



## Supporting Information

### A Stable N-Heterocyclic Silylene with a 1,1'-Ferrocenediyl Backbone

Nadine Weyer, Myron Heinz, Julia I. Schweizer, Clemens Bruhn, Max C. Holthausen,\* and Ulrich Siemeling\*

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## I Experimental Section

### A Compound Synthesis

#### General considerations

All reactions involving air-sensitive compounds were performed in an inert atmosphere (argon or dinitrogen) by using standard Schlenk techniques or a conventional glovebox. Starting materials were procured from standard commercial sources and used as received. A sample of high-purity ammonia-borane was kindly provided by Prof. Umit B. Demirci (University of Montpellier, France).  $[\text{SiCl}_2(\text{IPr})]$ ,<sup>[S1]</sup> **1MesLi<sub>2</sub>**,<sup>[S2]</sup> and **1DippLi<sub>2</sub>**,<sup>[S3]</sup> were synthesised by adapted versions of the published procedures. NMR spectra were recorded at ambient temperature with Varian NMRS-500 and MR-400 spectrometers operating at 500 and 400 MHz, respectively, for <sup>1</sup>H. Elemental analyses were carried out with a HEKAttech Euro EA-CHNS elemental analyser at the Institute of Chemistry, University of Kassel, Germany.

#### Synthesis of **1MesSi** (NMR experiment)

$[\text{SiCl}_2(\text{IPr})]$  (10 mg, 0.02 mmol) and **1MesLi<sub>2</sub>** (9 mg, 0.02 mmol) were each dissolved in C<sub>6</sub>D<sub>6</sub> (0.4 mL). Both solutions were frozen, then warmed carefully to a slushy state and combined in an NMR tube. After reaching room temperature, the solution was subjected to immediate NMR spectroscopic analysis.

<sup>1</sup>H NMR (500 MHz, C<sub>6</sub>D<sub>6</sub>):  $\delta = 6.79$  (s, 4H, C<sub>6</sub>H<sub>2</sub>), 4.33, 3.88 (2 s, 2 × 4H, C<sub>5</sub>H<sub>4</sub>), 2.54 (s, 12H, *o*-Me), 2.10 ppm (s, 6H, *p*-Me). <sup>13</sup>C{<sup>1</sup>H} NMR (101 MHz, C<sub>6</sub>D<sub>6</sub>):  $\delta = 146.2$ , 137.4, 130.0, 123.8 (4 × C<sub>6</sub>H<sub>2</sub>Me<sub>3</sub>), 105.4 (C<sub>ipso</sub> C<sub>5</sub>H<sub>4</sub>), 68.1, 67.6 (2 × CH C<sub>5</sub>H<sub>4</sub>); 20.9, 20.3 ppm (2 × Me). <sup>29</sup>Si{<sup>1</sup>H} NMR (99 MHz, C<sub>6</sub>D<sub>6</sub>):  $\delta = 121.5$  ppm.

#### Synthesis of **1DippSi**

A suspension of  $[\text{SiCl}_2(\text{IPr})]$  (176 mg, 0.36 mmol) in toluene (4 mL) was cooled to -20 °C and slowly added to a stirred solution of **1DippLi<sub>2</sub>** (197 mg, 0.36 mmol) in a mixture of toluene (15 mL) and *n*-hexane (10 mL) cooled to -20 °C. The cooling bath was removed and stirring continued for 4 h. Diethyl ether (3 mL) and zinc chloride (49 mg, 0.36 mmol) were added and stirring was continued for 12 h. Volatile components were removed under reduced pressure. The residue was extracted with *n*-hexane (3 × 15 mL). The extracts were combined and their volume reduced to ca. 5 mL under reduced pressure, which afforded the product as a

yellow crystalline solid. A second crop was obtained by reducing the volume of the mother liquor to ca. 2 mL under reduced pressure. Yield 87 mg (43 %).

$C_{34}H_{42}N_2FeSi$  (562.64): calcd. C 72.58, H 7.52, N 4.98 %; found C 71.96, H 7.62, N 4.73 %.  
 $^1H$  NMR (500 MHz,  $C_6D_6$ ):  $\delta$  = 7.14 – 7.09 (m, 6H,  $C_6H_3$ ), 4.48 (s, 4H,  $C_5H_4$ ), 4.04 (sept,  $^3J_{HH}$  = 6.9 Hz, 4H,  $CHMe_2$ ), 3.90 (s, 4H,  $C_5H_4$ ), 1.41, 1.32 ppm (2 d,  $^3J_{HH}$  = 6.9 Hz, 2  $\times$  12H,  $CHMe_2$ ).  $^{13}C\{^1H\}$  NMR (101 MHz,  $C_6D_6$ ):  $\delta$  = 148.6 ( $CCHMe_2$ ), 140.8 ( $C_{ipso}$  Dipp), 128.0, 124.5 (2  $\times$  CH Dipp), 106.6 ( $C_{ipso}$   $C_5H_4$ ), 67.9, 67.8 (2  $\times$  CH  $C_5H_4$ ), 28.8 ( $CHMe_2$ ), 25.9, 24.3 ppm (2  $\times$   $CHMe_2$ ).  $^{29}Si\{^1H\}$  NMR (99 MHz,  $C_6D_6$ ):  $\delta$  = 115.7 ppm.

### Synthesis of **1MesSi(SePh)<sub>2</sub>**

[ $SiCl_2(IPr)$ ] (24 mg, 0.05 mmol) and **1MesLi<sub>2</sub>** (23 mg, 0.05 mmol) were each dissolved in benzene (5 mL). Both solutions were frozen, then warmed carefully to a slushy state and combined. After reaching room temperature, a solution of diphenyl diselenide (16 mg, 0.05 mmol) in benzene (2 mL) was added to the stirred mixture. After 1 h volatile components were removed under reduced pressure. The residue was extracted with *n*-hexane (3  $\times$  5 mL) and the combined extract filtered through a short Celite pad. The filtrate was reduced to dryness under reduced pressure. IPr and trace amounts of **1MesH<sub>2</sub>** were removed from the dark yellow residue by sublimation (dynamic vacuum, final bath temperature 110 °C). Yield 27 mg (68 %).

$C_{40}H_{40}N_2FeSe_2Si$  (790.61): calcd. C 60.77, H 5.10, N 3.54 %; found C 60.99, H 5.14, N 3.43 %.

$^1H$  NMR (500 MHz,  $C_6D_6$ ):  $\delta$  = 7.35 (m, 4H, Ph), 6.86 (m, 2H, Ph), 6.67 (m, 4H, Ph), 6.70 (s, 4H,  $C_6H_2$ ), 4.62, 3.88 (2 s, 2  $\times$  4H,  $C_5H_4$ ), 2.60 (s, 12H, *o*-Me); 2.09 ppm (s, 6H, *p*-Me).  $^{13}C\{^1H\}$  NMR (101 MHz,  $C_6D_6$ ):  $\delta$  = 142.6, 138.4, 135.9 (3  $\times$   $C_{ipso}$  Mes), 134.7 (CH Ph), 130.3 (CH Mes), 128.6 ( $C_{ipso}$  Ph), 128.4, 126.8 (2  $\times$  CH Ph), 99.5 ( $C_{ipso}$   $C_5H_4$ ), 69.4, 68.0 (2  $\times$  CH  $C_5H_4$ ), 21.7 (*o*-Me), 20.8 ppm (*p*-Me).  $^{29}Si\{^1H\}$  NMR (99 MHz,  $C_6D_6$ ):  $\delta$  = -27.5 ppm.  $^{77}Se\{^1H\}$  NMR (95 MHz,  $C_6D_6$ ):  $\delta$  = 143.0 ppm.

### Synthesis of **1DippSi(SePh)<sub>2</sub>**

$C_6D_6$  (0.7 mL) was added to **1DippSi** (34 mg, 0.06 mmol) and diphenyl diselenide (20 mg, 0.06 mmol) in an NMR tube. After 12 h the solution was subjected to NMR spectroscopic analysis, which revealed essentially quantitative reaction. Slow evaporation of the solvent afforded the product as a yellow crystalline solid. Trace amounts of residual diphenyl

diselenide were removed by sublimation (dynamic vacuum, final bath temperature 110 °C). Yield 26 mg (50 %).

$C_{46}H_{52}N_2FeSe_2Si$  (874.77): calcd. C 63.16, H 5.99, N 3.20 %; found C 63.20, H 6.14, N 2.99 %.

$^1H$  NMR (500 MHz,  $C_6D_6$ ):  $\delta$  = 7.19 (s, 6H,  $C_6H_3$ ), 6.95 (m, 4H, Ph), 6.81 (m, 2H, Ph), 6.72 (m, 4H, Ph), 4.73 (s, 4H,  $C_5H_4$ ), 4.18 (sept,  $^3J_{HH}$  = 6.6 Hz, 4H,  $CHMe_2$ ), 3.89 (s, 4H,  $C_5H_4$ ), 1.48, 1.26 ppm (2 d,  $^3J_{HH}$  = 6.6 Hz, 2  $\times$  12H,  $CHMe_2$ ).  $^{13}C\{^1H\}$  NMR (101 MHz,  $C_6D_6$ ):  $\delta$  = 149.1 ( $CCHMe_2$ ), 142.6 ( $C_{ipso}$  Dipp), 135.6 (CH Ph), 131.7 ( $C_{ipso}$  Ph), 128.7 (CH Ph), 127.9 (CH Dipp), 126.8 (CH Ph), 125.7 (CH Dipp), 101.3 ( $C_{ipso}$   $C_5H_4$ ), 69.5, 68.2 (2  $\times$  CH  $C_5H_4$ ), 29.1 ( $CHMe_2$ ), 27.4, 25.5 ppm (2  $\times$   $CHMe_2$ ).  $^{29}Si\{^1H\}$  NMR (99 MHz,  $C_6D_6$ ):  $\delta$  = -29.0 ppm.  $^{77}Se\{^1H\}$  NMR (95 MHz,  $C_6D_6$ ):  $\delta$  = 149.3 ppm.

### Synthesis of (**1DippSiO<sub>2</sub>**)<sub>2</sub>C

The reaction was performed in an NMR tube sealed to a ground-glass joint. A solution of **1DippSi** (11 mg, 0.02 mmol) in  $C_6D_6$  (0.8 mL) was frozen with liquid dinitrogen and the NMR tube evacuated. Carbon dioxide (1.7 mL, 0.07 mmol) was introduced and the solution warmed to ambient temperature. Slow evaporation of the solvent afforded the product as a pale yellow crystalline solid. Yield 6 mg (51 %).

$C_{69}H_{84}N_4Fe_2O_4Si_2$  (1201.29): calcd. C 68.99, H 7.05, N 4.66 %; found C 68.37, H 7.06, N 4.23 %.

$^1H$  NMR (500 MHz,  $C_6D_6$ ):  $\delta$  = 7.11 (m, 4H,  $C_6H_3$ ), 7.05 (m, 8H,  $C_6H_3$ ), 4.33, 3.70 (2 s, 2  $\times$  8H,  $C_5H_4$ ), 3.70 (sept,  $^3J_{HH}$  = 6.7 Hz, 8H,  $CHMe_2$ ), 1.25, 1.12 ppm (2 d,  $^3J_{HH}$  = 6.7 Hz, 2  $\times$  24H,  $CHMe_2$ ).  $^{13}C\{^1H\}$  NMR (101 MHz,  $C_6D_6$ ):  $\delta$  = 147.8 ( $CCHMe_2$ ), 139.5 ( $C_{ipso}$  Dipp), 128.4 (CH Dipp), 127.6 ( $CO_4$ ), 125.1 (CH Dipp), 100.4 ( $C_{ipso}$   $C_5H_4$ ), 68.2, 68.1 (2  $\times$  CH  $C_5H_4$ ), 28.7 ( $CHMe_2$ ), 26.0, 25.3 ppm (2  $\times$   $CHMe_2$ ).  $^{29}Si\{^1H\}$  NMR (99 MHz,  $C_6D_6$ ):  $\delta$  = -57.9 ppm.

### Synthesis of (**1DippSiO<sub>2</sub>**)<sub>2</sub>

The reaction was performed in an NMR tube sealed to a ground-glass joint. A solution of **1DippSi** (11 mg, 0.02 mmol) in  $C_6D_6$  (0.8 mL) was frozen with liquid dinitrogen and the NMR tube evacuated. Nitrous oxide (1.7 mL, 0.07 mmol) was introduced and the solution warmed to ambient temperature. Slow evaporation of the solvent afforded the product as a pale yellow crystalline solid. Yield 6 mg (53 %).

$\text{C}_{68}\text{H}_{84}\text{N}_4\text{Fe}_2\text{O}_2\text{Si}_2$  (1157.28): calcd. C 70.57, H 7.31, N 4.84 %; found C 70.67, H 7.32, N 4.61 %.

$^1\text{H}$  NMR (500 MHz,  $\text{C}_6\text{D}_6$ ):  $\delta$  = 7.14 (m, 4H,  $\text{C}_6\text{H}_3$ ), 7.01 (m, 4H,  $\text{C}_6\text{H}_3$ ), 6.84 (m, 4H,  $\text{C}_6\text{H}_3$ ), 4.32 (s, 4H,  $\text{C}_5\text{H}_4$ ), 4.23 (sept,  $^3J_{\text{HH}} = 6.6$  Hz, 4H,  $\text{CHMe}_2$ ), 3.77, 3.65, 3.53 (3 s, 3  $\times$  4H,  $\text{C}_5\text{H}_4$ ), 3.16 (sept,  $^3J_{\text{HH}} = 6.7$  Hz, 4H,  $\text{CHMe}_2$ ), 1.80, (d,  $^3J_{\text{HH}} = 6.6$  Hz, 12H,  $\text{CHMe}_2$ ), 1.55 (d,  $^3J_{\text{HH}} = 6.7$  Hz, 12H,  $\text{CHMe}_2$ ), 0.64 (d,  $^3J_{\text{HH}} = 6.6$  Hz, 12H,  $\text{CHMe}_2$ ), 0.34 ppm (d,  $^3J_{\text{HH}} = 6.7$  Hz, 12H,  $\text{CHMe}_2$ ).  $^{13}\text{C}\{\text{H}\}$  NMR (101 MHz,  $\text{C}_6\text{D}_6$ ):  $\delta$  = 148.4, 145.8 (2  $\times$   $\text{CCHMe}_2$ ), 145.2 ( $\text{C}_{\text{ipso}}$  Dipp), 128.4, 127.2, 126.8, 125.5 (4  $\times$  CH Dipp), 108.0 ( $\text{C}_{\text{ipso}}$   $\text{C}_5\text{H}_4$ ), 71.3, 68.0, 67.6, 64.5 (4  $\times$  CH  $\text{C}_5\text{H}_4$ ), 29.2, 29.0 (2  $\times$   $\text{CHMe}_2$ ), 27.2 (two closely spaced signals), 26.2, 25.4 ppm (4  $\times$   $\text{CHMe}_2$ ).  $^{29}\text{Si}\{\text{H}\}$  NMR (99 MHz,  $\text{C}_6\text{D}_6$ ):  $\delta$  = -58.6 ppm.

### Synthesis of **1DippSi(H)OH**

The product is formed when benzene solutions of **1DippSi** are exposed to an inert gas atmosphere containing trace amounts of water, which may happen simply by serendipity. The following procedure, which was originally intended to be used for the reaction of the silylene with carbon suboxide, was found to afford the water addition product conveniently in reproducible yields. A 100 mL flask was charged with a mixture of malonic acid (150 mg, 1.44 mmol) and phosphorus pentoxide (1.50 g, 5.3 mmol) and connected with a glass elbow to an empty 100 mL Schlenk flask. The apparatus was connected to the Schlenk line and evacuated for ca. 20 min. The reaction flask was subsequently immersed in a heating bath kept at 140 °C for ca. 10 min under static vacuum. The resulting gaseous products were collected by condensation into the Schlenk flask cooled with liquid dinitrogen. This flask was disconnected from the reaction flask and the liquid dinitrogen bath replaced by an ethanol/liquid dinitrogen cooling bath (-110 °C), which was allowed to warm up to ambient temperature over the course of 4 h under ambient pressure (i. e. stopcock valve open to the Schlenk line). It was subsequently connected with a glass elbow to a 100 mL Schlenk flask containing a frozen solution of **1DippSi** (28 mg, 0.05 mmol) in toluene (7 mL), which was immersed in a liquid dinitrogen bath after closing the stopcock valve. The bath was removed and the apparatus allowed to warm up to ambient temperature under ambient pressure (i. e. stopcock valve open to the Schlenk line). The two flasks were disconnected. The solvent was removed under reduced pressure and the residue taken up in benzene. Slow evaporation of the solvent afforded the product as a yellow crystalline solid. Yield 18 mg (62 %).

$\text{C}_{34}\text{H}_{44}\text{N}_2\text{FeOSi}$  (580.66): calcd. C 70.33, H 7.64, N 4.82 %; found C 70.22, H 7.44, N 4.40 %.

<sup>1</sup>H NMR (500 MHz, C<sub>6</sub>D<sub>6</sub>):  $\delta$  = 7.10 (m, 6H, C<sub>6</sub>H<sub>3</sub>), 5.27 (s, 1H, SiH); 4.58, 4.52 (2 s, 2 × 2H, C<sub>5</sub>H<sub>4</sub>), 4.13, 4.03 (2 sept, <sup>3</sup>J<sub>HH</sub> = 6.8 Hz, 2 × 2H, CHMe<sub>2</sub>), 3.90 (s, 4H, C<sub>5</sub>H<sub>4</sub>), 1.56 (s, 1H, OH), 1.39, 1.30 ppm (2 m, 2 × 12H, m, CHMe<sub>2</sub>). <sup>13</sup>C{<sup>1</sup>H} NMR (101 MHz, C<sub>6</sub>D<sub>6</sub>):  $\delta$  = 149.8, 148.7 (2 × CCHMe<sub>2</sub>), 140.7 (C<sub>ipso</sub> Dipp), 127.5, 124.9, 124.7 (3 × CH Dipp), 101.4 (C<sub>ipso</sub> C<sub>5</sub>H<sub>4</sub>), 69.9, 68.0, 67.8, 67.5 (4 × CH C<sub>5</sub>H<sub>4</sub>), 28.6, 28.4, 25.9, 25.8 (4 × CHMe<sub>2</sub>), 25.4 ppm (two closely spaced signals, 2 × CHMe<sub>2</sub>). <sup>29</sup>Si{<sup>1</sup>H} NMR (99 MHz, C<sub>6</sub>D<sub>6</sub>):  $\delta$  = -45.7 ppm.

### Synthesis of **1DippSi(H)NH<sub>2</sub>**

The reaction was performed in an NMR tube sealed to a ground-glass joint. A solution of **1DippSi** (17 mg, 0.03 mmol) in C<sub>6</sub>D<sub>6</sub> (0.8 mL) was frozen with liquid dinitrogen and the NMR tube evacuated. Ammonia (1.0 mL, 0.04 mmol) was introduced and the solution warmed to ambient temperature. Slow evaporation of the solvent afforded the product as a yellow crystalline solid. Yield 12 mg (69 %).

C<sub>34</sub>H<sub>45</sub>N<sub>3</sub>FeSi (579.67): calcd. C 70.45, H 7.83, N 7.25 %; found C 70.33, H 7.95, N 7.01 %.

<sup>1</sup>H NMR (500 MHz, C<sub>6</sub>D<sub>6</sub>):  $\delta$  = 7.13 (m, 6H, C<sub>6</sub>H<sub>3</sub>), 5.76 (t, <sup>3</sup>J<sub>HH</sub> = 3.5 Hz, 1H, SiH), 4.58, 4.49 (2 s, 2 × 2H, C<sub>5</sub>H<sub>4</sub>), 4.12, 4.05 (2 sept, <sup>3</sup>J<sub>HH</sub> = 6.9 Hz, 2 × 2H, CHMe<sub>2</sub>), 3.92, 3.90 (2 s, 2 × 2H, C<sub>5</sub>H<sub>4</sub>), 1.38, 1.35, 1.34, 1.27 (4 d, <sup>3</sup>J<sub>HH</sub> = 6.9 Hz, 4 × 6H, CHMe<sub>2</sub>), 0.37 ppm (br. s, 2H, NH<sub>2</sub>). <sup>13</sup>C{<sup>1</sup>H} NMR (101 MHz, C<sub>6</sub>D<sub>6</sub>):  $\delta$  = 148.9, 148.7 (2 × CCHMe<sub>2</sub>), 142.6 (C<sub>ipso</sub> Dipp), 128.6, 127.1, 125.0, 124.5 (4 × CH Dipp), 101.0 (C<sub>ipso</sub> C<sub>5</sub>H<sub>4</sub>), 71.0, 67.8, 67.4, 66.3 (4 × CH C<sub>5</sub>H<sub>4</sub>), 28.8, 28.1 (2 × CHMe<sub>2</sub>), 26.1, 26.0, 25.9, 25.0 ppm (4 × CHMe<sub>2</sub>). <sup>29</sup>Si{<sup>1</sup>H} NMR (99 MHz, C<sub>6</sub>D<sub>6</sub>):  $\delta$  = -42.4 ppm.

### Synthesis of **1DippSi(H)(PHFc)**

A suspension of ferrocenylphosphine (11 mg, 0.05 mmol) in *n*-hexane (4 mL) was added to a stirred solution of **1DippSi** (28 mg, 0.05 mmol) in toluene (4 mL). After 12 h volatile components were removed under reduced pressure. The residue was taken up in a minimal amount of benzene. Slow evaporation of the solvent afforded the product as a yellow crystalline solid. Yield 27 mg (69 %).

C<sub>44</sub>H<sub>53</sub>N<sub>2</sub>Fe<sub>2</sub>PSi (780.66): calcd. C 67.70, H 6.84, N 3.59 %; found C 67.14, H 6.94, N 3.66 %.

<sup>1</sup>H NMR (500 MHz, C<sub>6</sub>D<sub>6</sub>):  $\delta$  = 7.24 (m, 1H, C<sub>6</sub>H<sub>3</sub>), 7.15, 7.11 (2 m, 2 × 2H, C<sub>6</sub>H<sub>3</sub>), 6.98 (m, 1H, C<sub>6</sub>H<sub>3</sub>), 6.49 (d, <sup>2</sup>J<sub>PH</sub> = 11.9 Hz, 1H, SiH); 4.65 (s, 2H, C<sub>5</sub>H<sub>4</sub>), 4.60, 4.57 (2 m, 2 × 1H, C<sub>5</sub>H<sub>4</sub>), 4.28, 4.20, 4.04 (3 sept, <sup>3</sup>J<sub>HH</sub> = 6.7 Hz, 3 × 1H, CHMe<sub>2</sub>), 3.90 (m, 6H, C<sub>5</sub>H<sub>4</sub>), 3.80 (s,

1H, C<sub>5</sub>H<sub>4</sub>), 3.74 (sept, <sup>3</sup>J<sub>HH</sub> = 6.7 Hz, 1H, CHMe<sub>2</sub>), 3.70 (s, 5H, Cp), 3.08 (s, 1H, C<sub>5</sub>H<sub>4</sub>), 2.80 (d, <sup>1</sup>J<sub>PH</sub> = 210.0 Hz, 1H, PH), 1.81, 1.70, 1.49, 1.44, 1.42, 1.22, 1.08, 0.94 ppm (8 d, <sup>3</sup>J<sub>HH</sub> = 6.7 Hz, 8 × 3H, CHMe<sub>2</sub>). <sup>13</sup>C{<sup>1</sup>H} NMR (101 MHz, C<sub>6</sub>D<sub>6</sub>): δ = 149.8, 149.3, 148.9, 148.6 (4 × CCHMe<sub>2</sub>), 142.6, 141.7 (2 × C<sub>ipso</sub> Dipp), 127.6, 127.3, 125.4, 125.1, 124.9, 124.6 (6 × CH Dipp), 102.5, 102.4 (2 × C<sub>ipso</sub> C<sub>5</sub>H<sub>4</sub>), 75.7 (d, J<sub>PC</sub> = 34.7 Hz, CH C<sub>5</sub>H<sub>4</sub>), 74.0 (d, J<sub>PC</sub> = 9.4 Hz, CH C<sub>5</sub>H<sub>4</sub>), 72.0, 71.4 (2 × CH C<sub>5</sub>H<sub>4</sub>), 70.7 (d, J<sub>PC</sub> = 8.2 Hz, CH C<sub>5</sub>H<sub>4</sub>), 70.0 (CH, C<sub>5</sub>H<sub>4</sub>), 69.6 (Cp), 67.8 (d, J<sub>PC</sub> = 13.5 Hz, CH C<sub>5</sub>H<sub>4</sub>), 67.3 (d, J<sub>PC</sub> = 8.2 Hz, CH C<sub>5</sub>H<sub>4</sub>), 66.5 (d, J<sub>PC</sub> = 10.8 Hz, C<sub>ipso</sub> Fc), 65.7, 65.1 (2 × CH C<sub>5</sub>H<sub>4</sub>), 28.9 (two closely spaced signals), 28.3 (3 × CHMe<sub>2</sub>), 28.5 (d, J<sub>PC</sub> = 3.1 Hz, CHMe<sub>2</sub>), 27.1, 26.6, 26.2, 25.5 (two closely spaced signals), 24.7 (6 × CHMe<sub>2</sub>), 26.4 ppm (d, J<sub>PC</sub> = 9.4 Hz, CHMe<sub>2</sub>), 25.6 (d, J<sub>PC</sub> = 10.9 Hz, CHMe<sub>2</sub>). <sup>29</sup>Si NMR (99 MHz, C<sub>6</sub>D<sub>6</sub>): δ = -18.6 ppm (ddd, <sup>1</sup>J<sub>SiH</sub> = 235 Hz, <sup>1</sup>J<sub>Ps</sub>i = 11 Hz, <sup>2</sup>J<sub>SiH</sub> = 5 Hz). <sup>31</sup>P{<sup>1</sup>H} NMR (202 MHz, C<sub>6</sub>D<sub>6</sub>): δ = -159.2 ppm.

### Synthesis of **1DippSi(H)(BH<sub>2</sub>NH<sub>3</sub>)**

Ammonia-borane (1.2 mg, 0.04 mmol) was added to a solution of **1DippSi** (21.9 mg, 0.039 mmol) in toluene (5 mL). The mixture was stirred for 12 h. Volatile components were removed under reduced pressure. The residue was taken up in benzene (1 mL). Slow evaporation of the solvent afforded the product as a pale yellow crystalline solid. Yield 12.7 mg (55 %).

C<sub>34</sub>H<sub>48</sub>N<sub>3</sub>BFeSi (593.51): calcd. C 68.81, H 8.15, N 7.08 %; found C 68.86, H 8.33, N 6.24 %.

<sup>1</sup>H NMR (500 MHz, C<sub>6</sub>D<sub>6</sub>): δ = 7.12, 7.06, 7.00 (3 m, 3 × 2H, C<sub>6</sub>H<sub>3</sub>), 6.28 (br. s, 1H, SiH), 4.83, 4.63 (2 s, 2 × 2H, C<sub>5</sub>H<sub>4</sub>), 4.37, 4.24 (2 sept, <sup>3</sup>J<sub>HH</sub> = 6.8 Hz, 2 × 2H, CHMe<sub>2</sub>), 4.03, 3.95 (2 m, 2 × 2H, C<sub>5</sub>H<sub>4</sub>), 1.55, 1.45, 1.32, 1.23 (4 d, <sup>3</sup>J<sub>HH</sub> = 6.8 Hz, 4 × 6H, CHMe<sub>2</sub>), 0.89 ppm (t, <sup>3</sup>J<sub>HH</sub> = 7.0 Hz, 3H, NH<sub>3</sub>). <sup>13</sup>C{<sup>1</sup>H} NMR (101 MHz, C<sub>6</sub>D<sub>6</sub>): δ = 149.5, 148.9 (2 × CCHMe<sub>2</sub>), 144.7 (C<sub>ipso</sub> Dipp), 125.9, 124.1, 123.9 (3 × CH Dipp), 105.2 (C<sub>ipso</sub> C<sub>5</sub>H<sub>4</sub>), 71.5, 66.9, 65.9, 64.8 (4 × CH C<sub>5</sub>H<sub>4</sub>), 28.2, 27.6 (2 × CHMe<sub>2</sub>), 26.4, 25.6, 25.3, 25.2 ppm (4 × CHMe<sub>2</sub>).

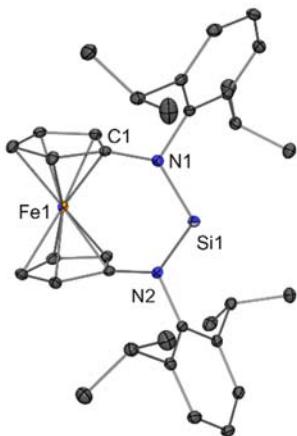
<sup>11</sup>B{<sup>1</sup>H} NMR (160 MHz): δ = -23.2 ppm. Signals due to boron-bonded Si and H atoms could not be detected, as has been noted before for related compounds such as, for example, (Me<sub>3</sub>Si)<sub>3</sub>SiBH<sub>2</sub>NEt<sub>3</sub>.<sup>[S4]</sup>

## B X-Ray Crystallography

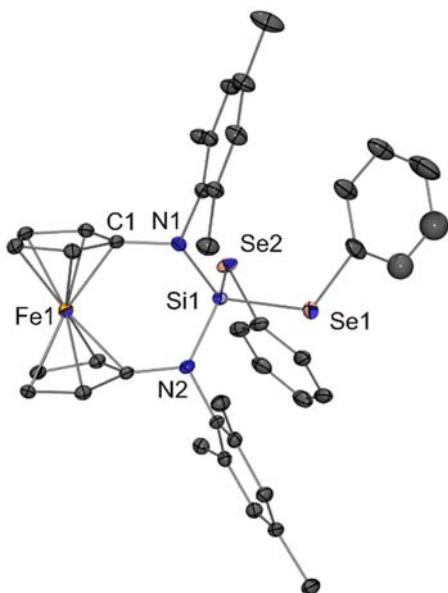
For each data collection a single crystal was mounted on a micro-mount and all geometric and intensity data were taken from this sample. Data collections were carried out at 100(2) K using MoK $\alpha$  radiation ( $\lambda = 0.71073 \text{ \AA}$ ) either on a Stoe IPDS2 diffractometer equipped with a 2-circle goniometer and an area detector, or on a Stoe StadiVari diffractometer equipped with a 4-circle goniometer and a DECTRIS Pilatus 200K detector. The data sets were corrected for absorption, Lorentz and polarisation effects. The structures were solved by direct methods (SHELXT) and refined using alternating cycles of least-squares refinements against  $F^2$  (SHELXL2014/7).<sup>[S5]</sup> C-bonded H atoms were included to the models in calculated positions, heteroatom-bonded H atoms have been found in the difference Fourier lists. All H atoms were treated with the 1.2 fold or 1.5 fold isotropic displacement parameter of their bonding partner. Experimental details for each diffraction experiment are given in Table S1. CCDC 2025512 – 2025520 contain the supplementary crystallographic data for this paper. These data are provided free of charge by The Cambridge Crystallographic Data Centre.

**Table S1.** X-ray crystallographic details.

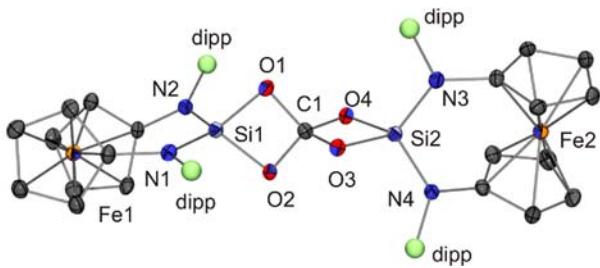
	<b>1DippSi-C<sub>6</sub>H<sub>6</sub></b>	<b>1DippSi(H)OH</b>	<b>1DippSi(H)NH<sub>2</sub>-C<sub>6</sub>H<sub>6</sub></b>	<b>1DippSi(H)PHFc</b>	<b>1DippSi(H)(BH<sub>2</sub>NH<sub>3</sub>) C<sub>6</sub>H<sub>6</sub></b>	<b>1MesSi(SePh)<sub>2</sub></b>	<b>1DippSi(SePh)<sub>2</sub>-½C<sub>6</sub>H<sub>6</sub></b>	<b>(1DippSiO)<sub>2</sub>-3C<sub>6</sub>H<sub>6</sub></b>	<b>(1DippSiO<sub>2</sub>)<sub>2</sub>C-2C<sub>6</sub>H<sub>6</sub></b>
Chemical formula	C <sub>40</sub> H <sub>48</sub> FeN <sub>2</sub> Si	C <sub>34</sub> H <sub>44</sub> FeN <sub>2</sub> OSi	C <sub>40</sub> H <sub>51</sub> FeN <sub>3</sub> Si	C <sub>44</sub> H <sub>53</sub> Fe <sub>2</sub> N <sub>2</sub> PSi	C <sub>40</sub> H <sub>54</sub> BFeN <sub>3</sub> Si	C <sub>40</sub> H <sub>40</sub> FeN <sub>2</sub> Se <sub>2</sub> Si	C <sub>49</sub> H <sub>55</sub> FeN <sub>2</sub> Se <sub>2</sub> Si	C <sub>86</sub> H <sub>102</sub> Fe <sub>2</sub> N <sub>4</sub> O <sub>2</sub> Si <sub>2</sub>	C <sub>81</sub> H <sub>96</sub> Fe <sub>2</sub> N <sub>4</sub> O <sub>4</sub> Si <sub>2</sub>
Formula mass	640.74	580.65	657.77	780.64	671.61	790.60	913.81	1391.59	1357.49
Crystal system	triclinic	monoclinic	triclinic	orthorhombic	monoclinic	monoclinic	monoclinic	monoclinic	monoclinic
Space group	P-1	P2 <sub>1</sub> /n	P-1	P2 <sub>1</sub> 2 <sub>1</sub> 2 <sub>1</sub>	P2 <sub>1</sub> /n	P2 <sub>1</sub> /c	P2 <sub>1</sub> /n	C2/c	P2 <sub>1</sub> /n
a/Å	9.6664(3)	14.7950(5)	9.9324(7)	21.6987(6)	9.8394(2)	11.0243(4)	17.9177(10)	18.6690(9)	15.3561(7)
b/Å	9.8648(3)	9.9505(4)	11.8878(8)	10.6299(3)	29.5924(7)	8.4164(2)	11.7160(5)	20.9176(8)	19.8360(12)
c/Å	19.0474(6)	20.9936(7)	15.0050(8)	16.7015(6)	12.7890(3)	37.7848(14)	21.8288(13)	18.4822(9)	23.5810(12)
α/°	97.704(2)	90	93.880(5)	90	90	90	90	90	90
β/°	103.986(2)	106.856(2)	96.851(5)	90	103.655(2)	97.041(3)	114.131(4)	96.024(4)	101.838(4)
γ/°	99.817(2)	90	99.294(5)	90	90	90	90	90	90
U/Å <sup>3</sup>	1707.23(9)	2957.8(2)	1729.1(2)	3852.3(2)	3618.54(14)	3479.4(2)	4181.9(4)	7177.6(6)	7030.1(6)
Z	2	4	2	4	4	4	4	4	4
μ/mm <sup>-1</sup>	4.094	0.580	0.503	0.860	0.482	2.592	2.167	0.490	4.051
F(000)	684	1240	704	1648	1440	1608	1884	2968	2888
Crystal size/mm <sup>3</sup>	0.29 × 0.22 × 0.15	0.18 × 0.15 × 0.01	0.53 × 0.32 × 0.21	0.13 × 0.06 × 0.05	0.26 × 0.22 × 0.21	0.28 × 0.16 × 0.05	0.22 × 0.21 × 0.06	0.17 × 0.15 × 0.04	0.17 × 0.08 × 0.06
Absorption correction	multi-scan	integration	integration	multi-scan	multi-scan	integration	integration	integration	integration
T <sub>min</sub> /T <sub>max</sub>	0.2341/0.5229	0.9224/0.9927	0.7670/0.9100	0.8034/0.9583	0.5818/0.8771	0.6331/0.8916	0.6049/0.6882	0.9167/0.9814	0.6193/0.8100
θ range/°	4.628 – 70.974	1.500 – 25.661	1.743 – 25.993	1.539 – 25.989	1.777 – 26.000	1.861 – 25.499	1.247 – 25.500	1.767 – 26.999	2.938 – 68.496
Reflections measured	13805	13419	11494	12751	27029	15636	28744	15666	29515
Independent reflections	6303	5557	6740	7550	7107	6462	7778	7722	12559
[R <sub>int</sub> ]	[0.0151]	[0.0201]	[0.0488]	[0.0550]	[0.0175]	[0.0450]	[0.0272]	[0.0468]	[0.0702]
Parameters	405	366	417	465	427	431	504	443	854
Final R <sub>1</sub> (wR <sub>2</sub> ) [I > 2σ(I)]	0.0295 (0.0785)	0.0330 (0.0788)	0.0625 (0.1600)	0.0538 (0.1152)	0.0338 (0.0850)	0.0516 (0.1328)	0.0282 (0.0730)	0.0423 (0.0967)	0.0797 (0.2080)
Final R <sub>1</sub> (wR <sub>2</sub> ) [all data]	0.0309 (0.0796)	0.0404 (0.0876)	0.0800 (0.1725)	0.0843 (0.1561)	0.0404 (0.0919)	0.0620 (0.1408)	0.0345 (0.0782)	0.0676 (0.1093)	0.1142 (0.2475)
Goodness of fit	1.052	1.046	1.074	1.116	1.061	1.042	0.818	1.010	1.064
Residual electron density/eÅ <sup>-3</sup>	-0.530 – 0.260	-0.303 – 0.801	-0.826 – 1.506	-1.347 – 1.140	-0.313 – 0.497	-0.668 – 1.959	-0.335 – 0.492	-0.497 – 0.433	-0.927 – 0.877
CCDC No.	2025512	2025513	2025514	2025515	2025516	2025517	2025518	2025519	2025520



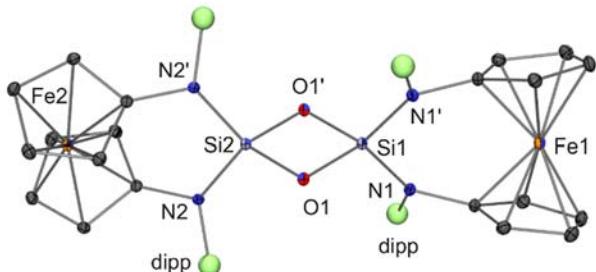
**Figure S1.** Molecular structure of **1DippSi** (ORTEP plot, 30 % ellipsoids) in the crystal. Hydrogen atoms have been omitted for clarity. Selected bond lengths [ $\text{\AA}$ ] and angles [ $^\circ$ ]: Si1–N1 1.7327(12), Si1–N2 1.7344(12), N1–Si1–N2 106.58(6); sum of angles ( $\Sigma\alpha$ ) at N1 359.9, at N2 360.0



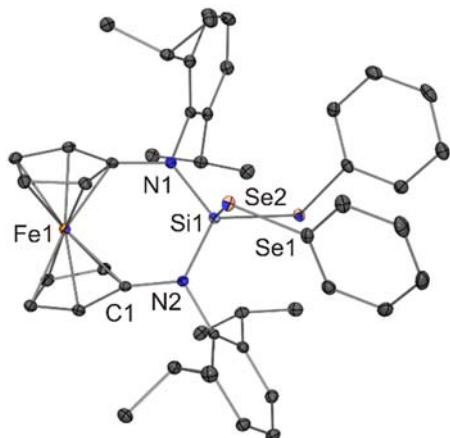
**Figure S2.** Molecular structure of **1MesSi(SePh)<sub>2</sub>** (ORTEP plot, 30 % ellipsoids) in the crystal. Hydrogen atoms have been omitted for clarity. Selected bond lengths [ $\text{\AA}$ ] and angles [ $^\circ$ ]: Si1–N1 1.736(3), Si1–N2 1.739(3), Si1–Se1 2.2915(10), Si1–Se2 2.2773(10), N1–Si1–N2 112.46(14), Se1–Si1–Se2 111.61(4);  $\Sigma\alpha$  at N1 359.4, at N2 360.0.



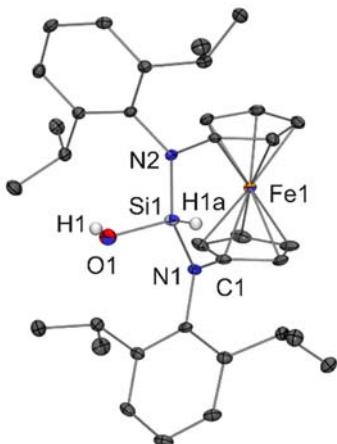
**Figure S3.** Molecular structure of  $(\text{1DippSiO}_2)_2\text{C} \cdot 2\text{C}_6\text{H}_6$  (ORTEP plot, 30 % ellipsoids) in the crystal. Hydrogen atoms and the atoms of the Dipp groups, except the N-bonded  $\text{C}_{\text{ipso}}$  atoms (dipp, shown as circles of arbitrary size in pale green), as well as the solvent molecules have been omitted for clarity. Selected bond lengths [ $\text{\AA}$ ] and angles [ $^\circ$ ]: Si1–N1 1.694(4), Si1–N2 1.700(4), Si1–O1 1.677(3), Si1–O2 1.667(3), Si2–N3 1.713(4), Si2–N4 1.704(4), Si2–O3 1.670(3), Si2–O4 1.681(3), C1–O1 1.402(6), C1–O2 1.420(6), C1–O3 1.403(5), C1–O4 1.402(6), N1–Si1–N2 112.7(2), N3–Si2–N4 112.9(2), O1–Si1–O2 80.7(2), O3–Si2–O4 80.7(2);  $\Sigma\chi$  at N1 359.9, at N2 359.9, at N3 360.0, at N4 360.0.



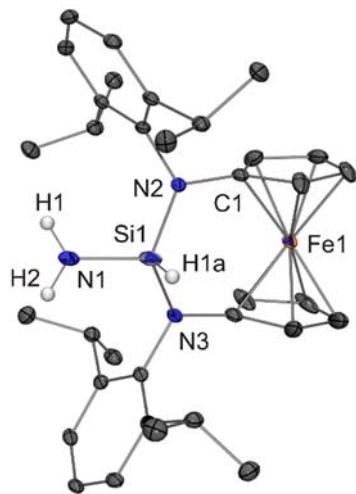
**Figure S4.** Molecular structure of  $(\text{1DippSiO})_2 \cdot 3\text{C}_6\text{H}_6$  (ORTEP plot, 30 % ellipsoids) in the crystal. Hydrogen atoms and the atoms of the Dipp groups, except for the N-bonded  $\text{C}_{\text{ipso}}$  atoms (dipp, shown as circles of arbitrary size in pale green), as well as solvent molecules have been omitted for clarity. Selected bond lengths [ $\text{\AA}$ ] and angles [ $^\circ$ ]: Si1–N1 1.733(2), Si2–N2 1.740(2), Si1–O1 1.6819(15), Si2–O1 1.6791(15), N1–Si1–N1' 107.24(12), N2–Si2–N2' 106.50(12), O1–Si1–O1' 86.86(11), O1–Si2–O1' 87.04(10);  $\Sigma\chi$  at N1 359.8, at N2 359.9.



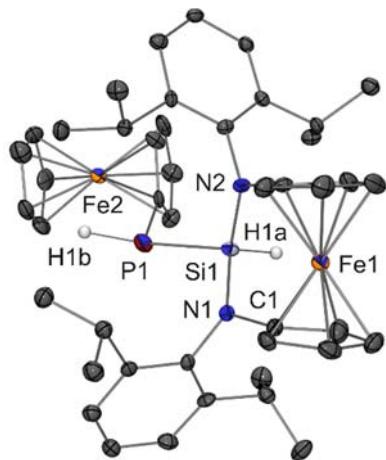
**Figure S5.** Molecular structure of **1DippSi(SePh)<sub>2</sub>·½C<sub>6</sub>H<sub>6</sub>** (ORTEP plot, 30 % ellipsoids) in the crystal. Hydrogen atoms and the solvent molecule have been omitted for clarity. Selected bond lengths [Å] and angles [°]: Si1–N1 1.745(2), Si1–N2 1.741(2), Si1–Se1 2.2717(6), Si1–Se2 2.2959(6), N1–Si1–N2 109.49(9), Se1–Si1–Se2 107.56(3);  $\Sigma\alpha$  at N1 359.4, at N2 360.0.



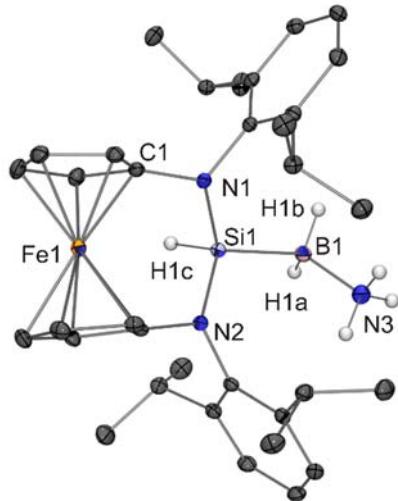
**Figure S6.** Molecular structure of **1DippSi(H)(OH)** (ORTEP plot, 30 % ellipsoids) in the crystal. C-bonded hydrogen atoms have been omitted for clarity. Selected bond lengths [Å] and angles [°]: Si1–N1 1.7197(16), Si1–N2 1.7199(16), Si1–O1 1.6071(16), N1–Si1–N2 111.49(8);  $\Sigma\alpha$  at N1 359.9, at N2 359.4.



**Figure S7.** Molecular structure of **1DippSi(H)(NH<sub>2</sub>)·C<sub>6</sub>H<sub>6</sub>** (ORTEP plot, 30 % ellipsoids) in the crystal. C-bonded hydrogen atoms and the solvent molecule have been omitted for clarity. Selected bond lengths [Å] and angles [°]: Si1–N1 1.691(4), Si1–N2 1.721(3), Si1–N3 1.730(3), N2–Si1–N3 111.72(14); Σ<sub>4</sub> at N2 358.5, at N3 358.0.

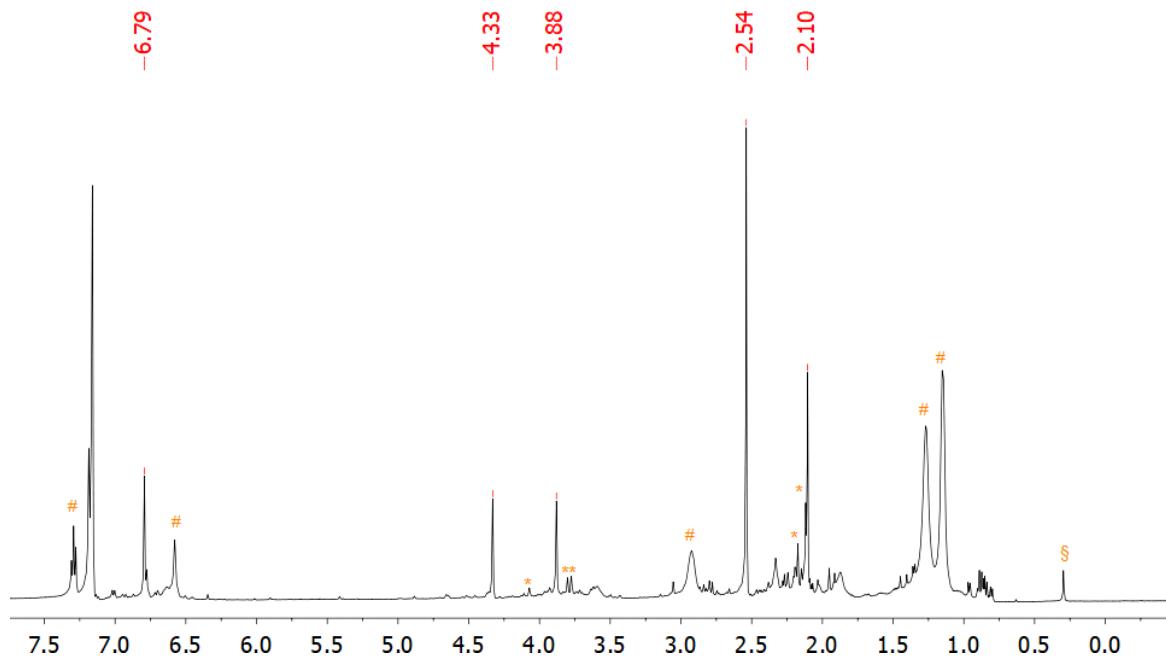


**Figure S8.** Molecular structure of **1DippSi(H)(PHFc)** (ORTEP plot, 30 % ellipsoids) in the crystal. C-bonded hydrogen atoms have been omitted for clarity. Selected bond lengths [Å] and angles [°]: Si1–N1 1.734(7), Si1–N2 1.721(7), Si1–P1 2.255(4), N1–Si–N2 110.3(3), Si1–P1–C35 104.4(3); Σ<sub>4</sub> at N1 357.9, at N2 357.8.

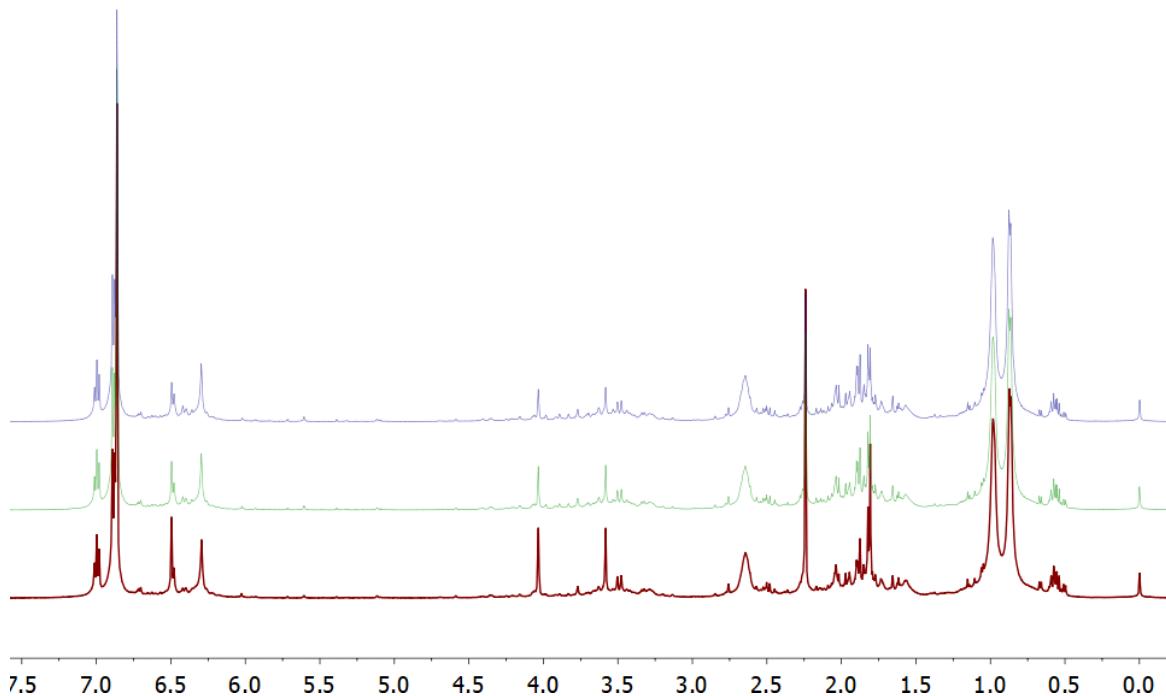


**Figure S9.** Molecular structure of **1DippSi(H)(BH<sub>2</sub>NH<sub>3</sub>)** (ORTEP plot, 30 % ellipsoids) in the crystal. C-bonded hydrogen atoms have been omitted for clarity. Selected bond lengths [Å] and angles [°]: Si1–N1 1.7571(14), Si1–N2 1.7694(14), Si1–B1 2.008(2), N3–B1 1.600(3), N1–Si–N2 107.84(7), Si1–B1–N1 116.41(13);  $\Sigma\chi$  at N1 358.3, at N2 356.6

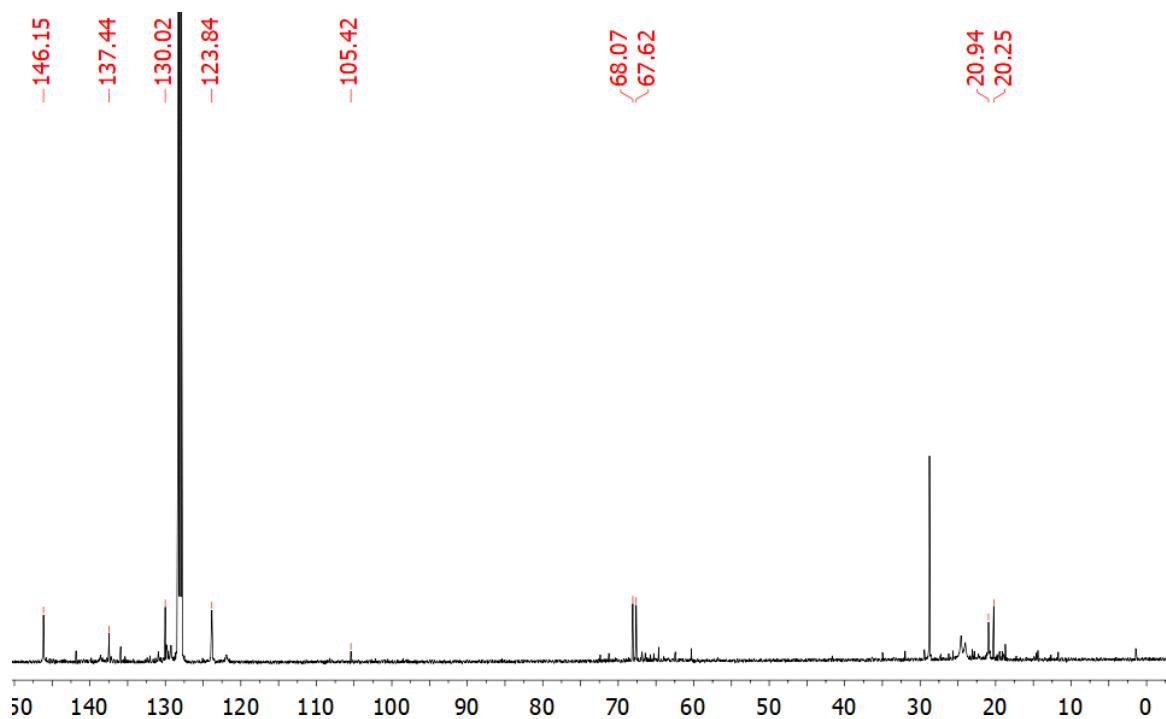
### C Plots of NMR Spectra



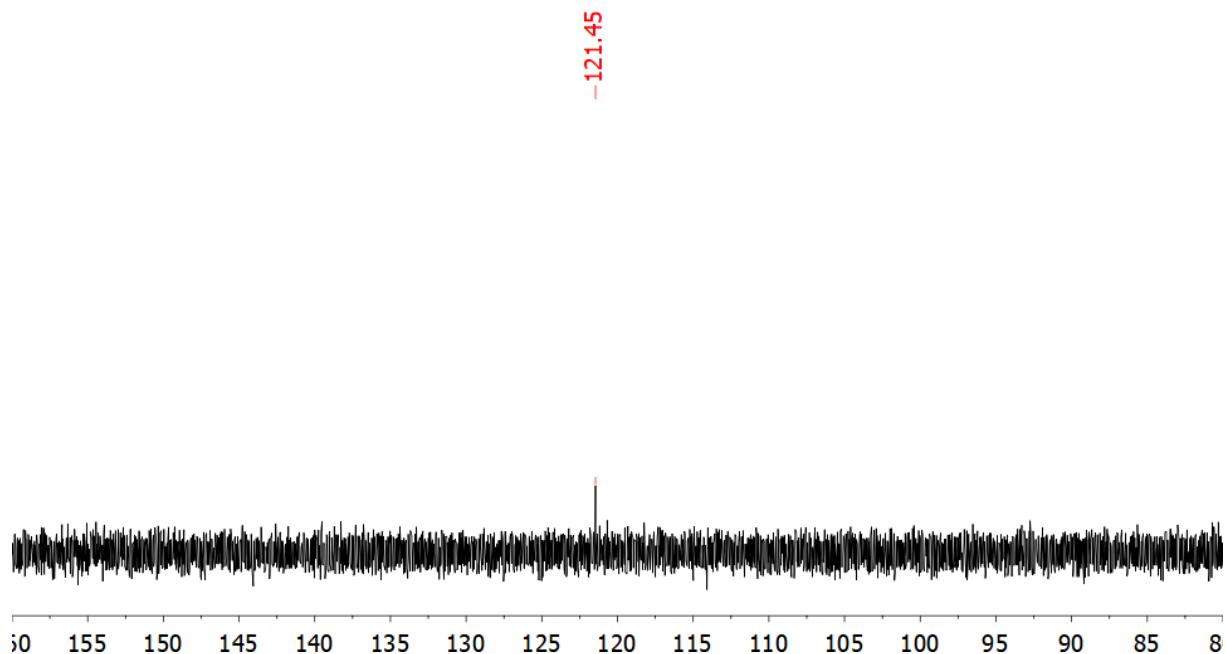
**Figure S10.**  $^1\text{H}$  NMR spectrum of **1MesSi** ( $\text{C}_6\text{D}_6$ , 499.7 MHz) generated from **1MesLi**<sub>2</sub> and  $[\text{SiCl}_2(\text{IPr})]$  in an NMR experiment. Signals marked belong to IPr (#), **1MesH**<sub>2</sub> (\*) and silicon grease (§).



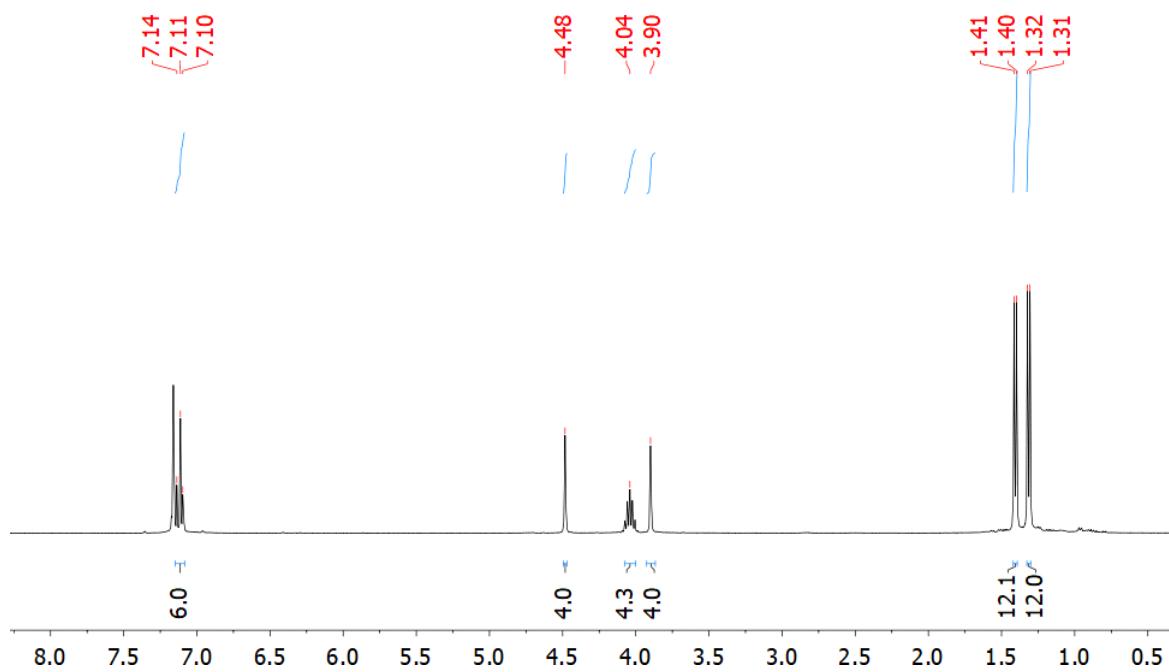
**Figure S11.**  $^1\text{H}$  NMR spectra of **1MesSi** (generated from **1MesLi**<sub>2</sub> and  $[\text{SiCl}_2(\text{IPr})]$  in an NMR experiment) after 15 minutes (red), 1 h (green) and 2.5 h (violet) ( $\text{C}_6\text{D}_6$ , 499.7 MHz).



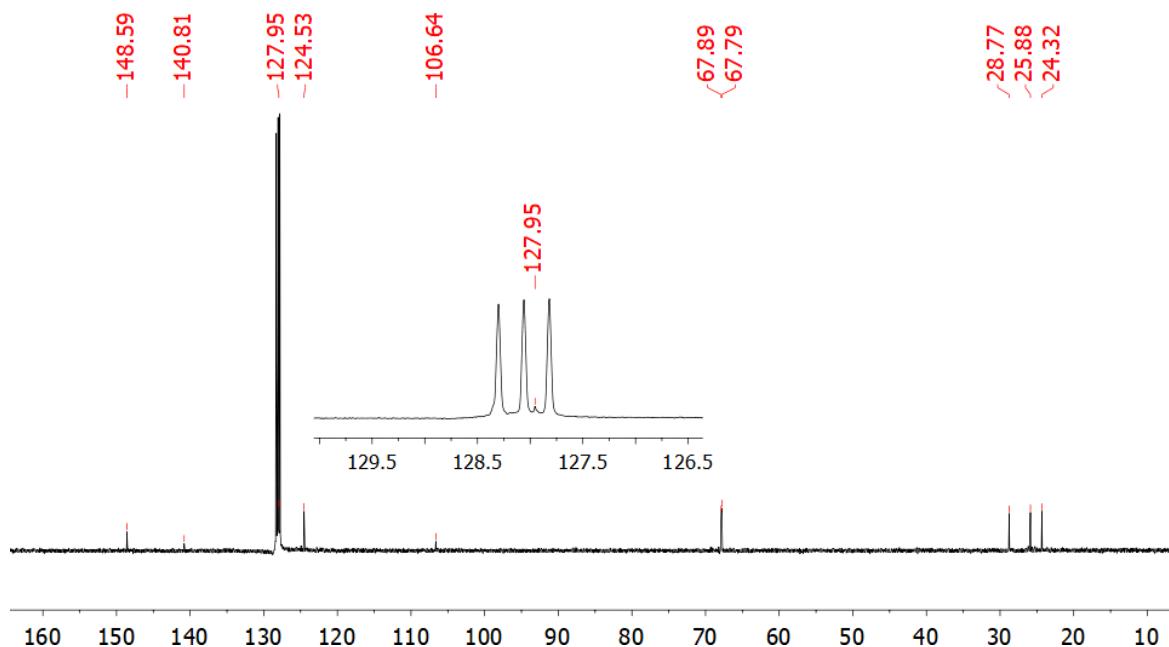
**Figure S12.**  $^{13}\text{C}\{\text{H}\}$  NMR spectrum of **1MesSi** ( $\text{C}_6\text{D}_6$ , 100.5 MHz) generated from **1MesLi<sub>2</sub>** and  $[\text{SiCl}_2(\text{IPr})]$  in an NMR experiment.



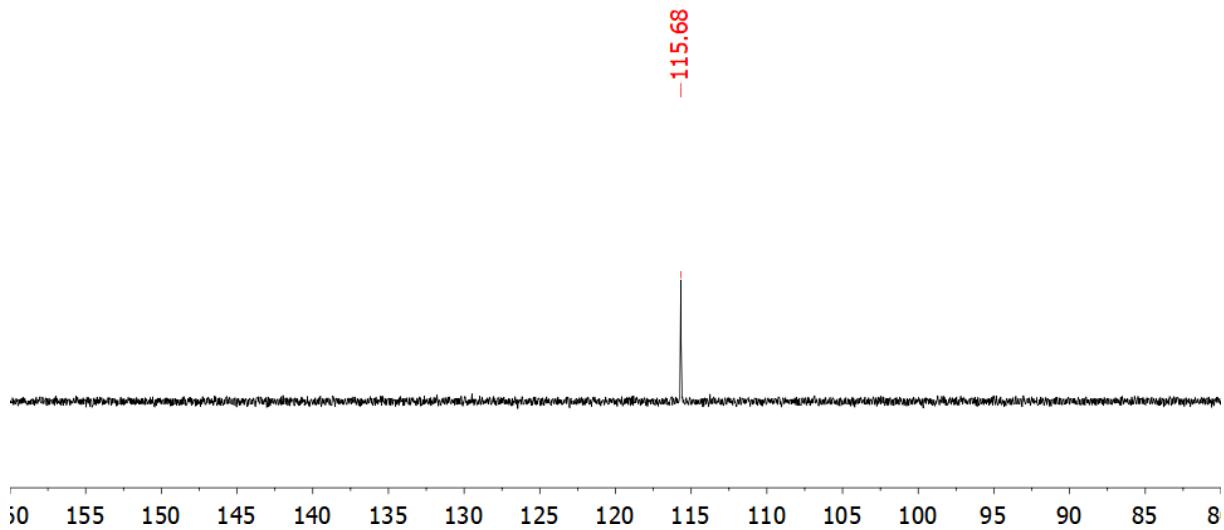
**Figure S13.**  $^{29}\text{Si}\{\text{H}\}$  NMR spectrum of **1MesSi** ( $\text{C}_6\text{D}_6$ , 99.3 MHz) generated from **1MesLi<sub>2</sub>** and  $[\text{SiCl}_2(\text{IPr})]$  in an NMR experiment.



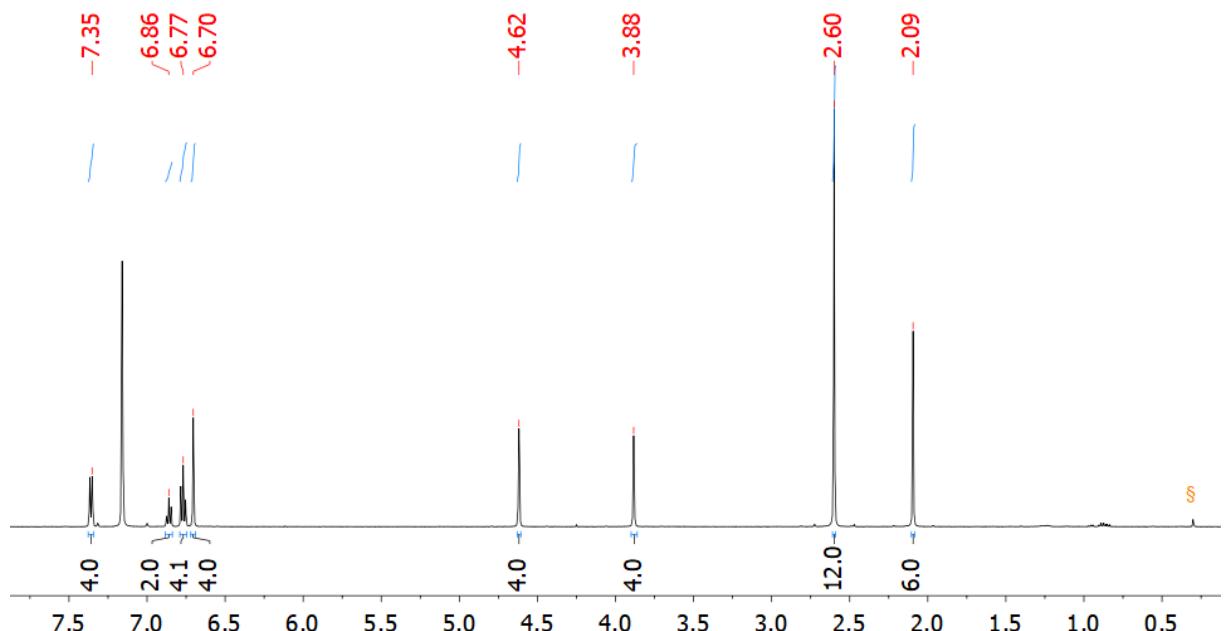
**Figure S14.**  $^1\text{H}$  NMR spectrum of **1DippSi** ( $\text{C}_6\text{D}_6$ , 499.7 MHz).



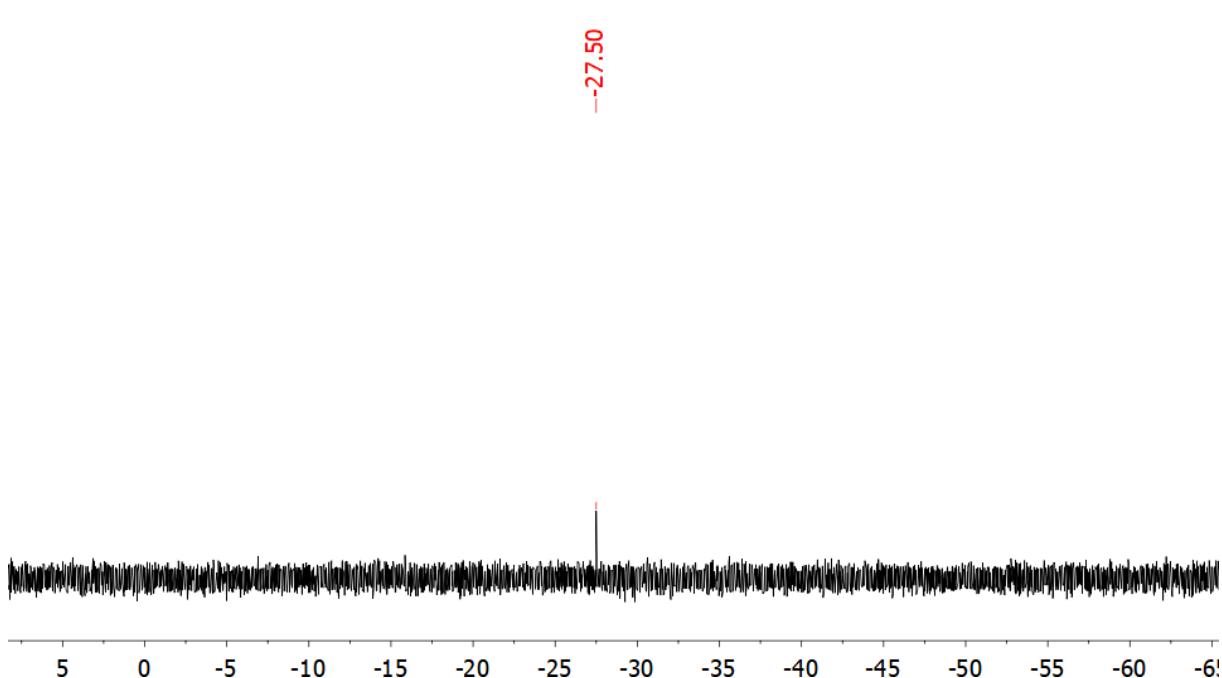
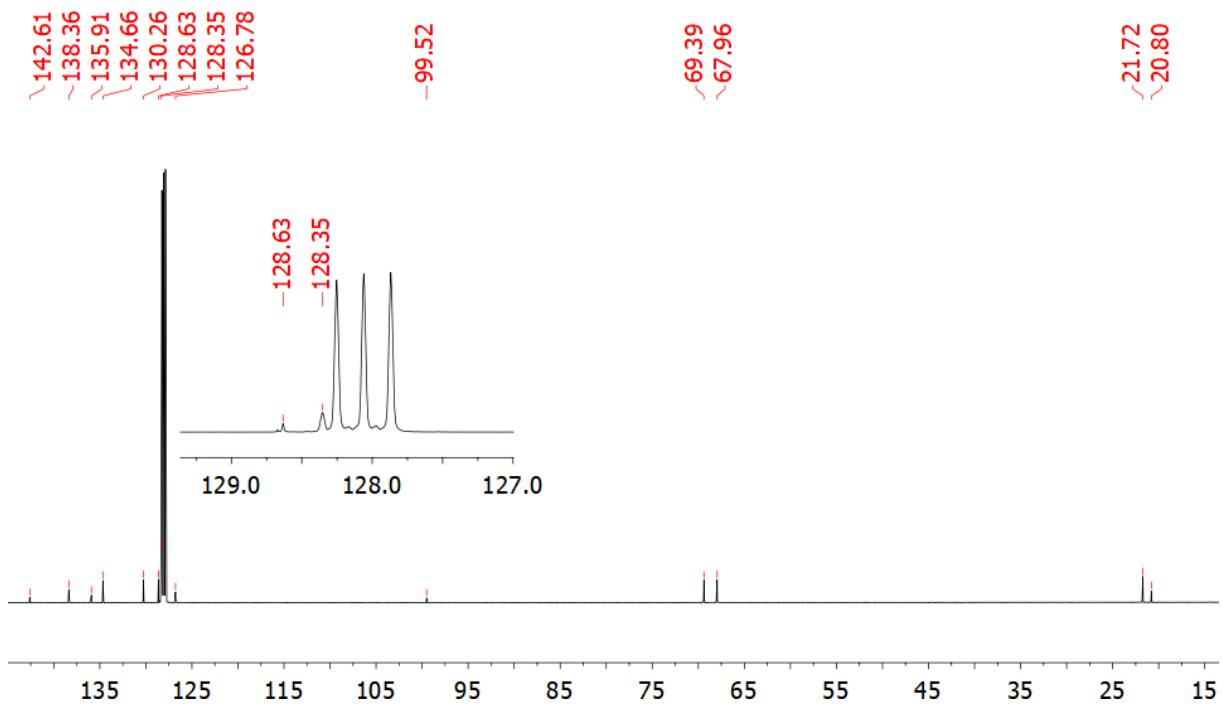
**Figure S15.**  $^{13}\text{C}\{\text{H}\}$  NMR spectrum **1DippSi** ( $\text{C}_6\text{D}_6$ , 100.5 MHz).

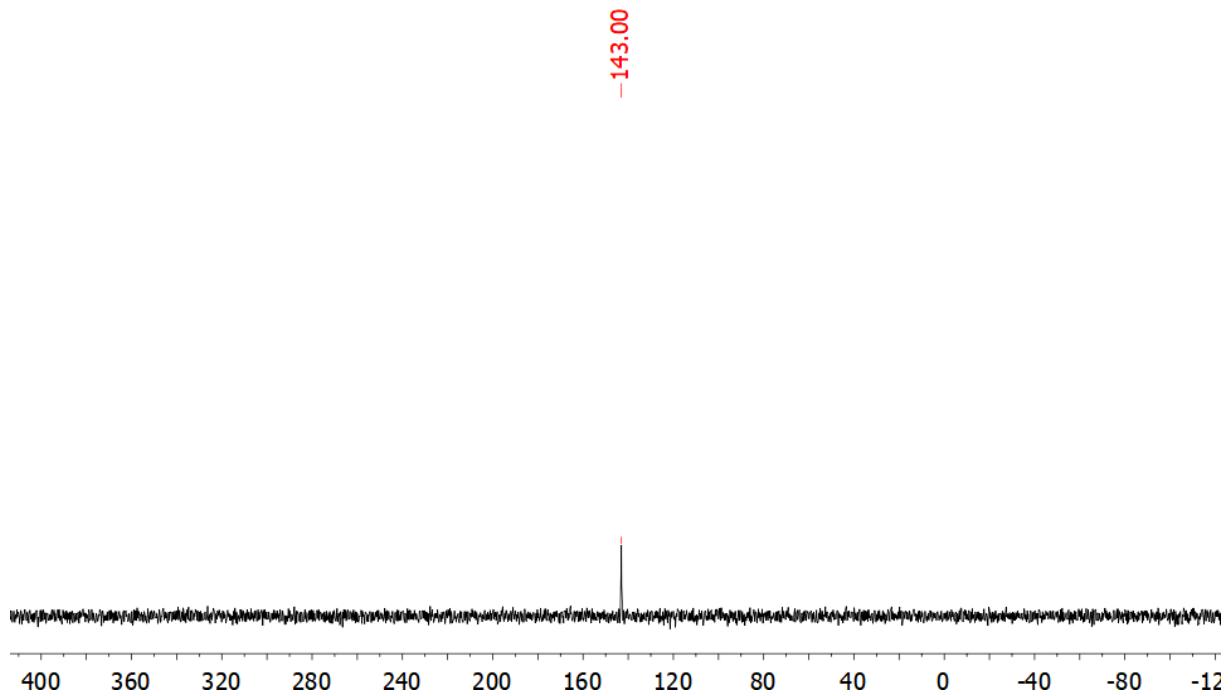


**Figure S16.**  $^{29}\text{Si}\{\text{H}\}$  NMR spectrum of **1DippSi** ( $\text{C}_6\text{D}_6$ , 99.3 MHz).

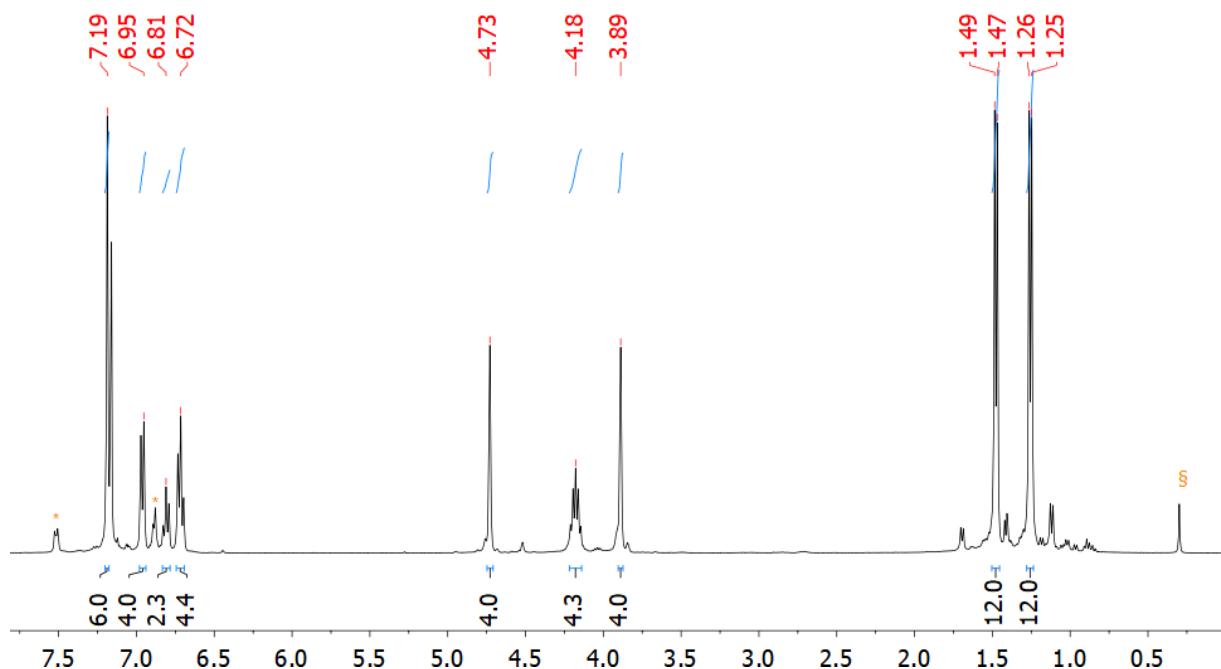


**Figure S17.**  $^1\text{H}$  NMR spectrum of **1MesSi(SePh)<sub>2</sub>** ( $\text{C}_6\text{D}_6$ , 499.7 MHz). The signal marked belongs to silicon grease (\$).

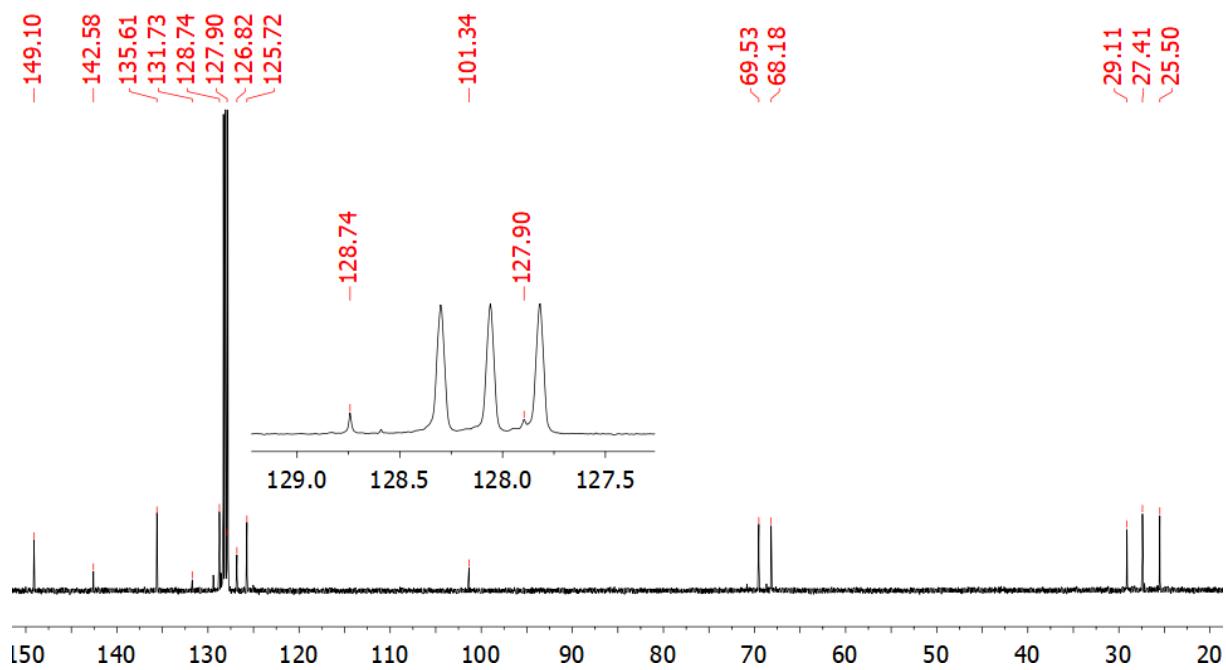




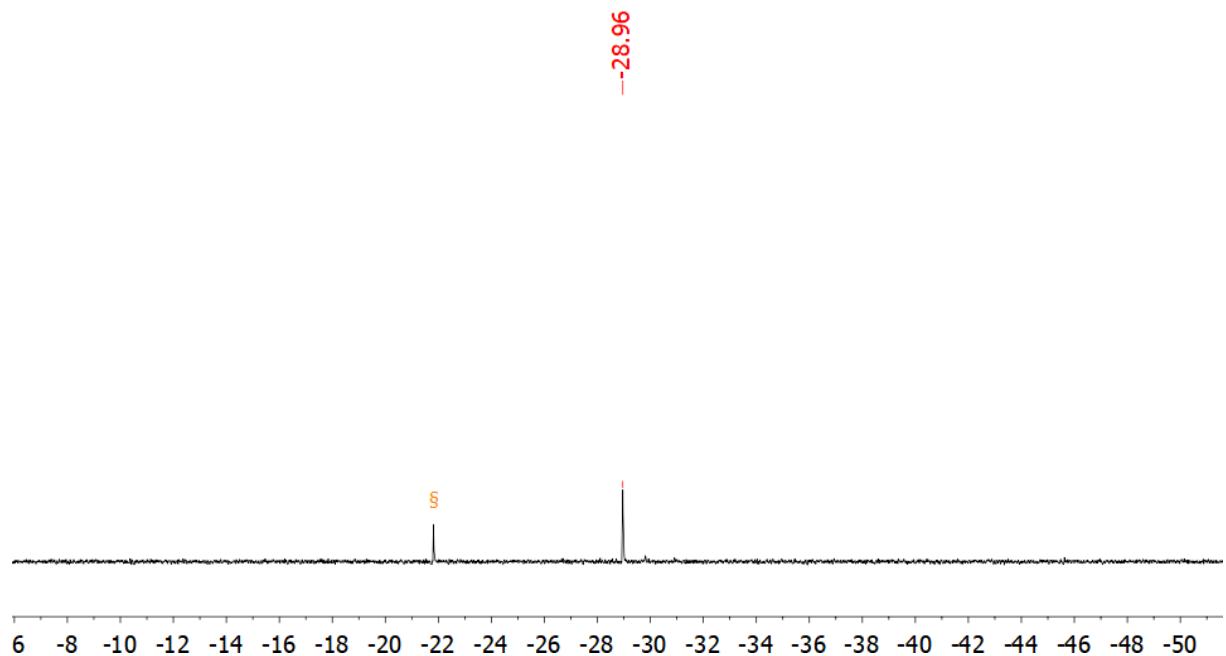
**Figure S20.**  $^{77}\text{Se}\{\text{H}\}$  NMR spectrum of **1** $\text{MesSi}(\text{SePh})_2$  ( $\text{C}_6\text{D}_6$ , 95.3 MHz).



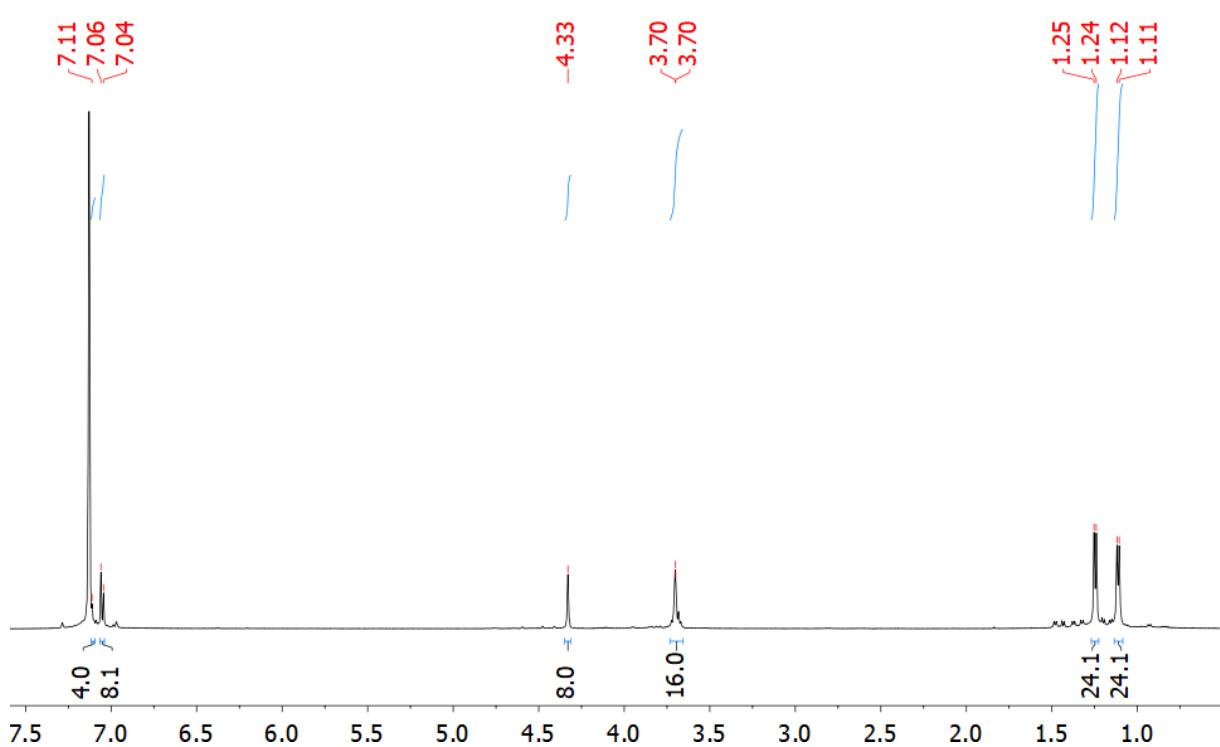
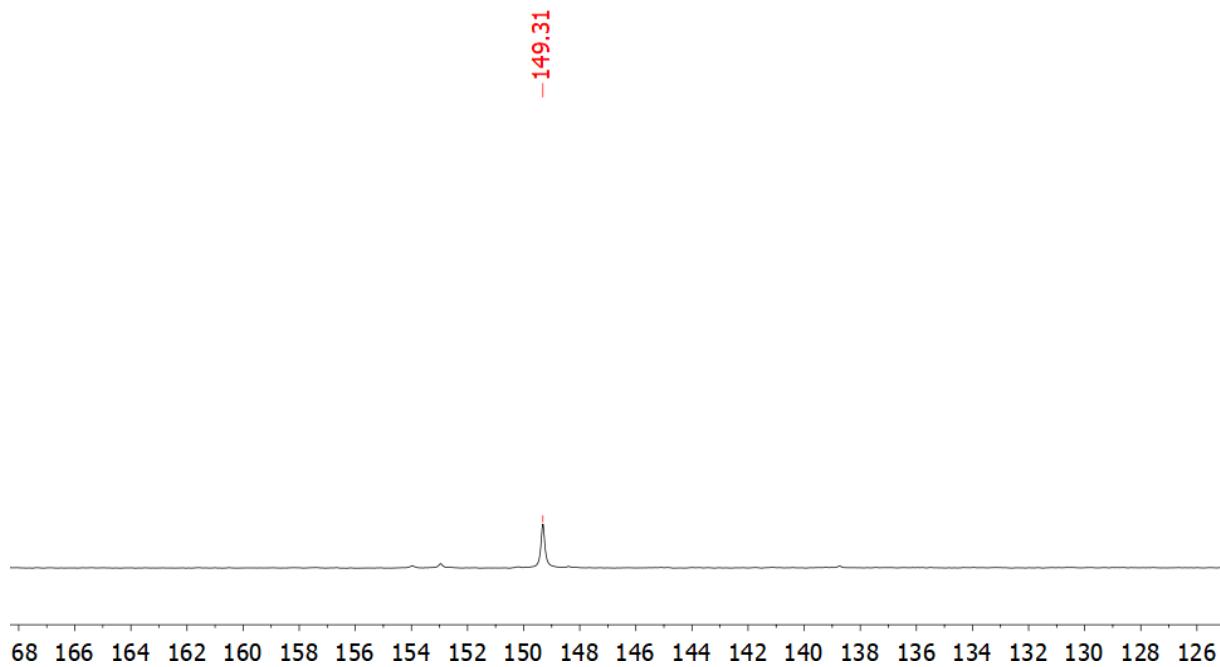
**Figure S21.**  $^1\text{H}$  NMR spectrum of **1**DippSi(SePh)<sub>2</sub> ( $\text{C}_6\text{D}_6$ , 499.7 MHz). Signals marked belong to Se<sub>2</sub>Ph<sub>2</sub> (\*) and silicon grease (\$).

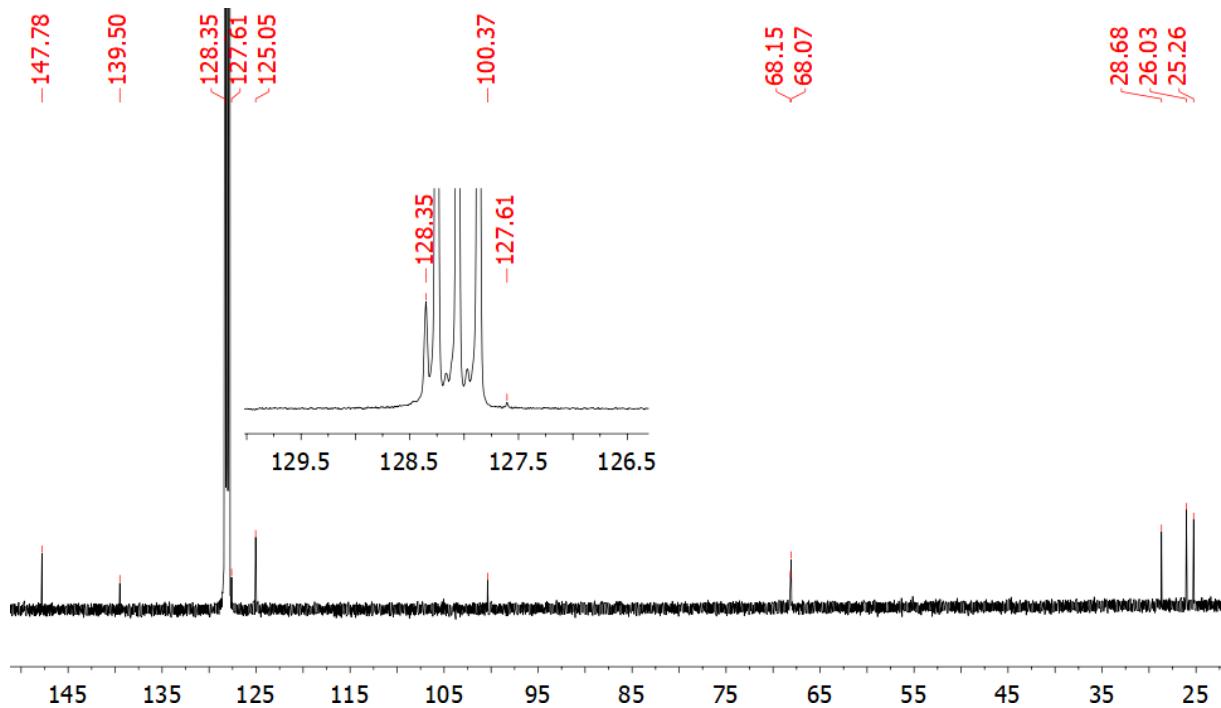


**Figure S22.**  $^{13}\text{C}\{\text{H}\}$  NMR spectrum of **1DippSi(SePh)<sub>2</sub>** ( $\text{C}_6\text{D}_6$ , 100.5 MHz).

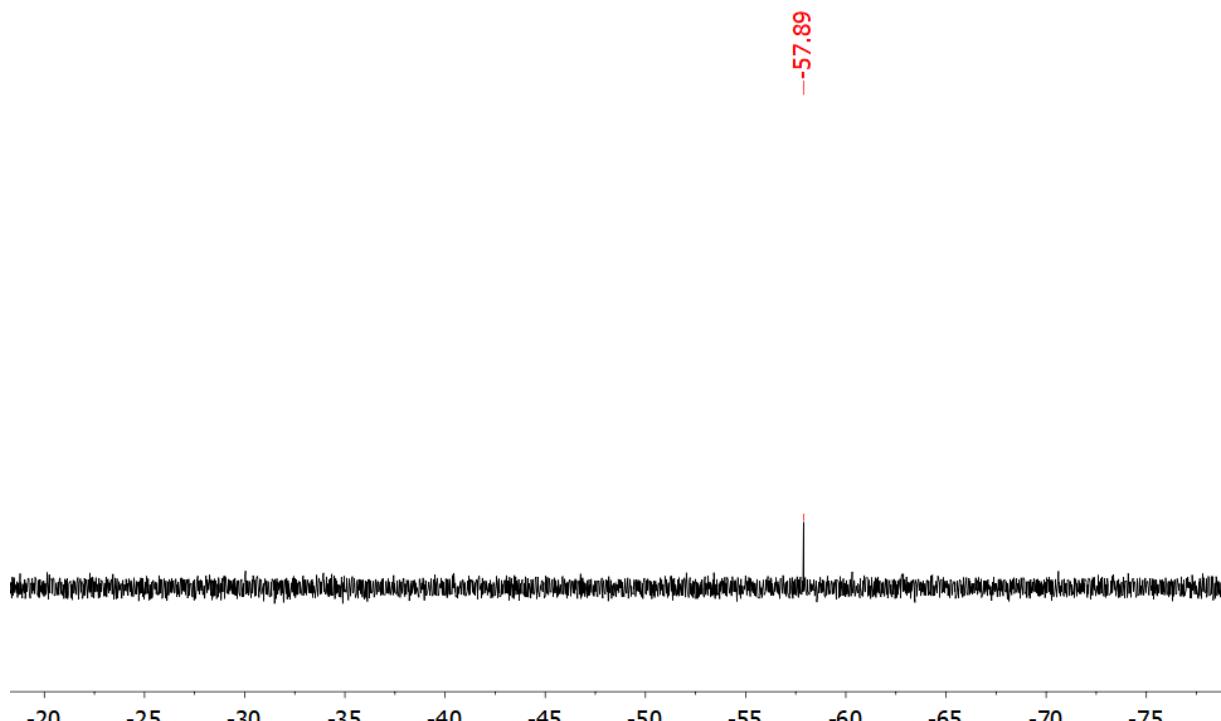


**Figure S23.**  $^{29}\text{Si}\{\text{H}\}$  NMR spectrum of **1DippSi(SePh)<sub>2</sub>** ( $\text{C}_6\text{D}_6$ , 99.3 MHz). The signal marked belongs to silicon grease (§).





**Figure S26.**  $^{13}\text{C}\{\text{H}\}$  NMR spectrum of  $(\text{1DippSiO}_2)_2\text{C}$  ( $\text{C}_6\text{D}_6$ , 100.5 MHz).



**Figure S27.**  $^{29}\text{Si}\{\text{H}\}$  NMR spectrum of  $(\text{1DippSiO}_2)_2\text{C}$  ( $\text{C}_6\text{D}_6$ , 99.3 MHz).

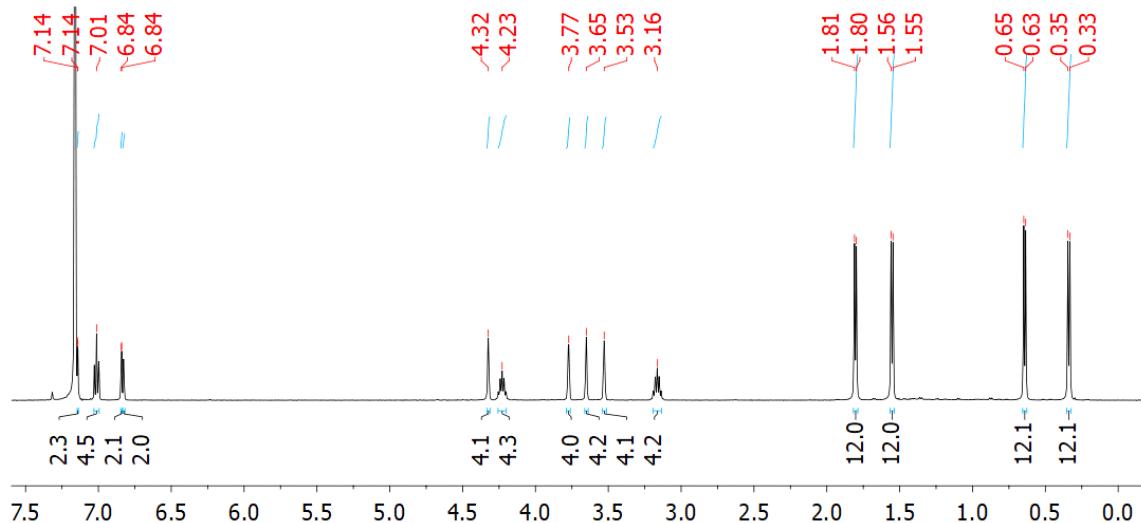


Figure S28.  $^1\text{H}$  NMR spectrum of  $(\text{1DippSiO})_2$  ( $\text{C}_6\text{D}_6$ , 499.7 MHz).

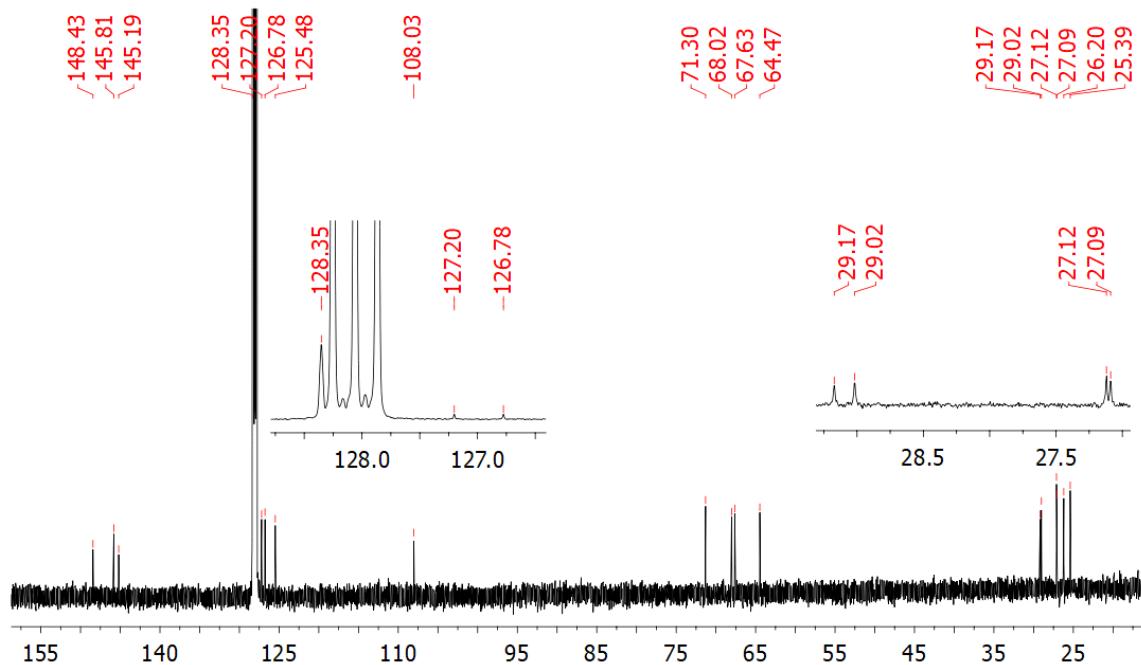
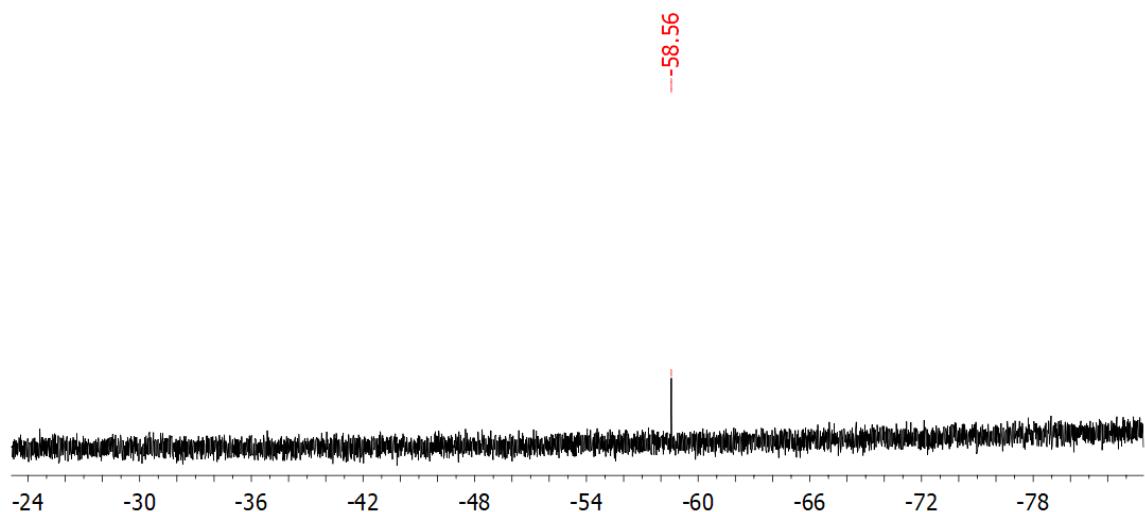
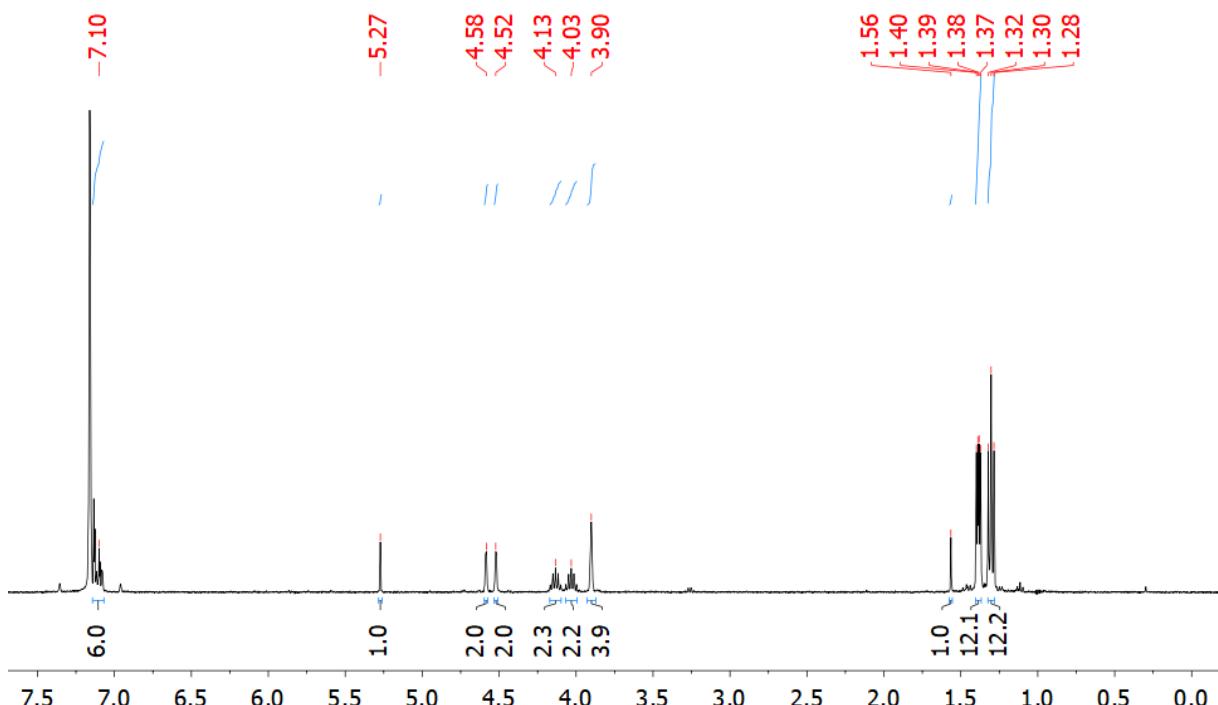


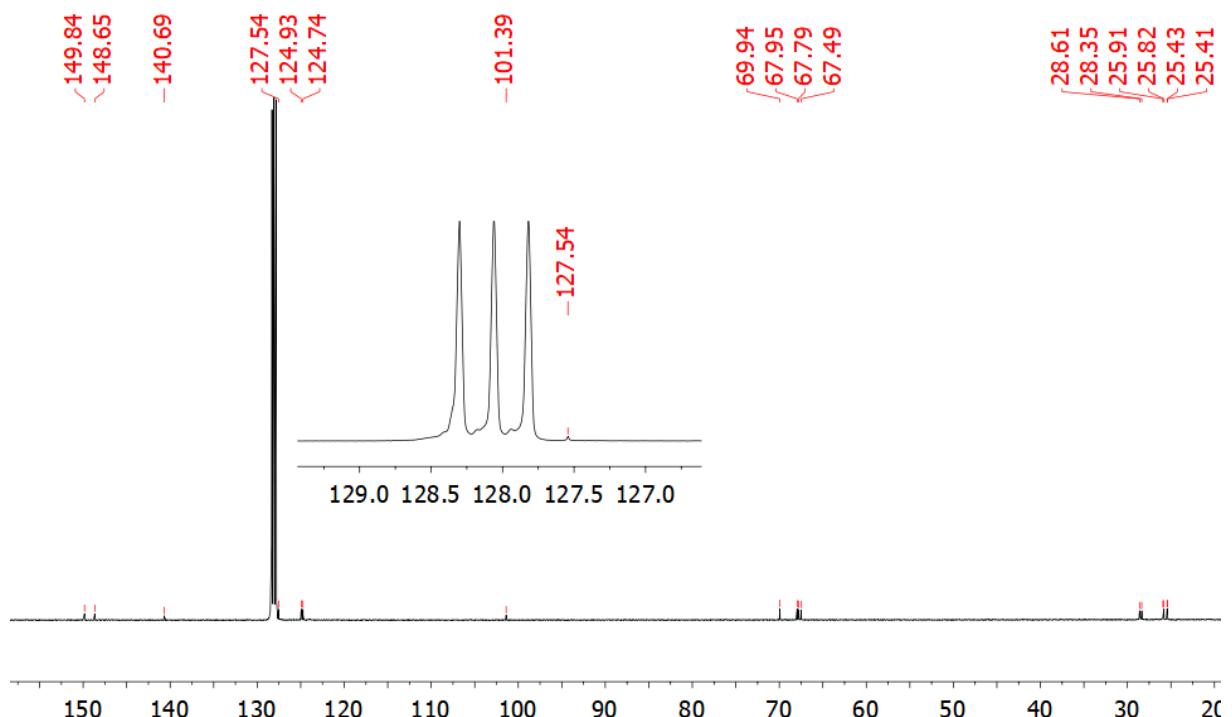
Figure S29.  $^{13}\text{C}\{\text{H}\}$  NMR spectrum of  $(\text{1DippSiO})_2$  ( $\text{C}_6\text{D}_6$ , 100.5 MHz).



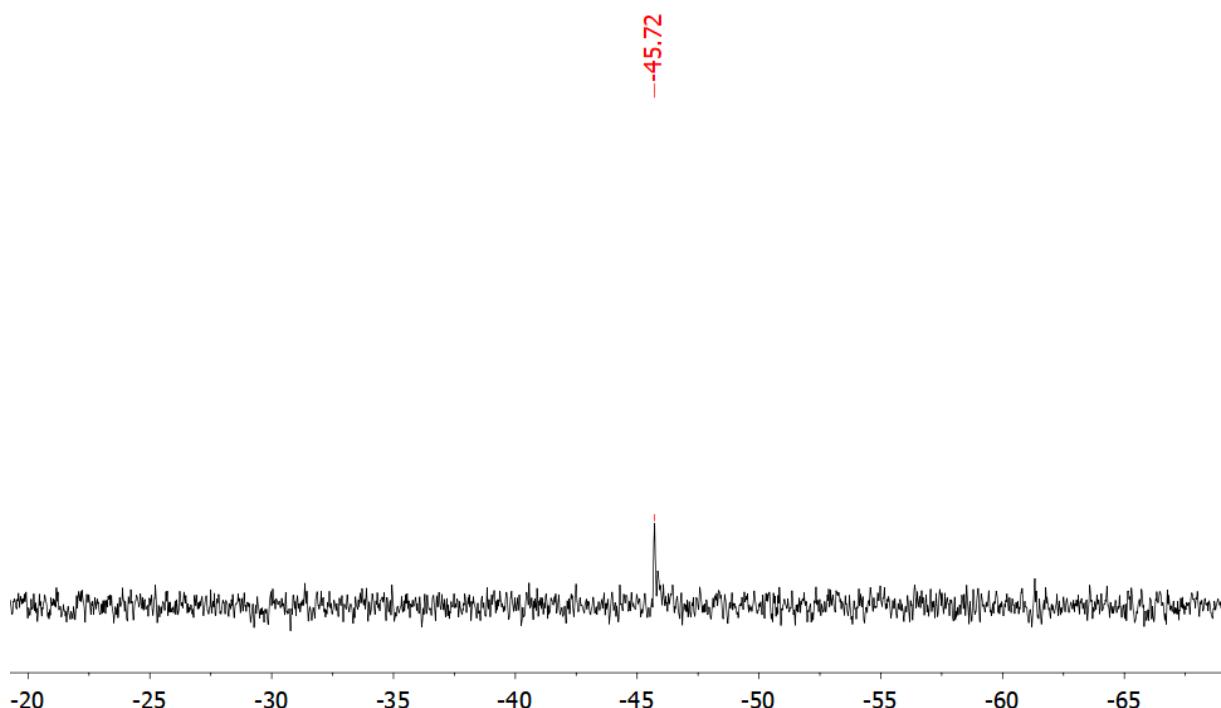
**Figure S30.**  $^{29}\text{Si}\{\text{H}\}$  NMR spectrum of  $(\mathbf{1}\text{DippSiO})_2$  ( $\text{C}_6\text{D}_6$ , 99.3 MHz).



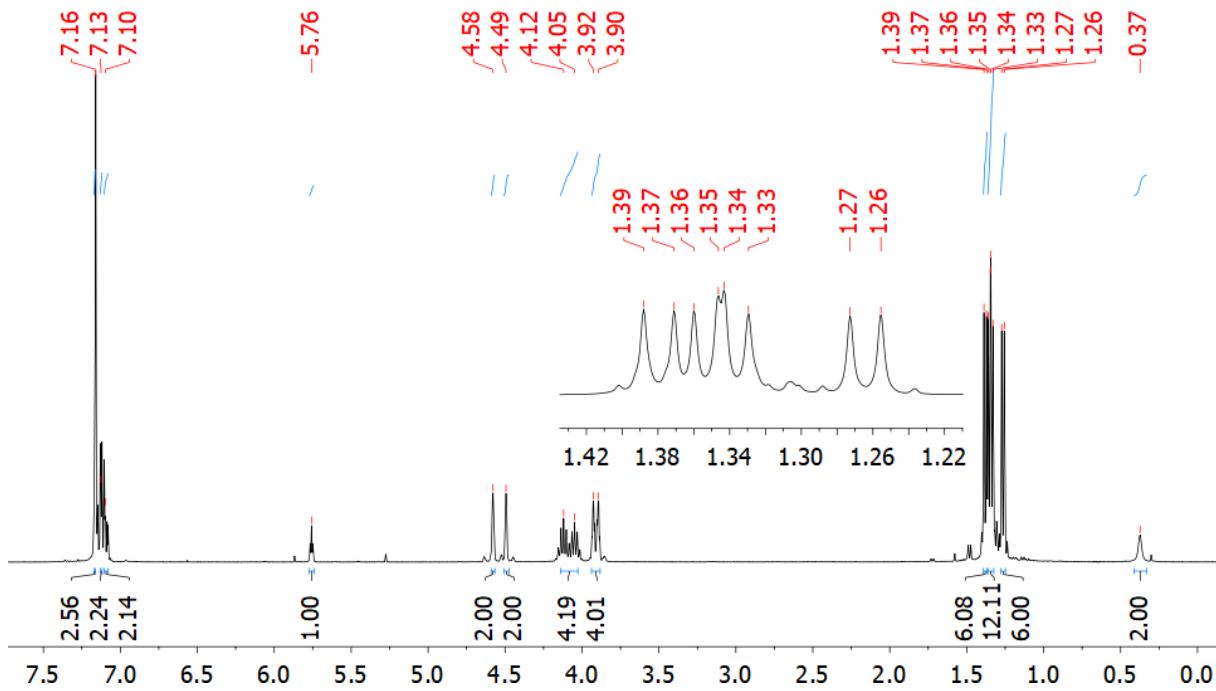
**Figure S31.**  $^1\text{H}$  NMR spectrum of  $\mathbf{1}\text{DippSi(H)OH}$  ( $\text{C}_6\text{D}_6$ , 499.7 MHz).



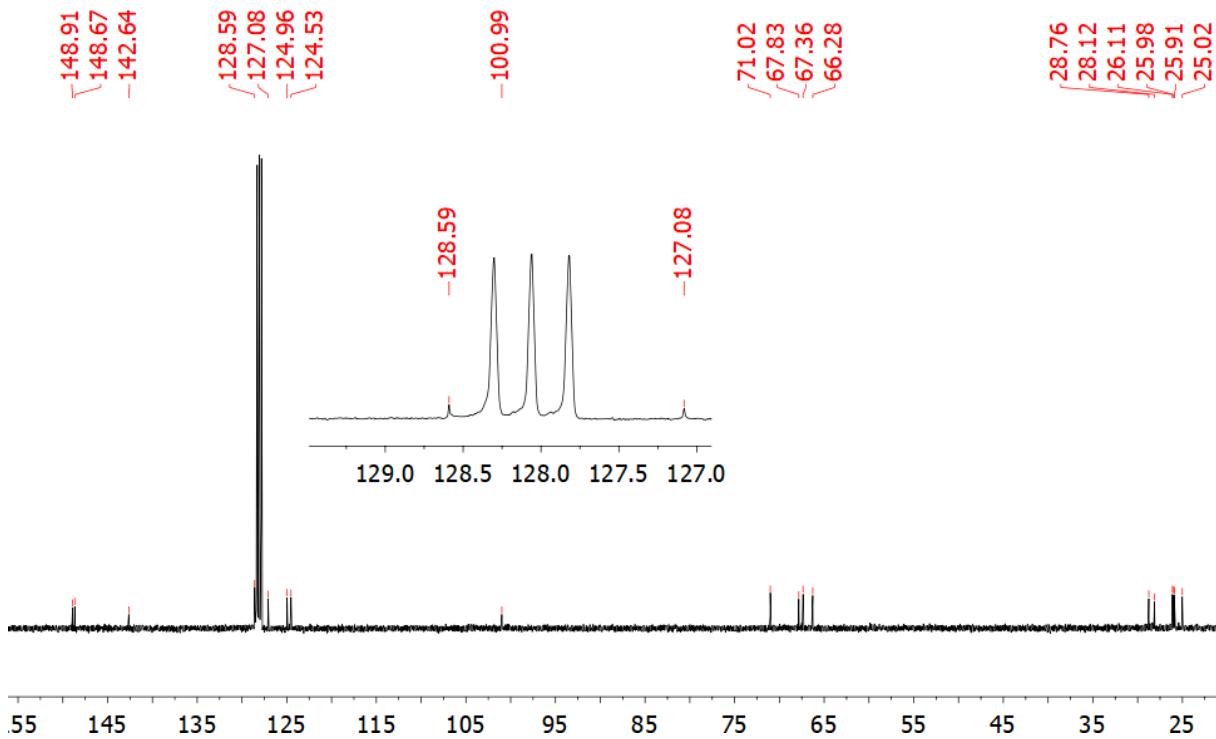
**Figure S32.**  $^{13}\text{C}\{\text{H}\}$  NMR spectrum of **1DippSi(H)OH** ( $\text{C}_6\text{D}_6$ , 100.5 MHz).



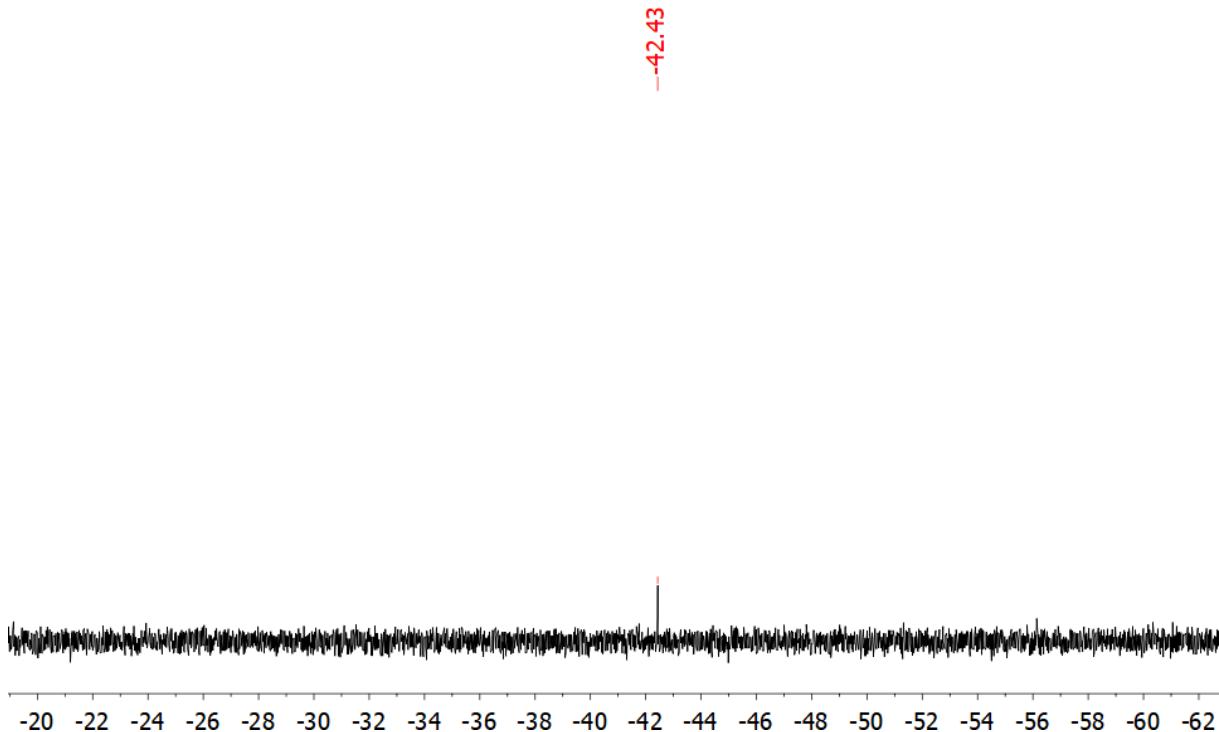
**Figure S33.**  $^{29}\text{Si}\{\text{H}\}$  NMR spectrum of **1DippSi(H)OH** ( $\text{C}_6\text{D}_6$ , 99.3 MHz).



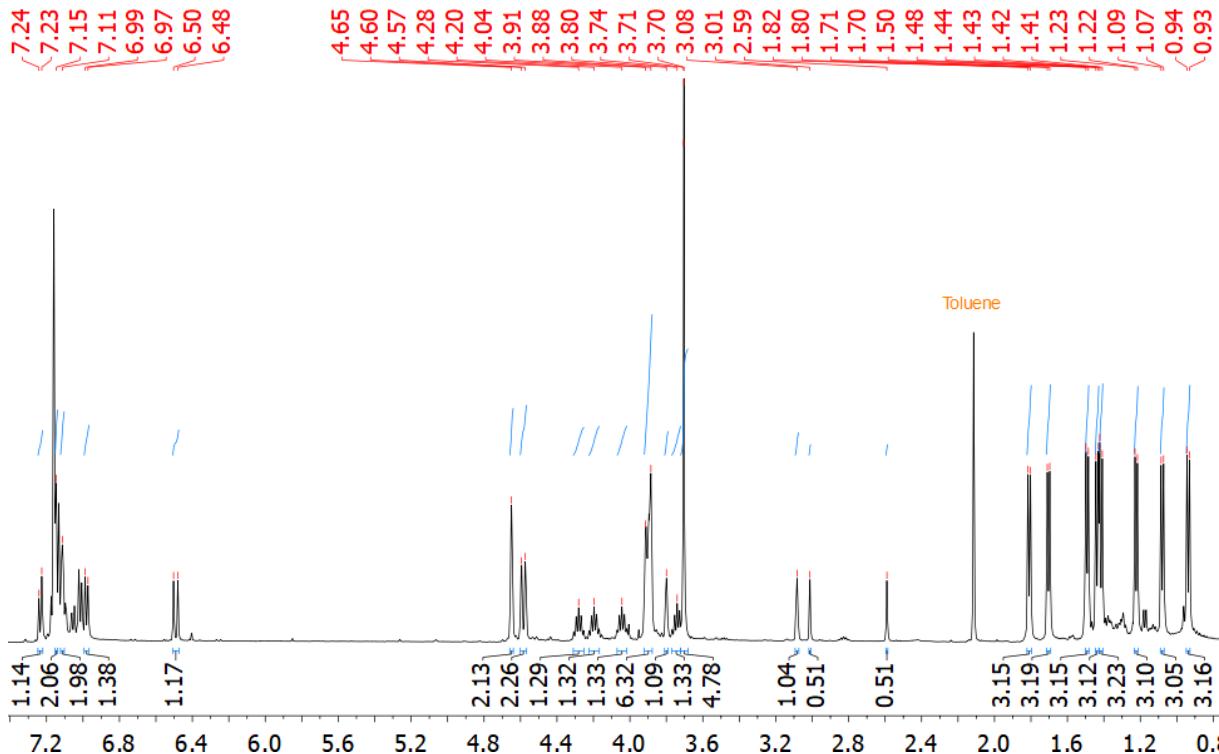
**Figure S34.**  $^1\text{H}$  NMR spectrum of **1DippSi(H)NH<sub>2</sub>** ( $\text{C}_6\text{D}_6$ , 499.7 MHz).



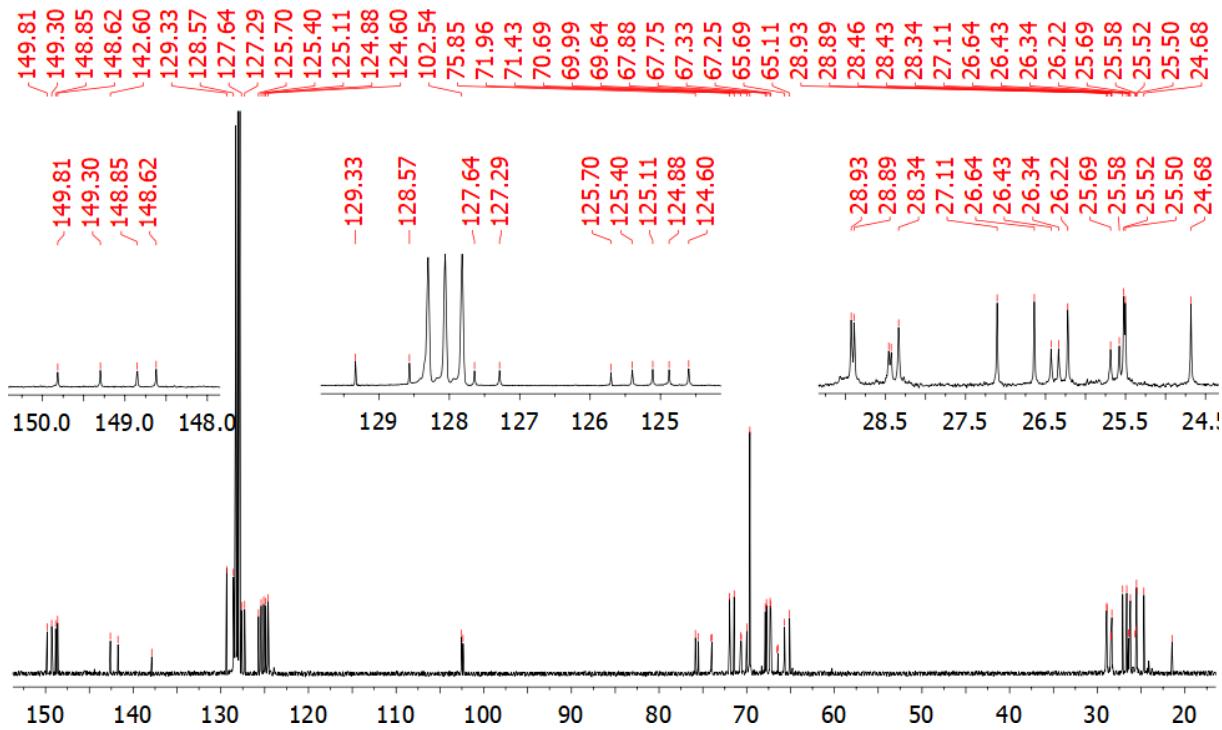
**Figure S35.**  $^{13}\text{C}\{\text{H}\}$  NMR spectrum of **1DippSi(H)NH<sub>2</sub>** ( $\text{C}_6\text{D}_6$ , 100.5 MHz).



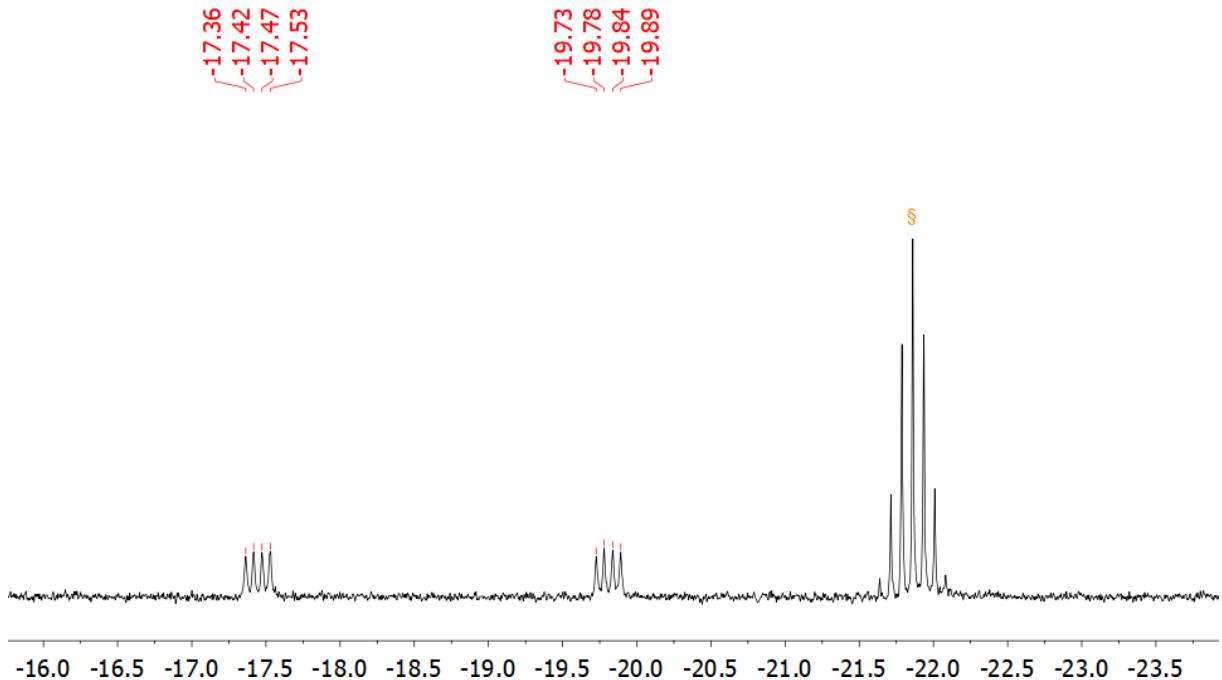
**Figure S36.**  $^{29}\text{Si}\{\text{H}\}$  NMR spectrum of **1**DippSi(H)NH<sub>2</sub> (C<sub>6</sub>D<sub>6</sub>, 99.3 MHz).



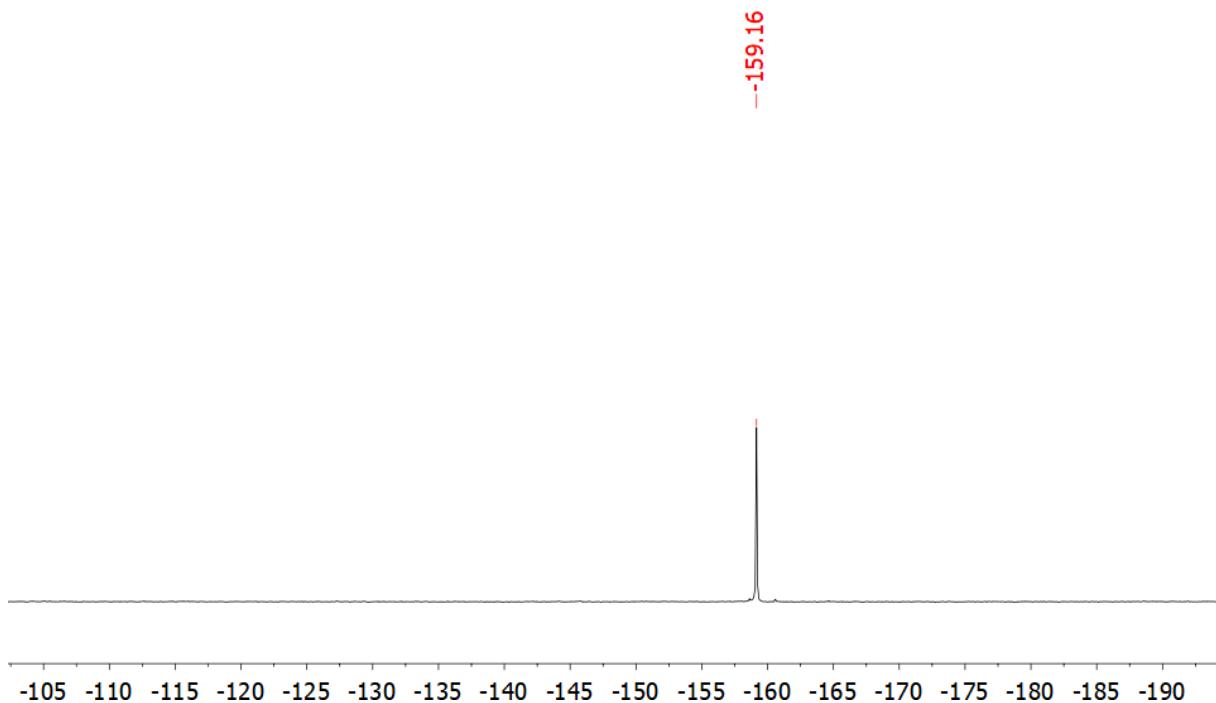
**Figure S37.**  $^1\text{H}$  NMR spectrum of **1**DippSi(H)PHFc (C<sub>6</sub>D<sub>6</sub>, 499.7 MHz).



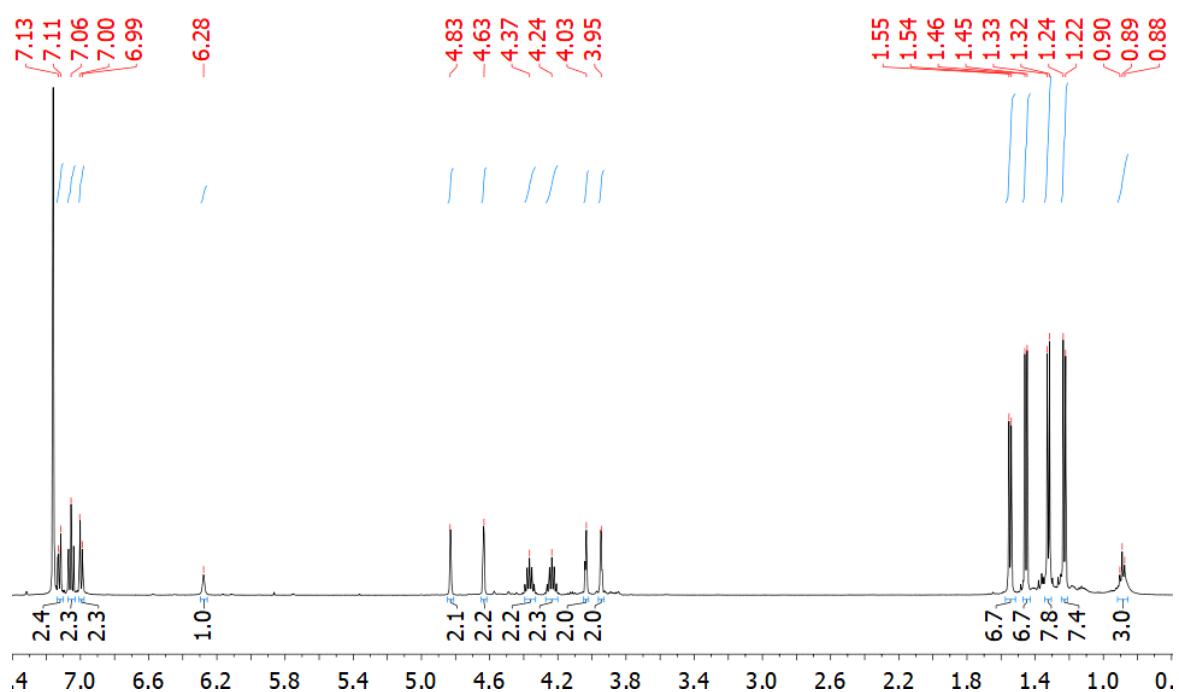
**Figure S38.**  $^{13}\text{C}\{\text{H}\}$  NMR spectrum of **1DippSi(H)PHFc** ( $\text{C}_6\text{D}_6$ , 100.5 MHz).



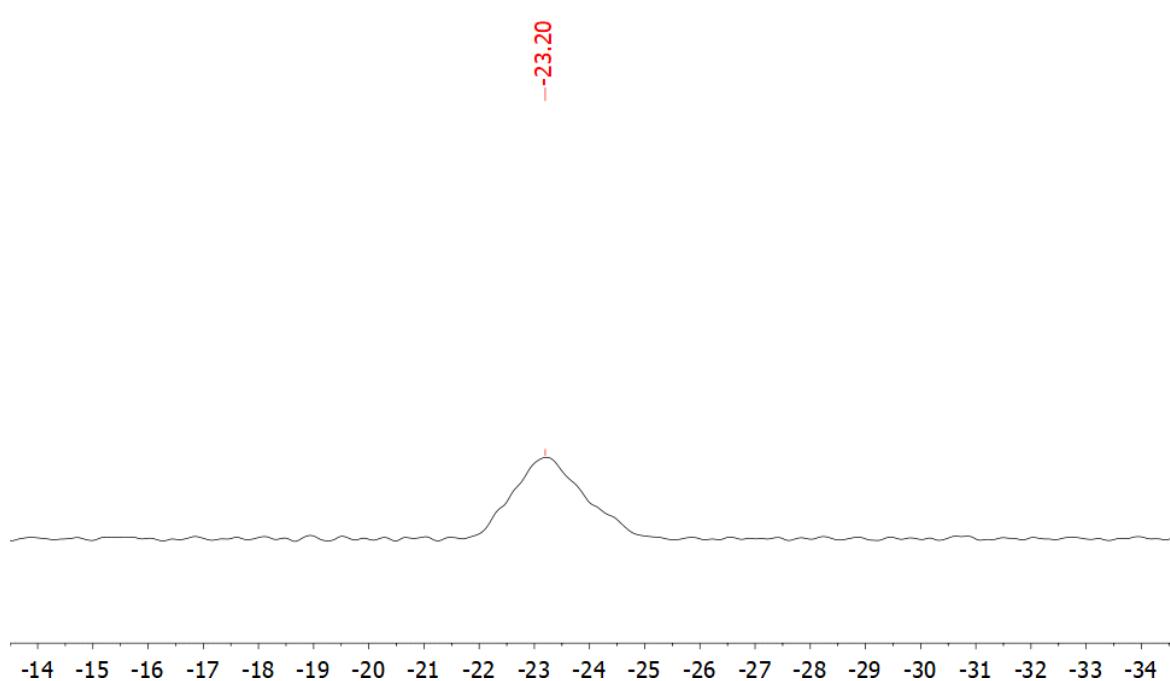
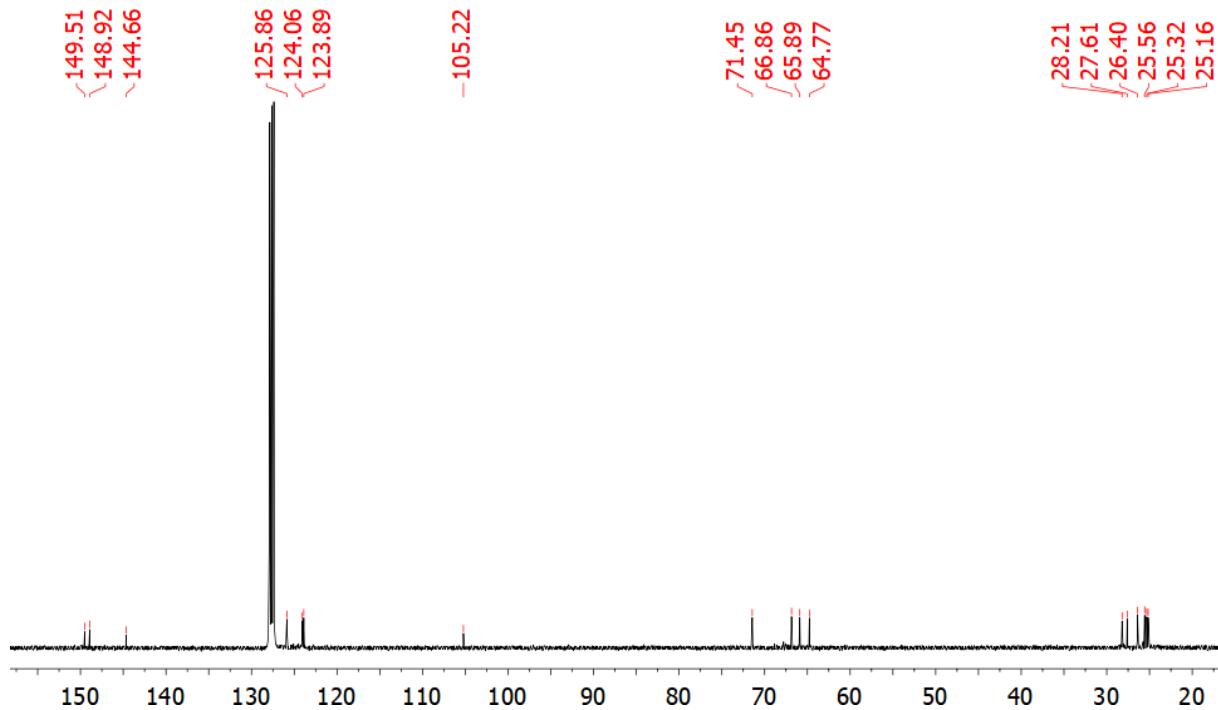
**Figure S39.**  $^{29}\text{Si}$  NMR spectrum of **1DippSi(H)PHFc** ( $\text{C}_6\text{D}_6$ , 99.3 MHz). The signal marked belongs to silicon grease ( $\$$ ).



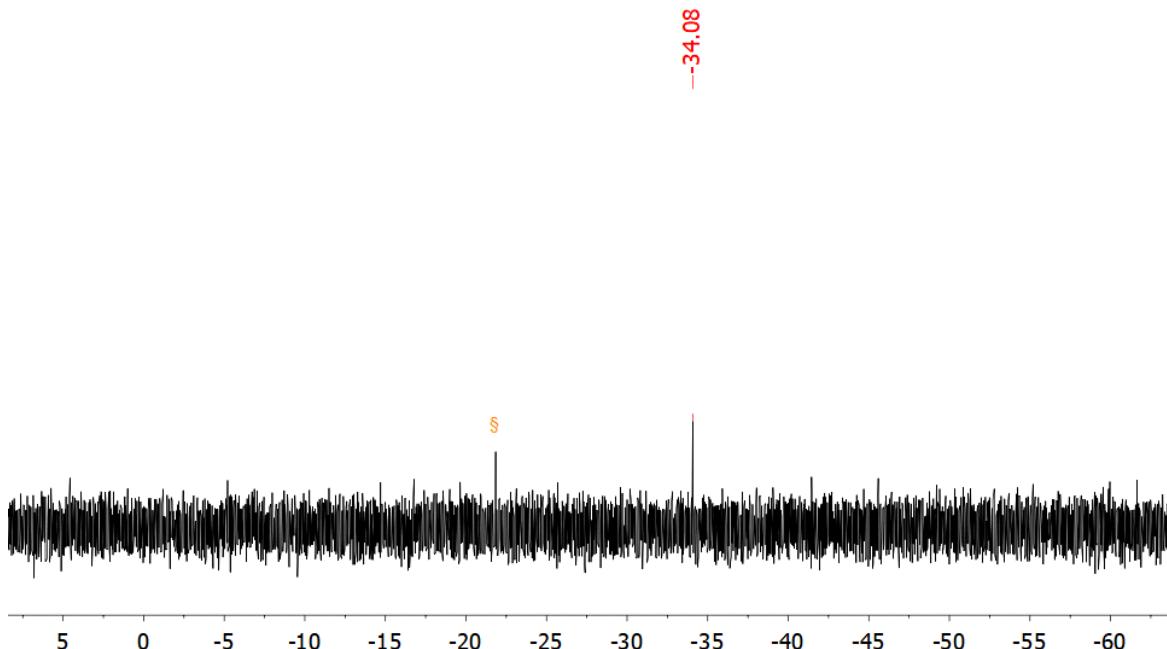
**Figure S40.**  $^{31}\text{P}\{\text{H}\}$  NMR spectrum of **1DippSi(H)PHFc** ( $\text{C}_6\text{D}_6$ , 202.3 MHz).



**Figure S41.**  $^1\text{H}$  NMR spectrum of **1DippSi(H)(BH}\_2\text{NH}\_3**) ( $\text{C}_6\text{D}_6$ , 499.7 MHz).



**Figure S43.** <sup>11</sup>B {<sup>1</sup>H} NMR spectrum of **1DippSi(H)(BH<sub>2</sub>NH<sub>3</sub>)** ( $\text{C}_6\text{D}_6$ , 160.3 MHz).



**Figure S44.**  ${}^{29}\text{Si}\{{}^1\text{H}\}$  NMR spectrum of crude **1DippSi(H)(BH<sub>2</sub>NH<sub>3</sub>)** ( $\text{C}_6\text{D}_6$ , 99.3 MHz). Although data collection for this spectrum took 3 d, the signal of the product could not be detected. Instead, the spectrum reveals weak signals due to silicon grease (\$) and another silicon-containing species present in very low concentration, which is assumed to be **1DippSiH<sub>2</sub>**. For comparison, the corresponding signal of the TMS homologue **1TMSSiH<sub>2</sub>** was observed at  $\delta = -44.0$  ppm (see Ref. [S6]). The  ${}^{29}\text{Si}$  NMR chemical shifts computed (BLYP/TZ2P) for **1DippSiH<sub>2</sub>** (compound **7** according to the computational numbering scheme) and **1TMSSiH<sub>2</sub>** are  $-40.6$  and  $-54.1$  ppm, respectively, while  $\delta = -12.9$  ppm was computed for **1DippSi(H)(BH<sub>2</sub>NH<sub>3</sub>)**.

## II Computational Details

Geometry optimizations and harmonic frequency calculations were performed using the ORCA program package<sup>[S7]</sup> (Version 4.1.2) employing the PBEh-3c density functional composite method<sup>[S8]</sup> combined with a higher integration grid (Grid5) to avoid spurious imaginary frequencies. Optimized structures were characterized as minima or first order saddle points by eigenvalue analysis of the computed Hessians. Connectivities between minima and the corresponding transition states were validated by intrinsic reaction coordinate (IRC) calculations<sup>[S9]</sup> or by displacing the transition-state geometries along both directions of the transition mode, followed by unconstrained optimizations to the respective minima.

For selected structures, relative energies from correlated wavefunction theory were computed on a smaller model system as well as on the full system. For a smaller system with H-truncated nitrogen atoms single-point energies were obtained using the explicitly correlated coupled-cluster ansatz<sup>[S10]</sup> CCSD(T)-F12b<sup>[S11]</sup> as implemented in the Molpro2015.1 program<sup>[S12]</sup> in combination with the F12-optimized correlation consistent polarized triple-zeta orbital<sup>[S13]</sup> and auxiliary<sup>[S14-S16]</sup> basis sets of the cc-pVTZ-F12 family for all non-metal atoms. For the Fe atom, the aug-cc-pVTZ orbital basis<sup>[S13]</sup> was used in conjunction with the universal JKfit option for integral fitting in the Fock matrix construction along with the aug-cc-pVTZ/MP2Fit auxiliary basis used for the many-electron integrals and CABS representation. For the full system single-point energies were obtained from correlated DLPNO-CCSD(T)-F12<sup>[S11, S17]</sup> computations as implemented in ORCA 4.2.1 using the F12-optimized correlation consistent polarized triple-zeta orbital and auxiliary basis sets for non-metal atoms. For the Fe atom, the aug-cc-pVTZ orbital basis and associated auxiliary sets were employed.

Structures for NMR calculations were reoptimized using the Gaussian09, Rev. D.01 program<sup>[S18]</sup> employing the M06-L density functional<sup>[S19]</sup> together with the 6-31+G(d,p) basis set.<sup>[S20, S21]</sup> Based on these geometries, <sup>29</sup>Si NMR chemical shifts were computed relative to tetramethylsilane with the ADF2013.01 program.<sup>[S22-S24]</sup> The BLYP functional<sup>[S25, S26]</sup> was used in these calculations in combination with the TZ2P Slater-type basis set.<sup>[S27]</sup>

Pictures of molecular structures were generated with the Cylview<sup>[S28]</sup> and ChemCraft<sup>[S29]</sup> programs. All energies given are relative free energies at 298.15 K and 1 atm ( $\Delta G^{298}$ ) in kcal mol<sup>-1</sup>.

For convenience, the following Chart shows the numbers of the computed structures for experimentally observed compounds:

<b>1DippSi</b>	<b>1</b>
<b>1DippSiH(NH<sub>2</sub>)</b>	<b>3</b>
<b>1DippSiH(OH)</b>	<b>6</b>
<b>1DippSiH<sub>2</sub></b>	<b>7</b>
<b>1DippSiH(BH<sub>2</sub>NH<sub>3</sub>)</b>	<b>10</b>

**Structural Metrics of  $[\text{Fe}\{(\eta^5\text{-C}_5\text{H}_4)\text{N}(2,6\text{-}i\text{Pr}_2\text{C}_6\text{H}_3)\}_2\text{Si}]$  and the reaction products **3** and **10****
**Table S2.** Selected metrics of the PBEh-3c optimized and the X-ray structure for **1DippSi**. Hydrogen atoms and isopropyl groups of Dipp substituents are omitted.

	PBEh-3c	exp. X-RAY
Si–N	1.75 Å	1.74 Å
N–Si–N	105°	106°
$\Sigma \alpha(\text{N})$	360°	360°

**Table S3.** Selected metrics of the PBEh-3c optimized and the X-ray structure for **3**. Carbon-bound hydrogen atoms and isopropyl groups of Dipp substituents omitted.

	PBEh-3c	exp. X-RAY
Si–N <sup>Dipp</sup>	1.75 Å	1.72, 1.73 Å
Si–NH <sub>2</sub>	1.72 Å	1.69 Å
N–Si–N	113°	112°
$\Sigma \alpha(\text{N}^{\text{Dipp}})$	359, 360°	358°

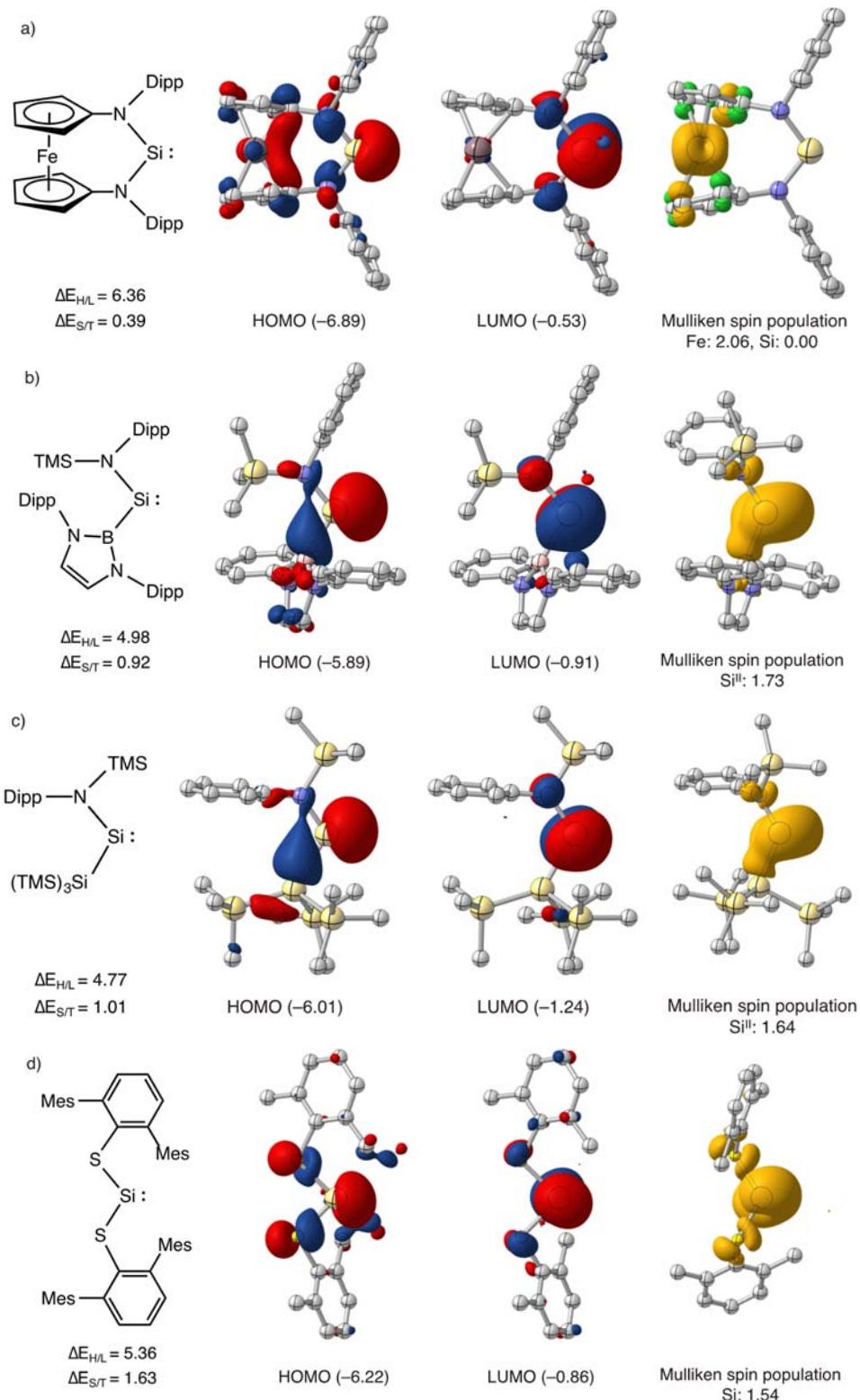
**Table S4.** Selected metrics of the PBEh-3c optimized and X-ray structure for **10**. Carbon-bound hydrogen atoms and isopropyl groups of Dipp substituents omitted.

	PBEh-3c	exp. X-RAY
Si–N <sup>Dipp</sup>	1.79, 1.76 Å	1.77, 1.76 Å
Si–B	2.01 Å	2.01 Å
B–N	1.64 Å	1.60 Å
N–Si–N	109°	108°
$\Sigma \Delta(N^{Dipp})$	358, 359°	357, 358°

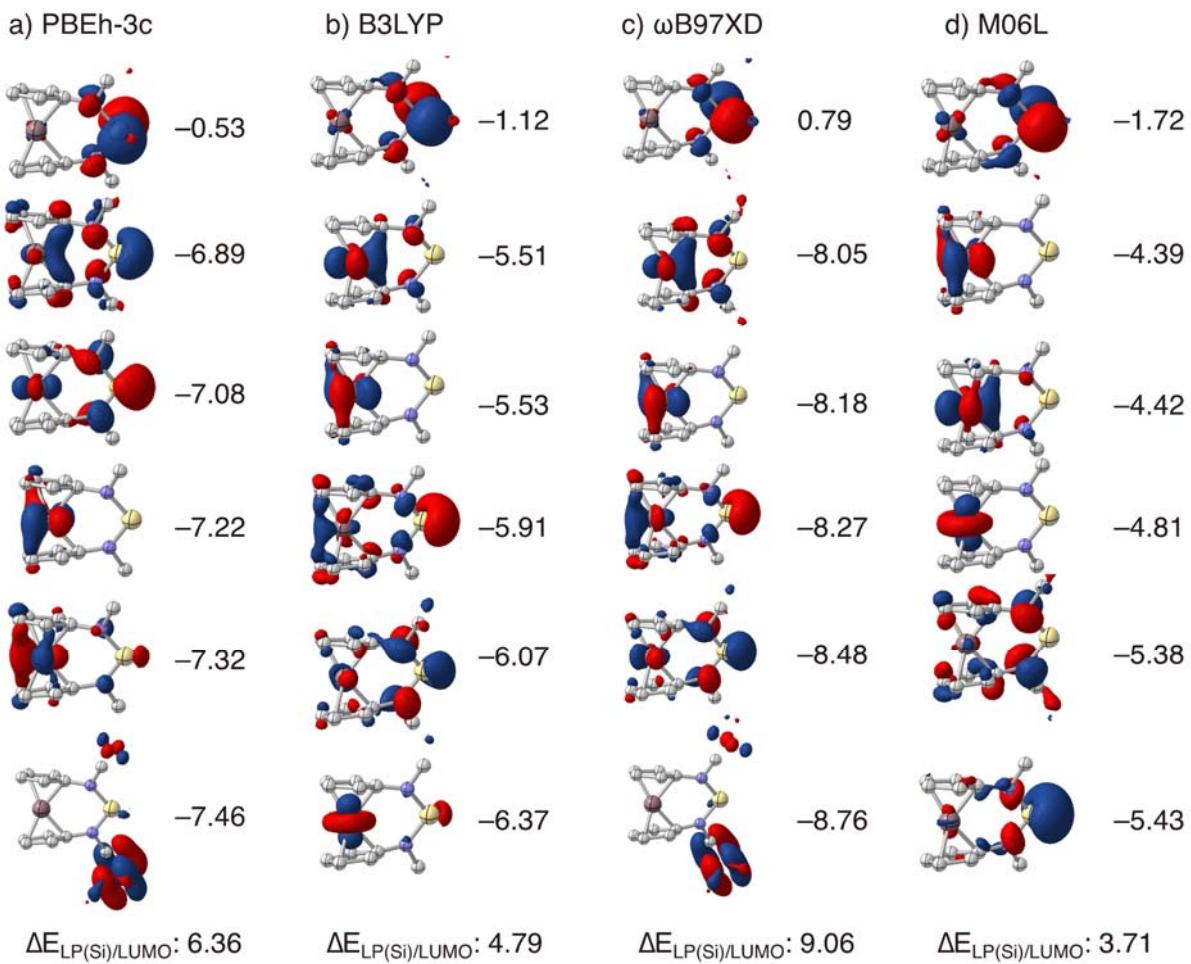
### Comparison of frontier molecular orbitals and spin densities

For comparison with **1** HOMO-LUMO gaps and singlet-triplet splittings have been calculated for three experimentally characterized silylenes at the PBEh-3c level of theory. Figure S45 shows the respective Lewis structures, frontier molecular orbitals and spin densities of the triplet state. All energies given are in eV.

As an illustration of the method dependence of the HOMO-LUMO gap we computed the orbital energies of **1** with an exemplary choice of functionals commonly in use (Figure S46). We note a significant reordering of the occupied molecular orbitals obtained with the various methods, and for the difference between the silylene lone pair and the empty p-orbital at Si we obtain values ranging from 3.7 to 9.1 eV.



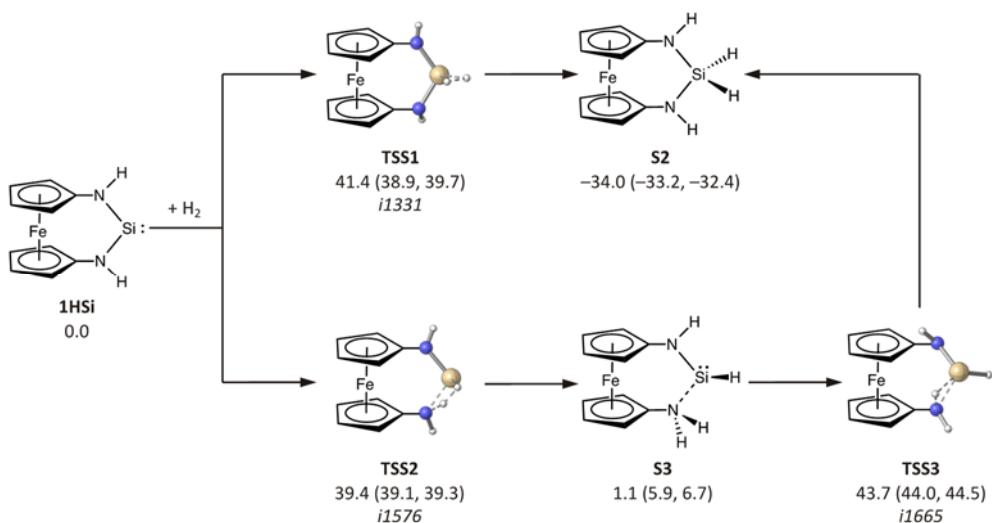
**Figure S45.** Comparison of electronic characteristics for the full molecular models of a) **1** ( $\trianglelefteq$  **1DippSi**), b) the acyclic silylene  $\text{Si}\{\text{B}(\text{NDippCH})_2\}\{\text{N}(\text{SiMe}_3)\text{Dipp}\}$  of Protchenko *et al.*,<sup>[S30]</sup> c) the acyclic silylene  $\text{Si}\{\text{Si}(\text{SiMe}_3)_3\}\{\text{N}(\text{SiMe}_3)\text{Dipp}\}$  of Protchenko *et al.*<sup>[S31]</sup> and d) the acyclic silylene  $\text{Si}\{\text{S}(\text{C}_6\text{H}_3\text{-2,6}(\text{C}_6\text{H}_2\text{-2,4,6-}\text{Me}_3)_2)\}_2$  of Rekken *et al.*;<sup>[S32]</sup> Lewis structures, frontier molecular orbitals and triplet spin density distributions computed for the full molecular models (orbital energies and singlet-triplet gaps in eV, isocontour surfaces at  $\pm 0.05 \text{ a}_0^{-3/2}$  for orbitals and  $\pm 0.005 \text{ a}_0^{-3}$  for the spin density,  $\alpha$  spin: yellow,  $\beta$  spin: green; *iPr* groups, Mes groups and hydrogen atoms not shown)



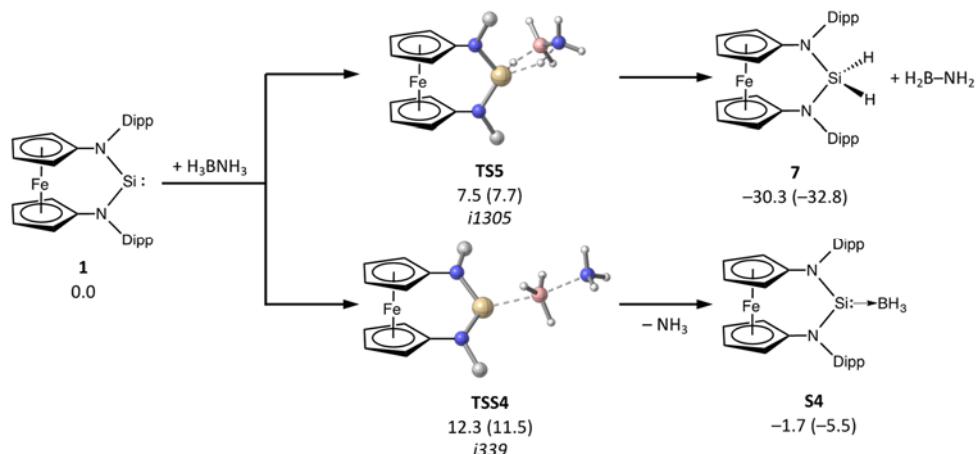
**Figure S46.** Comparison of frontier molecular orbitals calculated with four density functional methods; a) PBEh-3c, b) B3LYP/def2-TZVP,<sup>[S33, S34]</sup> c)  $\omega$ B97XD/def2-TZVP<sup>[S35]</sup> and d) M06-L/def2-TZVP<sup>[S19]</sup> (orbital energies in eV, isocontour surfaces at  $\pm 0.05 \text{ a}^{-3/2}$ ; Dipp groups are indicated by the *ipso*-C atom, hydrogen atoms not shown).

#### Evaluation of the PBEh-3c method for the full and the H-truncated molecular system

The PBEh-3c method has primarily been designed for the efficient assessment of molecular structures but it also provides reasonable relative energies with respect to benchmark databases.<sup>[S8]</sup> To test the suitability of PBEh-3c for the reactions investigated here, the thermochemistry for two representative reactions were compared to single-point energies from correlated wavefunction theory (Schemes S1 and S2). Unless stated otherwise in the following, relative free energies  $\Delta G^{298}$  are given in kcal mol<sup>-1</sup> (imaginary wave numbers of transition modes in parentheses, cm<sup>-1</sup>). Bonds formed or broken in transition states are shown dashed, unreactive H atoms are omitted and the orientation of Dipp-substituents in transition state structures are indicated by showing the C<sub>ipso</sub> atom only.



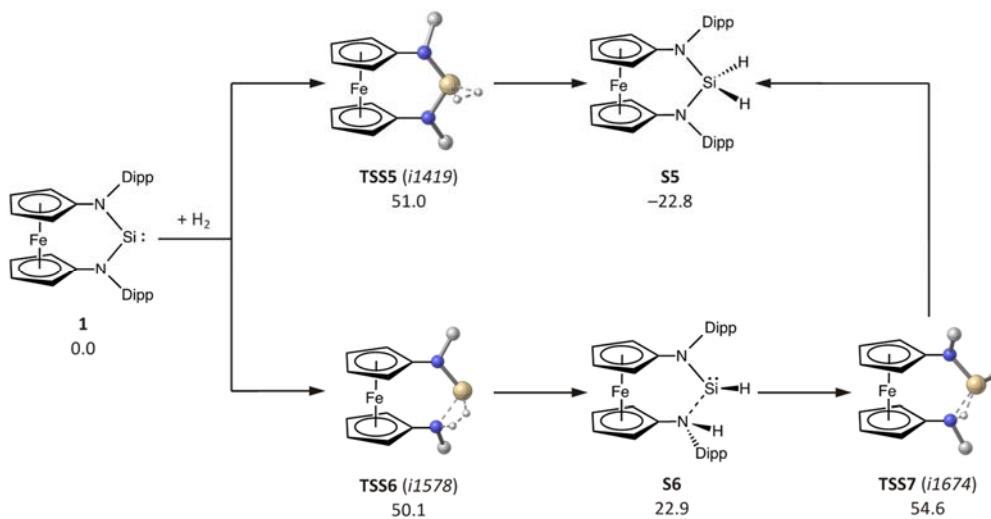
**Scheme S1.** Computed reaction paths for the H–H bond insertion in the H-truncated molecular model **1HSi**; PBEh-3c relative total energies  $\Delta E$  in kcal mol<sup>-1</sup> (CCSD(T)-F12b/cc-pVTZ//PBEh-3c, DLPNO-CCSD(T)-F12/cc-pVTZ//PBEh-3c in parentheses, in this order).



**Scheme S2.** Computed reaction paths for the initial reaction of **1** with  $\text{H}_3\text{BNH}_3$  employing the full molecular model; PBEh-3c relative total energies  $\Delta E$  in kcal mol<sup>-1</sup>, DLPNO-CCSD(T)-F12/cc-pVTZ//PBEh-3c results in parentheses).

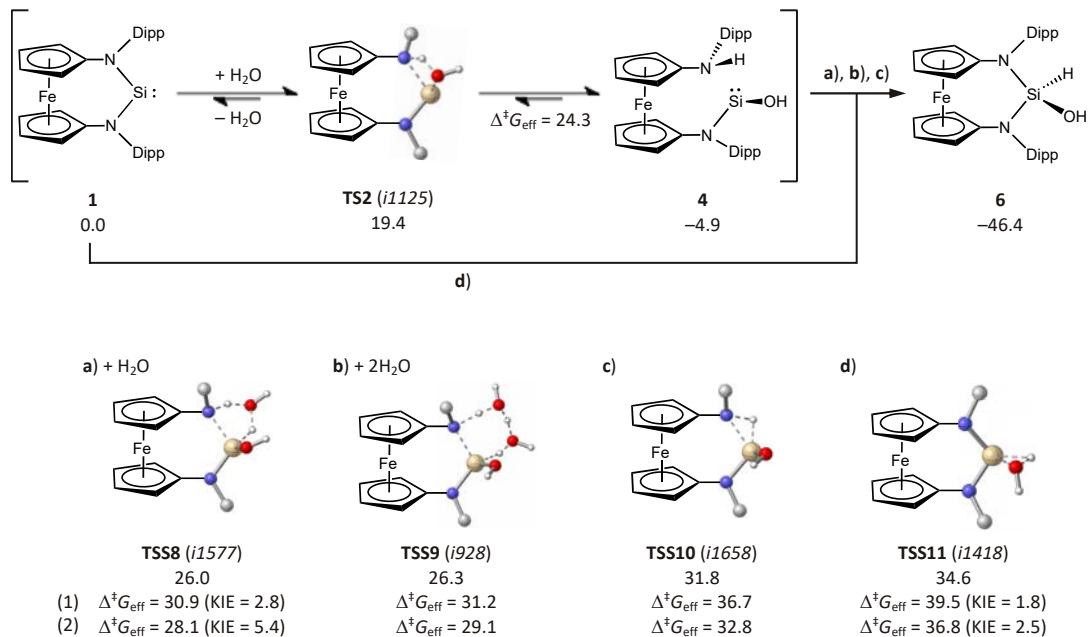
#### Additional Information on reaction paths investigated

The silylene **1DippSi** does not react with  $\text{H}_2$  to the corresponding silane, which is in line with reaction barriers above 50 kcal mol<sup>-1</sup> calculated for **1** for both addition pathways identified (Scheme S3).



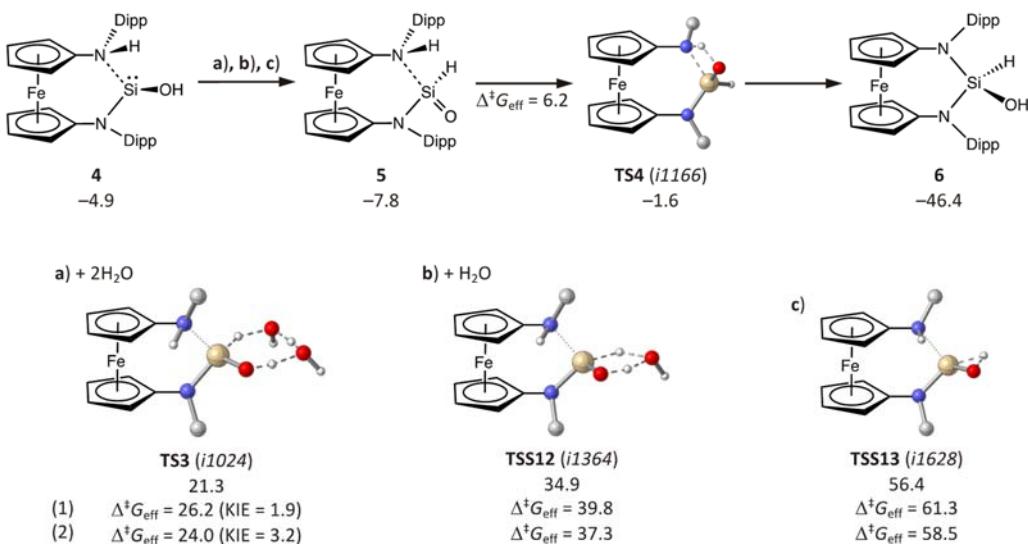
**Scheme S3.** Computed reaction paths for the H–H bond insertion by **1**.

For the reaction of **1** with  $\text{H}_2\text{O}$  multiple paths involving one or two additional  $\text{H}_2\text{O}$  molecules acting as proton shuttles were investigated. For the rate determining transition state of the most favorable path the corresponding kinetic isotope effect was calculated. In order to estimate the effect of hydrogen tunneling, a 1-D Wigner correction<sup>[S36]</sup> was applied. The direct oxidative addition of water to **1** is kinetically least favorable (Scheme S4 path d) while O–H addition across a Si–N bond with subsequent proton shift is effectively catalyzed by a proton-shuttle mechanism with additional water molecules (Scheme S4, a–c and Scheme 3 in the main text).



**Scheme S4.** Computed reaction paths for water addition by **1DippSi**, (1) effective reaction barriers relative to **4** and (2) including 1-D Wigner correction<sup>[S36]</sup> for tunneling effects.

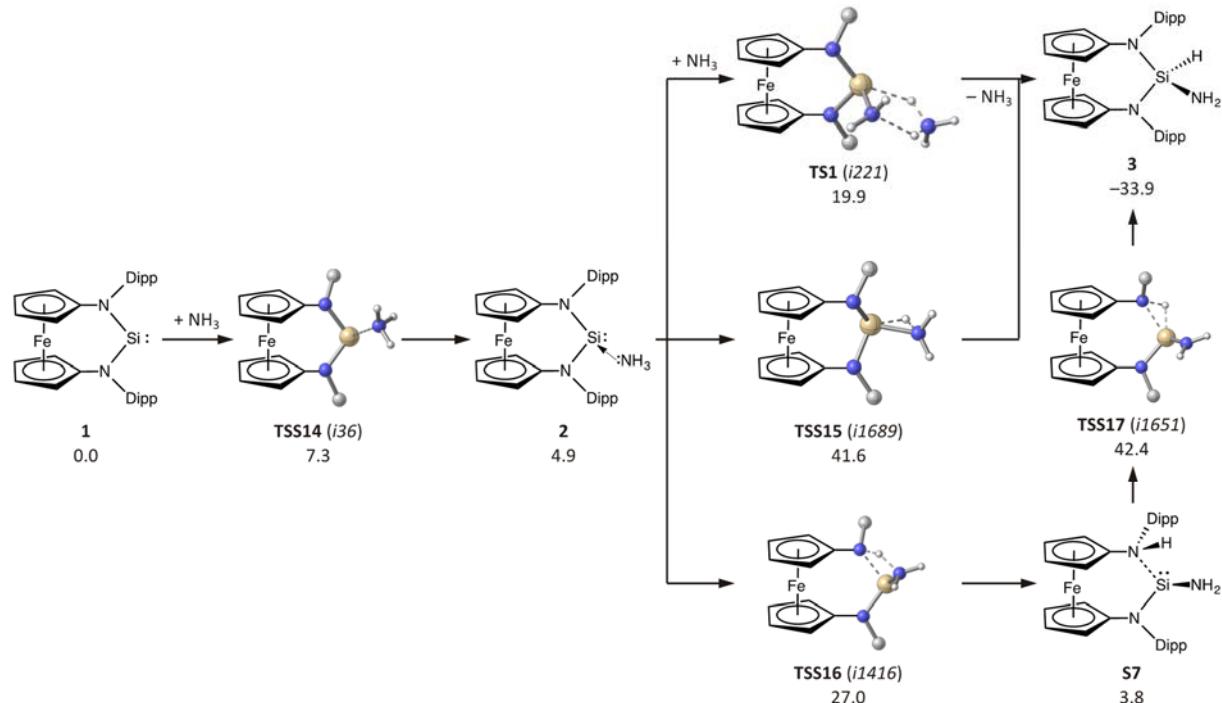
Alternatively, the formation of silanone **5** from **4** through a proton shift and rearrangement to **6** was examined (Scheme S5, a–c).



**Scheme S5.** Computed isomerization paths for **4** to **6**, (1) effective reaction barriers relative to **4** and (2) including 1-D Wigner correction<sup>[S36]</sup> for tunneling effects.

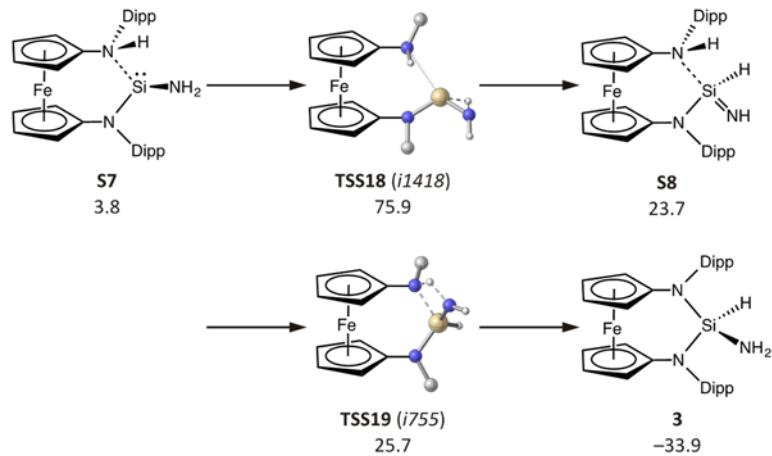
Overall the application of the 1-D Wigner correction lowers activation barriers by ca. 2-3 kcal mol<sup>-1</sup> (Schemes S4 and S5). This is accompanied with an increase of the predicted KIEs (Scheme S4a).

As for the reaction with H<sub>2</sub>O, two pathways, i.e. direct N–H bond insertion as well as N–H bond addition across an N–Si bond of **1**, were examined for ammonia and, as before, proton shuttling involving an additional NH<sub>3</sub> molecule reduces the activation barrier substantially (Scheme S6).



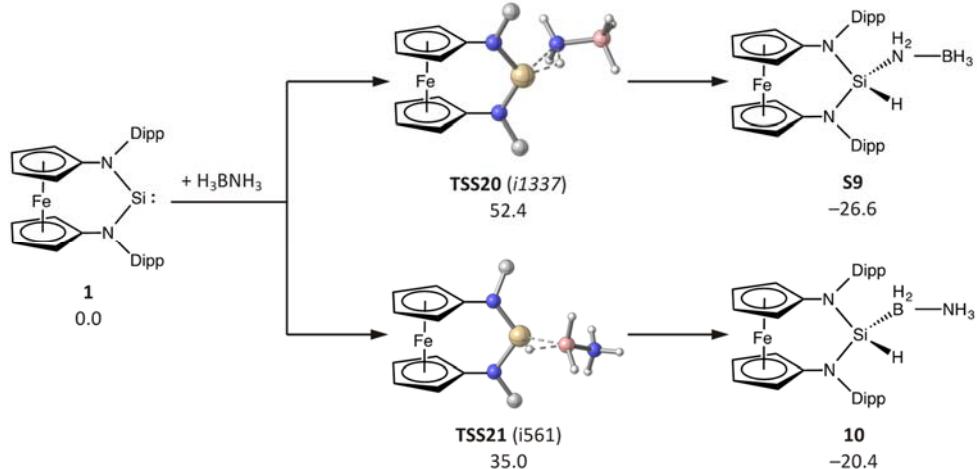
**Scheme S6.** Computed reaction paths for the N–H bond cleavage in NH<sub>3</sub> by **1** and subsequent hydrogen migration.

A reaction involving the silaimine **S8** can clearly be ruled out because of the very high computed activation barrier of 76 kcal mol<sup>-1</sup> (Scheme S7).



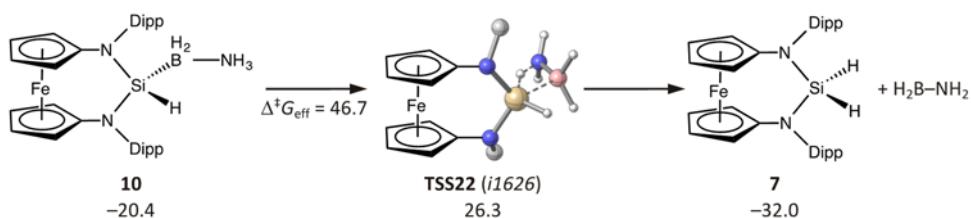
**Scheme S7.** Computed isomerization path for **S7** to **3**.

For the reaction of **1** with H<sub>3</sub>BNH<sub>3</sub> both, insertion into an N–H or a B–H bond, are kinetically strongly disfavored (Scheme S8).



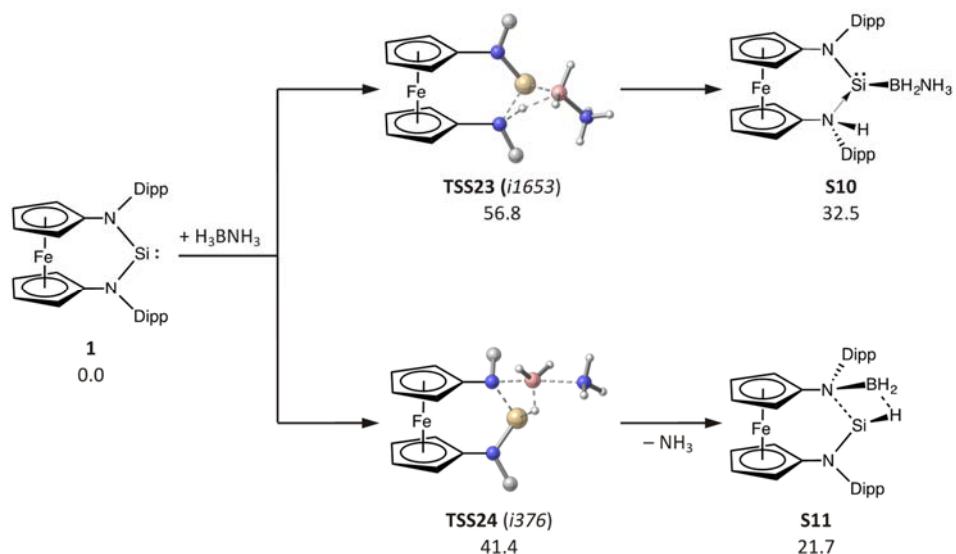
**Scheme S8.** Computed reaction paths for the direct B/N–H bond insertion in H<sub>3</sub>BNH<sub>3</sub> by **1**.

In contrast to expectation silane **7** is not the primary product of the reaction of **1** with H<sub>3</sub>BNH<sub>3</sub>. Extrusion of H<sub>2</sub>BNH<sub>2</sub> from **10** is hindered by an unreasonably high effective barrier of 46.7 kcal mol<sup>-1</sup> (Scheme S9).



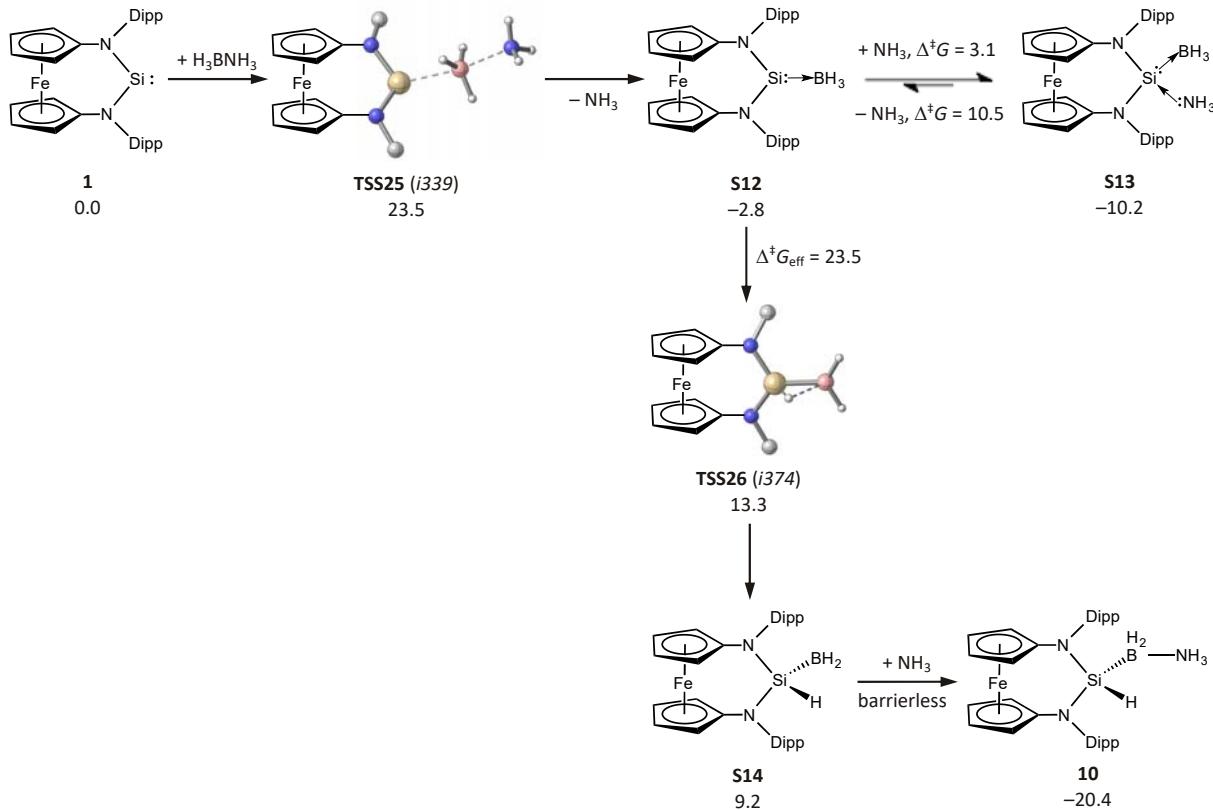
**Scheme S9.** Computed reaction path for the release of H<sub>2</sub>BNH<sub>2</sub> from **10**, effective barrier relative to **10**.

Further, reaction of  $\text{H}_3\text{BNH}_3$  with the partial Si–N double bond was examined (Scheme S10). For either orientation the computed barrier is too high for an efficient reaction at room temperature.



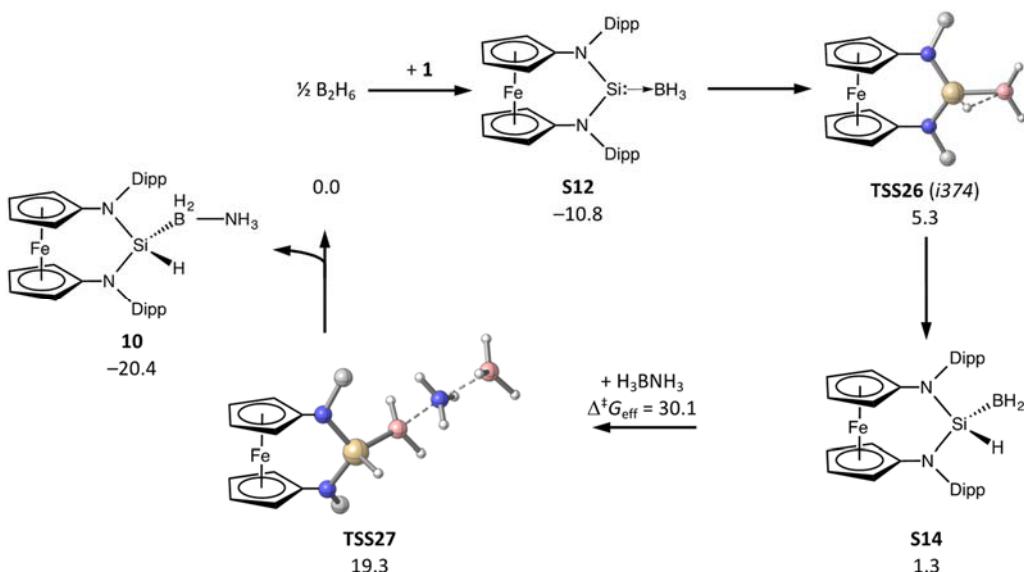
**Scheme S10.** Computed reaction paths for the B–H bond cleavage in  $\text{H}_3\text{BNH}_3$  by the Si–N bond in **1**.

Alternatively, we investigated an  $\text{S}_{\text{N}}$ -like reaction of  $\text{H}_3\text{BNH}_3$  with **1** (Scheme S11). After formation of the borane adduct **S12** reversible coordination of ammonia leads to the push-pull-stabilized silylene **S13**. Alternatively, the silylene can insert in a B–H bond in **S12** and subsequent coordination of ammonia leads to **10**. With reference to **S13**, this sequence has an effective barrier of 24 kcal mol<sup>-1</sup> and cannot compete with the initial dehydrogenation scenario shown in the main text (Scheme 4).



**Scheme S11.** Computed reaction paths for the Sn-like reaction of  $\text{H}_3\text{BNH}_3$  with **1**.

Finally, following a reviewer's suggestion, we elucidated the role of the  $\text{BH}_3$  adduct **S12** as resting state in the catalytic cycle sketched in Scheme S12: low-barrier B–H insertion leads to **S14** and  $\text{NH}_3$  transfer from  $\text{H}_3\text{BNH}_3$  yields the product **10**. The catalytic cycle is closed by regeneration of **S12** with another equivalent of **1** and the liberated  $\text{BH}_3$ . The rate-limiting ammonia transfer via **TSS27** is, however, connected with a prohibitively high activation barrier of  $30 \text{ kcal mol}^{-1}$ . Hence this scenario cannot compete with the initial dehydrogenation of  $\text{H}_3\text{BNH}_3$  by **1** (Scheme 4 in the main text).



**Scheme S12.** Computed reaction path for the reaction of  $\text{B}_2\text{H}_6$  with **1**.

## Cartesian coordinates

Compound (point group): total energy/Hartree (PBEh-3c)

<b>1 (C<sub>2</sub>): E<sub>tot</sub> = -2979.40853194</b>	C	5.61731	19.33663	7.32000	C	1.62288	-1.24002	2.18413
C 4.87836 17.81194 1.95428	H	5.91114	18.81908	6.40683	H	2.58548	-0.77115	2.04677
C 3.99092 18.65654 1.22975	C	6.58768	20.49949	7.52317	C	1.99749	-1.80003	-0.80027
H 2.93130 18.76284 1.41570	H	6.53960	21.20369	6.69255	C	1.93868	-3.15886	-1.15774
C 4.74685 19.35782 0.25862	H	7.61446	20.13668	7.59832	C	3.05291	-3.76171	-1.72840
H 4.36163 20.08665 -0.43869	H	6.36581	21.04888	8.43992	H	3.01457	-4.81000	-2.00068
C 6.09282 18.92579 0.35392	C	5.72192	18.31477	8.45188	C	4.21283	-3.04620	-1.95902
H 6.91412 19.27030 -0.25638	H	5.49364	18.75288	9.42473	H	5.07027	-3.52597	-2.41261
C 6.17773 17.96968 1.39304	H	6.73437	17.91090	8.50704	C	4.26920	-1.71461	-1.59706
H 7.07257 17.45899 1.71659	H	5.03698	17.48130	8.29370	H	5.18357	-1.15995	-1.77074
C 4.95740 20.01912 4.07211	Fe	5.45522	19.71564	2.16061	C	3.18399	-1.07593	-1.00421
C 4.50328 21.12012 3.29029	N	4.53967	16.99939	3.05340	C	0.70738	-4.00489	-0.92121
H 3.47656 21.43371 3.17451	N	4.14424	19.12448	4.80349	H	-0.08000	-3.35201	-0.54947
C 5.62899 21.71541 2.67521	Si	3.87163	17.40287	4.62251	C	0.20079	-4.65180	-2.21100
H 5.60958 22.56533 2.00962	N	1.44357	-0.01023	0.24715	H	0.90491	-5.38578	-2.60466
C 6.78342 20.99896 3.07638	N	-1.40790	-0.08869	0.13310	H	0.04545	-3.91216	-2.99999
H 7.79823 21.20806 2.77260	Si	-0.02833	0.13213	1.18945	H	-0.74221	-5.17499	-2.03860
C 6.37553 19.96630 3.95557	H	0.01127	-0.88403	2.27677	C	0.95704	-5.05084	0.16440
H 7.02013 19.23931 4.42905	<b>2 (C<sub>1</sub>): E<sub>tot</sub> = -3035.85190114</b>				H	0.05236	-5.62868	0.36396
C 4.73190 15.59033 2.83797	C	-0.92607	1.11377	1.26004	H	1.26394	-4.57604	1.09602
C 3.76181 14.85549 2.14084	C	0.17341	1.67804	1.97121	H	1.73941	-5.75282	-0.12938
C 3.97823 13.49799 1.93618	H	1.07929	2.06001	1.52292	C	3.34451	0.37347	-0.60165
H 3.24438 12.91525 1.39285	C	-0.09835	1.60197	3.35816	H	2.44093	0.68207	-0.07116
C 5.11062 12.87259 2.42510	H	0.55478	1.93254	4.15212	C	3.49633	1.26675	-1.83031
H 5.25876 11.81296 2.26262	C	-1.37889	1.01831	3.52175	H	2.63296	1.17426	-2.48843
C 6.04945 13.60394 3.12814	H	-1.87274	0.82409	4.46235	H	4.38794	1.00587	-2.40352
H 6.92726 13.10191 3.51601	C	-1.89071	0.71842	2.23775	H	3.59055	2.31357	-1.53602
C 5.88583 14.96906 3.34042	H	-2.83736	0.24009	2.04125	C	4.52293	0.57318	0.35306
C 2.49728 15.49060 1.60711	C	-1.74893	2.06222	-0.75867	H	4.55113	1.60361	0.71145
H 2.43347 16.50419 2.00338	C	-1.07238	3.21196	-1.21024	H	5.47908	0.37414	-0.13342
C 2.54097 15.59044 0.08241	C	-1.80548	4.25974	-1.75873	H	4.46081	-0.08210	1.22232
H 3.41135 16.15501 -0.25181	H	-1.28829	5.15008	-2.09480	N	0.85526	-1.17543	-0.20754
H 1.64904 16.09157 -0.29815	C	-3.17848	4.19736	-1.88369	N	-1.70187	-1.50301	-1.53444
H 2.58616 14.60174 -0.37820	H	-3.72883	5.02597	-2.30984	H	-2.42683	-1.07375	-2.09701
C 1.24463 14.75585 2.08296	C	-3.83864	3.06161	-1.46111	H	-2.13238	-1.84096	-0.68112
H 1.18393 13.74147 1.68581	H	-4.91612	3.00885	-1.56427	H	-1.34043	-2.29958	-2.04743
H 0.34834 15.28466 1.75467	C	-3.14923	1.99117	-0.90111	<b>3 (C<sub>1</sub>): E<sub>tot</sub> = -3035.91032832349</b>			
H 1.21548 14.68980 3.17075	C	0.42825	3.38940	-1.13043	C	1.63675	-1.12846	-0.58265
C 6.94184 15.72194 4.12430	H	0.87248	2.46068	-0.76842	C	2.15691	-1.09973	-1.90638
H 6.74847 16.79103 4.01756	C	1.02124	3.66112	-2.51278	H	2.55238	-0.22916	-2.40706
C 6.85817 15.38586 5.61413	H	0.62676	4.57777	-2.95345	C	2.06468	-2.40597	-2.44463
H 5.86861 15.60486 6.01864	H	0.80518	2.83881	-3.19471	H	2.37483	-2.70464	-3.43464
H 7.58944 15.96185 6.18492	H	2.10386	3.77378	-2.45294	C	1.48604	-3.24723	-1.46434
H 7.05603 14.32735 5.79194	C	0.79947	4.49830	-0.14467	H	1.28035	-4.30179	-1.57182
C 8.35183 15.46976 3.59103	H	1.88357	4.56399	-0.03107	C	1.24437	-2.46828	-0.30462
H 8.67396 14.43973 3.74961	H	0.36526	4.32054	0.83912	H	0.80926	-2.82310	0.61970
H 9.07062 16.11245 4.10174	H	0.44814	5.47321	-0.48765	C	-1.37435	-0.67154	-1.15545
H 8.42065 15.67180 2.52148	C	-3.97127	0.79662	-0.46899	C	-0.91909	-0.05780	-2.35659
C 3.49673 19.70917 5.94153	H	-3.28703	0.04933	-0.06568	H	-0.53453	0.94798	-2.44487
C 2.16483 20.13695 5.83334	C	-4.72279	0.17385	-1.64947	C	-1.00367	-1.00895	-3.40218
C 1.55822 20.70456 6.94891	H	-4.07462	-0.00291	-2.51067	H	-0.71462	-0.84752	-4.43001
H 0.52823 21.03414 6.89007	H	-5.52020	0.82815	-2.00386	C	-1.54418	-2.20385	-2.86566
C 2.24733 20.85695 8.13762	H	-5.18684	-0.77301	-1.36582	H	-1.73642	-3.11486	-3.41251
H 1.76129 21.30800 8.99287	C	-4.96292	1.16422	0.63698	C	-1.77356	-2.00162	-1.48642
C 3.55574 20.42054 8.23298	H	-5.47111	0.27556	1.01753	H	-2.16556	-2.73349	-0.79729
H 4.08424 20.53105 9.17221	H	-5.73212	1.84479	0.26897	C	2.58320	0.81698	0.45775
C 4.19827 19.83247 7.14956	H	-4.46681	1.65765	1.47149	C	3.65752	0.32515	1.21868
C 1.35417 19.96485 4.56519	Fe	-0.13790	-0.26542	2.48997	C	4.80468	1.10067	1.33913
H 2.03434 19.68344 3.75933	N	-1.02847	0.98307	-0.14423	H	5.64667	0.72534	1.90799
C 0.65959 21.25685 4.13645	Si	-0.09397	-0.07656	-1.27289	C	4.88965	2.34919	0.75117
H -0.11666 21.55994 4.84037	C	0.68102	-1.50883	1.14845	H	5.79050	2.94010	0.85358
H 0.17808 21.12462 3.16631	C	-0.44417	-2.13427	1.76278	C	3.81195	2.84151	0.03982
H 1.36438 22.08501 4.05278	H	-1.34068	-2.47823	1.26688	H	3.88119	3.82512	-0.40915
C 0.34169 18.82934 4.72408	C	-0.21060	-2.20757	3.15893	C	2.64840	2.09530	-0.11907
H 0.83429 17.89001 4.98034	H	-0.88833	-2.61504	3.89437	C	3.60962	-1.02596	1.89990
H -0.21843 18.67502 3.79977	C	1.07198	-1.66539	3.41519	H	2.58490	-1.39561	1.85512
H -0.37685 19.04785 5.51599	H	1.54351	-1.58229	4.38297	C	3.97482	-0.93257	3.38142

H	3.34779	-0.20747	3.90110	C	3.45103	1.72763	0.29988	C	-1.65780	3.07947	3.73647		
H	5.01501	-0.64163	3.53543	C	3.01660	-1.58657	-1.61488	H	-2.54696	2.69760	4.21561		
H	3.83717	-1.90090	3.86505	H	1.93802	-1.61590	-1.44485	C	-0.47880	3.50358	4.39297		
C	4.50115	-2.03650	1.17761	C	3.21175	-1.69094	-3.12722	H	-0.31056	3.50672	5.46002		
H	4.42775	-3.01989	1.64535	H	4.26359	-1.78188	-3.40054	C	1.89656	5.56157	4.40397		
H	5.54902	-1.73120	1.21015	H	2.80965	-0.81937	-3.64387	C	2.09636	5.51834	5.78886		
H	4.21557	-2.14323	0.13148	H	2.70298	-2.57539	-3.51412	C	2.15344	6.71504	6.49471		
C	1.51155	2.69485	-0.91800	C	3.61046	-2.79877	-0.89648	H	2.31300	6.70064	7.56582		
H	0.64776	2.03560	-0.82552	H	3.16484	-3.72435	-1.26589	C	2.02312	7.93039	5.84906		
C	1.85084	2.78639	-2.40571	H	3.43745	-2.74556	0.17792	H	2.06707	8.85295	6.41316		
H	2.07028	1.80718	-2.82932	H	4.68780	-2.86174	-1.05886	C	1.85746	7.96181	4.47714		
H	2.72028	3.42310	-2.57802	C	2.70207	2.73477	1.14478	H	1.78475	8.91837	3.97387		
H	1.01572	3.21000	-2.96757	H	1.71505	2.33405	1.37502	C	1.79742	6.78885	3.73334		
C	1.10805	4.07068	-0.38731	C	2.47657	4.02462	0.35661	C	2.34540	4.22009	6.51998		
H	1.88104	4.81937	-0.56637	H	1.96001	3.82541	-0.58287	H	2.03244	3.40240	5.86430		
H	0.92423	4.05194	0.68705	H	3.41920	4.51984	0.11543	C	3.84457	4.07072	6.78155		
H	0.20065	4.42111	-0.88155	H	1.86381	4.72309	0.92830	H	4.41098	4.07534	5.84862		
C	-2.71605	0.18817	0.64259	C	3.41243	3.02847	2.46606	H	4.05754	3.14608	7.32003		
C	-3.34534	1.39465	0.29167	H	2.79318	3.67071	3.09412	H	4.21339	4.89563	7.39358		
C	-4.63140	1.64348	0.75459	H	4.36248	3.54417	2.31686	C	1.54195	4.08737	7.81148		
H	-5.13203	2.56329	0.47751	H	3.62576	2.11591	3.02372	H	1.85393	4.80993	8.56659		
C	-5.28501	0.74061	1.57250	Fe	-0.37600	-0.85905	2.36036	H	1.68083	3.09534	8.24510		
H	-6.28455	0.95209	1.92948	N	1.48852	0.27315	0.11264	H	0.47430	4.23374	7.64120		
C	-4.65031	-0.43099	1.93395	Si	-0.68280	2.11176	-0.04638	C	1.69928	6.88389	2.22665		
H	-5.16395	-1.13063	2.58237	C	-1.89529	0.17536	1.42971	H	1.57127	5.87976	1.82239		
C	-3.37103	-0.73338	1.47584	C	-1.58203	0.77706	2.67958	C	3.00551	7.43289	1.64968		
C	-2.67759	2.42993	-0.58557	H	-1.24857	1.79332	2.83093	H	3.85384	6.81774	1.95173		
H	-1.62928	2.14869	-0.69765	C	-1.77898	-0.19233	3.69567	H	3.19418	8.45296	1.98913		
C	-3.30252	2.45072	-1.98075	H	-1.62600	-0.03563	4.75319	H	2.96758	7.44954	0.55873		
H	-4.35019	2.75469	-1.93851	C	-2.22697	-1.38600	3.08340	C	0.49011	7.69804	1.77234		
H	-3.25946	1.46746	-2.44818	H	-2.47355	-2.30819	3.58803	H	0.41758	7.69580	0.68347		
H	-2.77995	3.15611	-2.63025	C	-2.28977	-1.16514	1.68525	H	0.55460	8.74032	2.08885		
C	-2.70939	3.82107	0.04724	H	-2.60477	-1.88092	0.94069	H	-0.43625	7.28473	2.17205		
H	-2.13847	4.52924	-0.55546	C	-2.84001	0.40489	-0.75718	Fe	-0.02599	1.98493	3.11116		
H	-2.28508	3.81297	1.05216	C	-4.09736	1.01750	-0.62340	N	1.77319	4.34544	3.66263		
H	-3.72347	4.21503	0.12614	C	-5.11537	0.64722	-1.49391	Si	3.12523	3.70173	2.75232		
C	-2.75124	-2.04289	1.91719	H	-6.09293	1.10379	-1.39848	C	1.76534	1.06397	3.18958		
H	-1.79312	-2.16019	1.40876	C	-4.90392	-0.29289	-2.48606	C	1.14701	0.78567	1.94258		
C	-2.47511	-2.03877	3.42136	H	-5.70674	-0.56436	-3.15911	H	1.52186	1.03913	0.96376		
H	-3.40075	-1.97165	3.99579	C	-3.66163	-0.88415	-2.61079	C	-0.07437	0.12489	2.21283		
H	-1.84701	-1.19597	3.70761	H	-3.50106	-1.62011	-3.38970	H	-0.78031	-0.21395	1.46988		
H	-1.96550	-2.95550	3.72361	C	-2.61781	-0.55666	-1.75139	C	-0.21387	-0.00397	3.61575		
C	-3.62262	-3.24236	1.54010	C	-4.38872	2.04049	0.45415	H	-1.04321	-0.46006	4.13476		
H	-3.10274	-4.17620	1.76082	H	-3.44428	2.34510	0.90772	C	0.92681	0.56986	4.22506		
H	-3.88066	-3.24039	0.48088	C	-5.03442	3.30559	-0.10908	H	1.11484	0.63737	5.28710		
H	-4.55940	-3.25503	2.09919	H	-6.03260	3.11936	-0.50833	C	4.18760	0.86291	3.25595		
Fe	0.20227	-1.68985	-1.87487	H	-4.43188	3.73551	-0.90963	C	4.75781	0.63337	1.99868		
N	-0.17633	1.62879	1.99581	H	-5.13751	4.05736	0.67492	C	5.83552	-0.24244	1.91887		
H	-0.34554	2.49974	1.52344	C	-5.24549	1.42743	1.56269	H	6.29625	-0.42020	0.95591		
H	0.17024	1.76005	2.92959	H	-5.42418	2.15284	2.35830	C	6.33619	-0.88312	3.03198		
N	1.44357	-0.01023	0.24715	H	-4.75693	0.55970	2.00608	H	7.17358	-1.56216	2.94339		
N	-1.40790	-0.08869	0.13310	H	-6.21675	1.10739	1.18010	C	5.75982	-0.64392	4.26165		
Si	-0.02833	0.13213	1.18945	C	-1.28859	-1.25346	-1.92565	H	6.15350	-1.14922	5.13373		
H	0.01127	-0.88403	2.27677	H	-0.65406	-0.93324	-1.09891	C	4.68583	0.22762	4.40523		
<b>4 (C<sub>1</sub>): E<sub>tot</sub> = -3055.69513045</b>													
C	1.31963	-0.59853	1.21906	H	-0.49433	0.22755	-3.30016	H	3.41675	1.86382	0.88398		
C	0.89826	-1.95508	1.18042	H	-1.21477	-1.16877	-4.09725	C	5.37677	2.27168	0.21264		
H	0.61688	-2.51018	0.29644	H	0.36236	-1.32039	-3.33691	H	6.30865	1.76281	-0.04040		
C	0.89982	-2.45565	2.50622	C	-1.41132	-2.77350	-1.82608	H	5.59237	3.02364	0.97094		
H	0.62564	-3.45686	2.80371	H	-0.42607	-3.24109	-1.89326	H	5.02652	2.78294	-0.68570		
C	1.33159	-1.41547	3.36356	H	-2.01731	-3.18808	-2.63285	C	3.96707	0.25018	-0.36259		
H	1.44122	-1.47844	4.43587	H	-1.86222	-3.08203	-0.88270	H	3.55678	0.74646	-1.24346		
C	1.57678	-0.26585	2.57455	N	-1.80771	0.76992	0.15879	H	3.22873	-0.46731	-0.00212		
H	1.90476	0.69367	2.94234	O	-0.78885	2.23083	-1.71436	H	4.83984	-0.31464	-0.69230		
C	2.85769	0.56762	-0.21617	H	1.02190	-0.11346	-0.69608	C	4.13060	0.38450	5.81059		
C	3.58619	-0.30058	-1.04782	H	-0.31704	2.98495	-2.07386	H	3.40069	1.20027	5.85602		
C	4.90839	0.01198	-1.34210	<b>5 (C<sub>1</sub>): E<sub>tot</sub> = -3055.70217014</b>						C	5.22330	0.75631	6.81343
H	5.48509	-0.64970	-1.97646	C	0.45467	3.92981	3.40508	H	5.76816	1.64484	6.49832		
C	5.50924	1.14547	-0.82852	C	-0.17343	3.77665	2.13499	H	5.94411	-0.05066	6.94530		
H	6.54157	1.36914	-1.06344	H	0.26981	4.00451	1.17714	H	4.78500	0.95523	7.79229		
C	4.77990	1.99206	-0.01723	C	-1.46466	3.23518	2.34229	C	3.40598	-0.89100	6.24662		
H	5.25092	2.88608	0.37255	H	-2.18095	2.99455	1.57068	H	2.93494	-0.75422	7.22161		

H	4.10578	-1.72318	6.33420	H	-2.41883	3.69478	2.22479	H	-5.53242	0.81164	2.13093							
H	2.63776	-1.18632	5.53278	C	-2.21706	3.97915	-0.51640	C	-4.84606	2.38608	0.86674							
N	3.02104	1.74783	3.40018	H	-1.74522	3.78201	-1.47937	H	-5.72793	2.99376	1.02232							
H	3.01832	2.03064	4.37948	H	-1.59488	4.69611	0.02036	C	-3.82689	2.83735	0.05000							
O	4.54973	4.16132	3.09317	H	-3.17382	4.46589	-0.70969	H	-3.92129	3.80447	-0.42933							
H	2.61001	3.51736	1.37050	C	-3.05899	-2.03073	-1.60824	C	-2.68994	2.06806	-0.17609							
<b>6 (C<sub>1</sub>): E<sub>tot</sub> = -3055.76098406</b>																		
H	-2.21006	-2.60860	1.02314	C	-4.02899	-3.01151	-0.94351	H	-2.49338	-1.33570	1.93842							
C	-1.84037	-1.81895	1.65750	H	-3.65587	-4.03440	-1.02336	C	-3.83358	-0.86388	3.50710							
C	-1.43037	-0.52163	1.22715	H	-5.01037	-2.98784	-1.42046	H	-4.87246	-0.58791	3.69379							
H	-1.84553	-2.76924	3.66937	H	-4.18102	-2.78632	0.11215	H	-3.20000	-0.12228	3.99418							
C	-0.99737	0.18868	2.38268	C	-2.94988	-2.33295	-3.10291	H	-3.66420	-1.82314	3.99847							
C	-1.10625	-0.67266	3.50069	H	-2.57181	-3.34491	-3.25857	C	-4.42684	-2.00152	1.33721							
H	-0.83715	-0.42793	4.51740	H	-2.27074	-1.64135	-3.59519	H	-4.33188	-2.97735	1.81680							
C	-1.64027	-1.90633	3.05360	H	-3.92002	-2.26863	-3.59896	H	-4.17476	-2.12212	0.28386							
Fe	0.12495	-1.48435	2.05771	H	0.04337	1.65957	-1.54695	H	-5.47480	-1.70135	1.39915							
H	0.74978	-2.83593	-0.31675	O	-0.14745	-0.72512	-2.41271	C	-1.61904	2.60747	-1.09807							
C	1.17971	-2.41616	0.58239	H	0.38857	-0.47555	-3.16825	H	-0.82699	1.86069	-1.16544							
C	1.38883	-3.09177	1.81038	<b>7 (C<sub>1</sub>): E<sub>tot</sub> = -2980.63295189</b>														
H	1.16084	-4.12843	2.00876	C	1.41677	-0.70335	-1.17879	H	-0.58146	3.74232	0.44440							
C	1.96233	-2.17521	2.72547	C	0.97108	-0.11509	-2.39614	H	-1.73873	4.69523	-0.48027							
H	2.24710	-2.39041	3.74439	H	0.60904	0.89620	-2.51254	H	-0.19973	4.24260	-1.20168							
C	2.08704	-0.92373	2.07653	C	1.03822	-1.09578	-3.41477	C	-2.15197	2.83074	-2.51354							
C	1.59186	-1.06517	0.75005	H	0.75200	-0.95754	-4.44675	H	-1.34820	3.14800	-3.18049							
H	2.47865	-0.01556	2.50934	C	1.55941	-2.28404	-2.84599	H	-2.92077	3.60464	-2.53927							
H	-0.61388	1.19871	2.39594	H	1.73685	-3.21253	-3.36789	H	-2.58988	1.92292	-2.92832							
N	1.44877	-0.01965	-0.18099	C	1.79250	-2.04873	-1.47243	N	-1.44432	-0.00224	0.23013							
N	-1.42902	-0.05192	-0.10712	H	2.16920	-2.76939	-0.76359	H	0.11066	-0.55443	2.32975							
Si	-0.02090	0.25442	-1.07327	C	2.71249	0.21893	0.66038	H	0.05758	1.69100	1.51150							
C	2.63744	0.68414	-0.54251	C	3.31742	1.44909	0.34525	<b>8 (C<sub>1</sub>): E<sub>tot</sub> = -3061.30468923</b>										
C	4.96193	2.04332	-1.23971	C	4.56083	1.74342	0.89131	C	-0.72430	4.05064	4.66527							
C	2.87772	1.96444	-0.01975	H	5.04730	2.67886	0.64440	C	-1.72747	4.29327	3.68635							
C	3.56194	0.08252	-1.41312	C	5.18989	0.86438	1.75360	H	-1.64452	4.97937	2.85687							
C	4.72107	0.77673	-1.73994	H	6.15600	1.11223	2.17367	C	-2.84043	3.47038	3.98206							
C	4.04246	2.62893	-0.39062	C	4.57605	-0.32872	2.08041	H	-3.75948	3.42282	3.41729							
H	5.44912	0.32227	-2.40078	H	5.07159	-1.00779	2.76376	C	-2.53320	2.71224	5.13770							
H	4.23897	3.62039	-0.00037	C	3.33999	-0.67664	1.54357	H	-3.17842	1.98841	5.61303							
H	5.86655	2.57210	-1.51036	C	2.67204	2.44784	-0.58968	C	-1.23759	3.08212	5.57499							
C	-2.70182	0.33077	-0.64704	H	1.62868	2.15730	-0.72489	H	-0.71537	2.67732	6.42971							
C	-5.18743	1.08963	-1.65237	C	2.66896	3.86309	-0.01417	C	0.67554	6.01082	4.72914							
C	-3.16411	1.64512	-0.45616	H	3.67568	4.26802	0.09807	C	0.50462	6.65043	5.96773							
C	-3.48075	-0.59870	-1.35816	H	2.18584	3.89425	0.96259	C	0.56898	8.03754	6.01907							
C	-4.71744	-0.19365	-1.85068	H	2.12591	4.53916	-0.67589	H	0.42809	8.54522	6.96569							
C	-4.41124	1.99836	-0.95994	C	3.34946	2.41506	-1.96050	C	0.81931	8.78462	4.88219							
H	-5.32858	-0.90006	-2.39919	H	2.84929	3.09160	-2.65649	H	0.87185	9.86405	4.94068							
H	-4.78472	3.00349	-0.80762	H	3.32900	1.41421	-2.39102	C	1.00629	8.14418	3.67240							
H	-6.15561	1.38158	-2.03803	H	4.39354	2.72620	-1.88982	H	1.20850	8.73481	2.78672							
C	1.92687	2.64732	0.93830	C	2.74185	-2.01075	1.93778	C	0.93177	6.75815	3.57138							
H	1.10884	1.95649	1.14757	H	1.79353	-2.13062	1.41100	C	0.24314	5.87858	7.24255							
C	2.60387	2.97130	2.27069	C	2.44446	-2.07115	3.43659	H	0.38814	4.81801	7.03706							
H	3.05480	2.08762	2.72227	H	1.78747	-1.25932	3.74628	C	1.23176	6.24899	8.34738							
H	1.87938	3.37632	2.97925	H	3.35777	-2.00413	4.03014	H	1.07720	5.61503	9.22197							
H	3.39433	3.71428	2.15343	H	1.95664	-3.01316	3.69321	H	1.11900	7.28368	8.67493							
C	1.32783	3.91145	0.32446	C	3.65319	-3.17131	1.53244	H	2.26201	6.11669	8.01515							
H	0.81108	3.69501	-0.60980	H	3.15949	-4.12792	1.71232	C	-1.20300	6.06301	7.70187							
H	2.09592	4.65771	0.11394	H	4.58082	-3.17274	2.10695	H	-1.41363	7.10709	7.94190							
H	0.60794	4.36652	1.00742	H	3.92893	-3.12389	0.47894	H	-1.40355	5.47048	8.59638							
C	3.35236	-1.30548	-1.97927	Fe	-0.17824	-1.71859	-1.86988	H	-1.90412	5.74927	6.92849							
H	2.32857	-1.61270	-1.77188	N	1.43826	-0.09574	0.09517	C	1.14502	6.11411	2.22029							
C	4.27862	-2.31111	-1.29505	Si	0.04729	0.26894	1.08992	H	0.97386	5.04123	2.32903							
H	4.09697	-3.32028	-1.66893	C	-1.62219	-1.12984	-0.59014	C	2.58349	6.31318	1.74719							
H	4.12014	-2.32162	-0.21688	C	-1.23903	-2.46637	-0.29328	H	3.29779	5.86819	2.44071							
H	5.32803	-2.07224	-1.47834	H	-0.81423	-2.81013	0.64020	H	2.83075	7.37212	1.65369							
C	3.52453	-1.34308	-3.49765	C	-1.47864	-3.25695	-1.44555	H	2.73741	5.85302	0.77027							
H	3.26034	-2.32842	-3.88414	H	-1.28124	-4.31439	-1.53929	C	0.16137	6.63769	1.17366							
H	4.55151	-1.14148	-3.80527	C	-2.04213	-2.42236	-2.44109	H	0.32730	7.69284	0.95034							
H	2.88923	-0.60700	-3.99387	H	-2.34567	-2.73076	-3.43019	H	-0.87284	6.53633	1.50321							
C	-2.37667	2.69548	0.29751	C	-2.12709	-1.10897	-1.91970	H	0.26994	6.08759	0.23721							
H	-1.37305	2.31000	0.48337	H	-2.50394	-0.23786	-2.43445	Fe	-1.13499	2.34153	3.67129							
C	-3.02094	2.98475	1.65392	C	-2.58662	0.82027	0.45724	N	0.57519	4.59167	4.65384							
H	-3.12485	2.07637	2.24685	C	-3.60438	0.36226	1.31027	Si	1.93678	3.51371	4.89297							
H	-4.01559	3.41822	1.53448	C	-4.73144	1.15570	1.48828	C	0.71238	1.67936	3.17164							

C	0.01675	2.11826	2.00849	H	-0.82302	5.93841	6.28878	H	4.25116	20.03193	-0.58386		
H	0.32360	2.92630	1.36050	C	2.73852	6.25828	1.50641	C	5.98896	18.90557	0.24182		
C	-1.15960	1.34324	1.87289	H	2.81219	5.17160	1.56912	H	6.81778	19.27110	-0.34588		
H	-1.90034	1.44546	1.09377	C	4.12035	6.78781	1.12232	C	6.06857	17.94755	1.28082		
C	-1.19429	0.40901	2.93836	H	4.87083	6.51100	1.86403	H	6.96718	17.46142	1.62638		
H	-1.96759	-0.32402	3.11409	H	4.13057	7.87502	1.03066	C	4.78666	20.04504	3.95688		
C	-0.04697	0.61098	3.73806	H	4.43424	6.38157	0.15967	C	4.34054	21.11619	3.12190		
H	0.20100	0.06100	4.63325	C	1.70258	6.60034	0.43591	H	3.31811	21.42685	2.97339		
C	3.10528	1.47482	3.43267	H	1.98369	6.16670	-0.52646	C	5.46860	21.69168	2.49415		
C	3.81947	1.67112	2.23285	H	1.61665	7.67958	0.29512	H	5.45300	22.51690	1.79766		
C	4.98515	0.94422	2.01402	H	0.71507	6.22288	0.70161	C	6.62053	20.98896	2.92663		
H	5.53330	1.07905	1.09015	Fe	0.18966	2.03418	3.17742	H	7.63701	21.18565	2.61965		
C	5.46568	0.05240	2.95495	N	1.91961	4.49767	3.68587	C	6.20499	19.98675	3.83523		
H	6.37927	-0.49739	2.76977	Si	3.21050	3.45913	4.29473	H	6.84586	19.27104	4.32940		
C	4.76671	-0.13169	4.13058	C	1.97697	1.15259	3.49987	C	4.76994	15.57168	2.84758		
H	5.14478	-0.83180	4.86568	C	1.32571	0.53208	2.39579	C	3.91220	14.69475	2.16278		
C	3.58191	0.55417	4.38529	H	1.69500	0.48965	1.38356	C	4.25477	13.35087	2.07585		
C	3.35582	2.62651	1.15644	C	0.09952	-0.00911	2.85119	H	3.60574	12.66601	1.54347		
H	2.59251	3.27396	1.59199	H	-0.62129	-0.53732	2.24519	C	5.41055	12.86862	2.66232		
C	4.48147	3.52737	0.64946	C	-0.02028	0.27511	4.23212	H	5.66029	11.81787	2.59071		
H	5.27066	2.96380	0.14998	H	-0.84786	-0.00025	4.86889	C	6.24504	13.73698	3.33912		
H	4.93516	4.09760	1.46020	C	1.14375	0.97078	4.64145	H	7.14919	13.35271	3.79647		
H	4.09497	4.24002	-0.07981	H	1.34658	1.33550	5.63735	C	5.94926	15.09320	3.43827		
C	2.73207	1.85088	-0.00594	C	4.32016	1.25046	2.93489	C	2.64280	15.17380	1.49246		
H	3.47998	1.23248	-0.50637	C	4.69526	1.40984	1.59001	H	2.44947	16.19722	1.81408		
H	2.31740	2.53355	-0.75056	C	5.85762	0.78965	1.13855	C	2.81350	15.19798	-0.02674		
H	1.93190	1.19323	0.33093	H	6.16833	0.92359	0.10951	H	3.64841	15.83545	-0.31803		
C	2.87332	0.26144	5.69111	C	6.61120	-0.01641	1.97221	H	1.91390	15.58197	-0.51170		
H	1.94219	0.82514	5.71575	H	7.50111	-0.50650	1.59804	H	3.00197	14.19742	-0.42115		
C	3.70697	0.72034	6.88747	C	6.20607	-0.21255	3.28366	C	1.42533	14.34786	1.90412		
H	3.95366	1.78012	6.81747	H	6.78390	-0.87010	3.92172	H	1.48672	13.31545	1.55585		
H	4.64489	0.16683	6.96048	C	5.07142	0.41729	3.78674	H	0.51631	14.77700	1.47898		
H	3.16036	0.56722	7.81932	C	3.85007	2.17946	0.59848	H	1.31499	14.32880	2.98867		
C	2.51074	-1.21929	5.81211	H	2.95026	2.50705	1.12064	C	6.91800	15.99248	4.17359		
H	1.91615	-1.39279	6.71076	C	4.55366	3.42335	0.06699	H	6.54483	17.01538	4.09553		
H	3.39546	-1.85387	5.88288	H	5.46559	3.17003	-0.47727	C	6.99375	15.63387	5.65659		
H	1.93281	-1.56020	4.95269	H	4.83155	4.10092	0.86937	H	6.01207	15.68185	6.12434		
N	1.91549	2.22667	3.67803	H	3.89905	3.96367	-0.62014	H	7.65863	16.32111	6.18461		
N	4.87082	4.05719	4.48785	C	3.42543	1.28621	-0.57037	H	7.38380	14.62489	5.80382		
H	4.98033	3.16704	4.02828	H	2.69161	1.80058	-1.19297	C	8.31756	15.94672	3.55714		
H	5.73343	4.56660	4.58098	H	2.98447	0.34651	-0.23735	H	8.78774	14.97252	3.70174		
B	3.66419	4.54934	4.96047	H	4.27192	1.03356	-1.21132	H	8.96632	16.69120	4.02237		
H	3.67641	5.61884	5.49983	C	4.63877	0.13779	5.20997	H	8.30336	16.13787	2.48428		
H	1.72843	2.89098	6.24333	H	3.93141	0.91310	5.50885	C	3.45279	19.62687	5.94768		
<b>9 (C<sub>1</sub>): E<sub>tot</sub> = -3144.33725214</b>													
C	0.67310	3.99949	3.24104	H	6.35065	1.10772	6.15630	C	1.63038	20.56239	7.23268		
C	0.35313	3.62388	1.90538	H	6.50053	-0.64613	6.05746	H	0.64469	21.01071	7.27573		
H	1.02548	3.67898	1.06169	H	5.41126	0.07137	7.22631	C	2.33113	20.36348	8.40593		
C	-0.97481	3.13493	1.88264	C	3.90919	-1.20592	5.27897	H	1.89926	20.64892	9.35647		
H	-1.49940	2.76274	1.01517	H	3.54227	-1.39480	6.28938	C	3.59669	19.80357	8.35439		
C	-1.49754	3.22763	3.19663	H	4.57647	-2.02635	5.00701	H	4.14551	19.66000	9.27659		
H	-2.48972	2.93491	3.50683	H	3.05434	-1.23061	4.60454	C	4.17322	19.42534	7.14497		
C	-0.49041	3.75828	4.03364	N	3.16603	1.90881	3.43798	C	1.34474	20.49784	4.75991		
H	-0.58328	3.93259	5.09447	B	4.99342	4.41322	4.46174	H	1.89528	20.14188	3.89054		
C	1.96013	5.90920	3.91624	H	2.85940	3.07645	5.71307	C	1.12212	22.00294	4.59923		
C	1.64457	6.43844	5.17941	H	4.90415	5.60557	4.36736	H	0.49993	22.40851	5.39895		
C	1.65924	7.81868	5.35464	N	5.80399	3.87915	5.61102	H	0.61925	22.21807	3.65461		
H	1.42200	8.23607	6.32595	H	6.25390	4.59563	6.16190	H	2.06573	22.54819	4.61246		
C	1.96735	8.67122	4.31281	H	5.30519	3.26281	6.23554	C	0.00959	19.75431	4.76799		
H	1.96178	9.74292	4.46403	B	6.86371	4.19067	2.94787	H	0.15657	18.67263	4.77460		
C	2.29618	8.14241	3.07936	N	7.46788	2.95364	3.71562	H	-0.56178	19.98573	3.86798		
H	2.55344	8.81336	2.26863	H	6.86566	4.04176	1.76097	H	-0.60992	20.02339	5.62534		
C	2.31513	6.76919	2.86416	H	7.34311	5.21039	3.35436	C	5.56382	18.83314	7.14862		
C	1.32376	5.57551	6.38164	H	5.59673	4.11251	3.22072	H	5.70656	18.32861	6.19175		
H	1.25339	4.53840	6.05619	H	7.02791	3.04895	4.67266	C	6.60539	19.94768	7.27083		
C	2.45364	5.64065	7.41009	H	7.20532	2.05958	3.30729	H	6.48594	20.69726	6.48951		
H	3.40589	5.34293	6.96991	H	8.47686	2.99578	3.78748	H	7.61606	19.54141	7.19571		
H	2.24954	4.97570	8.25164	<b>10 (C<sub>1</sub>): E<sub>tot</sub> = -3062.49096653</b>						H	6.52362	20.45501	8.23441
H	2.57619	6.65038	7.80610	C	4.76031	17.74520	1.80320	C	5.76473	17.79033	8.24607		
C	-0.01440	5.94777	7.02019	C	3.87408	18.57946	1.06363	H	5.70081	18.21820	9.24788		
H	0.00741	6.94259	7.46771	H	2.80924	18.66558	1.22272	H	6.75350	17.34012	8.15749		
H	-0.26736	5.24318	7.81467	C	4.63772	19.30824	0.11840	H	5.03424	16.98385	8.17111		

B	2.93730	16.28098	5.59553	C	-0.33592	3.64461	3.35033	C	4.68934	-0.21912	-1.84558
H	2.35625	15.33219	5.11867	H	-0.29613	3.95281	4.38508	H	5.35730	-0.93828	-2.30290
H	3.92188	15.92709	6.19772	Fe	0.14991	1.77278	2.67458	C	5.03508	1.11938	-1.84492
Fe	5.30180	19.68273	2.03156	N	2.05556	4.17222	2.73248	H	5.96541	1.43917	-2.29569
N	4.43658	16.95628	2.92223	Si	2.95717	3.19698	4.44982	C	4.18650	2.04995	-1.27507
N	3.99041	19.16114	4.71780	C	1.85826	0.88804	3.42291	H	4.46220	3.09700	-1.29220
N	1.93605	16.91430	6.72454	C	1.45281	0.27101	2.20582	C	2.98921	1.66250	-0.68398
H	1.65348	16.19210	7.37817	H	2.04374	0.21224	1.30189	C	3.15053	-2.12540	-1.32309
H	1.09301	17.31545	6.32677	C	0.14599	-0.25807	2.38083	H	2.11299	-2.24275	-1.00723
H	2.39290	17.65348	7.25541	H	-0.42133	-0.80312	1.64123	C	3.24214	-2.69653	-2.73730
Si	3.33631	17.60681	4.13248	C	-0.27003	0.04937	3.69686	H	4.26438	-2.69326	-3.11853
H	2.07980	17.97184	3.37876	H	-1.21584	-0.21732	4.14474	H	2.62060	-2.12896	-3.42940
<b>1H (C<sub>2v</sub>): E<sub>tot</sub> = -2047.57503431</b>				C	0.78148	0.75422	4.33973	H	2.89906	-3.73228	-2.74723
C	0.64917	3.62491	2.77640	H	0.76920	1.14166	5.34803	C	4.02522	-2.91091	-0.34530
C	0.23219	3.12266	1.51085	N	3.02393	1.61443	3.62762	H	3.74464	-3.96572	-0.33812
H	0.86737	3.00596	0.64470	H	4.32410	3.65360	3.94478	H	3.92816	-2.53027	0.67163
C	-1.13586	2.77365	1.60736	H	2.04282	5.16897	2.92493	H	5.07903	-2.85224	-0.62399
H	-1.73935	2.34937	0.81876	H	3.73103	1.41916	2.93615	C	2.08667	2.72537	-0.08978
C	-1.57711	3.07691	2.92068	H	2.67058	4.03189	1.93841	H	1.30320	2.23025	0.48846
H	-2.57480	2.92385	3.30447	<b>S4 (C<sub>1</sub>): E<sub>tot</sub> = -3006.00793736</b>				C	1.40264	3.53854	-1.19048
C	-0.48321	3.61409	3.63990	C	-1.48429	-0.02660	1.35371	H	0.85060	2.90240	-1.88299
H	-0.48561	3.93451	4.67168	C	-1.16537	1.07234	2.20005	H	2.13383	4.09425	-1.77998
Fe	-0.00349	1.74381	2.99045	H	-0.82368	2.04428	1.87377	H	0.70449	4.26042	-0.76171
N	1.95137	4.03524	3.11916	C	-1.33208	0.65162	3.54120	C	2.83164	3.64561	0.87706
Si	3.34280	3.22718	3.76850	H	-1.15054	1.25251	4.41964	H	2.13282	4.32409	1.36873
C	1.64246	0.88085	3.73691	C	-1.78688	-0.68986	3.52881	H	3.57172	4.26299	0.36648
C	1.27699	0.23099	2.52368	H	-2.00978	-1.29179	4.39690	H	3.35595	3.08298	1.65051
H	1.88585	0.18275	1.63246	C	-1.88740	-1.11110	2.18342	N	1.42475	-0.12094	-0.08424
C	-0.02648	-0.29634	2.68437	H	-2.19756	-2.08789	1.84511	B	0.03727	0.13318	-2.99870
H	-0.58995	-0.83382	1.93626	C	-2.67305	-0.03002	-0.73387	H	0.82139	1.00250	-3.29531
C	-0.46457	0.00374	3.99946	C	-3.29826	1.19881	-0.97949	H	0.47935	-0.95688	-3.31030
H	-1.41948	-0.26576	4.42564	C	-4.54794	1.19100	-1.58793	H	-1.08754	0.31408	-3.38943
C	0.56629	0.71768	4.65520	H	-5.05235	2.12925	-1.78408	<b>S5 (C<sub>1</sub>): E<sub>tot</sub> = -2980.63295189</b>			
H	0.54169	1.10300	5.66425	C	-5.15246	0.00621	-1.96368	C	1.41677	-0.70335	-1.17879
N	2.84091	1.57930	3.97649	H	-6.12409	0.01971	-2.43976	C	0.97108	-0.11509	-2.39614
H	3.56687	0.98601	4.35433	C	-4.50352	-1.19484	-1.74753	H	0.60904	0.89620	-2.51254
H	2.10633	5.01911	2.94664	H	-4.97354	-2.11515	-2.07122	C	1.03822	-1.09578	-3.41477
<b>S2 (C<sub>S</sub>): E<sub>tot</sub> = -2048.79719499</b>				C	-3.25729	-1.23936	-1.13234	H	0.75200	-0.95754	-4.44675
C	0.70771	3.69191	2.66465	C	-2.65761	2.52912	-0.64906	C	1.55941	-2.28404	-2.84599
C	0.20052	3.11129	1.46922	H	-1.66604	2.34481	-0.23355	H	1.73685	-3.21253	-3.36789
H	0.75720	2.96246	0.55444	C	-2.45176	3.36601	-1.91199	C	1.79250	-2.04873	-1.47243
C	-1.15865	2.76739	1.68524	H	-3.40000	3.64849	-2.37174	H	2.16920	-2.76939	-0.76359
H	-1.82268	2.32386	0.95849	H	-1.87087	2.81915	-2.65531	C	2.71249	0.21893	0.66038
C	-1.48796	3.10895	3.01948	H	-1.91626	4.28713	-1.67534	C	3.31742	1.44909	0.34525
H	-2.44871	2.97258	3.49309	C	-3.45720	3.28876	0.40819	C	4.56083	1.74342	0.89131
C	-0.34151	3.68513	3.62154	H	-2.95689	4.22242	0.67157	H	5.04730	2.67886	0.64440
H	-0.26706	4.05159	4.63512	H	-3.57301	2.69875	1.31771	C	5.18989	0.86438	1.75360
Fe	0.06564	1.76574	2.99815	H	-4.45558	3.54406	0.04908	H	6.15600	1.11223	2.17367
N	2.02756	4.10575	2.90582	C	-2.56759	-2.57868	-0.97913	C	4.57605	-0.32872	2.08041
Si	2.96088	3.21757	4.08318	H	-1.67484	-2.44308	-0.36488	H	5.07159	-1.00779	2.76376
C	1.76888	0.82618	3.66860	C	-2.10740	-3.09901	-2.34265	C	3.33999	-0.67664	1.54357
C	1.27493	0.20149	2.48997	H	-1.46265	-2.38169	-2.85056	C	2.67204	2.44784	-0.58968
H	1.80992	0.10414	1.55554	H	-2.95919	-3.29298	-2.99676	H	1.62868	2.15730	-0.72489
C	-0.03535	-0.27302	2.75538	H	-1.55584	-4.03460	-2.23228	C	2.66896	3.86309	-0.01417
H	-0.66717	-0.80820	2.06240	C	-3.44812	-3.60840	-0.27166	H	3.67568	4.26802	0.09807
C	-0.36501	0.07875	4.08686	H	-2.88704	-4.52603	-0.08822	H	2.18584	3.89425	0.96259
H	-1.29392	-0.14047	4.59184	H	-4.31854	-3.88012	-0.87030	H	2.12591	4.53916	-0.67589
C	0.74793	0.74939	4.65284	H	-3.81638	-3.23920	0.68638	C	3.34946	2.41506	-1.96050
H	0.81474	1.14370	5.65643	Fe	0.03229	-0.53608	2.54980	H	2.84929	3.09160	-2.65649
N	2.99545	1.49282	3.81813	N	-1.40113	-0.04704	-0.06030	H	3.32900	1.41421	-2.39102
H	3.73666	1.10501	3.25625	Si	0.00499	0.01814	-1.04018	H	4.39354	2.72620	-1.88982
H	2.49574	4.45897	2.08629	C	1.53598	-0.61553	1.23477	C	2.74185	-2.01075	1.93778
H	4.35648	3.71319	4.02293	C	1.21738	-1.93376	1.66350	H	1.79353	-2.13062	1.41100
H	2.35266	3.45601	5.41010	H	0.87225	-2.73739	1.02821	C	2.44446	-2.07115	3.43659
<b>S3 (C<sub>S</sub>): E<sub>tot</sub> = -2048.7412703</b>				C	1.39929	-1.99044	3.06621	H	1.78747	-1.25932	3.74628
C	0.73912	3.70136	2.42750	H	1.22405	-2.85212	3.69270	H	3.35777	-2.00413	4.03014
C	0.29780	3.17517	1.18581	C	1.86354	-0.72459	3.50147	H	1.95664	-3.01316	3.69321
H	0.88725	3.08216	0.28418	H	2.10076	-0.45201	4.51879	C	3.65319	-3.17131	1.53244
C	-1.05555	2.78799	1.34367	C	1.95359	0.12589	2.37533	H	3.15949	-4.12792	1.71232
H	-1.67942	2.35279	0.57776	H	2.27203	1.15753	2.37957	H	4.58082	-3.17274	2.10695
C	-1.44630	3.08400	2.67342	C	2.65667	0.30033	-0.69315	H	3.92893	-3.12389	0.47894
H	-2.42087	2.90934	3.10333	C	3.49456	-0.65345	-1.28375	Fe	-0.17824	-1.71859	-1.86988

N	1.43826	-0.09574	0.09517	C	2.61890	6.82464	0.51202	C	3.58768	1.63404	0.37562				
Si	0.04729	0.26894	1.08992	H	2.87434	5.86020	0.07120	C	3.69293	-1.84604	-1.22218				
C	-1.62219	-1.12984	-0.59014	C	3.56874	7.85017	-0.10560	H	2.85307	-2.20222	-0.62188				
C	-1.23903	-2.46637	-0.29328	H	4.60497	7.64455	0.16375	C	3.21982	-1.70004	-2.67158				
H	-0.81423	-2.81013	0.64020	H	3.33974	8.87039	0.20640	H	4.04103	-1.37810	-3.31398				
C	-1.47864	-3.25695	-1.44555	H	3.49477	7.82301	-1.19381	H	2.42507	-0.95890	-2.77829				
H	-1.28124	-4.31439	-1.53929	C	1.16587	7.12901	0.14429	H	2.84242	-2.64819	-3.05964				
C	-2.04213	-2.42236	-2.44109	H	1.03987	7.15840	-0.93947	C	4.76820	-2.92456	-1.12582				
H	-2.34567	-2.73076	-3.43019	H	0.85240	8.09664	0.54164	H	4.35048	-3.89220	-1.40640				
C	-2.12709	-1.10897	-1.91970	H	0.48942	6.37031	0.53776	H	5.15652	-3.01079	-0.11124				
H	-2.50394	-0.23786	-2.43445	Fe	1.12144	1.94087	1.46132	H	5.60878	-2.73581	-1.79541				
C	-2.58662	0.82027	0.45724	N	2.93817	4.29537	1.89606	C	2.60179	2.63279	0.93909				
C	-3.60438	0.36226	1.31027	Si	4.39837	3.56311	1.13771	H	1.63062	2.14269	1.01932				
C	-4.73144	1.15570	1.48828	C	2.82890	0.97018	1.99683	C	2.43653	3.80686	-0.02522				
H	-5.53242	0.81164	2.13093	C	2.28809	0.38598	0.82197	H	2.12877	3.46193	-1.01180				
C	-4.84606	2.38608	0.86674	H	2.76140	0.32212	-0.14356	H	3.36759	4.36643	-0.13859				
H	-5.72793	2.99376	1.02232	C	0.99342	-0.09209	1.13575	H	1.66962	4.49438	0.33448				
C	-3.82689	2.83735	0.05000	H	0.32563	-0.58819	0.44773	C	3.00121	3.13283	2.32679				
H	-3.92129	3.80447	-0.42933	C	0.72434	0.20451	2.49346	H	2.22299	3.78054	2.73367				
C	-2.68994	2.06806	-0.17609	H	-0.18184	-0.02905	3.03158	H	3.92486	3.71392	2.30468				
C	-3.51952	-0.97409	2.01561	C	1.86093	0.85644	3.03083	H	3.15176	2.31337	3.03036				
H	-2.49338	-1.33570	1.93842	H	1.96747	1.21364	4.04610	Fe	-0.27563	-0.70625	2.25199				
C	-3.83358	-0.86388	3.50710	C	5.23493	0.63846	2.12320	N	1.82150	-0.00353	0.00781				
H	-4.87246	-0.58791	3.69379	C	5.84323	0.27882	0.91197	Si	-0.92728	2.17900	-0.65503				
H	-3.20000	-0.12228	3.99418	C	6.92018	-0.60359	0.95912	C	-1.76403	0.42316	1.30457				
H	-3.66420	-1.82314	3.99847	H	7.40799	-0.88445	0.03448	C	-1.17182	1.15138	2.36996				
C	-4.42684	-2.00152	1.33721	C	7.38350	-1.12752	2.14657	H	-0.67723	2.10864	2.28969				
H	-4.33188	-2.97735	1.81680	H	8.22226	-1.81081	2.15329	C	-1.36376	0.41435	3.56773				
H	-4.17476	-2.12212	0.28386	C	6.76010	-0.77687	3.32753	H	-1.03463	0.71630	4.55101				
H	-5.47480	-1.70135	1.39915	H	7.11376	-1.20515	4.25603	C	-2.06495	-0.77005	3.24591				
C	-1.61904	2.60747	-1.09807	C	5.68338	0.10068	3.34439	H	-2.36388	-1.54340	3.93786				
H	-0.82699	1.86069	-1.16544	C	5.42250	0.75700	-0.46425	C	-2.29729	-0.77646	1.84707				
C	-1.00200	3.89312	-0.54946	H	4.56006	1.41743	-0.37273	H	-2.81718	-1.54235	1.29037				
H	-0.58146	3.74232	0.44440	C	6.51902	1.59501	-1.11882	C	-2.98785	0.28362	-0.74520				
H	-1.73873	4.69523	-0.48027	H	7.43405	1.02096	-1.27499	C	-4.27016	0.81348	-0.52414				
H	-0.19973	4.24260	-1.20168	H	6.76171	2.46546	-0.51058	C	-5.33571	0.30457	-1.25711				
C	-2.15197	2.83074	-2.51354	H	6.18397	1.95943	-2.09089	H	-6.33105	0.70159	-1.09730				
H	-1.34820	3.14800	-3.18049	C	5.03363	-0.41929	-1.36420	C	-5.14801	-0.69390	-2.19649				
H	-2.92077	3.60464	-2.53927	H	4.60937	-0.05222	-2.30017	H	-5.98805	-1.07126	-2.76490				
H	-2.58988	1.92292	-2.92832	H	4.29949	-1.07271	-0.89186	C	-3.88181	-1.20793	-2.40358				
N	-1.44432	-0.00224	0.23013	H	5.89448	-1.03770	-1.62302	H	-3.74256	-1.99197	-3.13821				
H	0.11066	-0.55443	2.32975	C	5.01907	0.35444	4.68652	C	-2.78712	-0.74235	-1.68020				
H	0.05758	1.69100	1.51150	H	4.35998	1.22546	4.63032	C	-4.52780	1.92144	0.47419				
<b>S6 (C<sub>1</sub>): E<sub>tot</sub> = -2980.56273133</b>															
C	1.68604	3.89813	1.41079	H	6.67708	1.50038	5.51552	C	-5.09235	3.16497	-0.21255				
C	1.37162	3.44727	0.09818	H	6.65272	-0.18305	6.03815	H	-6.06860	2.97697	-0.66286				
H	2.05435	3.42025	-0.73869	H	5.49871	0.95077	6.70730	H	-4.42349	3.51549	-0.99940				
C	0.02359	3.00746	0.09471	C	4.14470	-0.84090	5.07153	H	-5.21596	3.97550	0.50741				
H	-0.50696	2.60643	-0.75628	H	3.61754	-0.64890	6.00785	C	-5.43545	1.44277	1.60664				
C	-0.50759	3.20222	1.39178	H	4.75381	-1.73549	5.21040	H	-5.57378	2.23381	2.34523				
H	-1.51429	2.97381	1.70866	H	3.40325	-1.06059	4.30404	H	-5.00137	0.58295	2.11687				
C	0.51640	3.74564	2.20628	N	4.12268	1.57842	2.14762	H	-6.42373	1.15640	1.24200				
H	0.43228	4.00517	3.25153	H	4.12695	2.01444	3.06250	C	-1.42801	-1.35935	-1.92550				
C	2.94071	5.48896	2.67021	H	5.34209	3.95939	2.27067	H	-0.74478	-0.94540	-1.18185				
C	3.07742	5.44656	4.06565	<b>S7 (C<sub>1</sub>): E<sub>tot</sub> = -3035.85089421</b>											
C	3.05720	6.63760	4.78335	C	1.46563	-0.80430	1.10241	H	-0.80099	0.07190	-3.44038				
H	3.16871	6.61473	5.86114	C	0.76295	-2.03565	1.06191	H	-1.54191	-1.38554	-4.10161				
C	2.88500	7.85298	4.14891	H	0.39139	-2.52472	0.17350	H	0.09758	-1.44591	-3.46878				
H	2.86187	8.76993	4.72321	C	0.64592	-2.52509	2.38929	C	-1.45962	-2.87452	-1.72777				
C	2.74394	7.88760	2.77379	H	0.16736	-3.44773	2.68257	H	-0.46071	-3.29912	-1.84881				
H	2.60930	8.84281	2.28104	C	1.27806	-1.59777	3.24849	H	-2.10458	-3.36853	-2.45590				
C	2.78070	6.72393	2.01438	H	1.36334	-1.67856	4.32197	H	-1.82008	-3.13859	-0.73307				
C	3.25621	4.15083	4.81994	C	1.76534	-0.52522	2.45930	N	-1.88396	0.83294	-0.03498				
H	3.12928	3.34241	4.09706	H	2.29627	0.34039	2.82417	N	-1.66736	2.38246	-2.19547				
C	4.65919	4.06229	5.41853	C	3.19477	0.37777	-0.09794	H	1.45414	-0.37043	-0.85683				
H	4.79545	3.13225	5.97234	C	4.12800	-0.50210	-0.67394	H	-1.33374	3.10666	-2.80993				
H	4.84090	4.88208	6.11530	C	5.45133	-0.09512	-0.77711	H	-2.44019	1.86923	-2.59460				
H	5.42239	4.11390	4.64160	H	6.18655	-0.75255	-1.22222	<b>S8 (C<sub>1</sub>): E<sub>tot</sub> = -3035.82011005</b>							
C	2.19062	3.94944	5.89640	C	5.85487	1.14145	-0.30136	C	1.36807	-0.44270	1.50131				
H	1.18420	4.01130	5.48165	H	6.89238	1.43955	-0.37973	C	1.34701	-1.85605	1.65356				
H	2.26441	4.69487	6.68938	C	4.92986	1.99202	0.27011	H	1.27715	-2.58330	0.85713				
H	2.29942	2.96903	6.36547	H	5.25292	2.96108	0.63081	C	1.40917	-2.14234	3.03819				

H	1.40617	-3.12758	3.47941	H	-0.85462	-3.93274	-1.94105	H	2.62060	-2.12896	-3.42940		
C	1.47809	-0.91316	3.73702	H	-2.30280	-3.56649	-2.85996	H	2.89906	-3.73228	-2.74723		
H	1.53431	-0.79290	4.80830	H	-2.38740	-3.66838	-1.10690	C	4.02522	-2.91091	-0.34530		
C	1.44906	0.14041	2.79290	N	-1.62786	0.23025	0.20590	H	3.74464	-3.96572	-0.33812		
H	1.47131	1.19297	3.02554	N	-0.26668	2.32424	-1.42272	H	3.92816	-2.53027	0.67163		
C	2.60107	0.69264	-0.25947	H	0.95002	-0.42390	-0.43081	H	5.07903	-2.85224	-0.62399		
C	3.30969	-0.16119	-1.12295	H	-0.32652	2.23983	1.20624	C	2.08667	2.72537	-0.08978		
C	4.55422	0.25062	-1.58685	H	-0.52404	2.03899	-2.35108	H	1.30320	2.23025	0.48846		
H	5.11707	-0.39720	-2.24592	<b>S12 (C<sub>1</sub>): E<sub>tot</sub> = -3006.00793736</b>						C	1.40264	3.53854	-1.19048
C	5.09506	1.46516	-1.22022	C	-1.48429	-0.02660	1.35371	H	0.85060	2.90240	-1.88299		
H	6.06320	1.76873	-1.59555	C	-1.16537	1.07234	2.20005	H	2.13383	4.09425	-1.77998		
C	4.38654	2.28554	-0.36898	H	-0.82368	2.04428	1.87377	H	0.70449	4.26042	-0.76171		
H	4.80785	3.24124	-0.08525	C	-1.33208	0.65162	3.54120	C	2.83164	3.64561	0.87706		
C	3.13977	1.92459	0.13194	H	-1.15054	1.25251	4.41964	H	2.13282	4.32409	1.36873		
C	2.85103	-1.54156	-1.56102	C	-1.78688	-0.68986	3.52881	H	3.57172	4.26299	0.36648		
H	1.79884	-1.70069	-1.30366	H	-2.00978	-1.29179	4.39690	H	3.35595	3.08298	1.65051		
C	2.93759	-1.72575	-3.07637	C	-1.88740	-1.11110	2.18342	N	1.42475	-0.12094	-0.08424		
H	3.96898	-1.72500	-3.42889	H	-2.19756	-2.08789	1.84511	B	0.03727	0.13318	-2.99870		
H	2.40291	-0.93938	-3.60728	C	-2.67305	-0.03002	-0.73387	H	0.82139	1.00250	-3.29531		
H	2.50546	-2.68502	-3.36492	C	-3.29826	1.19881	-0.97949	H	0.47935	-0.95688	-3.31030		
C	3.65914	-2.62324	-0.84036	C	-4.54794	1.19100	-1.58793	H	-1.08754	0.31408	-3.38943		
H	3.28492	-3.61806	-1.08924	H	-5.05235	2.12925	-1.78408	<b>S14 (C<sub>1</sub>): E<sub>tot</sub> = -3005.98879087</b>					
H	3.62170	-2.50404	0.24177	C	-5.15246	0.00621	-1.96368	C	1.39555	-0.77867	-1.12591		
H	4.70816	-2.58233	-1.13701	H	-6.12409	0.01971	-2.43976	C	1.01354	-0.22387	-2.38072		
C	2.47423	2.91551	1.06110	C	-4.50352	-1.19484	-1.74753	H	0.70173	0.79676	-2.54913		
H	1.54640	2.49014	1.43014	H	-4.97354	-2.11515	-2.07122	C	1.07421	-1.24557	-3.35834		
C	2.09765	4.19746	0.31812	C	-3.25729	-1.23936	-1.13234	H	0.82966	-1.13732	-4.40454		
H	1.43844	3.97571	-0.52158	C	-2.65761	2.52912	-0.64906	C	1.52310	-2.43120	-2.72535		
H	2.98161	4.71708	-0.05670	H	-1.66604	2.34481	-0.23355	H	1.67607	-3.38705	-3.20389		
H	1.57619	4.88132	0.99039	C	-2.45176	3.36601	-1.91199	C	1.72034	-2.15004	-1.35490		
C	3.34518	3.20687	2.28454	H	-3.40000	3.64849	-2.37174	H	2.04261	-2.85794	-0.60743		
H	2.80314	3.84073	2.98837	H	-1.87087	2.81915	-2.65531	C	2.70386	0.18004	0.67588		
H	4.26175	3.73544	2.01940	H	-1.91626	4.28713	-1.67534	C	3.36731	1.36590	0.30689		
H	3.63375	2.29192	2.80398	C	-3.45720	3.28876	0.40819	C	4.61173	1.64107	0.85923		
Fe	-0.24083	-0.99429	2.59664	H	-2.95689	4.22242	0.67157	H	5.13771	2.54323	0.57344		
N	1.29402	0.25630	0.24283	H	-3.57301	2.69875	1.31771	C	5.19402	0.78659	1.77736		
Si	-0.44373	1.50243	-0.06650	H	-4.45558	3.54406	0.04908	H	6.16072	1.02132	2.20353		
C	-1.80129	-0.36243	1.46902	C	-2.56759	-2.57868	-0.97913	C	4.53350	-0.36767	2.14498		
C	-1.82462	0.29517	2.73280	H	-1.67484	-2.44308	-0.36488	H	4.99519	-1.03375	2.86388		
H	-1.75142	1.36044	2.89335	C	-2.10740	-3.09901	-2.34265	C	3.29435	-0.69820	1.60211		
C	-1.91954	-0.69112	3.74352	H	-1.46265	-2.38169	-2.85056	C	2.78751	2.33211	-0.70142		
H	-1.94675	-0.50591	4.80715	H	-2.95919	-3.29298	-2.99676	H	1.72639	2.09916	-0.81268		
C	-1.98816	-1.95850	3.11611	H	-1.55584	-4.03460	-2.23228	C	2.89027	3.78804	-0.24973		
H	-2.07580	-2.91132	3.61659	C	-3.44812	-3.60840	-0.27166	H	3.92432	4.13017	-0.19043		
C	-1.91317	-1.76053	1.71726	H	-2.88704	-4.52603	-0.08822	H	2.43246	3.94052	0.72751		
H	-1.94020	-2.53552	0.96549	H	-4.31854	-3.88012	-0.87030	H	2.38442	4.44163	-0.96208		
C	-2.70447	0.05490	-0.71567	H	-3.81638	-3.23920	0.68638	C	3.46166	2.14870	-2.06298		
C	-3.81367	0.91169	-0.65349	Fe	0.03229	-0.53608	2.54980	H	2.99974	2.79121	-2.81561		
C	-4.86445	0.70675	-1.54044	N	-1.40113	-0.04704	-0.06030	H	3.39235	1.11914	-2.41155		
H	-5.72702	1.36132	-1.50582	Si	0.00499	0.01814	-1.04018	H	4.52024	2.41074	-2.00997		
C	-4.82539	-0.31145	-2.47464	C	1.53598	-0.61553	1.23477	C	2.66761	-2.00859	2.03251		
H	-5.65238	-0.45564	-3.15768	C	1.21738	-1.93376	1.66350	H	1.72259	-2.13195	1.50211		
C	-3.71855	-1.13686	-2.54047	H	0.87225	-2.73739	1.02821	C	2.35589	-2.01994	3.52930		
H	-3.68788	-1.92017	-3.28797	C	1.39929	-1.99044	3.06621	H	1.70936	-1.18906	3.80945		
C	-2.64737	-0.96982	-1.66916	H	1.22405	-2.85212	3.69270	H	3.26448	-1.95009	4.12969		
C	-3.89287	2.07387	0.31208	C	1.86354	-0.72459	3.50147	H	1.84927	-2.94522	3.80910		
H	-3.01160	2.05386	0.95302	H	2.10076	-0.45201	4.51879	C	3.56286	-3.19597	1.66980		
C	-3.86021	3.40322	-0.44272	C	1.95359	0.12589	2.37533	H	3.05038	-4.13810	1.87270		
H	-4.71690	3.50944	-1.11084	H	2.27203	1.15753	2.37957	H	4.48562	-3.19762	2.25200		
H	-2.94909	3.48475	-1.03631	C	2.65667	0.30033	-0.69315	H	3.84732	-3.18337	0.61760		
H	-3.88323	4.24070	0.25704	C	3.49456	-0.65345	-1.28375	Fe	-0.22035	-1.75414	-1.83840		
C	-5.10922	1.96624	1.22983	C	4.68934	-0.21912	-1.84558	N	1.41921	-0.10575	0.11620		
H	-5.11393	2.78333	1.95313	H	5.35730	-0.93828	-2.30290	Si	0.01687	0.19312	1.13957		
H	-5.10258	1.02710	1.78375	C	5.03508	1.11938	-1.84492	C	-1.67258	-1.09544	-0.60345		
H	-6.04701	2.01980	0.67420	H	5.96541	1.43917	-2.29569	C	-1.36805	-2.45094	-0.29999		
C	-1.42802	-1.84860	-1.82817	C	4.18650	2.04995	-1.27507	H	-0.99030	-2.81815	0.64434		
H	-0.80872	-1.72720	-0.93503	H	4.46220	3.09700	-1.29220	C	-1.61106	-3.22437	-1.46304		
C	-0.61350	-1.38104	-3.03417	C	2.98921	1.66250	-0.68398	H	-1.46522	-4.29028	-1.55560		
H	-0.26443	-0.35510	-2.90030	C	3.15053	-2.12540	-1.32309	C	-2.09702	-2.35898	-2.47324		
H	-1.21356	-1.40638	-3.94514	H	2.11299	-2.24275	-1.00723	H	-2.38236	-2.64869	-3.47338		
H	0.25482	-2.02057	-3.19568	C	3.24214	-2.69653	-2.73730	C	-2.13144	-1.04437	-1.94882		
C	-1.76686	-3.33350	-1.93901	H	4.26438	-2.69326	-3.11853	H	-2.44591	-0.15300	-2.47166		

C	-2.57707	0.88934	0.41185	H	0.83957	4.91705	-0.70663	C	3.59112	2.97409	-0.56199
C	-3.63718	0.48689	1.23995	Fe	1.34289	1.24703	2.26971	H	3.64368	3.81610	-1.24165
C	-4.72934	1.33424	1.38248	N	2.70551	3.93621	2.20615	C	2.54454	2.06261	-0.67455
H	-5.56121	1.03459	2.00804	Si	4.41171	3.50545	2.44320	C	3.49729	-0.36633	2.14811
C	-4.77012	2.56379	0.74946	C	3.15726	0.77607	3.02047	H	2.49423	-0.79482	2.16926
H	-5.62529	3.21415	0.87927	C	2.77433	-0.19412	2.05295	C	4.46085	-1.44131	1.63864
C	-3.71127	2.95877	-0.04564	H	3.31999	-0.44966	1.15853	H	4.21267	-1.76453	0.62793
H	-3.74726	3.92521	-0.53436	C	1.56793	-0.79306	2.48545	H	4.43377	-2.31929	2.28632
C	-2.60884	2.13189	-0.23637	H	1.02658	-1.56597	1.96106	H	5.48709	-1.06862	1.62785
C	-3.62825	-0.84282	1.96190	C	1.20164	-0.20082	3.71656	C	3.83260	0.02551	3.58566
H	-2.61946	-1.25337	1.90476	H	0.32646	-0.43646	4.30339	H	4.86438	0.36350	3.69489
C	-3.95895	-0.69669	3.44665	C	2.18426	0.76179	4.05618	H	3.71102	-0.83764	4.24144
H	-4.98615	-0.36878	3.61330	H	2.17758	1.38567	4.93517	H	3.17171	0.81339	3.94459
H	-3.29798	0.02148	3.93269	C	5.44503	0.75870	2.36321	C	1.53149	2.26402	-1.78199
H	-3.84245	-1.65551	3.95401	C	5.81472	0.92173	1.01790	H	0.78970	1.46632	-1.70986
C	-4.57266	-1.83446	1.28128	C	6.89982	0.18933	0.53829	C	0.80212	3.60163	-1.66134
H	-4.53231	-2.80732	1.77440	H	7.21523	0.32654	-0.48830	H	0.27887	3.70840	-0.71088
H	-4.30838	-1.98049	0.23405	C	7.57234	-0.71598	1.32916	H	0.05922	3.70541	-2.45354
H	-5.60616	-1.48448	1.32115	H	8.41463	-1.26875	0.93475	H	1.48874	4.44482	-1.74671
C	-1.47730	2.60843	-1.11785	C	7.13286	-0.93406	2.61994	C	2.18929	2.16749	-3.16027
H	-0.76902	1.78605	-1.22725	H	7.62615	-1.68238	3.22724	H	2.88072	2.99403	-3.33102
C	-0.74017	3.77898	-0.47220	C	6.06600	-0.22420	3.15539	H	1.43649	2.20282	-3.94974
H	-0.32351	3.51547	0.50634	C	5.10015	1.78418	-0.00710	H	2.75699	1.24578	-3.27987
H	-1.40037	4.63206	-0.30858	H	4.23398	2.26413	0.45656	C	-2.75305	0.23681	0.43350
H	0.09306	4.11213	-1.09165	C	6.00469	2.88118	-0.56588	C	-3.41087	-0.44418	1.47331
C	-1.95370	2.98319	-2.52067	H	6.83704	2.45782	-1.12972	C	-4.65836	0.01464	1.88607
H	-1.10482	3.23682	-3.15807	H	6.41431	3.50279	0.22834	H	-5.17115	-0.49420	2.69285
H	-2.62115	3.84615	-2.51095	H	5.44662	3.52771	-1.24470	C	-5.26048	1.10210	1.28663
H	-2.49054	2.15998	-2.99239	C	4.52630	0.94103	-1.14964	H	-6.23405	1.43768	1.61879
N	-1.46500	0.01974	0.22601	H	3.97257	1.57778	-1.84229	C	-4.61035	1.76150	0.26065
B	0.05836	1.96243	2.09173	H	3.84368	0.17197	-0.79007	H	-5.09147	2.61126	-0.20672
H	-0.91562	2.36154	2.65202	H	5.30981	0.44475	-1.72291	C	-3.35411	1.35574	-0.17444
H	1.06321	2.58868	2.23001	C	5.60114	-0.62688	4.54211	C	-2.84792	-1.66564	2.16985
H	0.01059	-0.82341	2.24567	H	4.80561	0.03424	4.87253	H	-1.88851	-1.91474	1.71615
<b>S11 (C<sub>1</sub>): E<sub>tot</sub> = -3005.97389598</b>											
C	1.57611	3.18295	1.83317	H	7.13016	0.48772	5.60870	H	-4.71937	-2.73905	2.50417
C	1.40698	2.44321	0.62573	H	7.53402	-1.21470	5.38443	H	-3.30275	-3.77228	2.40145
H	2.12140	2.37266	-0.18143	H	6.32739	-0.74960	6.57327	H	-3.99247	-3.06100	0.93787
C	0.15308	1.78929	0.67893	C	5.00275	-2.03477	4.50531	C	-2.59175	-1.39833	3.65335
H	-0.25424	1.13744	-0.07951	H	4.62508	-2.30979	5.49140	H	-1.93255	-0.54319	3.80263
C	-0.47714	2.14849	1.89571	H	5.74024	-2.78445	4.21304	H	-2.12733	-2.26764	4.12195
H	-1.44721	1.81239	2.23048	H	4.17034	-2.08986	3.80329	H	-3.52044	-1.19633	4.18983
C	0.39080	3.01083	2.60428	N	4.37120	1.55866	2.96277	C	-2.70135	2.11388	-1.31021
H	0.20338	3.44081	3.57644	B	4.77158	2.26942	4.34919	H	-1.65081	1.81806	-1.35586
C	2.50532	5.35741	2.23172	H	5.96019	2.34906	4.46569	C	-3.35219	1.74174	-2.64379
C	2.23226	6.00015	3.45082	H	4.37120	3.47229	4.20235	H	-3.32578	0.66647	-2.81614
C	2.03291	7.37712	3.45036	H	4.16787	1.91152	5.31564	H	-2.84102	2.23045	-3.47578
H	1.82575	7.88737	4.38321	<b>S9 (C<sub>1</sub>): E<sub>tot</sub> = -3062.49810415</b>				H	-4.39730	2.05578	-2.66772
C	2.09106	8.10829	2.27990	C	1.69363	-1.20671	-0.46659	C	-2.74310	3.62761	-1.10055
H	1.92525	9.17759	2.29746	C	1.43696	-2.48816	0.09730	H	-3.76044	4.01935	-1.12089
C	2.37016	7.46822	1.08657	H	1.08317	-2.68177	1.10036	H	-2.19155	4.13682	-1.89115
H	2.42153	8.05038	0.17463	C	1.70877	-3.46372	-0.89310	H	-2.30167	3.92279	-0.14707
C	2.59286	6.09721	1.03944	H	1.60183	-4.53148	-0.77393	H	0.46540	2.48753	1.08051
C	2.15651	5.26201	4.77067	C	2.16834	-2.79580	-2.05303	H	-1.13485	2.28055	1.34086
H	2.25338	4.19309	4.57236	H	2.46891	-3.26408	-2.97820	Fe	0.26872	-2.14305	-1.54967
C	3.30845	5.66804	5.69153	C	2.15430	-1.40395	-1.79663	N	1.42498	0.03904	0.13721
H	3.29971	5.07242	6.60565	H	2.43893	-0.62674	-2.48819	N	-1.45489	-0.17941	-0.00826
H	3.23633	6.71864	5.97873	C	-1.39546	-1.09925	-1.08333	H	0.07550	3.21243	3.42443
H	4.27706	5.52585	5.21227	C	-1.67096	-2.49884	-1.02109	H	1.10712	1.48073	3.39433
C	0.81441	5.48192	5.47070	H	-1.98955	-3.04567	-0.14742	H	-0.87364	1.45612	3.72017
H	-0.02793	5.24305	4.82082	C	-1.43406	-3.05212	-2.29863	Si	-0.07658	0.17606	0.99934
H	0.68888	6.51691	5.79229	H	-1.54520	-4.09183	-2.56802	H	-0.07721	-0.64948	2.22049
H	0.74252	4.85622	6.36180	C	-1.01105	-2.00984	-3.16028	B	0.04698	2.02871	3.18102
C	2.90758	5.45835	-0.29490	H	-0.74675	-2.11501	-4.20193	N	-0.21698	1.89233	1.54407
H	3.20894	4.42549	-0.11504	C	-1.00261	-0.80450	-2.41929	<b>S10 (C<sub>1</sub>): E<sub>tot</sub> = -3062.40913285</b>			
C	4.08137	6.14371	-0.99288	H	-0.71866	0.16882	-2.79219	C	1.50360	3.76727	1.66527
H	4.96873	6.14699	-0.35985	C	2.49447	0.98287	0.22215	C	1.12983	3.49085	0.31787
H	3.85669	7.17698	-1.26095	C	3.48979	0.81367	1.20090	H	1.77866	3.59077	-0.53994
H	4.33044	5.62110	-1.91823	C	4.52333	1.73986	1.26041	C	-0.19683	2.99443	0.31570
C	1.66869	5.43275	-1.19059	H	5.30045	1.62546	2.00487	H	-0.75495	2.68677	-0.55646
H	1.88126	4.92086	-2.13126	C	4.57453	2.81697	0.39410	C	-0.66476	2.98000	1.65154
H	1.33631	6.44366	-1.43414	H	5.38294	3.53275	0.46503	H	-1.64255	2.66146	1.98142

C	0.38036	3.45108	2.48395	N	4.04011	1.53452	2.07765	C	2.63200	1.93676	3.87186
H	0.33816	3.53746	3.55823	H	3.97899	1.94995	3.00182	H	2.01409	1.11258	4.21715
C	2.88686	5.33075	2.86006	B	5.81586	3.90170	2.46464	H	2.17730	2.86216	4.22836
C	2.99688	5.32958	4.26574	H	6.84300	3.48754	1.96757	H	3.61512	1.86130	4.34043
C	3.23380	6.53113	4.93020	H	5.68764	3.43363	3.58196	C	2.75345	-1.84492	-1.10279
H	3.33059	6.53328	6.00962	N	6.05312	5.50396	2.70128	H	1.70385	-1.56645	-1.22357
C	3.32307	7.72994	4.24539	H	6.93914	5.67548	3.16353	C	3.48903	-1.37639	-2.36043
H	3.50281	8.65336	4.78062	H	5.31671	5.90130	3.27981	H	3.43120	-0.29506	-2.47402
C	3.15370	7.73791	2.87195	H	6.05650	6.02396	1.82963	H	3.06205	-1.83344	-3.25563
H	3.19204	8.68193	2.34188	<b>S13 (C<sub>1</sub>): E<sub>tot</sub> = -3062.47254885</b>				H	4.54421	-1.65194	-2.31675
C	2.93813	6.55975	2.16339	C	-1.76620	1.21874	-0.43136	C	2.82807	-3.36870	-0.99031
C	2.79655	4.08303	5.09780	C	-1.53889	2.47089	0.20695	H	3.85666	-3.72974	-0.98924
H	2.67488	3.24625	4.40570	H	-1.19119	2.60811	1.22317	H	2.33059	-3.83879	-1.83929
C	3.97843	3.78186	6.01584	C	-1.82109	3.49784	-0.72722	H	2.36131	-3.74807	-0.07851
H	3.80067	2.86192	6.57630	H	-1.73073	4.55851	-0.54652	H	0.94199	-2.27625	1.83112
H	4.13168	4.57519	6.74996	C	-2.26377	2.89076	-1.92669	H	-0.64630	-2.52168	1.51159
H	4.90101	3.65961	5.45106	H	-2.56808	3.40669	-2.82493	Fe	-0.35767	2.23438	-1.44231
C	1.51918	4.20220	5.93500	C	-2.22769	1.48650	-1.74986	N	-1.45971	-0.04922	0.09815
H	0.65733	4.49218	5.33520	H	-2.49722	0.74796	-2.48745	N	1.35719	0.36222	0.20820
H	1.63017	4.95564	6.71701	C	1.30928	1.24165	-0.90053	Si	-0.04384	-0.13997	1.16582
H	1.28863	3.25457	6.42530	C	1.54610	2.65048	-0.86647	N	0.20346	-2.08866	1.15614
C	2.71847	6.64151	0.66611	H	1.80439	3.22710	0.00667	H	0.75871	-0.48110	3.60938
H	2.80470	5.63895	0.24651	C	1.34161	3.16926	-2.16436	H	-0.44934	1.13535	3.52091
C	3.76311	7.49541	-0.04920	H	1.43608	4.20521	-2.45390	H	-1.19254	-0.71878	3.31379
H	4.77530	7.12717	0.13198	C	0.97029	2.09788	-3.01351	H	0.44857	-2.52362	0.27256
H	3.73061	8.54485	0.24781	H	0.73691	2.17149	-4.06527	B	-0.23612	0.01692	3.11341
H	3.60072	7.46061	-1.12700	C	0.96606	0.90996	-2.24319	<b>NH<sub>3</sub> (C<sub>3v</sub>): E<sub>tot</sub> = -56.42815156</b>			
C	1.30399	7.14495	0.37466	H	0.70857	-0.07442	-2.60645	N	0.01434	0.02491	1.03017
H	1.11447	7.16348	-0.69997	C	-2.51594	-1.00719	0.14418	H	-0.94389	-0.01349	1.34546
H	1.15484	8.15644	0.75856	C	-3.58444	-0.84553	1.04880	H	0.46024	-0.82416	1.34538
H	0.55662	6.49769	0.83292	C	-4.59502	-1.80078	1.06346	H	-0.00775	-0.01354	0.02163
Fe	1.01906	1.80322	1.46748	H	-5.42397	-1.68608	1.74989	<b>H<sub>2</sub>O (C<sub>2v</sub>): E<sub>tot</sub> = -76.25805141</b>			
N	2.77919	4.12124	2.13305	C	-4.56442	-2.89958	0.22510	O	0.00000	0.05858	0.05858
Si	4.23942	3.50739	1.17547	H	-5.35928	-3.63321	0.25924	H	0.00000	-0.06632	1.00773
C	2.78805	0.86872	1.83316	C	-3.51736	-3.04937	-0.66298	H	0.00000	1.00773	-0.06632
C	2.27136	0.45518	0.57828	H	-3.50984	-3.90222	-1.33103	<b>BH<sub>3</sub>NH<sub>3</sub> (C<sub>3v</sub>): E<sub>tot</sub> = -83.0248408</b>			
H	2.73349	0.59971	-0.38433	C	-2.48908	-2.11333	-0.72842	N	0.67105	-0.21527	0.65169
C	1.01371	-0.15146	0.80966	C	-3.70378	0.35742	1.95956	H	0.66987	-0.74876	1.51318
H	0.36870	-0.56703	0.05019	H	-2.72341	0.82264	2.05001	H	0.02841	0.56045	0.76152
C	0.74347	-0.10359	2.19892	C	-4.67018	1.37797	1.35280	H	0.31962	-0.81205	-0.08799
H	-0.13996	-0.48144	2.69106	H	-4.36466	1.68398	0.35273	B	2.19787	0.32879	0.29688
C	1.84361	0.52086	2.83565	H	-4.71751	2.27377	1.97413	H	2.51810	1.02286	1.23338
H	1.94130	0.71150	3.89538	H	-5.67981	0.96712	1.28390	H	2.08799	0.94583	-0.73678
C	5.17948	0.62605	2.08603	C	-4.12992	-0.00910	3.37939	H	2.87687	-0.66537	0.18759
C	5.81501	0.27520	0.88700	H	-5.15401	-0.38388	3.42771	<b>BH<sub>2</sub>NH<sub>2</sub> (C<sub>2v</sub>): E<sub>tot</sub> = -81.84862721</b>			
C	6.87077	-0.62975	0.94450	H	-4.08187	0.87547	4.01498	N	3.36822	0.35251	7.51437
H	7.37260	-0.90838	0.02654	H	-3.46514	-0.75554	3.81143	B	2.12712	0.07720	8.07042
C	7.30059	-1.17308	2.13681	C	-1.42171	-2.30194	-1.78810	H	3.58645	1.22047	7.05820
H	8.12206	-1.87705	2.15429	H	-0.63817	-1.56175	-1.61074	H	4.13443	-0.29692	7.52913
C	6.67508	-0.80127	3.30926	C	-0.79875	-3.70066	-1.76882	H	1.26416	0.90113	8.01327
H	7.01587	-1.22539	4.24517	H	-0.45073	-4.01036	-0.78163	H	1.94259	-0.97900	8.59690
C	5.61501	0.09791	3.31328	H	0.05083	-3.75000	-2.45112	<b>H<sub>2</sub> (D<sub>∞h</sub>): E<sub>tot</sub> = -1.16803293</b>			
C	5.46375	0.82771	-0.47885	H	-1.51018	-4.46144	-2.09209	H	0.00000	0.00000	0.00000
H	4.60982	1.50158	-0.39085	C	-1.98601	-2.04371	-3.18717	H	0.00000	0.00000	0.74000
C	6.60260	1.69089	-1.02054	H	-2.75630	-2.77430	-3.43950	<b>TS1 (C<sub>1</sub>): E<sub>tot</sub> = -3092.27494143</b>			
H	7.51354	1.11132	-1.18297	H	-1.20058	-2.11532	-3.94198	C	-0.75816	1.16408	1.24339
H	6.83500	2.50184	-0.33096	H	-2.43708	-1.05774	-3.26939	C	0.44696	1.59319	1.87408
H	6.31442	2.13724	-1.97351	C	2.65043	-0.01684	0.69517	H	1.37062	1.83455	1.36812
C	5.10104	-0.28433	-1.46409	C	3.26531	0.67645	1.75586	C	0.25216	1.58740	3.27642
H	4.74334	0.14522	-2.40147	C	4.48490	0.21040	2.23991	H	0.99072	1.84695	4.02038
H	4.32114	-0.93725	-1.07087	H	4.96169	0.73131	3.06054	C	-1.08363	1.19077	3.53047
H	5.95922	-0.91360	-1.70667	C	5.10980	-0.89152	1.69261	H	-1.54257	1.09198	4.50303
C	4.99761	0.41680	4.66308	H	6.05880	-1.23220	2.08565	C	-1.70658	0.92909	2.28820
H	4.27047	1.22819	4.57188	C	4.52198	-1.54491	0.62648	H	-2.71802	0.57755	2.15933
C	6.04674	0.91503	5.65633	H	5.03130	-2.39050	0.18151	C	-1.70662	1.92780	-0.84636
H	6.57920	1.77848	5.25866	C	3.29792	-1.12829	0.11573	C	-1.05409	3.04494	-1.41416
H	6.78190	0.14584	5.89437	C	2.72678	1.96203	2.34719	C	-1.77662	3.92013	-2.22127
H	5.57309	1.20898	6.59377	H	1.71681	2.12311	1.96733	H	-1.28332	4.78230	-2.65236
C	4.24420	-0.79415	5.21548	C	3.61514	3.13249	1.90765	C	-3.12219	3.71945	-2.47856
H	3.74388	-0.54321	6.15277	H	4.59564	3.07526	2.38408	H	-3.66732	4.40942	-3.11014
H	4.92579	-1.62162	5.41806	H	3.16823	4.08536	2.19827	C	-3.76790	2.64626	-1.89419
H	3.49255	-1.15379	4.51308	H	3.78380	3.14696	0.83119	H	-4.82778	2.50891	-2.07212

C	-3.08815	1.75072	-1.07166	C	1.55827	-0.94340	0.86179	H	-1.85276	-1.11874	-3.73734
C	0.40113	3.35465	-1.14255	C	1.32871	-2.34647	0.78580	H	-3.32994	-2.01848	-4.04244
H	0.87406	2.44679	-0.76769	H	1.03593	-2.89369	-0.09900	H	-1.82696	-2.88452	-3.73264
C	1.16834	3.76472	-2.39718	C	1.50959	-2.88766	2.08209	C	-3.54045	-3.25171	-1.58205
H	0.80527	4.69964	-2.82686	H	1.38978	-3.92539	2.35534	H	-2.97909	-4.16418	-1.79129
H	1.11630	2.99107	-3.16433	C	1.87712	-1.83283	2.95263	H	-4.46853	-3.30667	-2.15336
H	2.22168	3.91451	-2.16048	H	2.08799	-1.92320	4.00761	H	-3.81211	-3.25596	-0.52616
C	0.50861	4.43564	-0.06483	C	1.91450	-0.63334	2.20213	N	-1.48814	-0.02993	-0.14855
H	1.55348	4.62305	0.19090	H	2.16964	0.34474	2.57944	O	0.46619	-1.01443	-2.09934
H	-0.01168	4.14238	0.84616	C	2.61705	0.85027	-0.29241	H	1.29852	-0.75764	-1.33345
H	0.07708	5.37799	-0.40872	C	3.82094	0.35256	-0.82263	H	0.69684	-0.82624	-3.01491
C	-3.89540	0.65571	-0.40995	C	4.92156	1.19796	-0.89063	<b>TS3 (C<sub>1</sub>): E<sub>tot</sub> = -3208.20655532</b>			
H	-3.19611	-0.00511	0.10361	H	5.85565	0.82608	-1.29319	C	1.43046	-0.35931	1.40143
C	-4.69428	-0.18663	-1.40458	C	4.85096	2.50557	-0.44941	C	1.54811	-1.73649	1.73056
H	-4.04773	-0.62898	-2.16096	H	5.71616	3.15197	-0.51571	H	1.63390	-2.55647	1.03254
H	-5.46322	0.39851	-1.91197	C	3.67003	2.97561	0.08830	C	1.50580	-1.84166	3.14022
H	-5.20613	-0.99970	-0.88630	H	3.62383	3.99697	0.44581	H	1.56450	-2.75945	3.70536
C	-4.83724	1.26226	0.63423	C	2.54276	2.16524	0.19229	C	1.37400	-0.53763	3.67622
H	-5.34106	0.47873	1.20397	C	4.00105	-1.08257	-1.27866	H	1.31001	-0.28428	4.72355
H	-5.61029	1.87072	0.16097	H	3.03752	-1.59038	-1.28957	C	1.32399	0.38559	2.60553
H	-4.30489	1.90408	1.33545	C	4.55575	-1.17356	-2.70004	H	1.19749	1.45292	2.69614
Fe	-0.08570	-0.28062	2.46938	H	5.57059	-0.78105	-2.77427	C	2.71481	0.53159	-0.46495
N	-0.96150	0.94616	-0.13407	H	3.93804	-0.61794	-3.40668	C	3.37947	-0.39355	-1.28791
Si	-0.07429	-0.19174	-1.25751	H	4.58861	-2.21375	-3.02734	C	4.66226	-0.08137	-1.72303
C	0.64882	-1.59103	1.12346	C	4.87675	-1.85019	-0.28732	H	5.19543	-0.78269	-2.35135
C	-0.59416	-2.06349	1.63145	H	4.97654	-2.89380	-0.59028	C	5.27677	1.10127	-1.36829
H	-1.48783	-2.24002	1.05040	H	4.44392	-1.83215	0.71287	H	6.27676	1.32328	-1.71602
C	-0.47203	-2.21875	3.03614	H	5.87950	-1.42328	-0.22837	C	4.59903	1.99882	-0.57232
H	-1.25013	-2.55219	3.70681	C	1.31228	2.76254	0.84370	H	5.07609	2.93235	-0.30501
C	0.85293	-1.87656	3.40062	H	0.53807	1.99397	0.91111	C	3.31297	1.74535	-0.10403
H	1.26261	-1.89957	4.39936	C	0.75638	3.92164	0.01827	C	2.83267	-1.73929	-1.73537
C	1.54363	-1.48719	2.22785	H	0.48689	3.59649	-0.98573	H	1.77922	-1.85515	-1.45554
H	2.57091	-1.15886	2.17052	H	1.48323	4.73090	-0.06888	C	2.86964	-1.87958	-3.25744
C	2.09703	-1.83660	-0.75098	H	-0.13636	4.33444	0.48915	H	3.89107	-1.88405	-3.63777
C	2.04250	-3.19635	-1.10835	C	1.59180	3.22078	2.27672	H	2.33392	-1.06681	-3.74471
C	3.18068	-3.80756	-1.62072	H	0.67025	3.56701	2.74792	H	2.41096	-2.82109	-3.56169
H	3.15154	-4.85803	-1.88522	H	2.30181	4.04833	2.30711	C	3.59914	-2.88447	-1.06951
C	4.35267	-3.09726	-1.80719	H	1.99882	2.41977	2.89316	H	3.14665	-3.84662	-1.31495
H	5.22886	-3.58617	-2.21317	Fe	0.04487	-1.44431	2.07991	H	3.62549	-2.78301	0.01497
C	4.39519	-1.75822	-1.46904	N	1.48107	-0.03337	-0.23229	H	4.63355	-2.91167	-1.41417
H	5.31586	-1.20526	-1.61510	Si	-0.16419	0.59818	-1.15142	C	2.68973	2.81987	0.76013
C	3.28660	-1.11205	-0.93075	C	-1.51803	-0.60787	1.13940	H	1.66086	2.55592	0.99500
C	0.78569	-4.02117	-0.93285	C	-1.28246	0.06743	2.37315	C	2.61982	4.16065	0.02954
H	-0.03143	-3.34295	-0.69040	H	-1.02567	1.11134	2.48301	H	2.12511	4.07046	-0.93515
C	0.39095	-4.74896	-2.21799	C	-1.40152	-0.87182	3.42528	H	3.61318	4.58350	-0.13179
H	1.11756	-5.51088	-2.50398	H	-1.26096	-0.66799	4.47643	H	2.03963	4.86729	0.62061
H	0.30030	-4.05624	-3.05663	C	-1.74142	-2.12457	2.85709	C	3.44842	2.96240	2.08142
H	-0.56889	-5.25315	-2.09084	H	-1.90103	-3.04470	3.39942	H	2.93350	3.66983	2.73308
C	0.93284	-5.00042	0.23157	C	-1.81878	-1.96540	1.45439	H	4.45799	3.34445	1.92060
H	0.00957	-5.56222	0.38636	H	-2.03701	-2.74517	0.74116	H	3.53913	2.01308	2.60998
H	1.16327	-4.47614	1.15865	C	-2.79472	0.22057	-0.69614	Fe	-0.20441	-0.94379	2.41242
H	1.73230	-5.72027	0.04442	C	-3.47251	1.41297	-0.38609	N	1.38706	0.16429	0.05359
C	3.41220	0.34640	-0.55428	C	-4.75296	1.60924	-0.89151	Si	-0.24655	1.32805	-0.28816
H	2.46848	0.65180	-0.10108	H	-5.28874	2.51871	-0.64830	C	-1.70357	-0.49886	1.13486
C	3.63606	1.21425	-1.79022	C	-5.35778	0.66897	-1.70305	C	-1.89254	0.19897	2.36389
H	2.80918	1.09961	-2.49082	H	-6.35477	0.84054	-2.08762	H	-1.91084	1.27263	2.48590
H	4.56119	0.94968	-2.30607	C	-4.67556	-0.48739	-2.02578	C	-1.99518	-0.75743	3.40171
H	3.70524	2.26854	-1.51515	H	-5.14770	-1.21613	-2.67364	H	-2.12838	-0.54052	4.45129
C	4.51391	0.57673	0.47998	C	-3.39765	-0.73430	-1.53416	C	-1.89795	-2.04741	2.82399
H	4.53054	1.62182	0.79513	C	-2.87650	2.50016	0.48016	H	-1.94661	-2.98570	3.35621
H	5.50287	0.34166	0.08282	H	-1.83503	2.24513	0.68018	C	-1.71844	-1.89192	1.42943
H	4.36598	-0.03614	1.36944	C	-2.87362	3.84987	-0.23676	H	-1.60603	-2.68758	0.70757
N	0.94677	-1.21153	-0.19340	H	-3.88279	4.19836	-0.46069	C	-2.55307	-0.04268	-1.05685
N	-1.49974	-1.20703	-1.82313	H	-2.32149	3.79507	-1.17484	C	-3.63343	0.85009	-0.96647
H	-1.84320	0.06166	-3.37305	H	-2.40340	4.61259	0.38622	C	-4.71158	0.68440	-1.82883
H	-2.14379	-1.54067	-1.11520	C	-3.60530	2.59329	1.82117	H	-5.55509	1.36118	-1.76401
H	-1.18569	-2.02258	-2.33970	H	-3.12669	3.32862	2.47138	C	-4.72701	-0.32433	-2.77290
N	-1.24736	0.77800	-3.82846	H	-3.60990	1.63513	2.34024	H	-5.57490	-0.43826	-3.43561
H	-1.65559	1.70488	-3.72166	H	-4.64373	2.90205	1.68694	C	-3.64561	-1.17849	-2.87279
H	-1.05569	0.56288	-4.80014	C	-2.71401	-2.01871	-1.95083	H	-3.65327	-1.95416	-3.62904
H	-0.34340	0.66331	-3.14209	H	-1.75976	-2.08639	-1.43150	C	-2.54968	-1.05443	-2.02592
<b>TS2 (C<sub>1</sub>): E<sub>tot</sub> = -3055.6544025</b>			C	-2.41298	-2.00830	-3.45024	C	-3.67816	1.99733	0.02034	

H	-2.73739	2.02817	0.56892	C	-1.17674	0.12477	2.37959	C	2.54750	7.94029	1.95858
C	-3.79758	3.34279	-0.69467	H	-0.88753	1.16338	2.44813	H	3.57159	7.84870	2.31882
H	-4.72408	3.42365	-1.26429	C	-1.26608	-0.78571	3.45868	H	2.21087	8.96214	2.14150
H	-2.96527	3.49295	-1.38095	H	-1.06239	-0.56231	4.49540	H	2.56952	7.80171	0.87716
H	-3.78959	4.16156	0.02747	C	-1.67300	-2.04037	2.94095	C	0.18436	7.12248	2.12645
C	-4.79571	1.80622	1.04498	H	-1.82870	-2.94232	3.51401	H	0.12143	7.06441	1.03843
H	-4.78157	2.60841	1.78520	C	-1.82230	-1.91260	1.54152	H	-0.17089	8.10995	2.42846
H	-4.68987	0.85868	1.57342	H	-2.10144	-2.70092	0.85994	H	-0.49913	6.38157	2.53820
H	-5.77945	1.81488	0.57234	C	-2.79397	0.23035	-0.70954	Fe	-0.16101	2.15816	3.51515
C	-1.37509	-1.98254	-2.22640	C	-3.44194	1.45316	-0.45636	N	1.66100	4.44652	4.18449
H	-0.67622	-1.82004	-1.40183	C	-4.68902	1.68128	-1.02484	Si	3.14569	3.52045	4.25943
C	-0.65624	-1.63072	-3.52785	H	-5.20617	2.61165	-0.82660	C	1.53110	1.19810	3.99546
H	-0.29454	-0.60249	-3.50657	C	-5.28397	0.74287	-1.84717	C	0.89580	0.53402	2.90457
H	-1.32508	-1.73030	-4.38432	H	-6.25221	0.94121	-2.28815	H	1.30256	0.40418	1.91494
H	0.19095	-2.29583	-3.69798	C	-4.63462	-0.44766	-2.10238	C	-0.38224	0.10684	3.33171
C	-1.77658	-3.45633	-2.19757	H	-5.10475	-1.17770	-2.74967	H	-1.10793	-0.41598	2.72685
H	-0.89274	-4.09478	-2.25040	C	-3.39379	-0.73449	-1.53927	C	-0.55153	0.49910	4.68183
H	-2.41435	-3.72262	-3.04154	C	-2.85207	2.51707	0.44185	H	-1.42612	0.32347	5.29018
H	-2.32192	-3.70909	-1.28733	H	-1.80116	2.27263	0.60544	C	0.63433	1.14896	5.10060
N	-1.46177	0.05907	-0.13616	C	-2.89834	3.90556	-0.19451	H	0.81530	1.56775	6.08028
H	1.06587	-0.60781	-0.52975	H	-3.91967	4.25686	-0.34628	C	3.94406	0.97743	3.93001
O	-0.04564	1.64394	-1.86442	H	-2.39403	3.91952	-1.16070	C	4.51810	0.63441	2.69413
H	-0.38044	2.66703	0.58510	H	-2.40807	4.63558	0.45188	C	5.64146	-0.18626	2.68804
O	-0.57261	4.13307	0.63093	C	-3.55752	2.52268	1.79945	H	6.09734	-0.45819	1.74385
H	-1.46680	4.34378	0.91068	H	-3.08918	3.23862	2.47839	C	6.18693	-0.66653	3.86257
H	-0.12232	2.67319	-1.99200	H	-3.52729	1.54109	2.27126	H	7.05758	-1.30878	3.83558
H	-0.46025	4.23848	-0.66624	H	-4.60615	2.80692	1.69305	C	5.61551	-0.32125	5.07261
O	-0.28098	4.12708	-1.77088	C	-2.78127	-2.08658	-1.84507	H	6.04843	-0.70337	5.98886
H	-0.97185	4.57378	-2.26123	H	-1.83059	-2.17365	-1.32117	C	4.49979	0.50608	5.13216
<b>TS4 (C<sub>1</sub>): E<sub>tot</sub> = -3055.68762144</b>											
C	1.61427	-1.00867	0.81116	H	-1.77570	-1.48067	-3.67509	H	3.09095	1.72057	1.55292
C	1.31217	-2.39365	0.72574	H	-3.37727	-2.18577	-3.94243	C	4.96426	1.92509	0.57047
H	0.98365	-2.91068	-0.16446	H	-2.00868	-3.21193	-3.52127	H	5.85173	1.34628	0.30801
C	1.49212	-2.94606	2.01659	C	-3.69254	-3.21835	-1.36304	H	5.28829	2.79911	1.13071
H	1.32887	-3.97823	2.28798	H	-3.19316	-4.18215	-1.47712	H	4.51586	2.27171	-0.36236
C	1.92346	-1.91426	2.88537	H	-4.61909	-3.26562	-1.93766	C	3.50898	-0.11287	0.52462
H	2.14833	-2.01980	3.93595	H	-3.97055	-3.10149	-0.31487	H	2.97912	0.21929	-0.37002
C	2.00530	-0.71249	2.14088	N	-1.50861	-0.02406	-0.12045	H	2.85347	-0.78247	1.08139
H	2.31981	0.25032	2.51273	O	0.38538	-0.99668	-2.13824	H	4.36297	-0.70567	0.19259
C	2.66157	0.83238	-0.32318	H	1.45077	-0.74219	-1.27218	C	3.91818	0.83658	6.49897
C	3.89010	0.35875	-0.81258	H	-0.20885	1.53657	-1.72349	H	3.17546	1.62648	6.36637
C	4.97485	1.22611	-0.81174	<b>TS5 (C<sub>1</sub>): E<sub>tot</sub> = -3062.40989527</b>				C	4.97555	1.37692	7.45084
H	5.93223	0.88129	-1.18129	C	0.46163	4.06862	3.55398	H	5.47966	2.24743	7.03052
C	4.85871	2.52164	-0.34316	C	0.30498	3.64852	2.20651	H	5.73663	0.63309	7.69021
H	5.71579	3.18197	-0.35004	H	1.09279	3.60272	1.46717	H	4.51453	1.67923	8.39219
C	3.64307	2.96688	0.13465	C	-1.04734	3.26585	2.02298	C	3.20306	-0.37911	7.08036
H	3.55987	3.98295	0.49995	H	-1.47936	2.88760	1.10851	H	2.73641	-0.12784	8.03496
C	2.52421	2.13808	0.16032	C	-1.73550	3.47897	3.24296	H	3.90072	-1.19923	7.25986
C	4.10519	-1.06124	-1.30004	H	-2.78334	3.29022	3.42176	H	2.42499	-0.74550	6.41094
H	3.14754	-1.57407	-1.38903	C	-0.80744	3.97157	4.19151	N	2.79418	1.83373	3.97297
C	4.73200	-1.10054	-2.69299	H	-1.01634	4.22800	5.21957	B	5.02157	5.00155	2.79959
H	5.74324	-0.69165	-2.70571	C	1.66361	5.70751	4.85633	N	5.15286	5.48986	4.24089
H	4.13298	-0.54129	-3.41108	C	1.65673	5.74844	6.26087	H	4.05200	4.01541	2.86923
H	4.79605	-2.13108	-3.04396	C	1.71796	6.98617	6.89514	H	5.96784	4.36703	2.42381
C	4.93715	-1.85056	-0.28794	H	1.72488	7.03143	7.97764	H	4.52097	5.76399	2.02297
H	5.05984	-2.88328	-0.61760	C	1.75395	8.16077	6.17051	H	4.39825	4.55584	4.86335
H	4.45933	-1.86737	0.69187	H	1.79469	9.11473	6.67999	H	6.08517	5.44400	4.62662
H	5.93278	-1.41929	-0.16903	C	1.72661	8.11119	4.78785	H	4.74104	6.39163	4.44530
C	1.23366	2.71259	0.70388	H	1.74163	9.03740	4.22803	<b>TS6 (C<sub>1</sub>): E<sub>tot</sub> = -3061.25792805</b>			
H	0.45558	1.94864	0.66240	C	1.68819	6.89947	4.10727	C	-0.64767	4.00137	4.58065
C	0.76802	3.89623	-0.14306	C	1.55429	4.50943	7.12514	C	-1.78456	4.24639	3.75946
H	0.63434	3.61305	-1.18635	H	1.46364	3.64222	6.46918	H	-1.83950	4.96358	2.95386
H	1.48555	4.71731	-0.11122	C	2.79866	4.31281	7.98905	C	-2.82189	3.38360	4.18447
H	-0.18313	4.28042	0.22422	H	3.69698	4.23796	7.37663	H	-3.81054	3.32402	3.75485
C	1.36051	3.12587	2.17064	H	2.71775	3.39674	8.57709	C	-2.33522	2.60482	5.26324
H	0.40425	3.50014	2.54144	H	2.93609	5.13869	8.68914	H	-2.88824	1.84931	5.80108
H	2.09467	3.92100	2.30699	C	0.29515	4.53977	7.99311	C	-0.99890	2.99934	5.52395
H	1.65669	2.29139	2.80565	H	0.32817	5.34419	8.72944	H	-0.34489	2.59240	6.28269
Fe	0.09233	-1.43618	2.05754	H	0.18567	3.60183	8.54030	C	0.63233	6.04120	4.57378
N	1.55756	-0.09597	-0.29226	H	-0.60401	4.68411	7.39391	C	0.61491	6.60521	5.85721
Si	-0.14813	0.15785	-1.18881	C	1.62553	6.90146	2.59501	C	0.61614	7.99013	5.96968
C	-1.50420	-0.57134	1.18018	H	1.95860	5.92440	2.24144	H	0.59550	8.44685	6.95135

C	0.65935	8.79891	4.84847	H	2.96841	3.60811	5.94698	H	3.93405	0.94083	5.52377				
H	0.67066	9.87569	4.95611	<b>TS7 (C<sub>1</sub>): E<sub>tot</sub> = -3144.33378985</b>											
C	0.69313	8.22827	3.59023	C	0.63507	3.99864	3.27035	H	6.37274	1.16717	6.12446				
H	0.73512	8.87076	2.71932	C	0.31719	3.63918	1.92990	H	6.52335	-0.58461	6.07305				
C	0.66914	6.84695	3.42672	H	0.98718	3.71599	1.08611	H	5.44889	0.16136	7.23886				
C	0.57623	5.75593	7.10836	C	-1.00442	3.13415	1.90321	C	3.93366	-1.18021	5.33353				
H	0.79604	4.72579	6.82555	H	-1.52660	2.76878	1.03142	H	3.58126	-1.35451	6.35176				
C	1.64624	6.16411	8.11912	C	-1.52423	3.19773	3.22011	H	4.60531	-1.99899	5.06774				
H	1.64292	5.47601	8.96583	H	-2.51145	2.88660	3.52823	H	3.07113	-1.22506	4.67002				
H	1.48006	7.16580	8.51874	C	-0.52201	3.72832	4.06299	N	3.16152	1.92019	3.45162				
H	2.63861	6.13692	7.67016	H	-0.61431	3.88274	5.12686	B	4.86424	4.48646	4.61861				
C	-0.81882	5.78601	7.73410	C	1.94196	5.90683	3.94911	H	2.75757	3.02705	5.73764				
H	-1.08154	6.79374	8.06195	C	1.62003	6.43941	5.20946	H	4.93854	5.62989	4.29647				
H	-0.86459	5.13217	8.60694	C	1.66478	7.81857	5.38921	N	5.70827	4.01811	5.67211				
H	-1.58089	5.45573	7.02823	H	1.42154	8.23904	6.35775	H	6.34066	4.65295	6.13134				
C	0.71073	6.27350	2.02572	C	2.00943	8.66548	4.35454	H	5.43471	3.25042	6.26267				
H	0.49332	5.20492	2.08760	H	2.02776	9.73662	4.50860	B	6.96993	4.15653	2.73516				
C	2.10437	6.43074	1.41585	C	2.34371	8.13237	3.12425	N	7.52791	2.91005	3.58719				
H	2.87011	5.97217	2.04352	H	2.62918	8.79949	2.32008	H	7.20074	3.96624	1.56778				
H	2.36640	7.48374	1.29868	C	2.33347	6.75990	2.90388	H	7.45949	5.16472	3.18331				
H	2.15253	5.96470	0.42934	C	1.24845	5.58316	6.40215	H	5.74597	4.13029	2.93319				
C	-0.35252	6.88545	1.11426	H	1.18637	4.54485	6.07913	H	7.12517	3.00083	4.52475				
H	-0.16619	7.94189	0.91692	C	2.33165	5.64523	7.47966	H	7.22770	2.02113	3.19510				
H	-1.35004	6.80582	1.54787	H	3.30009	5.33247	7.08759	H	8.53832	2.90570	3.65358				
H	-0.36399	6.37565	0.14962	H	2.08157	4.98937	8.31586	<b>TS8 (C<sub>1</sub>): E<sub>tot</sub> = -3144.33218205</b>							
Fe	-1.13979	2.31407	3.61279	H	2.44814	6.65597	7.87464	C	0.66770	3.99990	3.23126				
N	0.61475	4.61443	4.43712	C	-0.11432	5.96746	6.97886	C	0.34545	3.61873	1.89774				
Si	2.12681	3.84687	4.09697	H	-0.10547	6.96705	7.41612	H	1.01666	3.66798	1.05282				
C	0.66648	1.66763	3.04052	H	-0.40560	5.27248	7.76876	C	-0.98325	3.13164	1.87951				
C	-0.03569	2.15261	1.90079	H	-0.88992	5.95475	6.21268	H	-1.50948	2.75578	1.01464				
H	0.27120	2.97882	1.27479	C	2.75879	6.24446	1.54802	C	-1.50424	3.23209	3.19363				
C	-1.22380	1.39801	1.76053	H	2.82530	5.15712	1.61008	H	-2.49643	2.94244	3.50664				
H	-1.97686	1.53769	0.99952	C	4.14456	6.76251	1.16277	C	-0.49516	3.76513	4.02666				
C	-1.24410	0.41814	2.78299	H	4.89709	6.46604	1.89420	H	-0.58620	3.94503	5.08674				
H	-2.01784	-0.31824	2.94043	H	4.16727	7.85027	1.08058	C	1.95544	5.90959	3.90710				
C	-0.08239	0.57870	3.57308	H	4.44694	6.36170	0.19454	C	1.64898	6.43573	5.17389				
H	0.17424	-0.00507	4.44247	C	1.72557	6.59579	0.47724	C	1.66343	7.81555	5.35252				
C	3.04678	1.42512	3.41534	H	2.00230	6.15759	-0.48425	H	1.43263	8.23044	6.32647				
C	3.82724	1.57350	2.25850	H	1.65243	7.67582	0.33509	C	1.96218	8.67093	4.31027				
C	4.97176	0.79557	2.12259	H	0.73320	6.23094	0.74274	H	1.95628	9.74227	4.46396				
H	5.58310	0.89615	1.23411	Fe	0.17800	2.02745	3.17635	C	2.28097	8.14543	3.07280				
C	5.35408	-0.09392	3.10856	N	1.88055	4.49591	3.71875	H	2.52970	8.81864	2.26136				
H	6.24861	-0.69060	2.98622	Si	3.14673	3.44708	4.34273	C	2.29971	6.77273	2.85381				
C	4.59602	-0.20625	4.25911	C	1.97328	1.15599	3.48765	C	1.33793	5.56962	6.37637				
H	4.91291	-0.89061	5.03672	C	1.33386	0.55884	2.36404	H	1.26651	4.53316	6.04896				
C	3.43845	0.54493	4.43784	H	1.70736	0.54711	1.35322	C	2.47604	5.63499	7.39556				
C	3.51240	2.58052	1.17456	C	0.11121	-0.00684	2.79729	H	3.42517	5.34773	6.94175				
H	2.61169	3.12852	1.45518	H	-0.60073	-0.52512	2.17254	H	2.28564	4.96213	8.23396				
C	4.63904	3.60830	1.06030	C	-0.01940	0.23873	4.18438	H	2.59611	6.64262	7.79751				
H	5.56169	3.15546	0.69304	H	-0.84755	-0.06161	4.80899	C	0.00483	5.93869	7.02715				
H	4.85357	4.05882	2.03099	C	1.13513	0.93402	4.61934	H	0.02896	6.93260	7.47653				
H	4.36550	4.40235	0.36363	H	1.32716	1.27068	5.62691	H	-0.24079	5.23196	7.82201				
C	3.21679	1.90138	-0.16108	C	4.31781	1.26476	2.94575	H	-0.80971	5.92997	6.30246				
H	4.07925	1.34566	-0.53290	C	4.68608	1.41223	1.59746	C	2.70854	6.26617	1.48996				
H	2.95595	2.64329	-0.91787	C	5.83262	0.76652	1.14187	H	2.78876	5.17983	1.54944				
H	2.38400	1.20336	-0.07167	H	6.13945	0.89135	0.11079	C	4.08221	6.80352	1.08797				
C	2.67715	0.38764	5.73718	C	6.57729	-0.05022	1.97320	H	4.84321	6.53498	1.82189				
H	1.80607	1.04516	5.70442	H	7.45343	-0.56041	1.59352	H	4.08397	7.89033	0.99100				
C	3.52682	0.81260	6.93699	C	6.18334	-0.22611	3.29051	H	4.38763	6.39464	0.12382				
H	3.89941	1.82989	6.82658	H	6.75482	-0.88936	3.92860	C	1.65657	6.60470	0.43399				
H	4.38570	0.15248	7.07122	C	5.06501	0.42904	3.79794	H	1.92742	6.17457	-0.53282				
H	2.93759	0.76911	7.85459	C	3.85653	2.19713	0.60447	H	1.56301	7.68377	0.29676				
C	2.18660	-1.04978	5.92677	H	2.96537	2.54905	1.12644	H	0.67482	6.22108	0.71175				
H	1.53492	-1.12139	6.79926	C	4.59056	3.42030	0.06467	Fe	0.18168	2.03620	3.17859				
H	3.01941	-1.73595	6.08908	H	5.48428	3.13813	-0.49500	N	1.91503	4.49853	3.67413				
H	1.63673	-1.41587	5.05980	H	4.90821	4.08342	0.86360	Si	3.21604	3.46256	4.26250				
N	1.85744	2.21284	3.57155	H	3.94067	3.97953	-0.61198	C	1.96849	1.15213	3.50215				
N	5.06372	3.73919	4.91659	C	3.41184	1.31082	-0.56309	C	1.31356	0.52560	2.40421				
H	5.24057	2.75756	4.80365	H	2.68098	1.83643	-1.17973	H	1.68253	0.47488	1.39197				
H	5.88394	4.26711	5.14386	H	2.96293	0.37363	-0.23364	C	0.08700	-0.00901	2.86661				
B	3.75396	4.28877	5.20441	H	4.25159	1.05193	-1.21031	H	-0.63655	-0.54016	2.26647				
H	3.67506	5.44107	5.53285	C	4.64746	0.16928	5.22959	C	-0.02929	0.28617	4.24572				

H	-0.85613	0.01723	4.88620	H	3.40975	2.59260	1.88858	C	4.10639	-0.53879	-2.57481
C	1.13762	0.98237	4.64695	H	4.29880	3.07290	2.34127	H	4.25192	-0.56944	-3.64778
H	1.34531	1.35415	5.63947	<b>TSS2 (C<sub>1</sub>): E<sub>tot</sub> = -2048.68023293</b>				C	2.86586	-0.17420	-2.05944
C	4.31306	1.24538	2.92398	C	0.68020	3.72966	2.44194	C	3.61327	-0.46945	1.69504
C	4.68392	1.40915	1.57981	C	0.10740	3.25248	1.22833	H	2.54950	-0.43240	1.93028
C	5.84641	0.79374	1.12437	H	0.61523	3.19220	0.27629	C	4.15856	-1.73956	2.34611
H	6.15538	0.93240	0.09542	C	-1.22014	2.84900	1.50026	H	5.24331	-1.81999	2.25886
C	6.60818	-0.00472	1.95598	H	-1.91355	2.42889	0.78709	H	3.71533	-2.62586	1.89302
H	7.50218	-0.48596	1.58040	C	-1.48331	3.09349	2.87206	H	3.92406	-1.74226	3.41263
C	6.20905	-0.20295	3.26801	H	-2.41233	2.89202	3.38416	C	4.27975	0.77505	2.28369
H	6.79445	-0.85537	3.90455	C	-0.31582	3.64315	3.45481	H	4.12777	0.82189	3.36383
C	5.07112	0.41733	3.77354	H	-0.18550	3.92333	4.49024	H	3.87547	1.68925	1.85015
C	3.84196	2.19283	0.59689	Fe	0.12090	1.81243	2.68146	H	5.35623	0.76574	2.10074
H	2.94126	2.51581	1.12051	N	2.00992	4.18161	2.59788	C	1.75765	0.18214	-3.02837
C	4.55340	3.44196	0.08739	Si	3.51413	3.31784	3.44468	H	0.92079	0.58821	-2.45652
H	5.46435	3.19213	-0.45974	C	1.77472	1.01241	3.50473	C	1.25782	-1.05847	-3.76805
H	4.83556	4.10435	0.90177	C	1.60409	0.49749	2.19035	H	0.90806	-1.82191	-3.07185
H	3.90309	3.99879	-0.59067	H	2.30211	0.62028	1.37481	H	2.04886	-1.50367	-4.37414
C	3.41518	1.31942	-0.58551	C	0.35115	-0.16093	2.13713	H	0.43132	-0.80609	-4.43548
H	2.69198	1.84951	-1.20753	H	-0.07335	-0.64502	1.27012	C	2.18350	1.26679	-4.01813
H	2.95988	0.38200	-0.26530	C	-0.24484	-0.08091	3.42023	H	1.33481	1.57607	-4.63039
H	4.26286	1.06288	-1.22322	H	-1.20296	-0.49196	3.70131	H	2.96168	0.91867	-4.69877
C	4.64303	0.13537	5.19789	C	0.63061	0.64156	4.26671	H	2.56860	2.15045	-3.50825
H	3.95176	0.92184	5.50768	H	0.45905	0.89335	5.30344	Fe	-0.31632	2.60398	0.39557
C	5.80617	0.13361	6.18966	N	2.84295	1.79860	3.96499	N	1.42616	0.20731	-0.11250
H	6.41367	1.03679	6.11408	H	2.06522	5.18862	2.68168	Si	0.18299	-1.02879	-0.16838
H	6.47206	-0.71855	6.04538	H	3.38771	1.34336	4.68313	C	-1.65542	1.16782	0.02342
H	5.42879	0.06794	7.21114	H	2.88073	3.55102	1.73971	C	-1.52682	1.99979	-1.12605
C	3.88808	-1.19454	5.26585	H	3.67445	2.94700	1.66864	H	-1.18706	1.68083	-2.10103
H	3.52755	-1.38446	6.27851	<b>TSS3 (C<sub>1</sub>): E<sub>tot</sub> = -2048.67350879</b>				C	-1.87069	3.32263	-0.75707
H	4.53854	-2.02402	4.98108	C	1.82448	3.84351	1.32398	H	-1.85508	4.18557	-1.40589
H	3.02684	-1.19945	4.59949	C	1.63024	3.23488	0.05839	C	-2.24868	3.31240	0.60782
N	3.15871	1.90332	3.43256	H	2.39143	3.08838	-0.69423	H	-2.56764	4.16774	1.18450
B	5.01243	4.38706	4.34481	C	0.26919	2.83803	-0.03837	C	-2.12106	1.98964	1.09131
H	2.90660	3.10511	5.70015	H	-0.18681	2.35423	-0.88918	H	-2.30935	1.66906	2.10328
H	4.92695	5.58242	4.32971	C	-0.38239	3.20610	1.16094	C	-2.50212	-1.07241	0.10709
N	5.84418	3.83779	5.53948	H	-1.42533	3.05287	1.39427	C	-3.07412	-1.49097	-1.10577
H	6.22228	4.57553	6.12068	C	0.57885	3.81529	2.00932	C	-4.20912	-2.29383	-1.06775
H	5.34016	3.19820	6.14180	H	0.39885	4.19179	3.00680	H	-4.66569	-2.61644	-1.99555
B	6.99201	4.06597	2.95969	Fe	1.17106	1.91388	1.55554	C	-4.76608	-2.69309	0.13142
N	7.55108	2.99755	3.90171	N	3.03875	4.28090	1.85558	H	-5.64992	-3.31755	0.14101
H	6.86682	3.76164	1.81109	Si	4.54026	3.39292	1.73183	C	-4.18105	-2.29623	1.31811
H	7.40895	5.16576	3.19250	C	2.82872	1.00098	2.29427	H	-4.61441	-2.62311	2.25570
H	5.63147	4.07061	3.22963	C	2.29316	0.24685	1.20934	C	-3.04950	-1.48779	1.33220
H	6.78435	3.26960	4.92668	H	2.80425	0.01870	0.28497	C	-2.51733	-1.11285	-2.46157
H	7.42622	2.05140	3.55899	C	0.97772	-0.14130	1.55904	H	-1.57921	-0.57450	-2.31799
H	8.52513	3.14161	4.12988	H	0.30754	-0.72612	0.94681	C	-2.18636	-2.35060	-3.29461
<b>TSS1 (C<sub>1</sub>): E<sub>tot</sub> = -2048.67712442</b>											
C	0.69019	3.71749	2.82358	H	-0.23427	0.25830	3.38855	H	-1.49088	-3.00337	-2.76663
C	0.35123	3.19370	1.54850	C	1.83815	1.07470	3.30504	H	-1.72449	-2.06160	-4.23984
H	1.02752	3.10196	0.71094	H	1.94207	1.59021	4.24877	C	-3.47027	-0.17807	-3.20650
C	-1.00571	2.78964	1.58455	N	4.10331	1.61945	2.32000	H	-3.03691	0.13559	-4.15826
H	-1.55665	2.34882	0.76698	H	4.76599	2.55222	3.09914	H	-3.68601	0.71629	-2.62196
C	-1.51710	3.07515	2.87510	H	4.84051	3.27120	0.27119	H	-4.42034	-0.66889	-3.42512
H	-2.52550	2.89075	3.21438	H	4.86291	0.96484	2.17276	C	-2.46983	-1.10304	2.67692
C	-0.46997	3.64078	3.64457	H	2.92114	4.82619	2.69448	H	-1.59432	-0.47382	2.50590
H	-0.53254	3.95371	4.67729	<b>TSS4 (C<sub>1</sub>): E<sub>tot</sub> = -3062.41379694</b>				C	-1.99941	-2.33397	3.45337
Fe	0.08002	1.78069	3.00916	C	1.36463	1.51929	0.39800	H	-1.28542	-2.91103	2.86963
N	1.96169	4.16673	3.22012	C	1.03806	1.89265	1.73069	H	-2.83517	-2.98703	3.71163
Si	3.32120	3.12451	3.49721	H	0.81263	1.20775	2.53638	H	-1.51808	-2.03378	4.38652
C	1.71835	0.87633	3.81938	C	1.01769	3.30773	1.79657	C	-3.47850	-0.31176	3.51357
C	1.40637	0.28009	2.56951	H	0.78670	3.89812	2.67072	H	-3.00990	0.06989	4.42267
H	2.05827	0.25781	1.70821	C	1.36321	3.81272	0.51826	H	-4.31732	-0.93830	3.82149
C	0.09242	-0.24288	2.64633	H	1.44018	4.85514	0.24787	H	-3.89599	0.53229	2.96505
H	-0.43219	-0.75509	1.85345	C	1.58132	2.71381	-0.34589	N	-1.34974	-0.21302	0.09007
C	-0.40892	0.01273	3.94707	H	1.85414	2.76605	-1.38946	B	0.73961	-2.96676	1.05112
H	-1.38179	-0.27045	4.32031	C	2.69548	-0.15920	-0.66656	N	1.32016	-4.33546	2.75845
C	0.58987	0.71064	4.67085	C	3.75817	-0.48947	0.18980	H	2.15688	-3.99650	3.21047
H	0.51157	1.06513	5.68896	C	4.98491	-0.82227	-0.37038	H	1.51246	-5.24660	2.36894
N	2.90310	1.56481	4.13261	H	5.81815	-1.07132	0.27503	H	0.59421	-4.43097	3.45370
H	3.30669	1.30250	5.01620	C	5.16172	-0.85470	-1.74205	H	-0.23665	-3.61470	0.82000
H	1.95079	5.04971	3.70247	H	6.12198	-1.12706	-2.16038	H	0.67032	-2.04893	1.85319

H	1.78192	-3.17271	0.50352	H	-1.11357	-1.73494	-1.20686	C	4.88995	1.29479	-0.03365								
<b>TSS5 (C<sub>1</sub>): E<sub>tot</sub> = -2980.51101763</b>																			
C	1.47043	-0.63355	1.07425	H	-0.71491	-0.57174	-3.32706	H	4.05603	1.82221	0.43779								
C	1.22356	-2.03455	1.00454	H	-1.92750	-1.57319	-4.14491	C	5.65926	2.30190	-0.88821								
H	0.94398	-2.58090	0.11554	H	-0.44999	-2.30759	-3.52671	H	6.47436	1.82125	-1.43159								
C	1.37318	-2.57559	2.30347	C	-2.48341	-3.19517	-1.92263	H	6.08432	3.09647	-0.27581								
H	1.23913	-3.61112	2.57856	H	-1.69952	-3.94785	-2.02090	C	4.26534	0.21080	-0.91315								
C	1.73068	-1.52044	3.17944	H	-3.19895	-3.36936	-2.72751	H	3.58932	0.65756	-1.64452								
H	1.91401	-1.61131	4.23977	H	-3.00425	-3.37407	-0.98136	H	3.69310	-0.50866	-0.32784								
C	1.79282	-0.32458	2.42850	N	-1.50868	0.29304	0.03683	H	5.02218	-0.34550	-1.46776								
H	2.02221	0.65487	2.81931	H	-0.07514	2.58301	-0.41106	C	6.14042	0.43587	4.86849								
C	2.64884	0.62967	-0.61449	H	-0.12505	2.35514	0.71243	H	5.38365	1.20265	5.04056								
C	3.17805	-0.15785	-1.64992	<b>TSS6 (C<sub>1</sub>): E<sub>tot</sub> = -2980.51348765</b>															
C	4.41975	0.17863	-2.17817	C	1.50360	3.02707	2.07646	H	7.78638	1.82377	5.18748								
H	4.84643	-0.42904	-2.96653	C	1.16213	2.06350	1.08359	H	8.19151	0.15410	5.57862								
C	5.12254	1.27708	-1.72204	H	1.74552	1.82631	0.20546	H	7.16469	1.07934	6.66013								
H	6.08609	1.52350	-2.14860	C	-0.05240	1.44464	1.46547	C	5.59911	-0.86970	5.45259								
C	4.58093	2.06269	-0.72386	H	-0.56085	0.66005	0.92517	H	5.39303	-0.75859	6.51843								
H	5.12796	2.93175	-0.37876	C	-0.48625	2.04053	2.67561	H	6.31908	-1.68205	5.33640								
C	3.35000	1.75623	-0.15332	H	-1.38172	1.78594	3.22276	H	4.67287	-1.16929	4.96242								
C	2.46327	-1.36380	-2.21725	C	0.46397	3.01727	3.05143	N	4.40559	1.64430	2.86955								
H	1.45364	-1.38858	-1.80210	H	0.42412	3.63295	3.93713	H	4.58967	2.52809	3.84967								
C	2.32631	-1.27268	-3.73707	C	2.37571	5.23734	1.81379	H	4.53233	3.51122	4.14922								
H	3.29571	-1.28479	-4.23691	C	2.22715	6.13866	2.88041	<b>TSS7 (C<sub>1</sub>): E<sub>tot</sub> = -2980.50682419</b>											
H	1.80935	-0.36127	-4.03714	C	1.94774	7.47133	2.59434	C	1.80279	3.82236	1.39144								
H	1.75886	-2.12123	-4.12124	H	1.83692	8.18029	3.40576	C	1.67725	3.23907	0.10291								
C	3.17554	-2.65674	-1.81624	C	1.80633	7.90946	1.29203	H	2.47701	3.10897	-0.61292								
H	2.61904	-3.53005	-2.16271	H	1.58001	8.94801	1.08860	C	0.32814	2.82975	-0.06454								
H	3.28927	-2.73411	-0.73533	C	1.96526	7.01566	0.24935	H	-0.08114	2.34749	-0.93974								
H	4.17313	-2.70838	-2.25639	H	1.86263	7.36892	-0.76941	C	-0.38645	3.18330	1.10433								
C	2.81982	2.67376	0.92749	C	2.26233	5.67853	0.48490	H	-1.43817	3.01552	1.28157								
H	1.88571	2.25989	1.31027	C	2.38364	5.73022	4.33050	C	0.52136	3.78758	2.00891								
C	2.49452	4.05642	0.36065	H	2.48246	4.64440	4.37518	H	0.29045	4.16541	2.99420								
H	1.80672	3.99219	-0.48384	C	3.66070	6.32565	4.92457	C	2.90302	5.47960	2.73850								
H	3.39190	4.56625	0.00604	H	3.80117	5.99049	5.95363	C	2.93221	5.48882	4.14147								
H	2.03482	4.68790	1.12270	H	3.62475	7.41658	4.93165	C	2.83686	6.70926	4.80292								
C	3.78726	2.78424	2.10619	H	4.54085	6.02748	4.35466	H	2.86432	6.73171	5.88594								
H	3.34243	3.37067	2.91211	C	1.16627	6.11733	5.17096	C	2.69364	7.89371	4.10634								
H	4.71860	3.27760	1.82405	H	0.23888	5.73908	4.73943	H	2.60820	8.83191	4.63894								
H	4.04675	1.80283	2.50385	H	1.06107	7.19919	5.26478	C	2.66656	7.87346	2.72341								
Fe	-0.08109	-1.11720	2.27283	H	1.25821	5.71469	6.18101	H	2.56205	8.80643	2.18328								
N	1.39709	0.27346	-0.01198	C	2.44749	4.75722	-0.70028	C	2.78720	6.68204	2.01872								
Si	-0.06310	1.07429	-0.51812	H	2.81679	3.79928	-0.33178	C	3.05869	4.22757	4.96450								
C	-1.63279	-0.24369	1.33698	C	3.49888	5.29086	-1.67262	H	3.08412	3.38722	4.27240								
C	-1.38251	0.42585	2.56609	H	4.45370	5.45123	-1.17188	C	4.36194	4.20538	5.76123								
H	-1.08812	1.46057	2.67011	H	3.19760	6.23492	-2.12877	H	4.46687	3.26275	6.30294								
C	-1.52660	-0.51688	3.61255	H	3.66088	4.58022	-2.48513	H	4.39896	5.01075	6.49690								
H	-1.38528	-0.31954	4.66485	C	1.11683	4.50531	-1.40961	H	5.22274	4.31005	5.10146								
C	-1.89333	-1.75984	3.04067	H	1.24306	3.79379	-2.22812	C	1.85019	4.02160	5.87712								
H	-2.07916	-2.67673	3.57981	H	0.71439	5.42672	-1.83472	H	0.91989	3.99543	5.30871								
C	-1.96036	-1.59549	1.63707	H	0.37139	4.10198	-0.72464	H	1.75988	4.81574	6.61975								
H	-2.20844	-2.36105	0.91712	Fe	1.39080	1.20775	2.91289	H	1.93547	3.07842	6.42098								
C	-2.69759	0.29611	-0.75571	N	2.64857	3.85261	2.08398	C	2.77717	6.71457	0.50475								
C	-3.65271	1.30266	-0.55236	Si	4.36806	3.52577	2.30863	H	3.09288	5.73631	0.13964								
C	-4.82423	1.26949	-1.29958	C	3.32106	0.85991	3.34058	C	3.76902	7.73380	-0.05547								
H	-5.57722	2.03347	-1.14858	C	2.77107	-0.28060	2.69617	H	4.77417	7.56732	0.33271								
C	-5.04229	0.28125	-2.24209	H	3.11611	-0.70800	1.76701	H	3.48740	8.76080	0.18189								
H	-5.95665	0.27415	-2.82094	C	1.69905	-0.75449	3.49045	H	3.81297	7.65718	-1.14298								
C	-4.08476	-0.69472	-2.44558	H	1.07509	-1.60576	3.26370	C	1.36670	6.97353	-0.02661								
H	-4.26002	-1.45956	-3.19241	C	1.58528	0.08398	4.62548	H	1.35697	6.96036	-1.11790								
C	-2.90682	-0.71268	-1.70575	H	0.85857	-0.01326	5.41811	H	0.99747	7.94879	0.29706								
C	-3.45247	2.41028	0.45880	C	2.59643	1.07357	4.54688	H	0.66444	6.21649	0.32165								
H	-2.42918	2.35350	0.83294	H	2.76603	1.86927	5.25848	Fe	1.17066	1.90115	1.56337								
C	-3.61466	3.79341	-0.17064	C	5.53150	0.88064	2.41946	N	2.98171	4.25470	2.01180								
H	-4.63435	3.97432	-0.51425	C	5.77083	0.70652	1.04807	Si	4.53503	3.44533	1.85305								
H	-2.95066	3.92010	-1.02636	C	6.87079	-0.05059	0.65940	C	2.83579	0.96704	2.21548								
H	-3.37694	4.57099	0.55702	H	7.07478	-0.19081	-0.39523	C	2.21969	0.19537	1.18697								
C	-4.38645	2.22929	1.65529	C	7.70369	-0.63958	1.59123	H	2.66434	-0.07040	0.24145								
H	-4.20922	3.00324	2.40426	H	8.54941	-1.23206	1.26794	C	0.91915	-0.15226	1.61847								
H	-4.23278	1.26091	2.13140	C	7.44928	-0.46721	2.93900	H	0.20113	-0.72960	1.05545								
H	-5.43432	2.29303	1.35563	H	8.10400	-0.93401	3.66436	C	0.71997	0.39942	2.90658								
C	-1.88307	-1.79111	-1.97999	C	6.37455	0.29667	3.37834	H	-0.17395	0.31411	3.50586								

C	1.90715	1.07276	3.28547	H	-0.91981	5.55931	2.54285	H	1.96713	5.46634	9.40617								
H	2.06357	1.59695	4.21632	Fe	1.13282	1.27430	2.14146	H	2.30352	7.13862	8.98194								
C	5.21108	0.59670	2.01030	N	2.50518	4.05695	1.99751	C	-0.26614	6.45463	8.13592								
C	5.75846	0.29397	0.75463	Si	4.18040	3.14768	1.30342	H	-0.24850	7.45146	8.57913								
C	6.82296	-0.60144	0.69460	C	3.03613	0.62693	2.05450	H	-0.53591	5.75251	8.92711								
H	7.26316	-0.84076	-0.26563	C	2.22085	-0.14660	1.17563	H	-1.06079	6.44568	7.38950								
C	7.32565	-1.19983	1.83244	H	2.33335	-0.21742	0.10531	C	1.93536	6.94630	2.51826								
H	8.14970	-1.89761	1.76169	C	1.21649	-0.77825	1.94257	H	2.17438	5.88337	2.50446								
C	6.76723	-0.90539	3.06243	H	0.43584	-1.41824	1.55887	C	3.04518	7.68861	1.77144								
H	7.16136	-1.38361	3.95050	C	1.40060	-0.40994	3.29793	H	3.98191	7.69775	2.32878								
C	5.71519	-0.00619	3.17773	H	0.78938	-0.72440	4.13084	H	2.77817	8.72680	1.56836								
C	5.24012	0.86542	-0.54878	C	2.53258	0.43453	3.37236	H	3.23333	7.21808	0.80472								
H	4.37525	1.49555	-0.33352	H	2.93292	0.87530	4.27169	C	0.60445	7.15147	1.78971								
C	6.29618	1.73271	-1.23600	C	5.28702	0.72090	1.20671	H	0.65585	6.76637	0.76864								
H	7.15559	1.13665	-1.54773	C	5.47547	0.49526	-0.16997	H	0.36025	8.21402	1.72971								
H	6.66210	2.52069	-0.57953	C	6.61789	-0.18590	-0.58321	H	-0.21871	6.65156	2.29674								
H	5.88392	2.20488	-2.12920	H	6.78087	-0.35867	-1.64015	Fe	-0.11301	2.55071	4.24950								
C	4.77795	-0.24055	-1.50141	C	7.54200	-0.66040	0.32533	N	1.60710	5.03485	4.73496								
H	4.29357	0.19110	-2.37865	H	8.41583	-1.19944	-0.01706	Si	2.74138	3.94290	5.64548								
H	4.07315	-0.92478	-1.02911	C	7.34257	-0.44220	1.67582	C	1.65042	1.56652	4.60789								
H	5.61597	-0.84136	-1.85741	H	8.06938	-0.81968	2.38444	C	1.03658	1.09419	3.41576								
C	5.13801	0.25483	4.55430	C	6.23495	0.25848	2.13626	H	1.48046	1.11577	2.43096								
H	4.43757	1.08941	4.49492	C	4.50173	0.93702	-1.24540	C	-0.23767	0.56888	3.74977								
C	6.20961	0.66271	5.56380	H	3.63690	1.40185	-0.76935	H	-0.94187	0.13214	3.05725								
H	6.76690	1.53331	5.21805	C	5.12195	1.98610	-2.16806	C	-0.42630	0.73080	5.14223								
H	6.92439	-0.13847	5.75628	H	5.97477	1.58320	-2.71724	H	-1.29973	0.43868	5.70611								
H	5.74872	0.91849	6.51920	H	5.46384	2.85314	-1.60450	C	0.73684	1.34149	5.67831								
C	4.34287	-0.95855	5.03800	H	4.39030	2.33361	-2.89915	H	0.88749	1.60312	6.71513								
H	3.88474	-0.75705	6.00788	C	3.99636	-0.25351	-2.06465	C	3.85650	1.58929	3.72273								
H	4.98517	-1.83392	5.15037	H	3.20317	0.06206	-2.74457	C	4.39830	2.34911	2.67483								
H	3.54791	-1.21362	4.33737	H	3.60435	-1.04918	-1.43067	C	5.35432	1.77815	1.83528								
N	4.13566	1.53972	2.14584	H	4.78888	-0.69064	-2.67389	H	5.78390	2.37877	1.04336								
H	4.68753	2.40341	3.05680	C	6.07682	0.46963	3.62458	C	5.75205	0.46788	1.96733								
H	4.91267	3.51317	0.40765	H	5.27179	1.18852	3.77475	H	6.49781	0.04561	1.30709								
<b>TSS8 (C<sub>1</sub>): E<sub>tot</sub> = -3131.91949474</b>																			
C	1.29747	3.27971	1.94334	H	7.58636	2.01918	3.78331	H	5.42463	-1.35110	3.01935								
C	0.74199	2.72850	0.75771	H	8.19692	0.40726	4.16745	C	4.20728	0.21589	3.81421								
H	1.16060	2.80636	-0.23496	H	7.17787	1.25069	5.31712	C	3.96615	3.75134	2.31879								
C	-0.45963	2.06854	1.11566	C	5.68197	-0.83638	4.31513	H	3.23822	4.10191	3.04735								
H	-1.11156	1.53891	0.43718	H	5.50856	-0.67374	5.38102	C	5.15168	4.71705	2.30879								
C	-0.65763	2.23137	2.50731	H	6.46795	-1.58833	4.22079	H	5.82693	4.51850	1.47509								
H	-1.48646	1.84742	3.08279	H	4.77051	-1.25303	3.88646	H	5.74029	4.63859	3.22237								
C	0.42516	2.98474	3.02226	N	4.13402	1.42841	1.68559	H	4.81364	5.74666	2.19752								
H	0.55481	3.29590	4.04683	O	5.43950	3.74311	2.22424	C	3.25714	3.75183	0.96180								
C	2.47128	5.06700	3.04944	H	5.88632	4.48694	1.81546	H	2.89859	4.75187	0.70945								
C	3.10296	4.89348	4.29206	H	2.52573	4.62997	0.96331	H	2.39892	3.07861	0.96428								
C	3.07930	5.95457	5.19605	H	3.70698	4.02993	-0.08767	H	3.92068	3.43273	0.15671								
H	3.57545	5.84155	6.15116	O	2.78993	4.89221	-0.34496	C	3.58680	-0.79222	4.77261								
C	2.42882	7.13754	4.91968	H	3.19809	5.75204	-0.48187	H	2.87986	-0.29704	5.43620								
H	2.43455	7.94697	5.63777	<b>TSS9 (C<sub>1</sub>): E<sub>tot</sub> = -3208.19847345</b>															
C	1.73737	7.25920	3.73166	C	0.35775	4.52503	4.31802	H	5.36568	-0.80795	6.07151								
H	1.17909	8.16582	3.53497	C	0.01205	4.14005	2.99100	H	5.23079	-2.20523	5.03879								
C	1.72451	6.23626	2.79115	H	0.66161	4.19955	2.13052	H	4.17450	-2.07696	6.42742								
C	3.73821	3.61136	4.79069	C	-1.31344	3.64601	2.99907	C	2.76005	-1.83465	4.01624								
H	3.79682	2.89268	3.97554	H	-1.85538	3.26776	2.14479	H	2.28827	-2.52636	4.71633								
C	5.15190	3.82641	5.33009	C	-1.80344	3.72787	4.32711	H	3.37977	-2.42212	3.33715								
H	5.60773	2.86617	5.57020	H	-2.78358	3.42099	4.66138	H	1.97118	-1.36392	3.43348								
H	5.14844	4.41404	6.24952	C	-0.78136	4.26815	5.13923	N	2.95095	2.14099	4.70919								
H	5.78964	4.32418	4.60622	H	-0.84593	4.43809	6.20307	O	4.05494	1.41219	6.92010								
C	2.87639	2.98357	5.89139	C	1.61715	6.44464	5.01473	O	2.75030	2.69126	8.45174								
H	1.87543	2.73216	5.54413	C	1.40874	6.93716	6.32041	H	3.48982	1.94175	7.75829								
H	2.77178	3.65285	6.74661	C	1.47112	8.30907	6.55031	H	2.52705	3.28049	7.57325								
H	3.33888	2.06366	6.25621	H	1.32941	8.68404	7.55681	H	3.27273	3.27134	9.01746								
C	0.82142	6.43931	1.58476	C	1.68968	9.20699	5.52736	H	4.06899	0.45627	7.02565								
H	0.90685	5.60626	0.89328	H	1.72799	10.26987	5.72717	H	3.57700	1.67294	5.95849								
C	1.19223	7.69396	0.79484	C	1.84254	8.72879	4.24152	O	4.21172	4.71611	5.44805								
H	2.24411	7.69111	0.50808	H	1.98871	9.43369	3.43288	H	4.30519	5.32279	4.70880								
H	1.01276	8.60880	1.36155	C	1.81405	7.36668	3.96424	<b>TSS10 (C<sub>1</sub>): E<sub>tot</sub> = -3055.63302411</b>											
H	0.59839	7.75410	-0.11777	C	1.08212	6.07245	7.52211	C	1.17225	3.22262	2.13710								
C	-0.64346	6.47778	2.02501	H	1.00604	5.03396	7.20134	C	0.61369	2.72907	0.92415								
H	-1.29542	6.57740	1.15577	C	2.19215	6.13389	8.57108	H	1.02984	2.84958	-0.06594								
H	-0.85034	7.31640	2.69197	H	3.15411	5.84953	8.14227	C	-0.57607	2.03078	1.24947								

H	-1.22551	1.53276	0.54522	H	5.48477	-0.68421	5.28699	H	-2.31401	4.59670	0.48487
C	-0.76696	2.11102	2.64888	H	6.43992	-1.56382	4.09534	C	-3.63953	2.52757	1.76179
H	-1.58798	1.68401	3.20475	H	4.73422	-1.24143	3.79017	H	-3.21862	3.25209	2.46174
C	0.30891	2.84948	3.20013	N	4.03726	1.45870	1.64865	H	-3.64182	1.55267	2.24944
H	0.44965	3.09571	4.24157	O	5.32800	3.86119	1.98650	H	-4.67778	2.81139	1.57858
C	2.36560	5.02501	3.17792	H	5.71936	3.37989	2.72078	C	-2.52006	-2.01781	-1.93504
C	2.98125	4.93587	4.43546	H	2.77130	4.22364	0.99402	H	-1.64152	-2.10646	-1.29264
C	2.88611	6.02283	5.29899	<b>TSS11 (C<sub>1</sub>): E<sub>tot</sub> = -3055.62830834</b>				C	-2.03059	-2.04187	-3.38339
H	3.34944	5.96782	6.27660	C	1.51638	-1.09022	0.80689	H	-1.35047	-1.21322	-3.57772
C	2.20650	7.17062	4.94179	C	1.06729	-2.41551	0.54964	H	-2.86264	-1.97040	-4.08619
H	2.14137	8.00253	5.63060	H	0.65160	-2.77258	-0.38332	H	-1.49937	-2.97192	-3.59538
C	1.61360	7.24976	3.69523	C	1.21828	-3.17148	1.73883	C	-3.41540	-3.22451	-1.64865
H	1.08507	8.15344	3.41813	H	0.95301	-4.21033	1.86614	H	-2.85748	-4.15298	-1.78095
C	1.68336	6.19536	2.79419	C	1.79996	-2.33293	2.71980	H	-4.27198	-3.26427	-2.32312
C	3.72344	3.70948	4.91823	H	2.05279	-2.61843	3.72982	H	-3.80715	-3.20796	-0.63106
H	3.77699	2.99355	4.09793	C	1.98145	-1.04899	2.15248	N	-1.43216	0.02007	-0.08597
C	5.15249	4.05174	5.34257	H	2.38667	-0.18536	2.65600	O	0.12426	2.12103	-1.46912
H	5.72182	3.14301	5.54587	C	2.60075	0.70640	-0.41848	H	1.03278	2.46458	-1.43985
H	5.17008	4.64779	6.25611	C	3.41951	0.20905	-1.44806	H	0.03692	1.26003	-2.37954
H	5.67475	4.62476	4.57701	C	4.53819	0.94444	-1.82380	<b>TSS12 (C<sub>1</sub>): E<sub>tot</sub> = -3131.90660263</b>			
C	2.98540	3.01839	6.06510	H	5.18293	0.57334	-2.61069	C	1.37864	-0.51548	1.48118
H	1.98683	2.69937	5.76755	C	4.84148	2.14926	-1.21580	C	1.21917	-1.92521	1.55163
H	2.87885	3.67666	6.92869	H	5.71023	2.71273	-1.53032	H	1.08314	-2.59275	0.71129
H	3.53162	2.13203	6.39547	C	4.03639	2.62596	-0.19830	C	1.24789	-2.29575	2.91636
C	0.99722	6.34756	1.45152	H	4.29045	3.56230	0.28397	H	1.14469	-3.29957	3.29924
H	1.28607	5.51790	0.80474	C	2.91686	1.91618	0.22786	C	1.44595	-1.12327	3.68332
C	1.42781	7.62305	0.72788	C	3.14323	-1.11691	-2.12269	H	1.51491	-1.07042	4.75930
H	2.51135	7.67171	0.62088	H	2.12619	-1.42175	-1.87588	C	1.52116	-0.01783	2.80343
H	1.10311	8.52490	1.24869	C	3.20954	-1.02893	-3.64548	H	1.63969	1.00753	3.10571
H	0.99012	7.65376	-0.27093	H	4.21196	-0.79735	-4.00874	C	2.67438	0.70926	-0.20257
C	-0.52280	6.28438	1.60808	H	2.52835	-0.26744	-4.02595	C	3.33724	-0.02032	-1.20182
H	-1.01256	6.35784	0.63573	H	2.92081	-1.98296	-4.08847	C	4.61216	0.38606	-1.57514
H	-0.89027	7.10460	2.22773	C	4.09015	-2.18899	-1.58141	H	5.14648	-0.17091	-2.33380
H	-0.83600	5.34820	2.06999	H	3.86886	-3.15972	-2.02832	C	5.20966	1.49118	-1.00496
Fe	1.04254	1.21048	2.21978	H	3.99547	-2.28984	-0.50020	H	6.20344	1.79238	-1.30798
N	2.39378	3.93096	2.26416	H	5.13103	-1.94853	-1.80668	C	4.51881	2.21981	-0.06058
Si	3.98257	3.19738	1.28057	C	2.12710	2.44350	1.40953	H	4.97935	3.10305	0.36208
C	2.96973	0.62836	2.04726	H	1.31960	1.73784	1.60745	C	3.24228	1.85859	0.36146
C	2.14722	-0.16709	1.19445	C	1.49567	3.81279	1.15336	C	2.76660	-1.22369	-1.93273
H	2.22694	-0.23194	0.12021	H	0.76302	3.78640	0.34778	H	1.71986	-1.39829	-1.66279
C	1.19604	-0.83869	1.99419	H	2.24639	4.56428	0.90233	C	2.74085	-0.97983	-3.44122
H	0.42708	-1.50709	1.63630	H	0.97726	4.16192	2.04817	H	3.74348	-0.86419	-3.85311
C	1.41693	-0.47086	3.34476	C	3.01448	2.51263	2.65572	H	2.17026	-0.08150	-3.67292
H	0.84954	-0.81243	4.19776	H	2.41689	2.74321	3.53919	H	2.27397	-1.82084	-3.95439
C	2.51712	0.41828	3.38155	H	3.77322	3.29164	2.56385	C	3.52220	-2.50109	-1.56824
H	2.92822	0.87973	4.26707	H	3.54008	1.57536	2.83793	H	3.07631	-3.36529	-2.06324
C	5.18984	0.77628	1.14166	Fe	0.00476	-1.53376	2.05575	H	3.50883	-2.68030	-0.49247
C	5.36085	0.57885	-0.24026	N	1.40872	0.01100	-0.06327	H	4.56657	-2.44768	-1.87820
C	6.50989	-0.07109	-0.68322	Si	-0.01664	0.27112	-1.07468	C	2.59383	2.76132	1.39261
H	6.66115	-0.22017	-1.74541	C	-1.49166	-0.46869	1.23655	H	1.59030	2.39551	1.61530
C	7.45861	-0.54129	0.20232	C	-1.04245	0.18064	2.41870	C	2.41715	4.18482	0.85943
H	8.33877	-1.05377	-0.16337	H	-0.61528	1.17166	2.46940	H	1.81333	4.21200	-0.04648
C	7.27702	-0.35126	1.55970	C	-1.21119	-0.71318	3.50462	H	3.37981	4.65399	0.64901
H	8.02412	-0.72481	2.24917	H	-0.94843	-0.51600	4.53325	H	1.91814	4.79801	1.61241
C	6.16107	0.31592	2.04881	C	-1.80045	-1.90223	3.00830	C	3.41064	2.78607	2.68931
C	4.36076	1.03286	-1.28544	H	-2.06212	-2.77210	3.59194	H	2.86151	3.30858	3.47481
H	3.48350	1.44008	-0.77903	C	-1.97363	-1.75729	1.61333	H	4.35103	3.32116	2.54990
C	4.93421	2.15188	-2.15464	H	-2.38845	-2.49548	0.94384	H	3.66029	1.78837	3.05016
H	5.81577	1.81981	-2.70580	C	-2.68883	0.24453	-0.73145	Fe	-0.27067	-0.94023	2.55519
H	5.22008	3.01448	-1.55261	C	-3.37429	1.44334	-0.47678	N	1.36263	0.21752	0.23403
H	4.19481	2.48839	-2.88339	C	-4.59956	1.65510	-1.09756	Si	-0.22880	1.38555	-0.28449
C	3.88721	-0.13418	-2.15441	H	-5.14693	2.56903	-0.90168	C	-1.75164	-0.20737	1.38823
H	3.08139	0.18776	-2.81607	C	-5.12847	0.72341	-1.97171	C	-1.64907	0.56679	2.57791
H	3.51997	-0.96569	-1.55213	H	-6.07963	0.90820	-2.45389	H	-1.42195	1.62292	2.62461
H	4.68719	-0.52230	-2.78661	C	-4.43517	-0.44370	-2.22979	C	-1.85852	-0.29453	3.68353
C	6.01998	0.49732	3.54423	H	-4.85410	-1.16473	-2.92134	H	-1.83340	-0.00593	4.72391
H	5.20251	1.19892	3.72201	C	-3.21687	-0.71211	-1.61333	C	-2.12449	-1.59275	3.18473
C	7.27843	1.09053	4.17789	C	-2.83371	2.49877	0.46282	H	-2.33691	-2.46956	3.77794
H	7.56721	2.03156	3.70654	H	-1.80638	2.23623	0.71210	C	-2.05497	-1.54384	1.77211
H	8.13316	0.41715	4.10498	C	-2.78313	3.87879	-0.19042	H	-2.20428	-2.37353	1.09777
H	7.11609	1.28324	5.23957	H	-3.77648	4.26263	-0.42857	C	-2.58631	0.04098	-0.84114
C	5.64608	-0.82430	4.21616	H	-2.19947	3.85393	-1.10971	C	-3.65364	0.95159	-0.83427

C	-4.72370	0.73350	-1.69458	H	3.37907	1.86048	3.18709	H	1.85315	4.75396	0.33930							
H	-5.55820	1.42443	-1.69577	Fe	-0.33891	-0.88358	2.41697	H	0.33388	4.34725	1.14232							
C	-4.73966	-0.34776	-2.55532	N	1.41176	0.05114	0.07959	H	0.38024	5.62829	-0.06475							
H	-5.57897	-0.50174	-3.22089	Si	-0.18049	1.33357	-0.63543	C	-3.75284	0.71856	-0.66768							
C	-3.67344	-1.22735	-2.56657	C	-1.72948	0.13678	1.34704	H	-3.05959	-0.00858	-0.24270							
H	-3.68737	-2.06517	-3.25330	C	-1.29967	0.92365	2.44959	C	-4.27146	0.14204	-1.98628							
C	-2.58707	-1.05334	-1.71614	H	-0.83625	1.89858	2.38602	H	-3.45208	-0.06674	-2.67502							
C	-3.68375	2.16416	0.07138	C	-1.57825	0.20497	3.64058	H	-4.95124	0.83280	-2.48723							
H	-2.73379	2.22783	0.60286	H	-1.36413	0.53880	4.64492	H	-4.83054	-0.78155	-1.81619							
C	-3.81849	3.45800	-0.73068	C	-2.20966	-1.00930	3.28083	C	-4.90626	0.90789	0.31926							
H	-4.76923	3.51706	-1.26228	H	-2.55696	-1.77131	3.96233	H	-5.34652	-0.05537	0.58310							
H	-3.02119	3.54281	-1.46954	C	-2.29842	-1.05793	1.86814	H	-5.70347	1.52319	-0.10098							
H	-3.75974	4.32391	-0.06930	H	-2.72656	-1.85570	1.27943	H	-4.57814	1.39248	1.23868							
C	-4.78210	2.03804	1.12616	C	-2.69221	0.20408	-0.84548	Fe	-0.06032	-0.18084	2.49400							
H	-4.77099	2.89722	1.79914	C	-3.79229	1.07104	-0.73075	N	-0.85972	1.11391	-0.12236							
H	-4.64700	1.13882	1.72759	C	-4.92913	0.80761	-1.48406	Si	-0.15772	-0.06446	-1.22592							
H	-5.77275	1.98933	0.67037	H	-5.79155	1.45708	-1.39683	C	0.62536	-1.48025	1.13837							
C	-1.43866	-2.03282	-1.79524	C	-4.97591	-0.26519	-2.35604	C	-0.56742	-1.99023	1.72190							
H	-0.75098	-1.80284	-0.97689	H	-5.86818	-0.45444	-2.93852	H	-1.47949	-2.19441	1.17810							
C	-0.68559	-1.86004	-3.11341	C	-3.87250	-1.08544	-2.48983	C	-0.34799	-2.12147	3.11530							
H	-0.32020	-0.83962	-3.22227	H	-3.91067	-1.91272	-3.18832	H	-1.06924	-2.46815	3.84050							
H	-1.33240	-2.07657	-3.96545	C	-2.71664	-0.87035	-1.74515	C	0.98505	-1.72614	3.39241							
H	0.16299	-2.54609	-3.16917	C	-3.77886	2.27513	0.18715	H	1.45617	-1.71879	4.36391							
C	-1.89040	-3.48185	-1.61589	H	-2.75640	2.43107	0.53452	C	1.59066	-1.33403	2.17442							
H	-1.02787	-4.15002	-1.58245	C	-4.18593	3.55380	-0.54462	H	2.60151	-0.97506	2.04823							
H	-2.52216	-3.81527	-2.44039	H	-5.22758	3.53293	-0.86859	C	1.92166	-1.79356	-0.84293							
H	-2.45937	-3.62278	-0.69626	H	-3.56601	3.71912	-1.42583	C	1.85902	-3.16494	-1.14656							
N	-1.50532	0.22336	0.07685	H	-4.07112	4.41658	0.11344	C	2.96090	-3.77412	-1.73214							
H	1.11075	-0.48491	-0.45958	C	-4.65818	2.03986	1.41571	H	2.92714	-4.83187	-1.96281							
O	0.02030	1.40873	-1.88776	H	-4.61175	2.89451	2.09296	C	4.10277	-3.05438	-2.03479							
H	-0.15857	2.98351	-0.15970	H	-4.34189	1.15689	1.97098	H	4.94822	-3.54329	-2.50097							
O	0.02908	3.77700	-1.40090	H	-5.70284	1.89920	1.13092	C	4.15684	-1.70891	-1.73266							
H	-0.77700	4.27121	-1.57059	C	-1.54965	-1.81215	-1.94013	H	5.05597	-1.15119	-1.96523							
H	0.05267	2.49200	-1.96322	H	-0.73449	-1.46230	-1.30711	C	3.08634	-1.06031	-1.12207							
<b>TSS13 (C<sub>1</sub>): E<sub>tot</sub> = -3055.59499167</b>																		
C	1.29194	-0.80846	1.22916	H	-0.76617	-0.77614	-3.66795	H	-0.16677	-3.32594	-0.55964							
C	0.73734	-2.11463	1.19193	H	-1.80180	-2.15116	-4.08018	C	0.17012	-4.81304	-2.03800							
H	0.34433	-2.61665	0.31852	H	-0.16915	-2.42934	-3.49079	H	0.89130	-5.57693	-2.33166							
C	0.75473	-2.62920	2.51133	C	-1.89405	-3.23385	-1.49739	H	-0.00186	-4.17605	-2.90681							
H	0.39273	-3.60050	2.81233	H	-1.03091	-3.89374	-1.61000	H	-0.76225	-5.33380	-1.80911							
C	1.33690	-1.65323	3.35324	H	-2.70356	-3.65714	-2.09408	C	0.90819	-4.91313	0.36919							
H	1.49781	-1.74298	4.41686	H	-2.20571	-3.26749	-0.45262	H	0.01378	-5.48223	0.63035							
C	1.67099	-0.52610	2.56602	N	-1.55438	0.42320	-0.01141	H	1.20231	-4.33680	1.24592							
H	2.12799	0.37690	2.93059	O	0.06803	1.18034	-2.20495	H	1.70473	-5.62825	0.15382							
C	2.73622	0.62672	-0.12914	H	1.24301	-0.54245	-0.72983	C	3.24849	0.40437	-0.77538							
C	3.61438	-0.06552	-0.97991	H	0.33843	2.46496	-1.52628	H	2.36666	0.72535	-0.21762							
C	4.85387	0.49818	-1.24847	<b>TSS14 (C<sub>1</sub>): E<sub>tot</sub> = -3035.84529028</b>														
H	5.53946	-0.00886	-1.91377	C	-0.71615	1.26340	1.27934	H	2.45176	1.15915	-2.65421							
C	5.23119	1.69926	-0.67890	C	0.44356	1.71577	1.97251	H	4.20294	0.97517	-2.64724							
H	6.20068	2.12590	-0.89918	H	1.38085	2.00281	1.51853	H	3.45991	2.31491	-1.78116							
C	4.36612	2.34684	0.17691	C	0.17181	1.67369	3.36187	C	4.45467	0.64253	0.13400							
H	4.67404	3.28237	0.62605	H	0.86038	1.94014	4.14980	H	4.49386	1.68737	0.44697							
C	3.10484	1.83529	0.47606	C	-1.16162	1.22736	3.53535	H	5.39710	0.41932	-0.36817							
C	3.24826	-1.37051	-1.66539	H	-1.66692	1.09002	4.47966	H	4.40978	0.02628	1.03226							
H	2.46410	-1.87743	-1.09395	C	-1.71276	0.97888	2.25724	N	0.80857	-1.14630	-0.21825							
C	2.71797	-1.09204	-3.07444	H	-2.70434	0.60417	2.05543	N	-2.39758	-2.54473	-1.33291							
H	3.49946	-0.64384	-3.69045	C	-1.63225	2.17318	-0.71528	H	-3.33744	-2.27784	-1.58685							
H	1.87201	-0.40329	-3.07002	C	-1.00561	3.38693	-1.04888	H	-2.42796	-3.51348	-1.04632							
H	2.40259	-2.01794	-3.55860	C	-1.78223	4.43193	-1.53704	H	-1.84628	-2.50990	-2.17934							
C	4.40300	-2.37016	-1.70045	H	-1.31150	5.37584	-1.78291	<b>TSS15 (C<sub>1</sub>): E<sub>tot</sub> = -3035.78641554</b>										
H	4.04620	-3.32995	-2.07507	C	-3.14382	4.29243	-1.71997	C	1.61144	-1.23436	0.50975							
H	4.82473	-2.53208	-0.70870	H	-3.73225	5.11812	-2.09819	C	1.14861	-2.53714	0.17285							
H	5.20761	-2.05217	-2.36409	C	-3.74365	3.08422	-1.42806	H	0.68437	-2.82082	-0.76258							
C	2.26089	2.63284	1.45346	H	-4.80859	2.97190	-1.59186	C	1.37413	-3.38689	1.28539							
H	1.32179	2.10419	1.63034	C	-3.01144	2.01239	-0.92643	H	1.12248	-4.43543	1.34099							
C	1.90553	4.01561	0.90667	C	0.48232	3.62335	-0.90765	C	2.01216	-2.62687	2.29413							
H	1.34290	3.93781	-0.02008	H	0.95808	2.68187	-0.62890	H	2.32947	-2.99137	3.25953							
H	2.79798	4.61528	0.72197	C	1.10206	4.05933	-2.23548	C	2.15458	-1.29888	1.82267							
H	1.29019	4.55775	1.62709	H	0.70316	5.01436	-2.57988	H	2.59828	-0.47622	2.36150							
C	2.97654	2.79656	2.80059	H	0.92154	3.32174	-3.01739	C	2.56595	0.76046	-0.46374							
H	2.29155	3.20431	3.54526	H	2.18107	4.18139	-2.13194	C	3.58937	0.32151	-1.32426							
H	3.81542	3.48934	2.72228	C	0.77675	4.64424	0.19217	C	4.71087	1.12422	-1.49416							

H	5.51334	0.79189	-2.14110	TSS16 (C <sub>1</sub> ): E <sub>tot</sub> = -3035.81253805			C	-2.47718	-2.28921	-3.35712	
C	4.81879	2.34939	-0.86105	C	1.56385	-0.94473	0.84412	H	-1.89682	-1.44278	-3.72473
H	5.69765	2.96328	-1.00921	C	1.26558	-2.33054	0.71807	H	-3.39751	-2.32438	-3.94197
C	3.79567	2.78675	-0.04191	H	0.94240	-2.83280	-0.18266	H	-1.92305	-3.20598	-3.57099
H	3.88766	3.74758	0.45005	C	1.43924	-2.93376	1.98873	C	-3.63278	-3.33973	-1.39284
C	2.66098	2.00970	0.17640	H	1.27715	-3.97571	2.22090	H	-3.10142	-4.28347	-1.52999
C	3.51218	-1.00464	-2.05002	C	1.86875	-1.93342	2.89341	H	-4.56415	-3.40870	-1.95683
H	2.48533	-1.36720	-1.99059	H	2.09158	-2.07598	3.94009	H	-3.90000	-3.25019	-0.34003
C	3.83852	-0.87244	-3.53701	C	1.95119	-0.70762	2.19039	N	-1.50386	-0.09939	-0.18812
H	4.87882	-0.59473	-3.71372	H	2.25717	0.24136	2.60197	N	0.43032	-0.70887	-2.25283
H	3.20670	-0.12524	-4.01789	C	2.64488	0.88625	-0.23473	H	1.32297	-0.59751	-1.31499
H	3.67114	-1.82461	-4.04239	C	3.83211	0.40544	-0.81573	H	0.67463	-0.44289	-3.19754
C	4.41526	-2.04087	-1.37937	C	4.93798	1.24504	-0.87092	H	-0.07625	-1.58492	-2.27280
H	4.32681	-3.00845	-1.87632	H	5.85942	0.88576	-1.31228	TSS17 (C <sub>1</sub> ): E <sub>tot</sub> = -3035.78585865			
H	4.15216	-2.18038	-0.33112	C	4.88734	2.53154	-0.36911	C	1.19668	3.27831	2.57638
H	5.46329	-1.73754	-1.42554	H	5.75549	3.17491	-0.42657	C	0.41409	2.95343	1.43162
C	1.60345	2.52335	1.13182	C	3.72288	2.98412	0.21793	H	0.65438	3.19437	0.40604
H	0.74338	1.85745	1.06284	H	3.69304	3.98813	0.62329	C	-0.72509	2.23589	1.87478
C	1.12677	3.93369	0.78685	C	2.59132	2.17860	0.31124	H	-1.50671	1.84267	1.24206
H	0.73135	3.99759	-0.22686	C	3.98604	-1.01002	-1.33853	C	-0.66341	2.13702	3.28462
H	1.92454	4.67225	0.87755	H	3.01334	-1.49984	-1.35948	H	-1.38905	1.65354	3.92117
H	0.32893	4.23805	1.46594	C	4.51558	-1.04445	-2.77152	C	0.52031	2.78185	3.72127
C	2.10629	2.49347	2.57595	H	5.53238	-0.65725	-2.84794	H	0.85173	2.88753	4.74300
H	1.32659	2.82655	3.26397	H	3.88787	-0.45528	-3.44080	C	2.63258	4.92370	3.57390
H	2.96712	3.15073	2.71096	H	4.53364	-2.07004	-3.14340	C	3.46700	4.68651	4.67785
H	2.40782	1.49268	2.87952	C	4.86655	-1.83188	-0.39627	C	3.57984	5.67574	5.64998
Fe	0.17290	-1.79804	1.81274	H	4.94938	-2.86207	-0.74695	H	4.21042	5.50312	6.51369
N	1.43151	-0.06596	-0.24953	H	4.44881	-1.85382	0.61034	C	2.89719	6.87194	5.54640
Si	-0.05965	0.04959	-1.19756	H	5.87537	-1.42006	-0.33297	H	2.99549	7.62491	6.31733
C	-1.39119	-0.67369	1.19839	C	1.38455	2.75048	1.02653	C	2.08978	7.10015	4.44744
C	-0.86731	-0.14487	2.41123	H	0.60507	1.98715	1.06036	H	1.55871	8.04073	4.36848
H	-0.44227	0.83965	2.53841	C	0.81741	3.96253	0.29010	C	1.94614	6.14754	3.44698
C	-0.95584	-1.14493	3.40985	H	0.52268	3.69957	-0.72453	C	4.22586	3.39472	4.88533
H	-0.62795	-1.04764	4.43412	H	1.54423	4.77509	0.23948	H	4.12661	2.78975	3.98423
C	-1.56322	-2.28766	2.83342	H	-0.06383	4.34494	0.80798	C	5.71548	3.64814	5.11433
H	-1.77571	-3.21732	3.34000	C	1.70657	3.11700	2.47716	H	6.26578	2.70622	5.12876
C	-1.82899	-2.00519	1.47496	H	0.80311	3.44799	2.99245	H	5.90320	4.14103	6.06946
H	-2.27443	-2.68525	0.76582	H	2.43076	3.93049	2.53901	H	6.13473	4.27855	4.33185
C	-2.69107	0.31341	-0.59879	H	2.11537	2.27488	3.03472	C	3.64889	2.58571	6.04788
C	-3.25046	1.55971	-0.25824	Fe	0.04068	-1.42881	2.06957	H	2.60198	2.33181	5.88475
C	-4.48505	1.91266	-0.79019	N	1.50282	0.00973	-0.20785	H	3.71285	3.13522	6.98857
H	-4.93550	2.85975	-0.52004	Si	-0.18811	0.72942	-1.11372	H	4.19962	1.65110	6.17707
C	-5.15077	1.07591	-1.66695	C	-1.52672	-0.58320	1.13537	C	1.03076	6.45955	2.27998
H	-6.10794	1.36836	-2.07880	C	-1.23059	0.14275	2.32670	H	1.17038	5.70474	1.50493
C	-4.58545	-0.13502	-2.01447	H	-0.93884	1.18161	2.37978	C	1.35935	7.80423	1.63204
H	-5.11107	-0.78303	-2.70547	C	-1.34112	-0.73804	3.42936	H	2.40608	7.85549	1.33206
C	-3.36301	-0.54472	-1.48868	H	-1.15847	-0.48505	4.46325	H	1.16234	8.64539	2.29815
C	-2.56343	2.51012	0.69777	C	-1.74191	-2.00474	2.93902	H	0.74766	7.95069	0.74063
H	-1.52732	2.18457	0.80146	H	-1.91434	-2.88989	3.53315	C	-0.43579	6.39701	2.70932
C	-2.53399	3.94601	0.17662	C	-1.85867	-1.91330	1.53302	H	-1.09437	6.58965	1.86073
H	-3.53080	4.38054	0.09173	H	-2.12650	-2.72169	0.87037	H	-0.65396	7.14321	3.47585
H	-2.06332	4.00800	-0.80595	C	-2.80148	0.14816	-0.74678	H	-0.68943	5.41699	3.11291
H	-1.96493	4.58381	0.85403	C	-3.45882	1.37019	-0.50750	Fe	1.00631	1.27288	2.42982
C	-3.21753	2.44668	2.07877	C	-4.72210	1.57418	-1.05204	N	2.44902	3.93750	2.56541
H	-2.68928	3.08629	2.78898	H	-5.23864	2.50745	-0.86349	Si	3.82868	3.28408	1.21375
H	-3.21224	1.43127	2.47375	C	-5.33555	0.61148	-1.82994	C	2.85751	0.68110	1.86807
H	-4.25523	2.78364	2.03762	H	-6.31905	0.78982	-2.24486	C	1.87632	0.02158	1.06882
C	-2.83764	-1.90462	-1.90013	C	-4.68101	-0.57964	-2.07504	H	1.78048	0.09636	-0.00354
H	-1.89889	-2.08632	-1.37416	H	-5.16319	-1.33054	-2.68972	C	1.03873	-0.72990	1.92283
C	-2.52695	-1.96056	-3.39533	C	-3.42013	-0.83192	-1.54478	H	0.19500	-1.32953	1.61497
H	-1.77733	-1.21626	-3.66086	C	-2.86319	2.47756	0.33428	C	1.48898	-0.54718	3.25427
H	-3.41803	-1.78547	-4.00090	H	-1.83351	2.21240	0.57544	H	1.05188	-0.98578	4.13904
H	-2.13347	-2.94193	-3.66674	C	-2.80417	3.79837	-0.43100	C	2.61550	0.30865	3.22127
C	-3.81555	-3.01640	-1.51224	H	-3.79587	4.16555	-0.69952	H	3.18173	0.64486	4.07716
H	-3.37368	-3.99632	-1.70100	H	-2.22337	3.68951	-1.34677	C	4.92572	0.84963	0.67442
H	-4.73918	-2.96165	-2.09065	H	-2.32922	4.57001	0.17683	C	4.88522	0.78451	-0.72981
H	-4.09284	-2.96616	-0.45897	C	-3.62485	2.62960	1.65123	C	5.91429	0.12795	-1.39945
N	-1.41653	-0.03497	-0.06134	H	-3.15472	3.38586	2.28319	H	5.89975	0.08015	-2.48161
N	0.09195	1.78471	-1.90901	H	-3.64704	1.69212	2.20664	C	6.94995	-0.47510	-0.71459
H	-0.77833	2.26863	-2.09995	H	-4.65744	2.94040	1.48135	H	7.73362	-0.99101	-1.25392
H	0.08037	0.68583	-2.70735	C	-2.77496	-2.16329	-1.86131	C	6.97754	-0.41375	0.66617
H	0.86579	2.43029	-1.76350	H	-1.83002	-2.21037	-1.31687	H	7.79099	-0.89110	1.19870

C	5.98773	0.25317	1.37755	H	-1.10399	0.64889	4.60569	H	1.38069	4.76297	-0.21062							
C	3.78049	1.39747	-1.56778	C	-2.06270	-0.87646	3.29100	H	-0.29558	4.32999	0.08578							
H	3.00634	1.78470	-0.90254	H	-2.35326	-1.65147	3.98451	C	1.15782	3.30721	2.15492							
C	4.29953	2.58158	-2.38362	C	-2.26538	-0.90233	1.88821	H	0.17798	3.68508	2.45359							
H	5.06911	2.27223	-3.09313	H	-2.74914	-1.68723	1.32537	H	1.87092	4.12313	2.28016							
H	4.72872	3.34815	-1.73800	C	-2.91691	0.22969	-0.75900	H	1.43228	2.51869	2.85456							
H	3.48958	3.04287	-2.95114	C	-4.15540	0.87183	-0.59176	Fe	-0.06303	-1.20050	2.23046							
C	3.11970	0.36267	-2.48048	C	-5.23736	0.43034	-1.34243	N	1.53984	-0.04991	-0.13426							
H	2.25442	0.79774	-2.98335	H	-6.20290	0.90585	-1.21971	Si	-0.10260	0.12171	-1.16414							
H	2.78332	-0.51196	-1.92292	C	-5.10257	-0.60048	-2.25663	C	-1.60437	-0.41948	1.18869							
H	3.79938	0.00907	-3.25722	H	-5.95440	-0.92347	-2.84070	C	-1.37258	0.35414	2.36353							
C	6.07879	0.28726	2.88720	C	-3.87565	-1.21360	-2.42127	H	-1.10694	1.40080	2.38861							
H	5.34357	1.00768	3.24975	H	-3.77738	-2.01794	-3.14047	C	-1.52548	-0.48945	3.48912							
C	7.45134	0.75100	3.37493	C	-2.76852	-0.82178	-1.67308	H	-1.39966	-0.19877	4.52158							
H	7.72408	1.72197	2.95827	C	-4.34416	2.01446	0.38238	C	-1.87486	-1.78165	3.02394							
H	8.24279	0.04953	3.10823	H	-3.36541	2.31065	0.76093	H	-2.05585	-2.64981	3.64027							
H	7.45935	0.84019	4.46244	C	-4.94811	3.24401	-0.29488	C	-1.92598	-1.74208	1.61197							
C	5.73093	-1.07799	3.48206	H	-5.96478	3.06475	-0.64811	H	-2.13864	-2.57682	0.96251							
H	5.72417	-1.03637	4.57334	H	-4.34973	3.55857	-1.15060	C	-2.79283	0.26071	-0.79272							
H	6.46165	-1.83281	3.18501	H	-4.99282	4.07834	0.40664	C	-3.46003	1.49024	-0.63715							
H	4.74978	-1.41715	3.15217	C	-5.17767	1.57208	1.58519	C	-4.69769	1.66820	-1.24415							
N	3.89422	1.52089	1.40770	H	-5.28283	2.38889	2.30104	H	-5.22642	2.60441	-1.11569							
H	2.61401	4.34452	1.28762	H	-4.70802	0.73494	2.10170	C	-5.27044	0.67384	-2.01358							
N	5.38235	3.81834	1.69045	H	-6.18066	1.26349	1.28402	H	-6.23288	0.83232	-2.48245							
H	5.77691	4.67010	1.33307	C	-1.45811	-1.55210	-1.86664	C	-4.60271	-0.52212	-2.17994							
H	6.03144	3.28362	2.24434	H	-0.75239	-1.15666	-1.13408	H	-5.05350	-1.29800	-2.78677							
<b>TSS18 (C<sub>1</sub>): E<sub>tot</sub> = -3035.72935412</b>																		
C	1.44833	-0.80191	1.13738	H	-0.68538	-0.25493	-3.43651	C	-2.90355	2.62390	0.19400							
C	0.80429	-2.06596	1.13227	H	-1.55374	-1.66370	-4.04182	H	-1.86303	2.39004	0.42410							
H	0.42855	-2.58472	0.26183	H	0.06642	-1.84792	-3.38343	C	-2.91542	3.95028	-0.56529							
C	0.74295	-2.53707	2.46967	C	-1.60509	-3.04732	-1.58536	H	-3.92735	4.27759	-0.80703							
H	0.31420	-3.47519	2.78929	H	-0.64170	-3.55310	-1.67873	H	-2.35537	3.88090	-1.49772							
C	1.35339	-1.56795	3.29819	H	-2.28836	-3.52995	-2.28555	H	-2.46632	4.74018	0.03911							
H	1.46964	-1.62744	4.37005	H	-1.98186	-3.22703	-0.57797	C	-3.66973	2.75261	1.51182							
C	1.77316	-0.48863	2.48116	N	-1.80100	0.68476	-0.00029	H	-3.22071	3.51740	2.14939							
H	2.27430	0.40427	2.82036	N	-0.99243	2.26542	-2.28133	H	-3.67782	1.81411	2.06498							
C	3.08958	0.42976	-0.12842	H	1.39517	-0.43946	-0.82952	H	-4.70769	3.04095	1.33462							
C	4.01917	-0.41258	-0.76336	H	-1.00425	3.32568	-1.03268	C	-2.73397	-2.11317	-1.80091							
C	5.32802	0.02753	-0.90539	H	-1.73614	1.91707	-2.88977	H	-1.78161	-2.15187	-1.27184							
H	6.05855	-0.60051	-1.39779	<b>TSS19 (C<sub>1</sub>): E<sub>tot</sub> = -3035.81378984</b>														
C	5.72304	1.25895	-0.41148	C	1.52921	-0.85929	1.05195	H	-1.81931	-1.53299	-3.69166							
H	6.74942	1.58377	-0.52172	C	1.24209	-2.25040	1.06492	H	-3.33588	-2.40196	-3.88064							
C	4.80180	2.07112	0.21797	H	0.96621	-2.83391	0.19874	H	-1.87939	-3.27507	-3.41917							
H	5.11721	3.03755	0.59154	C	1.34516	-2.69005	2.40617	C	-3.62430	-3.23898	-1.26945							
C	3.47267	1.68108	0.36546	H	1.17032	-3.69715	2.75404	H	-3.10713	-4.19805	-1.33456							
C	3.59955	-1.74974	-1.34030	C	1.71459	-1.58351	3.20947	H	-4.54765	-3.32966	-1.84409							
H	2.77539	-2.14077	-0.73930	H	1.87410	-1.59698	4.27712	H	-3.90896	-3.07668	-0.22971							
C	3.10636	-1.56959	-2.77917	C	1.83826	-0.44854	2.37238	N	-1.53240	0.04741	-0.14036							
H	3.91664	-1.22021	-3.42097	H	2.12749	0.54341	2.68162	N	0.54829	-1.14224	-2.00368							
H	2.30324	-0.83403	-2.85724	C	2.62257	0.91117	-0.16007	H	1.60339	-0.77177	-1.02331							
H	2.73657	-2.51131	-3.18958	C	3.88008	0.44711	-0.58230	H	-0.14242	1.49441	-1.73033							
C	4.69461	-2.81133	-1.28479	C	4.93834	1.34588	-0.60162	H	0.25092	-1.60151	-2.84523							
H	4.28998	-3.77836	-1.58565	H	5.91197	1.01593	-0.93944	<b>TSS26 (C<sub>1</sub>): E<sub>tot</sub> = -3005.98119875</b>										
H	5.09726	-2.91656	-0.27766	C	4.77503	2.65676	-0.19323	C	1.43016	-0.72275	-1.18326							
H	5.52281	-2.59082	-1.95973	H	5.61356	3.34042	-0.20913	C	1.03173	-0.12705	-2.41314							
C	2.49741	2.65171	0.99375	C	3.53620	3.08738	0.23349	H	0.69348	0.89122	-2.54078							
H	1.54172	2.14065	1.12317	H	3.41602	4.11526	0.55217	C	1.11251	-1.11021	-3.42802							
C	2.26270	3.83719	0.05699	C	2.43643	2.23246	0.25761	H	0.85989	-0.96892	-4.46829							
H	1.92616	3.50858	-0.92577	C	4.12411	-0.97209	-1.06076	C	1.59409	-2.30706	-2.84244							
H	3.17577	4.42027	-0.07971	H	3.31444	-1.61936	-0.72146	H	1.76956	-3.23939	-3.35805							
H	1.49826	4.50280	0.46147	C	4.13171	-1.01757	-2.58965	C	1.78995	-2.07468	-1.46238							
C	2.95535	3.14196	2.36731	H	4.92585	-0.39007	-2.99836	H	2.13219	-2.80072	-0.74180							
H	2.18175	3.76066	2.82474	H	3.17951	-0.67568	-2.99444	C	2.70871	0.20350	0.65757							
H	3.85833	3.75135	2.30509	H	4.29583	-2.03763	-2.94073	C	3.32308	1.42684	0.34165							
H	3.16862	2.31827	3.04931	C	5.40126	-1.57430	-0.47715	C	4.57330	1.70509	0.88031							
Fe	-0.25925	-0.76016	2.31844	H	5.47047	-2.62768	-0.75061	H	5.06795	2.63640	0.63344							
N	1.72835	0.00227	0.01518	H	5.40981	-1.51023	0.61091	C	5.19744	0.81632	1.73597							
Si	-0.68971	1.83565	-0.71060	H	6.30331	-1.08862	-0.85169	H	6.16962	1.05097	2.14948							
C	-1.75205	0.30663	1.34831	C	1.11159	2.80680	0.71073	C	4.56904	-0.36779	2.06805							
C	-1.21361	1.06630	2.41877	H	0.35081	2.02576	0.67083	H	5.05801	-1.05180	2.75112							
H	-0.75149	2.04026	2.33656	C	0.67128	3.93437	-0.22219	C	3.32442	-0.69827	1.54045							
C	-1.40209	0.33076	3.61776	H	0.57954	3.58799	-1.25061	C	2.67790	2.44668	-0.57015							

H	1.64041	2.14933	-0.73278	H	2.59444	-3.32622	-2.71488	Fe	0.30109	-2.11986	-1.51034
C	2.64724	3.83787	0.06118	C	2.22650	-1.44234	-1.58814	N	1.38255	0.05171	0.25480
H	3.64744	4.25043	0.20059	H	2.61294	-0.68103	-2.24821	N	-1.47139	-0.18818	-0.02200
H	2.15643	3.82066	1.03472	C	-1.36028	-1.05334	-1.13646	H	-0.03496	3.30984	3.36109
H	2.10018	4.53316	-0.57708	C	-1.68017	-2.44439	-1.15777	H	1.59754	2.91761	2.24539
C	3.37296	2.47559	-1.93170	H	-2.08149	-3.01605	-0.33548	H	0.82182	1.49366	3.43323
H	2.87182	3.17104	-2.60806	C	-1.35739	-2.95104	-2.43622	Si	-0.14828	0.24685	1.03453
H	3.37308	1.49127	-2.39947	H	-1.47536	-3.97452	-2.75933	H	-0.24345	-0.48386	2.31298
H	4.41144	2.79852	-1.83694	C	-0.83749	-1.88740	-3.21457	B	0.59836	2.47586	2.75579
C	2.69966	-2.01403	1.95402	H	-0.49278	-1.95708	-4.23545	N	-0.39960	1.96720	1.50839
H	1.74743	-2.12194	1.43115	C	-0.85777	-0.71348	-2.42412	<b>TSS21 (C<sub>1</sub>): E<sub>tot</sub> = -3062.39957172</b>			
C	2.40312	-2.04248	3.45417	H	-0.51301	0.26360	-2.73052	C	1.61151	-0.85278	1.10966
H	1.76483	-1.21099	3.75026	C	2.49450	0.95022	0.27628	C	1.16033	-2.17883	1.34240
H	3.31904	-1.98600	4.04481	C	3.55319	0.69412	1.15980	H	0.69610	-2.82149	0.60698
H	1.89465	-2.96894	3.72683	C	4.67970	1.50311	1.09443	C	1.38065	-2.48361	2.70976
C	3.58570	-3.20060	1.56840	H	5.51090	1.31500	1.76248	H	1.13253	-3.41431	3.19814
H	3.07051	-4.14314	1.76171	C	4.75571	2.55635	0.20174	C	1.99385	-1.36112	3.31822
H	4.51124	-3.21412	2.14611	H	5.64076	3.17798	0.16750	H	2.29503	-1.28472	4.35225
H	3.86620	-3.17599	0.51535	C	3.68933	2.82079	-0.63471	C	2.13205	-0.35069	2.33598
Fe	-0.15958	-1.70797	-1.91808	H	3.74938	3.65923	-1.31813	H	2.55863	0.63086	2.48135
N	1.43344	-0.10457	0.08663	C	2.54478	2.03003	-0.61448	C	2.67998	0.51726	-0.54659
Si	0.03307	0.33657	1.01604	C	3.51099	-0.42547	2.17637	C	3.69677	-0.27143	-1.11252
C	-1.61615	-1.10050	-0.66978	H	2.49688	-0.82549	2.20591	C	4.86779	0.34795	-1.53272
C	-1.26743	-2.44569	-0.37241	C	4.45214	-1.56281	1.77758	H	5.66541	-0.24883	-1.95789
H	-0.86885	-2.80157	0.56802	H	4.21014	-1.95830	0.79091	C	5.03158	1.71783	-1.43055
C	-1.49901	-3.22353	-1.53411	H	4.38718	-2.38469	2.49277	H	5.94735	2.18397	-1.77045
H	-1.32009	-4.28392	-1.63155	H	5.49031	-1.22536	1.75687	C	4.01778	2.48671	-0.89166
C	-2.02249	-2.37121	-2.53707	C	3.81600	0.08200	3.58535	H	4.15105	3.55947	-0.81360
H	-2.30993	-2.66778	-3.53455	H	4.84424	0.43370	3.68435	C	2.83917	1.90701	-0.43252
C	-2.09246	-1.05970	-2.00960	H	3.68058	-0.72231	4.31037	C	3.55962	-1.77234	-1.25077
H	-2.44133	-0.17834	-2.52705	H	3.14825	0.89895	3.85609	H	2.50840	-2.02917	-1.11224
C	-2.59774	0.81843	0.41665	C	1.40431	2.39548	-1.53981	C	3.95213	-2.26915	-2.64139
C	-3.57407	0.35931	1.31301	H	0.56095	1.73664	-1.32070	H	5.01618	-2.13868	-2.84567
C	-4.70601	1.13954	1.51764	C	0.95207	3.84046	-1.31499	H	3.39359	-1.75035	-3.42033
H	-5.47701	0.79627	2.19641	H	0.79090	4.06510	-0.25875	H	3.73740	-3.33505	-2.73198
C	-4.86121	2.35656	0.87921	H	0.02926	4.04741	-1.85858	C	4.37021	-2.48973	-0.16983
H	-5.74522	2.95479	1.05754	H	1.69876	4.55271	-1.66819	H	4.22829	-3.57014	-0.23368
C	-3.88017	2.80800	0.01648	C	1.76011	2.18115	-3.01055	H	4.07377	-2.17379	0.82983
H	-4.00609	3.76592	-0.47375	H	2.61219	2.79442	-3.30752	H	5.43748	-2.28745	-0.28290
C	-2.74189	2.05017	-0.23757	H	0.92076	2.45069	-3.65513	C	1.78117	2.80058	0.17455
C	-3.43783	-0.95773	2.04510	H	2.01441	1.14200	-3.21647	H	0.96904	2.16433	0.52862
H	-2.41533	-1.31491	1.91771	C	-2.79023	0.18434	0.39109	C	1.20303	3.75769	-0.86569
C	-3.66157	-0.80587	3.54896	C	-3.44992	-0.52298	1.41230	H	0.76892	3.20519	-1.69992
H	-4.68734	-0.52294	3.79000	C	-4.71516	-0.09705	1.80876	H	1.96676	4.42754	-1.26485
H	-2.99882	-0.05128	3.97320	H	-5.23136	-0.62728	2.59961	H	0.41764	4.37761	-0.42903
H	-3.46148	-1.75067	4.05659	C	-5.33256	0.98136	1.20835	C	2.30922	3.56933	1.38561
C	-4.37439	-2.00810	1.44726	H	-6.31958	1.29038	1.52631	H	1.50825	4.14461	1.85379
H	-4.24538	-2.97006	1.94652	C	-4.68183	1.66423	0.19721	H	3.09717	4.27253	1.11124
H	-4.18006	-2.15457	0.38479	H	-5.17559	2.50555	-0.27241	H	2.71969	2.89672	2.13883
H	-5.41984	-1.71403	1.55934	C	-3.40933	1.29264	-0.21904	Fe	0.15608	-0.84244	2.51194
C	-1.70090	2.58995	-1.19306	C	-2.87126	-1.74273	2.09962	N	1.49263	-0.11318	-0.07769
H	-0.94775	1.81464	-1.34347	H	-1.89800	-1.96228	1.65856	Si	0.01760	0.00183	-1.02753
C	-0.99850	3.81361	-0.60567	C	-3.76055	-2.96965	1.88369	C	-1.42177	-0.17646	1.44991
H	-0.53523	3.58498	0.35492	H	-4.72211	-2.86434	2.38808	C	-0.95586	0.86041	2.30958
H	-1.69701	4.63689	-0.44666	H	-3.28084	-3.86388	2.28497	H	-0.57378	1.81852	1.98769
H	-0.21459	4.17010	-1.27649	H	-3.96798	-3.14023	0.82705	C	-1.03349	0.40693	3.64800
C	-2.29172	2.91336	-2.56505	C	-2.65490	-1.49873	3.59381	H	-0.73781	0.96377	4.52466
H	-1.50427	3.21075	-3.25969	H	-2.01648	-0.63450	3.77616	C	-1.58221	-0.89833	3.63462
H	-3.00837	3.73462	-2.51810	H	-2.18058	-2.36463	4.05825	H	-1.77384	-1.51548	4.49982
H	-2.80860	2.05437	-2.99372	H	-3.59905	-1.32670	4.11306	C	-1.81788	-1.26381	2.28911
N	-1.44323	0.01656	0.16800	C	-2.75389	2.06951	-1.33977	H	-2.20331	-2.21527	1.96176
B	0.07317	1.60404	2.45517	H	-1.69735	1.79703	-1.36680	C	-2.62259	-0.04505	-0.68945
H	-0.95260	1.81967	3.02329	C	-3.36567	1.68018	-2.68658	C	-3.10859	1.22627	-1.06253
H	1.10844	1.86860	2.98167	H	-3.29530	0.60716	-2.86079	C	-4.23586	1.30720	-1.87293
H	0.06770	-0.42445	2.38650	H	-2.85430	2.18879	-3.50614	H	-4.62559	2.27657	-2.15716
<b>TSS20 (C<sub>1</sub>): E<sub>tot</sub> = -3062.36583546</b>				H	-4.42050	1.95744	-2.73127	C	-4.88462	0.16661	-2.31472
C	1.64453	-1.21379	-0.31170	C	-2.82919	3.58148	-1.12990	H	-5.76152	0.24843	-2.94405
C	1.29762	-2.47839	0.23935	H	-3.85305	3.95480	-1.16726	C	-4.41425	-1.07433	-1.93413
H	0.84437	-2.64913	1.20643	H	-2.27584	4.10024	-1.91361	H	-4.93416	-1.96266	-2.27179
C	1.63043	-3.47556	-0.71152	H	-2.40734	3.88421	-0.17021	C	-3.28854	-1.20565	-1.12413
H	1.47951	-4.53787	-0.59145	H	-0.31391	2.61492	0.73052	C	-2.47257	2.50173	-0.55540
C	2.22041	-2.83704	-1.82820	H	-1.35434	2.06854	1.84629	H	-1.44892	2.27267	-0.25281

C	-2.38722	3.59526	-1.61704	H	8.34657	15.01903	3.95634	H	0.84645	3.07139	6.15994		
H	-3.36827	3.96311	-1.92078	H	8.59587	16.74817	4.15295	C	3.02906	6.49163	0.54909		
H	-1.86814	3.24612	-2.51132	H	7.87846	16.11521	2.67015	H	3.35602	5.48371	0.29189		
H	-1.83350	4.45189	-1.23222	C	3.17260	19.83478	6.14700	C	4.18157	7.42406	0.17701		
C	-3.22656	3.00440	0.67769	C	1.91507	20.46276	6.18957	H	5.07210	7.20326	0.76611		
H	-2.74314	3.89063	1.09396	C	1.44359	20.94095	7.40859	H	3.93310	8.47563	0.32958		
H	-3.26395	2.24542	1.45826	H	0.47237	21.41882	7.45339	H	4.43883	7.30292	-0.87656		
H	-4.25386	3.27339	0.42392	C	2.19092	20.82692	8.56338	C	1.78112	6.79883	-0.27929		
C	-2.87346	-2.59723	-0.69803	H	1.81101	21.21355	9.50008	H	1.99886	6.72682	-1.34646		
H	-1.92054	-2.51528	-0.17208	C	3.42920	20.21534	8.51291	H	1.41412	7.80839	-0.08287		
C	-2.66090	-3.55206	-1.87157	H	4.01318	20.13411	9.42117	H	0.97565	6.09957	-0.05592		
H	-1.92179	-3.16940	-2.57197	C	3.93379	19.70334	7.32307	Fe	1.07623	1.81408	1.39609		
H	-3.58503	-3.73582	-2.42266	C	1.03521	20.66115	4.97228	N	2.80931	4.10357	2.20137		
H	-2.30835	-4.51858	-1.50767	H	1.55544	20.26981	4.09870	Si	4.42760	3.35034	1.91758		
C	-3.92003	-3.17991	0.25762	C	0.76380	22.14544	4.71962	C	2.61566	0.87629	2.31288		
H	-3.57322	-4.12313	0.68467	H	0.15604	22.58675	5.51099	C	2.12828	0.07140	1.23955		
H	-4.85545	-3.38466	-0.26668	H	0.22108	22.28056	3.78218	H	2.69268	-0.24335	0.37586		
H	-4.15313	-2.49928	1.07591	H	1.68878	22.71989	4.66283	C	0.77116	-0.23419	1.49728		
N	-1.40351	-0.14454	0.04142	C	-0.27613	19.88509	5.09425	H	0.12588	-0.82546	0.86490		
B	-0.03915	-0.86246	-2.98283	H	-0.09697	18.82044	5.24215	C	0.40655	0.38034	2.71974		
H	-0.01388	-1.51749	-1.64028	H	-0.87500	20.00053	4.18913	H	-0.56468	0.33843	3.18957		
H	1.12782	-0.93659	-3.24916	H	-0.87751	20.23963	5.93316	C	1.54620	1.04940	3.23152		
N	-0.67632	0.41606	-3.86463	C	5.30152	19.05826	7.33616	H	1.58777	1.62369	4.14473		
H	-0.71385	-1.77733	-3.38543	H	5.42578	18.51819	6.39556	C	5.01421	0.53008	2.36822		
H	-0.70119	0.23105	-4.86756	C	6.39512	20.12496	7.42158	C	5.77025	0.34811	1.19579		
H	-0.12914	1.24988	-3.66762	H	6.30343	20.85911	6.62208	C	6.94920	-0.39193	1.27043		
H	-1.62485	0.59901	-3.54699	H	7.38649	19.67175	7.35283	H	7.54640	-0.53046	0.37729		
<b>TSS22 (C<sub>1</sub>): E<sub>tot</sub> = -3062.40989527</b>													
C	4.43601	17.88319	1.96556	C	5.45896	18.04389	8.46784	H	8.28378	-1.54130	2.48823		
C	3.56724	18.72950	1.21928	H	5.40783	18.51028	9.45244	C	6.57871	-0.84635	3.58737		
H	2.50028	18.82446	1.36140	H	6.42724	17.54672	8.40026	H	6.88778	-1.33977	4.49998		
C	4.35159	19.45008	0.28545	H	4.68880	17.27421	8.42299	C	5.39994	-0.10801	3.56817		
H	3.98306	20.18040	-0.41941	Fe	4.99661	19.80917	2.20971	C	5.32913	0.83798	-0.16809		
C	5.69602	19.03004	0.42418	N	4.07985	17.11015	3.08696	H	4.40353	1.40333	-0.04792		
H	6.53581	19.38701	-0.15297	N	3.68505	19.30971	4.91803	C	6.35150	1.76212	-0.82627		
C	5.75310	18.06834	1.46152	Si	3.00267	17.81940	4.27505	H	7.30446	1.25832	-0.99969		
H	6.64179	17.57054	1.81637	H	1.70926	18.12679	3.59495	H	6.52382	2.64634	-0.21435		
C	4.48911	20.17444	4.13739	B	2.05377	16.39879	5.60491	H	5.98458	2.10270	-1.79585		
C	4.03962	21.24427	3.30452	N	3.08784	15.67156	6.53733	C	5.03504	-0.35534	-1.08341		
H	3.01602	21.55608	3.16702	H	1.57836	15.73462	4.72644	H	4.58489	-0.01584	-2.01759		
C	5.16520	21.81749	2.67190	H	1.32236	17.14803	6.18627	H	4.35510	-1.07065	-0.62082		
H	5.14761	22.64223	1.97498	H	3.37359	14.74713	6.26136	H	5.94621	-0.89895	-1.33876		
C	6.31821	21.11368	3.09993	H	2.96288	15.78403	7.52849	C	4.52722	-0.07182	4.80573		
H	7.33376	21.30962	2.78950	H	3.37872	16.67183	5.67430	H	3.87403	0.79846	4.73978		
C	5.90600	20.11252	4.01111	<b>TSS23 (C<sub>1</sub>): E<sub>tot</sub> = -3062.36498066</b>						C	5.31212	0.06691	6.10754
H	6.54937	19.40088	4.50748	C	1.76295	3.71870	1.35222	H	5.96560	0.93995	6.09309		
C	4.37475	15.71482	3.07034	C	1.87662	3.13243	0.05940	H	5.92027	-0.81167	6.32839		
C	3.50461	14.83131	2.40652	H	2.79533	2.98659	-0.49253	H	4.62215	0.19138	6.94285		
C	3.78719	13.47112	2.43164	C	0.58074	2.74455	-0.37085	C	3.63946	-1.31871	4.83929		
H	3.12901	12.77753	1.92382	H	0.34415	2.26670	-1.30991	H	2.96390	-1.28560	5.69575		
C	4.89557	12.98172	3.10035	C	-0.34239	3.11964	0.63240	H	4.24301	-2.22474	4.92338		
H	5.09499	11.91801	3.11598	H	-1.41180	2.97458	0.60012	H	3.03077	-1.40121	3.93959		
C	5.75206	13.85858	3.73717	C	0.38110	3.71456	1.69518	N	3.91022	1.43319	2.41008		
H	6.62719	13.47023	4.24464	H	-0.03926	4.10680	2.60839	B	5.37036	3.40280	3.84864		
C	5.51841	15.23146	3.72463	C	2.65095	5.37550	2.82271	H	5.36094	4.60093	3.99026		
C	2.30603	15.32721	1.62687	C	2.39302	5.47486	4.20096	H	5.12306	2.86874	4.90600		
H	2.07805	16.34088	1.95905	C	2.16732	6.73252	4.75067	H	4.33120	2.32005	3.33080		
C	2.64275	15.39218	0.13535	H	1.95464	6.82122	5.80916	N	6.89714	2.95605	3.47689		
H	3.50887	16.02623	-0.05256	C	2.19815	7.87506	3.97320	H	7.00025	1.94304	3.49607		
H	1.80309	15.79681	-0.43264	H	2.00975	8.84316	4.41911	H	7.56698	3.35272	4.12745		
H	2.86361	14.39813	-0.25868	C	2.47890	7.77157	2.62403	H	7.13790	3.26294	2.53566		
C	1.04907	14.49298	1.86427	H	2.51247	8.67019	2.01970	<b>TSS24 (C<sub>1</sub>): E<sub>tot</sub> = -3062.38752135</b>					
H	1.13648	13.48324	1.45998	C	2.72115	6.53720	2.03158	C	1.60627	3.16498	1.92788		
H	0.19446	14.95902	1.37200	C	2.32504	4.26733	5.11050	C	1.44808	2.41458	0.72581		
H	0.81820	14.41263	2.92651	H	2.73006	3.41781	4.56018	H	2.18091	2.31389	-0.06125		
C	6.52684	16.14202	4.39055	C	3.16745	4.44372	6.37399	C	0.17851	1.78955	0.75724		
H	6.19382	17.17109	4.24455	H	3.22633	3.50092	6.92111	H	-0.22559	1.13803	-0.00312		
C	6.61749	15.88971	5.89379	H	2.73559	5.18198	7.05222	C	-0.47124	2.17755	1.95488		
H	5.65029	16.01237	6.37900	H	4.18270	4.75389	6.13656	H	-1.45597	1.86752	2.27144		
H	7.31839	16.58633	6.35793	C	0.88179	3.93772	5.49531	C	0.39910	3.02957	2.67290		
H	6.97234	14.87991	6.10967	H	0.26995	3.70882	4.62408	H	0.19861	3.47218	3.63639		
C	7.91056	15.99864	3.75330	H	0.41305	4.77227	6.02008	C	2.55221	5.32156	2.29129		

C	2.22810	6.00121	3.47740	H	4.38213	1.60985	5.55933	C	-3.47027	-0.17807	-3.20650
C	2.01453	7.37547	3.42973	H	6.08878	2.34600	4.57026	H	-3.03691	0.13559	-4.15826
H	1.76897	7.90953	4.33978	N	5.69148	3.53625	6.82988	H	-3.68601	0.71629	-2.62196
C	2.10128	8.07384	2.24222	H	5.00244	3.85188	7.49654	H	-4.42034	-0.66889	-3.42512
H	1.92281	9.14104	2.22159	H	6.25183	4.33205	6.56150	C	-2.46983	-1.10304	2.67692
C	2.42031	7.39820	1.07995	H	6.29619	2.87446	7.29424	H	-1.59432	-0.47382	2.50590
H	2.48780	7.95135	0.15136	<b>TSS25 (C<sub>1</sub>): E<sub>tot</sub> = -3062.41379694</b>				C	-1.99941	-2.33397	3.45337
C	2.65888	6.02864	1.08050	C	1.36463	1.51929	0.39800	H	-1.28542	-2.91103	2.86963
C	2.10115	5.31287	4.81963	C	1.03806	1.89265	1.73069	H	-2.83517	-2.98703	3.71163
H	2.22088	4.23861	4.67080	H	0.81263	1.20775	2.53638	H	-1.51808	-2.03378	4.38652
C	3.20508	5.77391	5.77105	C	1.01769	3.30773	1.79657	C	-3.47850	-0.31176	3.51357
H	3.13475	5.24254	6.72220	H	0.78670	3.89812	2.67072	H	-3.00990	0.06989	4.42267
H	3.12709	6.84176	5.98279	C	1.36321	3.81272	0.51826	H	-4.31732	-0.93830	3.82149
H	4.19283	5.58874	5.34992	H	1.44018	4.85514	0.24787	H	-3.89599	0.53229	2.96505
C	0.72785	5.54530	5.45283	C	1.58132	2.71381	-0.34589	N	-1.34974	-0.21302	0.09007
H	-0.08374	5.28826	4.77207	H	1.85414	2.76605	-1.38946	B	0.73961	-2.96676	1.05112
H	0.58541	6.58767	5.74216	C	2.69548	-0.15920	-0.66656	N	1.32016	-4.33546	2.75845
H	0.61638	4.94130	6.35496	C	3.75817	-0.48947	0.18980	H	2.15688	-3.99650	3.21047
C	2.99885	5.36331	-0.23458	C	4.98491	-0.82227	-0.37038	H	1.51246	-5.24660	2.36894
H	3.32355	4.34294	-0.02820	H	5.81815	-1.07132	0.27503	H	0.59421	-4.43097	3.45370
C	4.15667	6.06257	-0.94578	C	5.16172	-0.85470	-1.74205	H	-0.23665	-3.61470	0.82000
H	5.04234	6.10527	-0.31212	H	6.12198	-1.12706	-2.16038	H	0.67032	-2.04893	1.85319
H	3.90477	7.08232	-1.23988	C	4.10639	-0.53879	-2.57481	H	1.78192	-3.17271	0.50352
H	4.42103	5.52597	-1.85862	H	4.25192	-0.56944	-3.64778	<b>1, triplet, (C<sub>1</sub>): E<sub>tot</sub> = -2979.39429474</b>			
C	1.76699	5.28981	-1.13802	C	2.86586	-0.17420	-2.05944	C	4.71674	17.79127	1.89223
H	1.99554	4.75288	-2.06095	C	3.61327	-0.46945	1.69504	C	3.78349	18.62457	1.24324
H	1.42225	6.28802	-1.41485	H	2.54950	-0.43240	1.93028	H	2.75968	18.78437	1.54917
H	0.94156	4.77667	-0.64571	C	4.15856	-1.73956	2.34611	C	4.47476	19.32872	0.23510
Fe	1.32519	1.24600	2.38181	H	5.24331	-1.81999	2.25886	H	4.04198	20.06874	-0.42186
N	2.75089	3.89796	2.31475	H	3.71533	-2.62586	1.89302	C	5.79890	18.82186	0.14724
Si	4.42614	3.39143	2.61833	H	3.92406	-1.74226	3.41263	H	6.53730	19.10535	-0.58714
C	3.15080	0.77589	3.10315	C	4.27975	0.77505	2.28369	C	5.96424	17.88452	1.18535
C	2.71752	-0.23297	2.19565	H	4.12777	0.82189	3.36383	H	6.84215	17.28801	1.38564
H	3.23168	-0.53066	1.29385	H	3.87547	1.68925	1.85015	C	5.06111	20.01258	4.15622
C	1.51154	-0.78624	2.68954	H	5.35623	0.76574	2.10074	C	4.71119	21.20726	3.49731
H	0.93910	-1.57252	2.22080	C	1.75765	0.18214	-3.02837	H	3.71841	21.62029	3.40219
C	1.19086	-0.12469	3.89888	H	0.92079	0.58821	-2.45652	C	5.90380	21.77417	2.96392
H	0.32691	-0.31364	4.51865	C	1.25782	-1.05847	-3.76805	H	5.96078	22.70170	2.41381
C	2.20379	0.83223	4.16257	H	0.90806	-1.82191	-3.07185	C	6.99810	20.98814	3.36701
H	2.23671	1.50362	5.00628	H	2.04886	-1.50367	-4.37414	H	8.03486	21.16701	3.12604
C	5.41918	0.77197	2.38650	H	0.43132	-0.80609	-4.43548	C	6.48479	19.86319	4.04350
C	5.86985	1.01049	1.07427	C	2.18350	1.26679	-4.01813	H	7.06419	19.06601	4.48730
C	6.98224	0.31451	0.60375	H	1.33481	1.57607	-4.63039	C	4.71903	15.58561	2.83398
H	7.34585	0.51329	-0.39674	H	2.96168	0.91867	-4.69877	C	3.75974	14.79701	2.18116
C	7.61571	-0.63946	1.36841	H	2.56860	2.15045	-3.50825	C	4.02060	13.44263	2.01095
H	8.48034	-1.16604	0.98644	Fe	-0.31632	2.60398	0.39557	H	3.29608	12.81827	1.50266
C	7.10378	-0.93936	2.61567	N	1.42616	0.20731	-0.11250	C	5.18574	12.87201	2.49036
H	7.56625	-1.72584	3.19923	Si	0.18299	-1.02879	-0.16838	H	5.36710	11.81362	2.35579
C	6.00871	-0.26559	3.14067	C	-1.65542	1.16782	0.02342	C	6.11576	13.65681	3.14564
C	5.18337	1.90949	0.06360	C	-1.52682	1.99979	-1.12605	H	7.02174	13.19886	3.52302
H	4.32589	2.40353	0.53043	H	-1.18706	1.68083	-2.10103	C	5.90815	15.02117	3.32086
C	6.10615	3.00229	-0.46826	C	-1.87069	3.32263	-0.75707	C	2.46473	15.37318	1.65341
H	6.96162	2.58270	-0.99886	H	-1.85508	4.18557	-1.40589	H	2.35975	16.38662	2.04138
H	6.48176	3.62639	0.34169	C	-2.24868	3.31240	0.60782	C	2.49611	15.46259	0.12751
H	5.57344	3.64430	-1.17002	H	-2.56764	4.16774	1.18450	H	3.33858	16.06263	-0.21620
C	4.59386	1.08626	-1.08444	C	-2.12106	1.98964	1.09131	H	1.58140	15.92193	-0.25143
H	4.05409	1.73375	-1.77872	H	-2.30935	1.66906	2.10328	H	2.58176	14.47257	-0.32470
H	3.89667	0.33221	-0.71913	C	-2.50212	-1.07241	0.10709	C	1.24646	14.58993	2.14067
H	5.36919	0.57193	-1.65351	C	-3.07412	-1.49097	-1.10577	H	1.22088	13.57372	1.74431
C	5.48663	-0.76177	4.47535	C	-4.20912	-2.29383	-1.06775	H	0.32799	15.08338	1.81898
H	4.65063	-0.14703	4.78811	H	-4.66569	-2.61644	-1.99555	H	1.22824	14.52408	3.22867
C	6.54067	-0.67023	5.57749	C	-4.76608	-2.69309	0.13142	C	6.95942	15.84048	4.04073
H	6.91186	0.34877	5.67870	H	-5.64992	-3.31755	0.14101	H	6.72676	16.89541	3.88711
H	7.39570	-1.32142	5.38782	C	-4.18105	-2.29623	1.31811	C	6.92929	15.57145	5.54611
H	6.11103	-0.97012	6.53497	H	-4.61441	-2.62311	2.25570	H	5.94391	15.77119	5.97101
C	4.95098	-2.18885	4.34206	C	-3.04950	-1.48779	1.33220	H	7.65394	16.19914	6.06905
H	4.52099	-2.52040	5.28879	C	-2.51733	-1.11285	-2.46157	H	7.17158	14.53015	5.76579
H	5.73449	-2.89834	4.06968	H	-1.57921	-0.57450	-2.31799	C	8.36241	15.61269	3.47916
H	4.16846	-2.24482	3.58554	C	-2.18636	-2.35060	-3.29461	H	8.72459	14.60164	3.67005
N	4.33984	1.54810	2.95782	H	-3.07631	-2.93441	-3.53401	H	9.07149	16.30028	3.94281
B	4.92805	2.37074	4.83114	H	-1.49088	-3.00337	-2.76663	H	8.39621	15.77422	2.40112
H	4.30247	3.39864	4.60554	H	-1.72449	-2.06160	-4.23984	C	3.49816	19.69722	5.93538

C	2.18201	20.15760	5.78265	C	3.63447	-0.97615	-1.05900	E <sub>tot</sub> = -2363.33183379					
C	1.53844	20.70443	6.88816	C	4.15453	0.06847	-0.06996	Si	0.45026	0.12365	-0.91276		
H	0.51873	21.05733	6.79520	C	4.65464	-1.21703	-2.16978	Si	1.51941	-2.68633	-1.57898		
C	2.17928	20.80912	8.10831	C	0.19199	-3.91669	1.32293	B	-1.16455	0.61146	0.13923		
H	1.66558	21.24403	8.95572	C	-0.30345	-5.28576	0.85776	N	-1.35685	1.95058	0.60584		
C	3.47656	20.34954	8.24433	C	0.13125	-3.79824	2.84614	N	-2.40712	-0.04798	0.41417		
H	3.96811	20.42813	9.20640	C	1.15594	-3.11964	-2.83746	N	1.56332	-1.19450	-0.61924		
C	4.15356	19.77955	7.17281	C	-1.58777	-2.65762	-1.61444	C	-2.63231	2.05749	1.13282		
C	1.43162	20.05478	4.47073	C	-0.02450	-0.31756	-2.91311	C	-3.25769	0.86871	1.01789		
H	2.14763	19.79523	3.68886	H	-1.12889	4.38550	-0.10032	C	-0.52902	3.08163	0.37807		
C	0.78668	21.37916	4.06339	H	-3.42724	2.98275	-0.20721	C	0.50293	3.38223	1.27355		
H	-0.01880	21.67051	4.73885	H	3.12754	3.58974	2.97484	C	1.29218	4.49725	1.01325		
H	0.35422	21.29868	3.06490	H	4.65197	4.15513	1.13871	C	1.07269	5.28487	-0.10221		
H	1.51190	22.19365	4.05091	H	3.92383	3.92608	-1.19218	C	0.05337	4.96642	-0.98084		
C	0.38794	18.93827	4.52846	H	-0.28606	2.17730	2.48619	C	-0.76429	3.86388	-0.76020		
H	0.84423	17.97657	4.76927	H	0.44378	1.72897	4.73647	C	0.75920	2.55351	2.51056		
H	-0.12792	18.83698	3.57156	H	1.98121	2.53801	4.49536	C	2.23116	2.17764	2.66059		
H	-0.36496	19.14074	5.29216	H	1.62064	1.04190	3.61896	C	0.23896	3.27379	3.75491		
C	5.56371	19.27234	7.37766	H	-0.73753	3.91897	4.16060	C	-1.84600	3.53045	-1.76550		
H	5.86570	18.73135	6.48061	H	-0.52747	4.64071	2.56747	C	-2.82891	4.68602	-1.94706		
C	6.53820	20.43485	7.56520	H	0.77125	4.73914	3.75553	C	-1.23426	3.10822	-3.10122		
H	6.50758	21.11665	6.71524	H	0.63877	2.46232	-2.18032	C	-2.89230	-1.29455	-0.06171		
H	7.56164	20.06876	7.66598	H	0.78317	4.39994	-3.71308	C	-3.01993	-2.37617	0.81839		
H	6.30308	21.00873	8.46361	H	0.33567	4.92229	-2.09192	C	-3.55413	-3.56385	0.32866		
C	5.64889	18.27704	8.53398	H	1.98316	5.15894	-2.66608	C	-3.93583	-3.68448	-0.99371		
H	5.42335	18.73980	9.49595	H	2.17786	2.27750	-4.03483	C	-3.79288	-2.60998	-1.85242		
H	6.65606	17.86247	8.60301	H	2.91565	1.49281	-2.63880	C	-3.27710	-1.39752	-1.40854		
H	4.95473	17.44837	8.39200	H	3.46554	3.08338	-3.15726	C	-2.62717	-2.27596	2.27624		
Fe	5.55085	19.73256	2.12669	H	-4.67990	-1.93222	2.05588	C	-3.85213	-2.00741	3.15302		
N	4.47402	16.98500	3.02082	H	-6.03512	-2.28839	0.04955	C	-1.89980	-3.52594	2.76672		
N	4.17879	19.12093	4.81093	H	-5.60058	-0.98415	-1.98282	C	-3.21179	-0.22391	-2.36281		
Si	3.84558	17.40896	4.60848	H	-1.62120	-0.00729	2.23243	C	-4.57457	0.46417	-2.45554		
Aldridge B-Si-N, singlet, (C <sub>1</sub> ):													
E <sub>tot</sub> = -2363.36565325													
Si	0.56861	-0.32634	0.87873	H	-4.21885	1.01819	3.38908	C	2.69740	-0.91465	0.20062		
Si	0.10354	-1.88472	-1.88542	H	-3.05240	2.01385	2.44933	C	3.77921	-0.17419	-0.31208		
B	-0.71093	1.08744	0.11518	H	-3.73184	-1.40088	3.91480	C	4.93143	-0.42694	1.79964		
N	-0.21298	2.43529	0.08135	H	-2.44713	-2.23478	3.03291	C	3.86006	-1.14345	2.29672		
N	-2.13524	1.25813	-0.01148	H	-2.78602	1.42655	-2.35181	C	2.73109	-1.38918	1.52216		
N	0.89114	-1.54864	-0.31454	H	-4.65012	2.48789	-3.56284	C	3.78842	0.40683	-1.71064		
C	-1.27229	3.31789	-0.05621	H	-5.80796	1.40889	-2.78802	C	3.72939	1.93468	-1.66489		
C	-2.41809	2.61677	-0.11232	H	-4.93751	2.59534	-1.82835	C	4.98924	-0.07417	-2.52493		
C	1.10444	2.88412	0.35794	H	-3.32798	0.53355	-4.53229	C	1.57359	-2.13627	2.14968		
C	1.50239	3.02374	1.69733	H	-4.54228	-0.55154	-3.87483	C	1.97615	-3.54665	2.58022		
C	2.79221	3.47653	1.95189	H	-2.84204	-0.80462	-3.49430	C	0.99919	-1.35193	3.32925		
C	3.65431	3.79779	0.91905	H	5.25038	-2.96988	-0.24624	C	3.12616	-3.61990	-1.30045		
C	3.24066	3.66521	-0.39361	H	4.69404	-4.98483	1.04198	C	0.04641	-3.73622	-1.07322		
C	1.96669	3.19917	-0.69986	H	2.37673	-5.39018	1.74361	C	1.37157	-2.26685	-3.40953		
C	0.55485	2.76982	2.85076	H	2.74150	-0.56225	-1.53148	H	-3.00138	2.97820	1.55501		
C	1.19635	1.97622	3.98584	H	4.41272	0.99866	-0.57820	H	-4.25680	0.60231	1.32155		
C	-0.01631	4.09467	3.36047	H	3.41408	0.30875	0.69606	H	2.09549	4.75332	1.69238		
C	1.52599	3.09604	-2.14300	H	5.04585	-0.29577	0.44445	H	1.70007	6.14669	-0.28901		
C	1.13413	4.47300	-2.68229	H	4.80215	-0.30255	-2.74684	H	-0.10424	5.58324	-1.85735		
C	2.58348	2.45227	-3.03733	H	4.32900	-1.99760	-2.85832	H	0.19608	1.62440	2.41237		
C	-3.18045	0.30175	0.00254	H	5.63213	-1.50576	-1.78088	H	2.36404	1.49458	3.50023		
C	-3.43892	-0.41779	1.18374	H	-0.49036	-3.17049	0.91464	H	2.86140	3.04789	2.85183		
C	-4.46472	-1.35497	1.16741	H	-1.34620	-5.43275	1.14386	H	2.61020	1.67688	1.76943		
C	-5.23698	-1.55780	0.03617	H	-0.23578	-5.38985	-0.22601	H	0.38364	2.65902	4.64496		
C	-4.98843	-0.82222	-1.10434	H	0.27252	-6.10039	1.29957	H	-0.82567	3.49511	3.67189		
C	-3.95516	0.10948	-1.14974	H	-0.87874	-3.99565	3.21042	H	0.76208	4.21854	3.91480		
C	-2.68032	-0.14221	2.46825	H	0.80020	-4.51138	3.33088	H	-2.42343	2.68370	-1.39260		
C	-3.16541	1.15812	3.11351	H	0.41992	-2.79786	3.17082	H	-3.63443	4.39721	-2.62420		
C	-2.73857	-1.28305	3.47767	H	2.14767	-2.73270	-3.07307	H	-3.27935	4.97593	-0.99755		
C	-3.72631	0.87916	-2.43501	H	0.66679	-3.35986	-3.78437	H	-2.34915	5.57032	-2.36958		
C	-4.84192	1.90126	-2.66301	H	1.29507	-4.05452	-2.29368	H	-2.01487	2.81028	-3.80426		
C	-3.60411	-0.04281	-3.64811	H	-2.23675	-2.05343	-0.98046	H	-0.55523	2.26278	-2.97688		
C	1.91004	-2.48290	0.07027	H	-2.10426	-2.79705	-2.56642	H	-0.66872	3.92072	-3.56085		
C	3.23887	-2.23727	-0.31992	H	-1.50155	-3.64298	-1.15522	H	-3.66908	4.41364	0.98867		
C	4.22219	-3.14897	0.04157	H	-0.70299	0.42069	-2.48850	H	-4.34443	-4.61836	-1.35703		
C	3.91557	-4.28366	0.77114	H	-0.38526	-0.55873	-3.91539	H	-4.09805	-2.71612	-2.88541		
C	2.61004	-4.50801	1.15950	H	0.95184	0.15510	-3.02597	H	-1.94225	-1.43155	2.38476		
C	1.59016	-3.62176	0.82331	Aldridge B-Si-N, triplet, (C <sub>1</sub> ):									
											-3.56332	-1.90917	4.20080

H	-4.57115	-2.82554	3.08012	H	9.60787	-2.05461	14.85650	C	12.69371	0.42265	23.54511							
H	-4.36639	-1.09089	2.86703	H	9.54318	0.39776	14.91636	C	14.70893	-1.57096	22.30818							
H	-1.52717	-3.37353	3.78047	H	9.08292	-1.81312	20.32108	C	11.69030	-2.16635	22.24820							
H	-2.55365	-4.39843	2.80112	H	7.47095	-3.66945	20.31734	C	15.75083	-0.55053	18.45369							
H	-1.05102	-3.77083	2.12851	H	6.87550	-2.37926	19.27429	C	13.49268	-2.58627	18.18079							
H	-2.50577	0.50470	-1.96508	H	7.59220	-3.81907	18.56662	C	13.31099	0.04474	16.64063							
H	-4.51922	1.34016	-3.10518	H	9.95493	-4.07471	20.57042	Si	10.76987	1.24648	19.63969							
H	-5.33076	-0.20818	-2.86527	H	11.11710	-3.07476	19.70548	Si	12.86652	0.35107	20.09234							
H	-4.91921	0.79877	-1.47707	H	10.14504	-4.25483	18.83175	Si	13.99296	2.41148	20.35362							
H	-2.54255	0.28514	-4.35015	H	8.80646	2.35970	17.96072	Si	12.98808	-0.80151	22.13555							
H	-3.39476	-1.24734	-4.29186	H	10.71928	3.70031	17.23504	Si	13.87521	-0.73873	18.25903							
H	-1.74313	-1.13381	-3.68035	H	11.28849	2.20676	17.98748	Si	7.79305	0.89241	20.10785							
H	5.71426	0.63300	0.12340	H	11.31373	2.36656	16.24027	N	9.25689	0.46551	19.20565							
H	5.79975	-0.24137	2.41816	H	8.45321	3.71430	16.01565	H	9.27531	-3.42727	16.77521							
H	3.89817	-1.51251	3.31493	H	7.57550	2.20475	15.77217	H	9.40326	-2.21889	14.64265							
H	2.89495	0.06577	-2.23500	H	9.09552	2.49826	14.93048	H	9.34095	0.23681	14.62002							
H	3.67873	2.34865	-2.67355	H	6.34200	-0.41905	18.27381	H	9.29730	-1.78964	20.10716							
H	2.85168	2.28194	-1.11747	H	5.30486	0.82141	18.96907	H	7.51437	-3.49139	20.36803							
H	4.61221	2.35469	-1.17914	H	6.51612	1.25160	17.77041	H	6.91283	-2.15819	19.38722							
H	4.93304	0.30555	-3.54646	H	8.12400	2.96172	21.35776	H	7.39280	-3.66218	18.61819							
H	5.02710	-1.16299	-2.57585	H	6.45680	3.02747	20.79424	H	9.92822	-4.12695	20.34145							
H	5.93582	0.26772	-2.10353	H	7.77364	3.39679	19.68902	H	11.07892	-3.31854	19.28527							
H	0.78062	-2.22444	1.40507	H	7.76204	0.06262	22.36041	H	9.85761	-4.39162	18.60859							
H	1.12247	-4.08312	2.99752	H	6.06734	0.22030	21.91709	H	9.00012	2.35146	17.65860							
H	2.35576	-4.12962	1.74089	H	6.99705	-1.15709	21.34427	H	10.35059	3.65594	16.06184							
H	2.75456	-3.53033	3.34483	H	14.81693	2.41289	17.80524	H	11.28967	2.32436	16.73718							
H	0.16054	-1.88521	3.77797	H	14.74452	4.00860	18.53692	H	10.65310	2.21255	15.09734							
H	1.74175	-1.19280	4.11315	H	13.29973	3.30057	17.82794	H	7.83176	3.46774	15.84543							
H	0.63954	-0.37386	3.01041	H	12.49045	3.24607	22.05413	H	7.02109	1.93576	16.17600							
H	3.99368	-3.03447	-1.60744	H	13.34624	4.52768	21.19729	H	8.05797	2.10002	14.76608							
H	3.12882	-4.54232	-1.88474	H	11.85644	3.86126	20.53843	H	6.29991	-0.31128	18.47008							
H	3.28075	-3.89219	-0.25663	H	15.37834	1.80105	22.01045	H	5.37693	0.69832	19.57822							
H	-0.89452	-3.19171	-1.17125	H	15.99799	3.08961	20.98910	H	6.24875	1.42540	18.23713							
H	-0.03085	-4.62824	-1.69806	H	16.11322	1.41582	20.46066	H	8.67010	2.92318	21.30695							
H	0.12196	-4.07102	-0.03721	H	11.96161	0.85470	23.45367	H	6.93173	3.01212	21.06738							
H	0.47175	-1.69021	-3.62881	H	13.19785	-0.01022	24.36482	H	8.02071	3.35860	19.72992							
H	1.32833	-3.17700	-4.01143	H	13.64791	1.32876	23.31698	H	8.58479	-0.02826	22.27783							
H	2.22565	-1.68403	-3.75895	H	15.06830	-2.23800	21.24605	H	6.85590	0.27942	22.32904							
Aldridge N-Si-Si, singlet, (C <sub>1</sub> ): E <sub>tot</sub> = -2734.09531327																		
C	9.29868	-0.21524	18.24175	H	12.18734	-3.06109	21.70587	H	14.77888	4.17648	18.77060							
C	9.28195	-1.61852	18.21008	H	12.20059	-2.57753	23.39625	H	13.35986	3.35343	18.12780							
C	9.40394	-2.25696	16.97869	H	10.97168	-1.94277	22.30970	H	12.72327	3.20716	22.37014							
C	9.51269	-1.53977	15.80340	H	15.84024	0.36122	18.28968	H	13.51385	4.54824	21.54495							
C	9.47959	-0.15652	15.84382	H	15.87300	-1.11261	19.24777	H	12.02568	3.86429	20.89729							
C	9.36444	0.52619	17.04797	H	16.03250	-1.19507	17.49712	H	15.50744	1.73970	22.23537							
C	9.05309	-2.46405	19.44576	H	12.23095	-2.88567	17.71682	H	16.20218	3.06772	21.31637							
C	7.66939	-3.11590	19.39772	H	13.42995	-3.21610	18.96839	H	16.28311	1.42490	20.68877							
C	10.12942	-3.52590	19.64384	H	13.90999	-3.17734	17.27641	H	11.73763	0.93494	23.42562							
C	9.32889	2.03992	17.05816	H	12.10018	-0.20599	16.25262	H	12.67786	-0.08751	24.51041							
C	10.74115	2.61329	17.13585	H	13.39666	0.97626	16.40983	H	13.47124	1.18642	23.59184							
C	8.57060	2.63887	15.87640	H	13.71044	-0.57593	15.63845	H	14.89961	-2.29904	21.51751							
C	6.32159	0.61047	18.63084	Aldridge N-Si-Si, triplet, (C <sub>1</sub> ): E <sub>tot</sub> = -2734.05826754														
C	7.47319	2.74482	20.51051	H														
C	7.04824	-0.08767	21.54877	C	9.23263	-0.25347	17.97497	H	15.49596	-0.81742	22.25424							
C	14.19331	3.07402	18.40825	C	9.22484	-1.66205	17.98929	H	11.85483	-2.94176	21.50032							
C	12.77746	3.60424	21.06524	C	9.28150	-2.34430	16.77840	H	11.71372	-2.64452	23.22972							
C	15.47223	2.13183	20.97641	C	9.34544	-1.66981	15.57328	H	10.68358	-1.77370	22.09583							
C	12.98204	0.47071	23.40785	C	9.31507	-0.28819	15.56748	H	16.06757	0.49274	18.42532							
C	14.94492	-1.45424	21.99540	C	9.24199	0.44085	16.74976	H	16.10270	-0.97454	19.39579							
C	12.02567	-2.21944	22.37909	C	9.07968	-2.45664	19.27124	H	16.27212	-1.07047	17.64681							
C	15.51777	-0.68038	18.31209	C	7.64323	-2.96505	19.42010	H	12.47855	-2.75827	17.82058							
C	13.26213	-2.70549	18.01884	C	10.04268	-3.63621	19.37391	H	13.59825	-3.08433	19.14591							
C	13.16518	-0.08824	16.44988	C	9.14969	1.95078	16.65484	H	14.17316	-3.07955	17.48315							
Si	10.43937	0.91273	20.59652	C	10.43517	2.56863	16.10590	H	13.49692	1.11856	16.61267							
Si	12.63875	0.26337	19.92411	C	7.94678	2.38303	15.81389	H	13.83304	-0.40410	15.79266							
Si	13.80043	2.33235	20.10759	C	6.29844	0.64299	18.99560	Power S-Si-S, singlet, (C <sub>1</sub> ): E <sub>tot</sub> = -2939.91879950										
Si	13.18118	-0.76997	21.99170	C	7.87039	2.71141	20.59578	S	10.62351	3.07078	11.08831							
Si	13.64096	-0.85736	18.10440	C	7.66108	-0.10516	21.69969	Si	9.17352	2.59284	12.62938							
Si	7.52664	0.92460	20.03783	C	14.29859	3.20158	18.66341	C	11.94210	3.77123	12.04851							
N	9.18407	0.47313	19.48249	C	12.96740	3.61524	21.38919	S	7.63575	2.53032	11.09788							
H	9.39686	-3.33972	16.93778	C	15.64889	2.13050	21.22630											

C	11.73743	4.74980	13.03242	H	11.72543	-1.51067	14.81367	H	13.61384	3.13406	7.26761
C	12.85085	5.32812	13.63668	H	11.03624	-1.08640	16.37781	H	14.15958	4.13158	8.61242
H	12.69383	6.09620	14.38406	H	11.82787	0.14189	15.40198	H	12.45679	3.76229	8.43702
C	14.13672	4.94885	13.29434	C	8.13758	-0.99124	11.36875	C	14.44541	-1.56565	8.62482
H	14.98713	5.41685	13.77223	H	8.87417	-1.73425	11.06665	H	14.15659	-2.42692	9.22647
C	14.32549	3.96443	12.33910	H	8.17417	-0.17598	10.64256	H	15.52306	-1.63047	8.46126
H	15.32488	3.64589	12.06978	H	7.14864	-1.44384	11.29276	H	13.96519	-1.66516	7.65131
C	13.23979	3.36852	11.70979	C	4.91445	3.21778	10.20371	C	13.32136	1.00609	12.78497
C	10.38969	5.18994	13.48457	C	4.83288	4.55424	10.59794	H	13.62609	0.06754	13.24737
C	9.60399	6.02836	12.68526	C	4.73802	5.53877	9.62153	H	12.25892	1.14761	13.00293
C	8.35481	6.42793	13.15331	H	4.66940	6.57720	9.92752	H	13.85799	1.81491	13.28115
H	7.74179	7.06431	12.52481	C	4.73173	5.22760	8.26903	C	6.31252	1.72470	12.18475
C	7.88118	6.04532	14.39876	C	4.82413	3.89072	7.90174	C	6.41041	0.38906	12.59856
C	8.69302	5.24120	15.19178	H	4.82729	3.62813	6.84921	C	5.48480	-0.52822	12.11351
H	8.33904	4.93015	16.16881	C	4.91879	2.87903	8.84767	H	5.55774	-1.55996	12.43440
C	9.93670	4.80762	14.76061	C	4.88236	4.92862	12.04931	C	4.47946	-0.14060	11.24326
C	10.07694	6.48949	11.34040	H	4.68052	5.99038	12.18904	H	3.76510	-0.86744	10.87999
H	9.49191	7.33888	10.99037	H	5.87138	4.72302	12.46672	C	4.39714	1.18027	10.83829
H	9.97974	5.69227	10.59970	H	4.15859	4.36968	12.64343	H	3.62233	1.49437	10.14986
H	11.12595	6.78484	11.35913	C	4.65984	6.30473	7.22616	C	5.30819	2.12548	11.29853
C	6.53207	6.48038	14.89057	H	4.27171	7.23660	7.63611	C	7.48903	-0.07949	13.50538
H	6.05879	7.17821	14.20145	H	4.01801	6.01595	6.39360	C	7.43542	0.19753	14.87439
H	6.60284	6.97037	15.86258	H	5.64795	6.51723	6.81311	C	8.48549	-0.21853	15.68714
H	5.85941	5.62852	15.00667	C	5.05393	1.44691	8.41847	H	8.44564	0.00453	16.74767
C	10.74647	3.89182	15.63051	H	5.98623	1.01421	8.78684	C	9.57806	-0.90646	15.17975
H	10.19578	3.62854	16.53277	H	5.05545	1.36024	7.33268	C	9.59434	-1.20326	13.82211
H	11.69336	4.33699	15.93609	H	4.24348	0.82552	8.80155	H	10.43623	-1.74587	13.40560
H	10.98316	2.96303	15.10550	Power S-Si-S, triplet, ( $C_1$ ): $E_{tot} = -2939.85872870$				C	8.56706	-0.80787	12.97471
C	13.47349	2.31076	10.69394	S	10.54671	2.73265	10.90587	C	6.27873	0.94379	15.46949
C	13.72090	2.66250	9.36496	Si	9.32361	2.18591	12.56855	H	6.27218	0.85487	16.55522
C	13.95824	1.65713	8.43658	S	7.36951	3.01347	12.82050	H	5.32329	0.57555	15.09591
H	14.14464	1.92937	7.40325	C	11.82419	3.82182	11.49343	H	6.33413	2.00645	15.22317
C	13.95352	0.31537	8.79586	S	7.36951	3.01347	12.82050	C	10.72198	-1.31473	16.06093
C	13.69221	-0.00895	10.12035	C	11.55020	5.02506	12.15241	H	11.63148	-0.77054	15.79937
H	13.67258	-1.05213	10.41729	C	12.61770	5.85070	12.49187	H	10.94322	-2.37813	15.96198
C	13.44879	0.96822	11.07747	H	12.40886	6.78717	12.99413	H	10.51241	-1.11663	17.11120
C	13.69754	4.10166	8.93839	C	13.92313	5.49777	12.19406	C	8.63179	-1.15785	11.51559
H	13.89523	4.19907	7.87165	H	14.73827	6.15697	12.46201	H	9.64316	-1.44252	11.22872
H	14.43994	4.69792	9.47045	C	14.18021	4.29449	11.55906	H	8.33095	-0.32344	10.88186
H	12.72487	4.55579	9.13802	H	15.19768	3.99917	11.33485	H	7.97172	-1.99435	11.27783
C	14.24545	-0.75237	7.78213	C	13.14061	3.44204	11.20581	C	5.19097	3.53448	10.83937
H	13.80538	-1.70779	8.06651	C	10.18012	5.44276	12.54201	C	4.30946	4.40217	11.48923
H	15.32069	-0.90961	7.67449	C	9.29877	5.98838	11.60413	C	4.17503	5.70300	11.02074
H	13.85777	-0.48857	6.79825	C	8.04825	6.42052	12.02909	H	3.48951	6.37538	11.52572
C	13.13013	0.58234	12.49165	H	7.35739	6.82398	11.29804	C	4.89735	6.16251	9.92717
H	13.24862	-0.49039	12.64336	C	7.65117	6.32519	13.35420	C	5.77202	5.28382	9.30250
H	12.09752	0.83874	12.74307	C	8.54448	5.78595	14.27033	H	6.34747	5.62453	8.44824
H	13.77054	1.09438	13.21082	H	8.24910	5.69528	15.31004	C	5.93641	3.97622	9.74342
C	6.20064	1.74978	11.79350	C	9.80443	5.34415	13.88918	C	3.53027	3.94515	12.68886
C	6.23117	0.73677	12.76131	C	9.67237	6.10027	10.15556	H	2.93899	4.75907	13.10695
C	5.03728	0.12584	13.13303	H	8.99401	6.77048	9.62885	H	4.19075	3.57457	13.47558
H	5.06988	-0.66454	13.87301	H	9.61858	5.12574	9.66545	H	2.84727	3.12996	12.44576
C	3.82935	0.50571	12.57549	H	10.68783	6.47372	10.02103	C	4.76760	7.58412	9.46308
H	2.91223	0.01653	12.87556	C	6.27304	6.72941	13.78159	H	3.75160	7.95828	9.58818
C	3.80678	1.51852	11.63189	H	5.83157	7.44955	13.09380	H	5.03360	7.69065	8.41185
H	2.87020	1.83510	11.18984	H	6.27145	7.16785	14.77981	H	5.42593	8.24584	10.03157
C	4.97962	2.14566	11.23025	H	5.61352	5.85917	13.80129	C	6.92269	3.07182	9.06745
C	7.48372	0.30853	13.43156	C	10.73677	4.77330	14.92063	H	7.79630	2.91054	9.70340
C	7.72995	0.71839	14.75001	H	10.20374	4.55630	15.84553	H	7.27776	3.50321	8.13225
C	8.91556	0.34027	15.36164	H	11.54650	5.46432	15.16189	H	6.49987	2.09155	8.84694
H	9.11314	0.67262	16.37501	H	11.20168	3.84646	14.58122				
C	9.87663	-0.40836	14.69348	C	13.44954	2.14971	10.54131				
C	9.60334	-0.82136	13.39609	C	13.63099	2.10739	9.15640				
H	10.33282	-1.42313	12.86541	C	13.94210	0.89528	8.55469				
C	8.40939	-0.49712	12.75787	H	14.07769	0.86195	7.47892				
C	6.77717	1.63154	15.46475	C	14.07615	-0.27359	9.29357				
H	7.16157	1.90214	16.44737	C	13.88029	-0.20782	10.66608				
H	5.79306	1.18383	15.60289	H	13.97196	-1.11172	11.25886				
H	6.62847	2.55581	14.90111	C	13.56632	0.98615	11.30476				
C	11.18217	-0.73746	15.35523	C	13.45981	3.34585	8.32492				

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