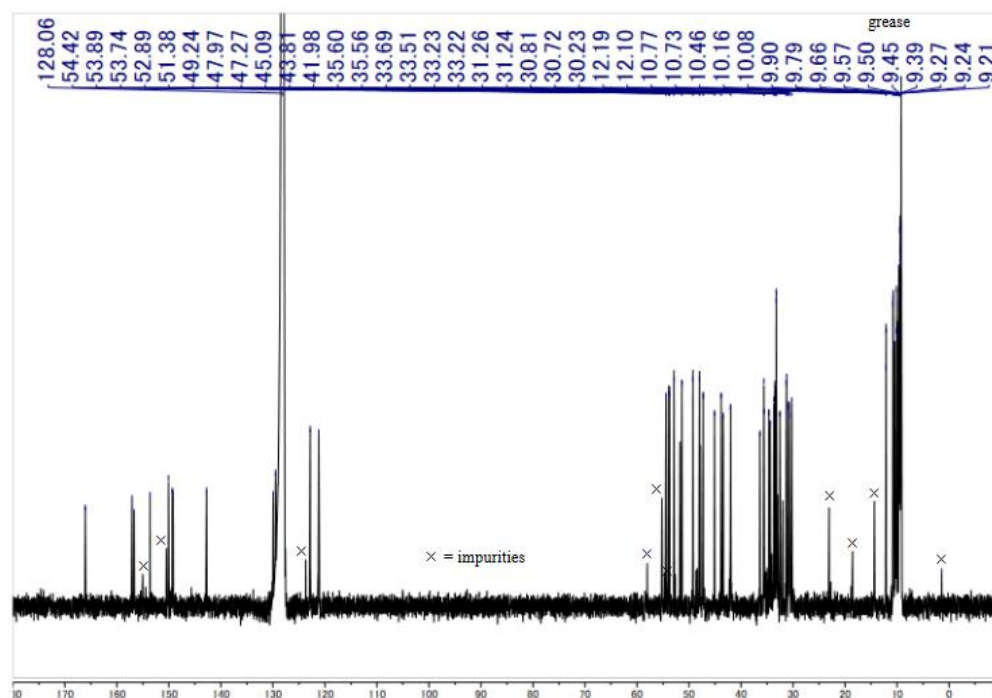


Figure S6. ^{13}C NMR spectrum of the cyclic hydrosilane (**4b**) in C_6D_6 at 20 °C, ranging from -10 to 180 ppm.

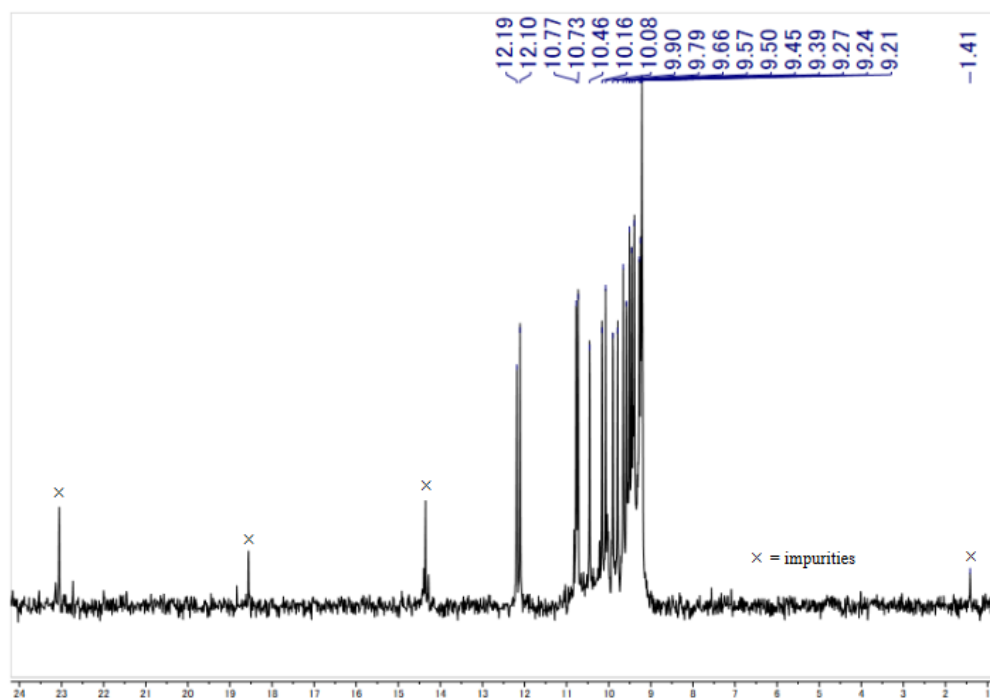


Figure S7. ^{13}C NMR spectrum of the cyclic hydrosilane (**4b**) in C_6D_6 at 20 $^\circ\text{C}$, ranging from 1 to 24 ppm.

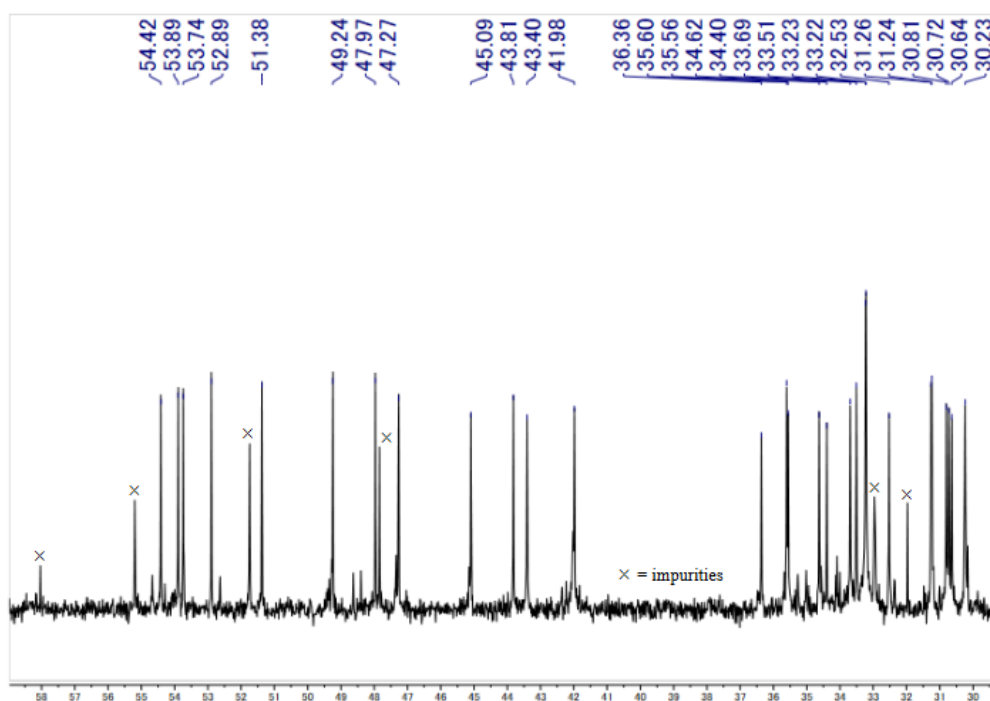


Figure S8. ^{13}C NMR spectrum of the cyclic hydrosilane (**4b**) in C_6D_6 at 20 $^\circ\text{C}$, ranging from 29 to 59 ppm.

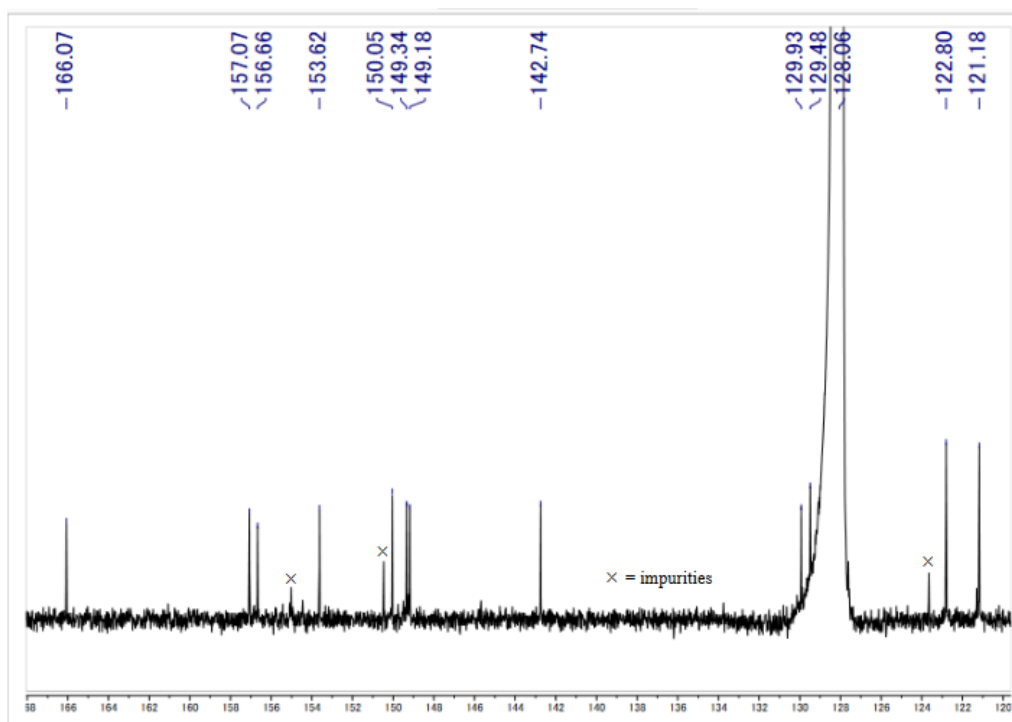


Figure S9. ^{13}C NMR spectrum of the cyclic hydrosilane (**4b**) in C_6D_6 at 20 °C, ranging from 120 to 166 ppm.

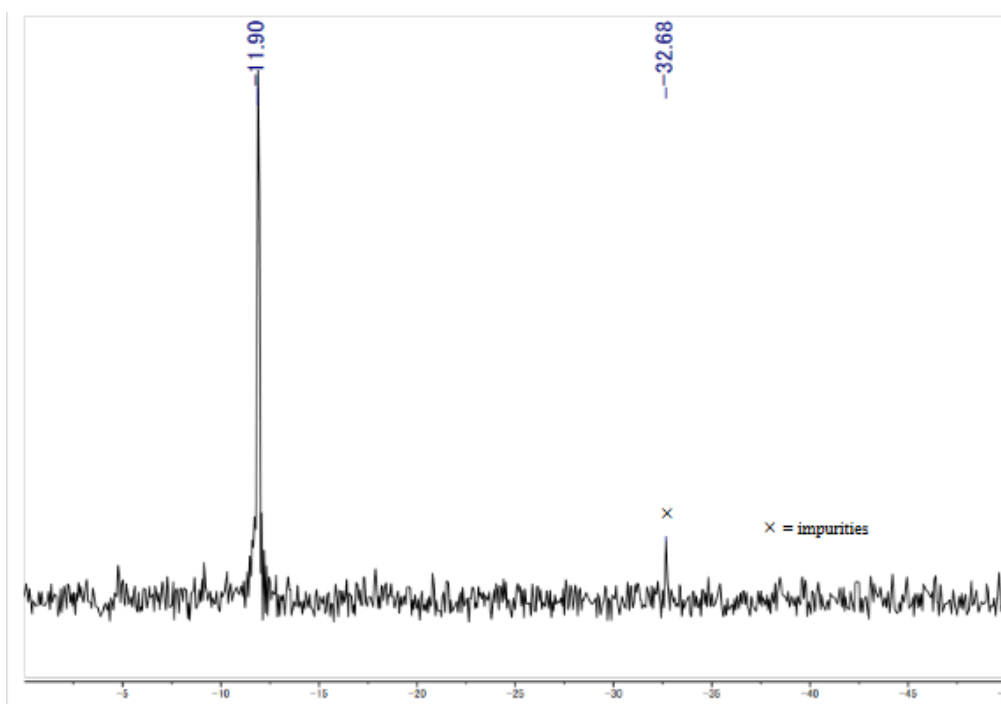


Figure S10. ^{29}Si NMR spectrum of the cyclic hydrosilane (**4b**) in C_6D_6 at 20 °C.

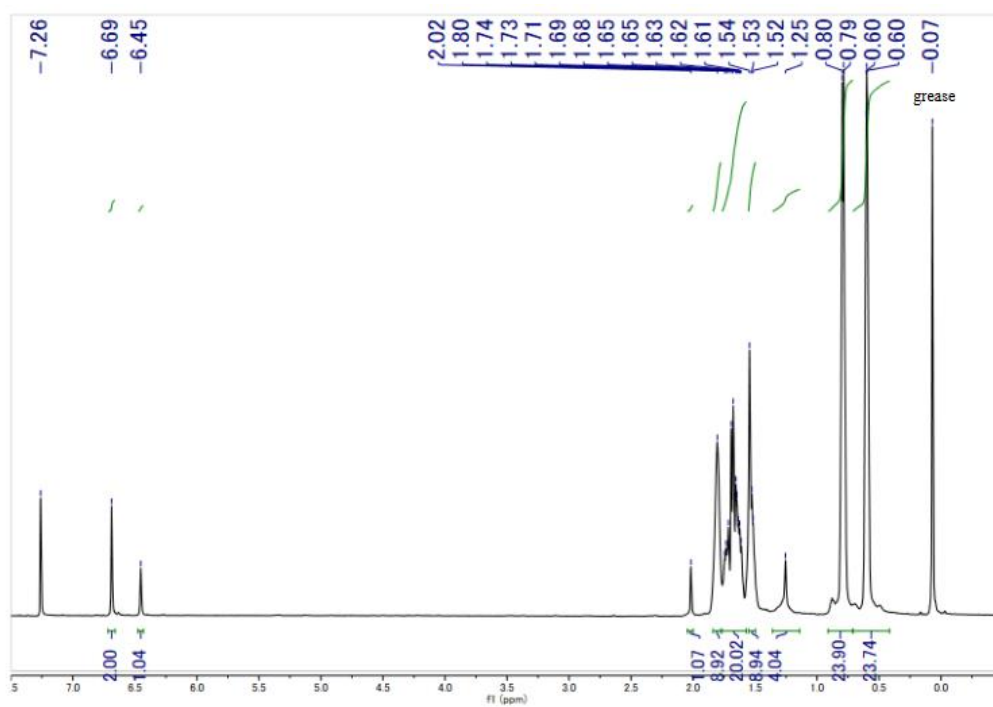


Figure S11. ¹H NMR spectrum of (Eind)₂SiH(OH) (**5b**) in CDCl₃ at 20 °C.

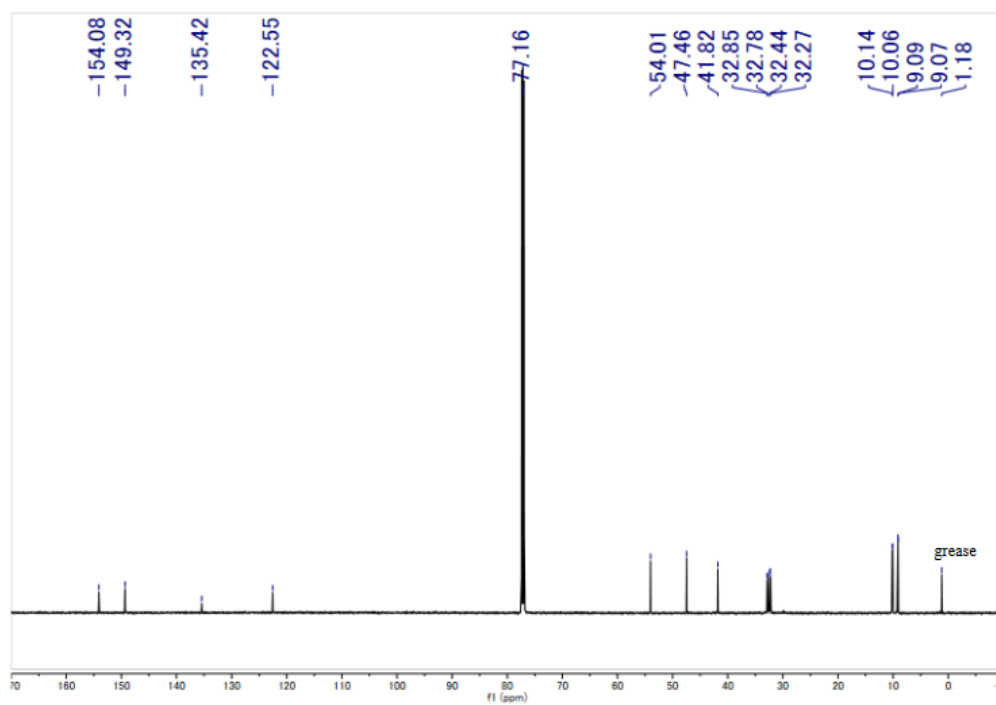


Figure S12. ¹³C NMR spectrum of (Eind)₂SiH(OH) (**5b**) in CDCl₃ at 20 °C.

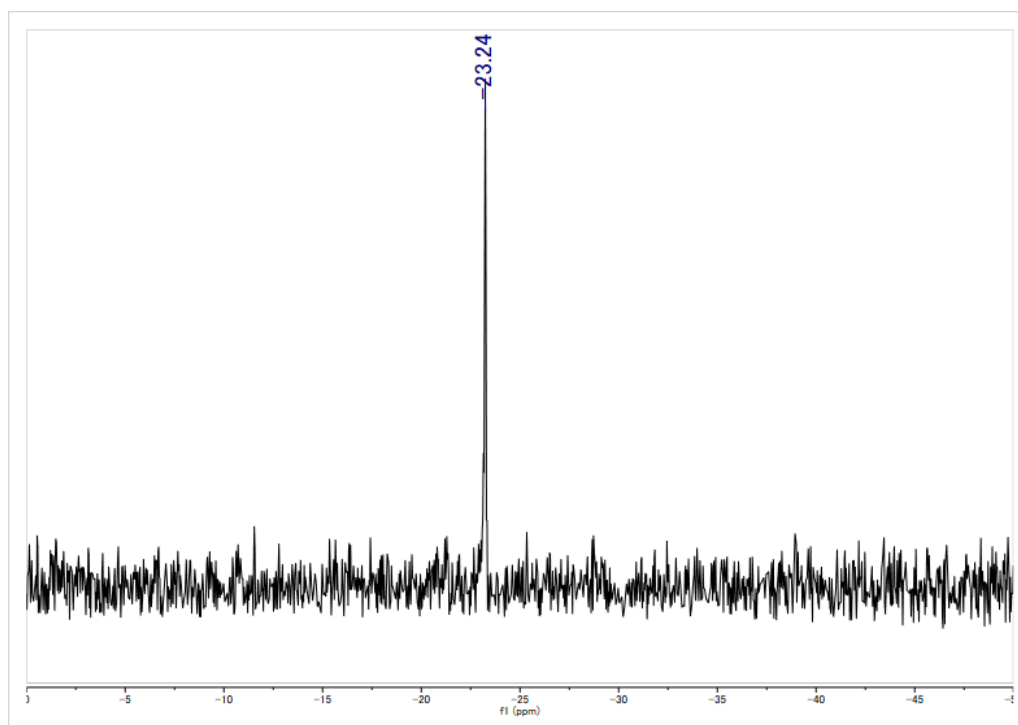


Figure S13. ^{29}Si NMR spectrum of $(\text{Eind})_2\text{SiH}(\text{OH})$ (**5b**) in CDCl_3 at 20 °C.

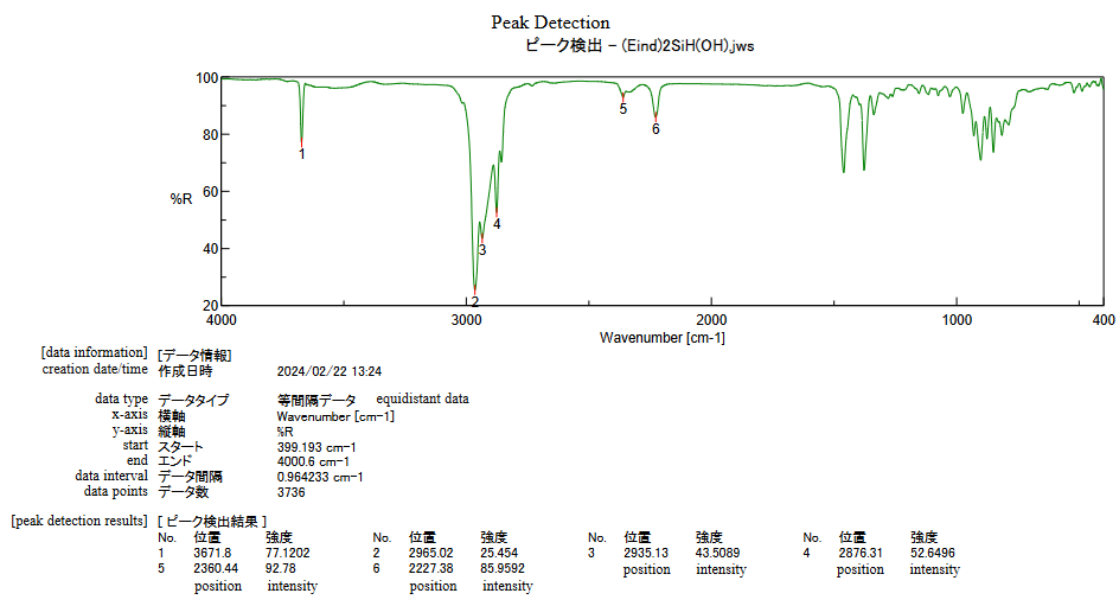


Figure S14. IR spectrum of (Eind)₂SiH(OH) (**5b**) in KBr at ambient temperature.