

Supplementary Information

for

Controlled reduction of isocyanates to formamides using monomeric magnesium

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❖ General experimental information:

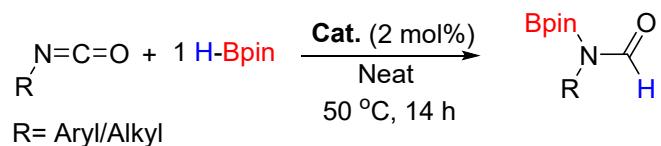
All reactions were carried out under argon atmosphere using Schlenk techniques or inside a MBraun glove box. Catalysts **1** was prepared according to our previous paper.^{S1}

Pinacolborane (HBpin), isocyanates were purchased from Sigma-Aldrich, TCI Chemicals and used without further purification. C₆D₆, toluene-d₈, CD₃CN and CDCl₃ were purchased from Sigma-Aldrich, were degassed by three freeze-pump-thaw cycles and stored over molecular sieves.

¹H, ¹³C{¹H} and ¹¹B NMR spectra were recorded on Bruker AV–200 MHz, AV-400 MHz and

AV-500 MHz and referenced to the resonances of the internal standard with respect to the solvent used. HRMS spectra were obtained using Thermo scientific Q-Exactive instrument.

❖ General catalytic procedure for the synthesis of N-boryl formamide:



Scheme S1. General catalytic procedure for the synthesis of N-borylated formamide from phenyl isocyanate.

Ethyl isocyanate (0.250 mmol), pinacolborane (1.1 equiv., 0.275 mmol), catalyst (**1**, 2.0 mol%) were charged in a Schlenk tube/ nmr tube inside the glove box. The reaction mixture was allowed to heat at 50 °C for 14 h. Upon completion of the reaction, the volatiles were removed using vacuum in a Schlenk line and mesitylene (0.25 mmol) was added as the internal standard, while making the NMR in appropriate deuterated solvent. The progress of the reaction was monitored by the ¹H NMR spectroscopy, which indicated the completion of the reaction by the appearance of a new formamide -NCHO resonance.

❖ Table S1. Isocyanate substrate scope for N-boryl formamide:

Entry	Substrate	Temper ature (°C)	Time (h)	Catalyst 1 (mol%)	NMR Yield (%)	Product	Selectivity (Formamide: dihydroborat ed:amine)
1.		50	14	2	93	2a	100:0:0

2.		50	14	2	20	2b	20:0:15
3.		50	14	2	58	2c	100:0:0
4.		50	14	2	55	2d	100:0:0
5.		50	14	2	30	2e	100:0:0
6.		50	14	2	41	2f	41:8:7
7.		50	14	2	69	2g	100:0:0
8.		50	14	2	43	2h	100:0:0
9.		50	14	2	62	2i	100:0:0
10.		50	14	2	26	2j	26:24:0
11.		50	14	2	52	2k	100:0:0
12.		50	14	2	56	2l	100:0:0

13.		50	14	2	59	2m	59:18:0
14.		50	14	2	70	2n	100:0:0
15.		50	14	2	59	2o	100:0:0
16.		50	14	2	53	2p	100:0:0

❖ Analytical data of N-boryl formamide of corresponding isocyanates with their NMR spectra:

N-ethyl-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)formamide (2a): ^1H NMR (400 MHz,

CHLOROFORM-*d*) δ 8.66 (s, 1H, NCHO), 3.34-3.30 (t, 2H, NCH₂CH₃), 1.52-1.47 (q, 3H, NCH₂CH₃), 1.30 (s, 12H, CH₃) ppm; $^{13}\text{C}\{\text{H}\}$ NMR (CDCl₃, 101 MHz, 298 K): δ 165.92 (s, 1 C), 84.01 (s, 1 C), 39.93 (s, 1 C), 29.51 (s, 1 C), 26.53 (s, 1 C), 24.79 (s, 1 C), 24.46 (s, 1 C), 24.41 (s, 1 C) ppm.

The spectroscopic data is consistent with the literature data.^{S2}

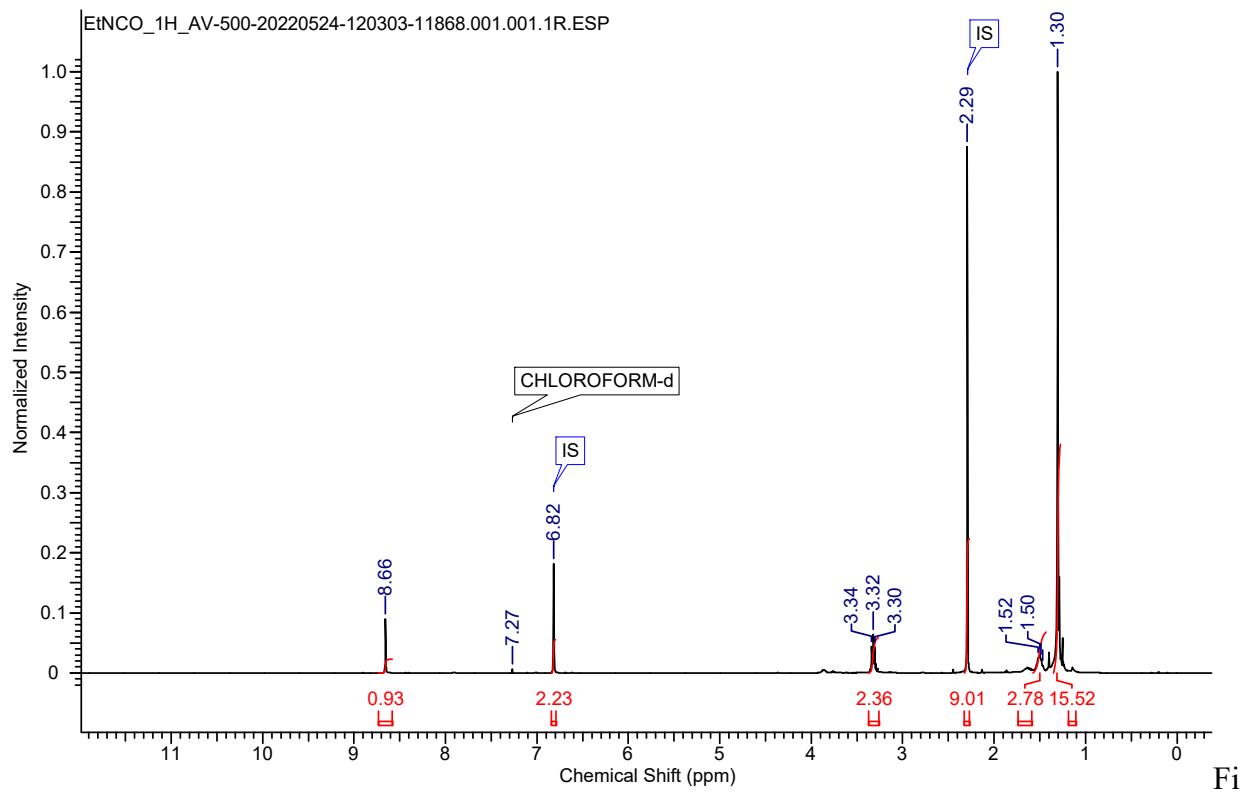


Figure S1. ^1H NMR spectrum of **2a** (CDCl_3 , 500 MHz, 298 K).

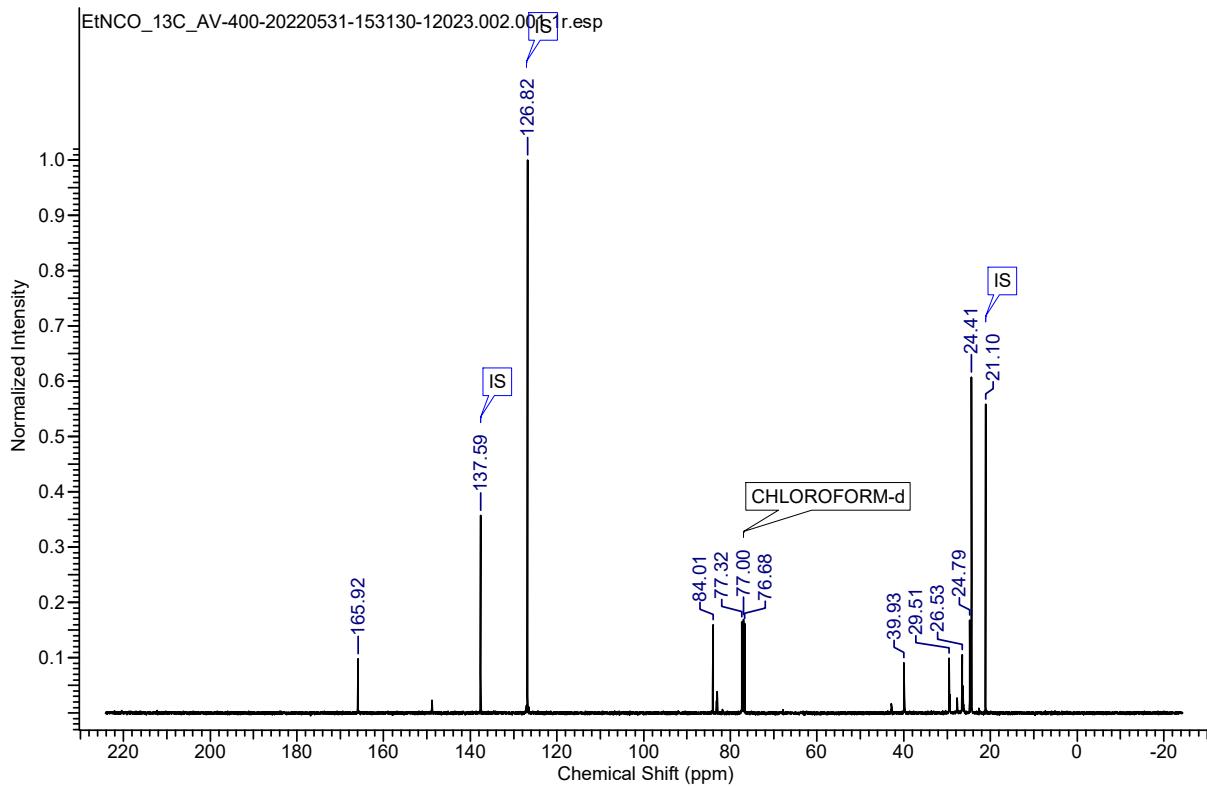


Figure S2. ^{13}C NMR spectrum of **2a** (CDCl_3 , 101 MHz, 298 K).

N-phenyl-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)formamide (2b): ^1H NMR (400

MHz, CHLOROFORM-*d*) δ 8.71 (s, 1 H, NCHO), 7.29-7.20 (m, 5H, PhH), 2.87 (s, 3H, NCH₃), 1.08 (s, 12H) ppm; $^{13}\text{C}\{\text{H}\}$ NMR (CDCl₃, 101 MHz, 298 K): δ 165.31 (s, 1 C), 148.58 (s, 1 C), 147.40 (s, 1 C), 133.58 (s, 1 C), 129.20 (s, 1 C), 128.84 (s, 1 C), 128.69 (s, 1 C), 128.40 (s, 1 C), 128.34 (s, 1 C), 128.24 (s, 1 C), 127.27 (s, 1 C), 127.05 (s, 1 C), 126.97 (s, 1 C), 120.51 (s, 1 C), 119.68 (s, 1 C), 118.74 (s, 1 C), 84.43 (s, 1 C), 82.98 (s, 1 C), 82.57 (s, 1 C), 81.78 (s, 1 C), 34.19 (s, 1 C), 24.55 (s, 1 C), 24.42 (s, 1 C), 24.34 (s, 1 C), 24.09 (s, 1 C), 22.60 (s, 1 C) ppm.

The spectroscopic data is consistent with the literature data.^{S2}

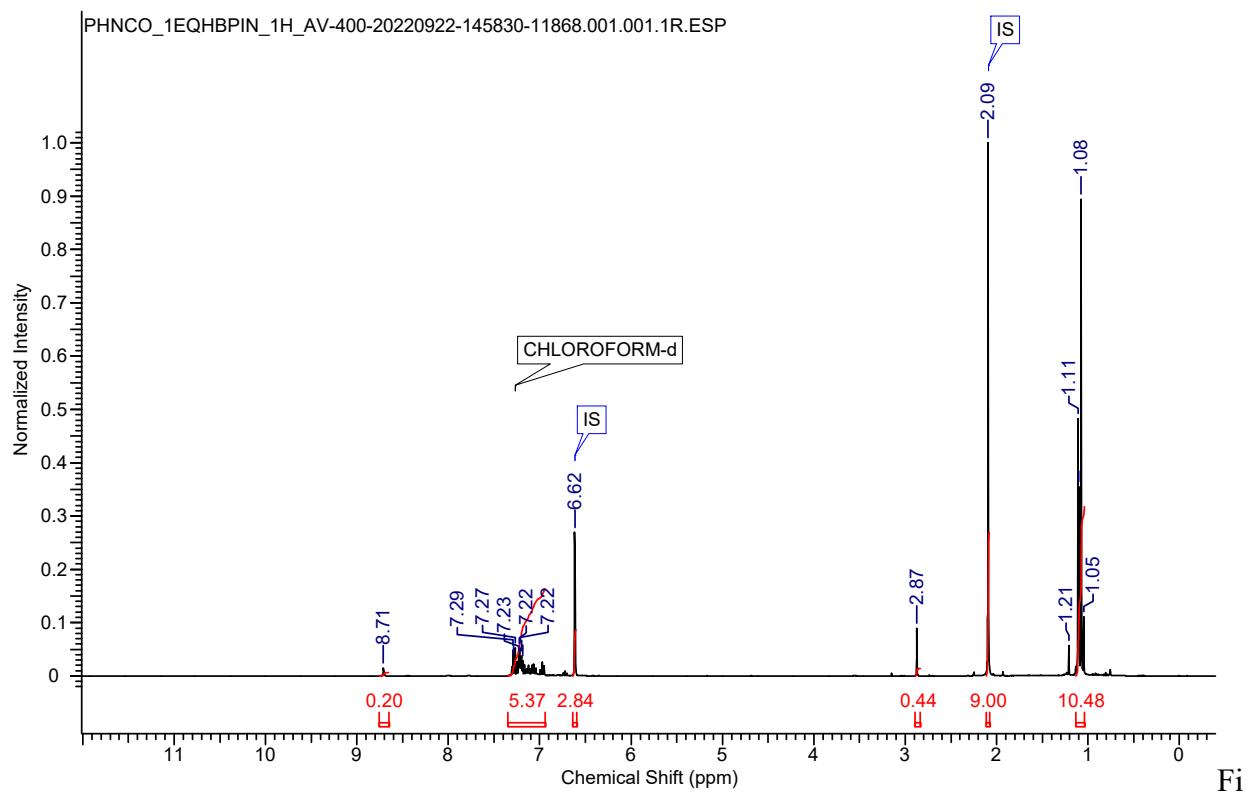


Figure S3. ^1H NMR spectrum of **2b** (CDCl₃, 400 MHz, 298 K).

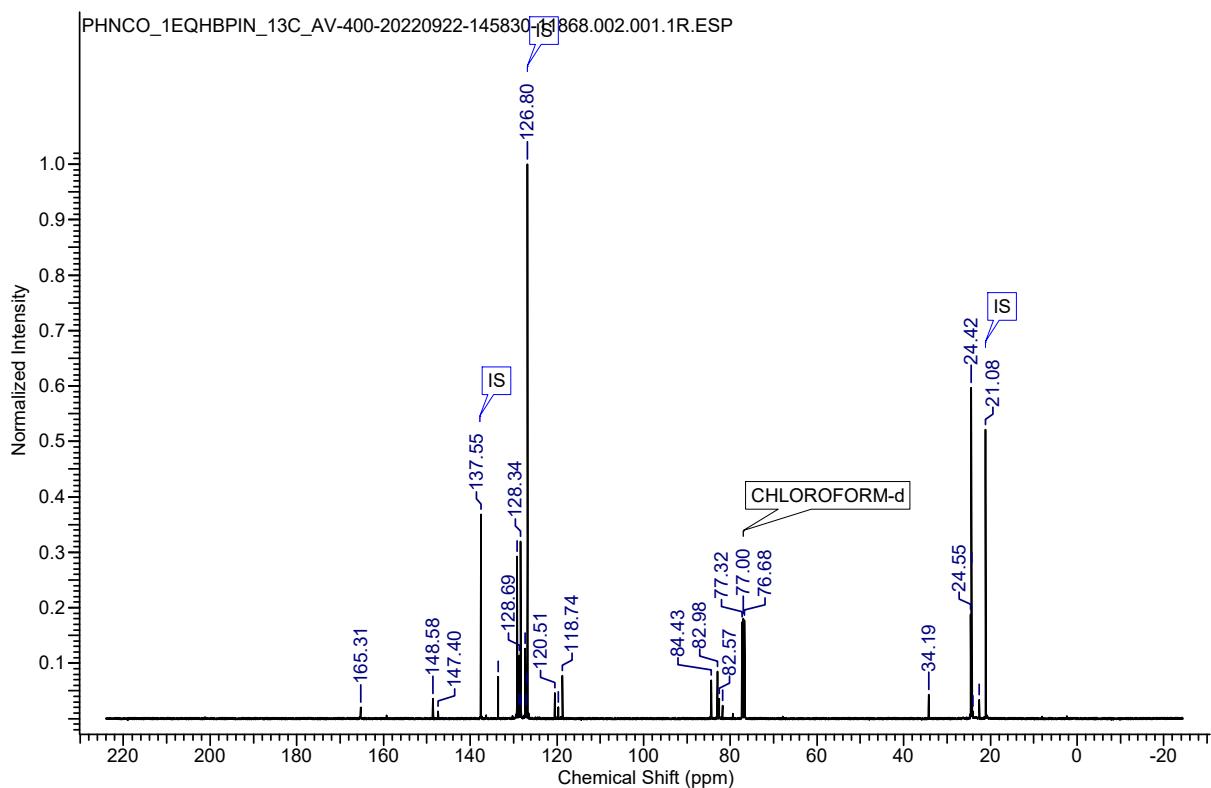


Figure S4. ^{13}C NMR spectrum of **2b** (CDCl_3 , 101 MHz, 298 K).

N-(4-bromophenyl)-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-

y1)formamide (2c): ^1H NMR (CDCl_3 , 400 MHz, 298 K): δ 8.89 (s, 1H, NCHO), 7.53-7.51 (d, 2H, PhH), 7.08-7.06 (d, 2H, PhH), 1.34 (s, 12H, CH_3) ppm; $^{13}\text{C}\{\text{H}\}$ NMR (CDCl_3 , 50.28 MHz, 298 K): δ 165.05 (s, 1 C), 132.51 (s, 1 C), 131.86 (s, 1 C), 131.69 (s, 1 C), 130.03 (s, 1 C), 128.97 (s, 1 C), 120.67 (s, 1 C), 120.32 (s, 1 C), 84.70 (s, 1 C), 83.04 (s, 1 C), 24.56 (s, 1 C), 24.44 (s, 1 C), 24.39 (s, 1 C) ppm.

The spectroscopic data is consistent with the literature data.^{S2}

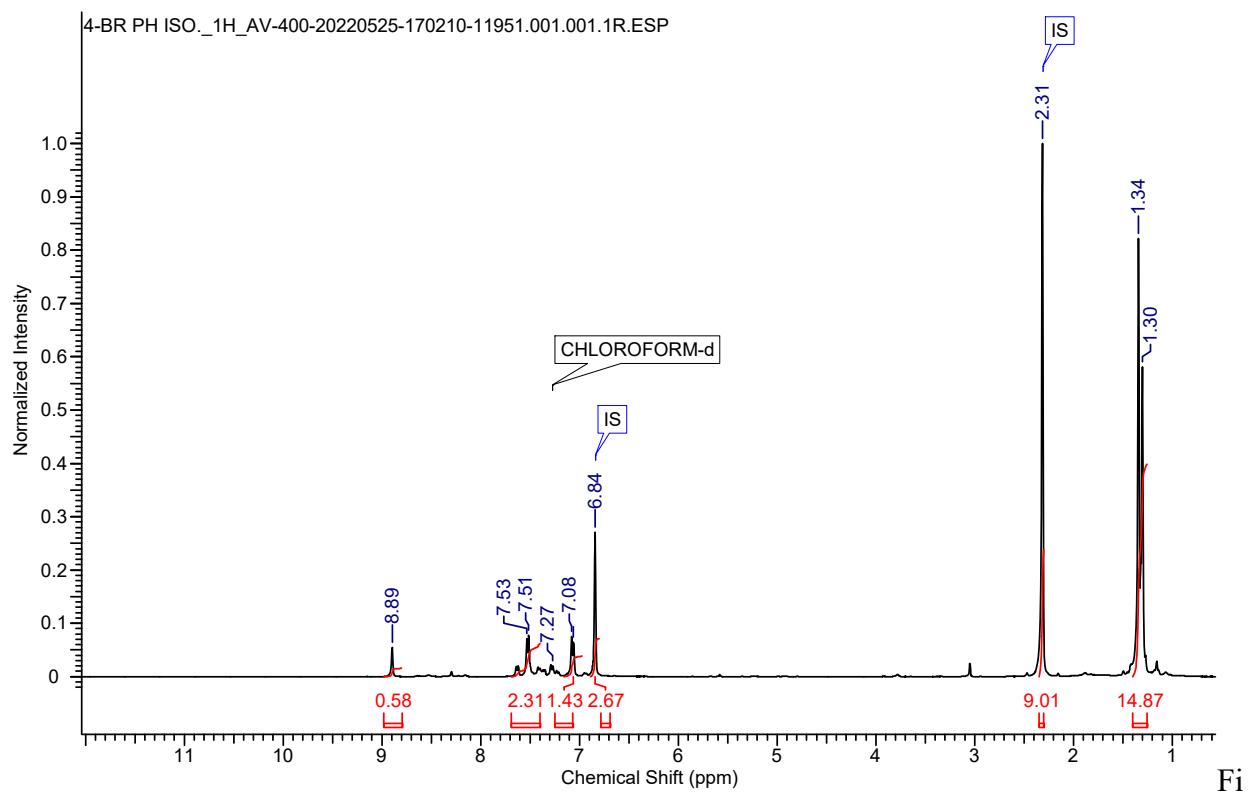


Figure S5. ^1H NMR spectrum of **2c** (CDCl_3 , 400 MHz, 298 K).

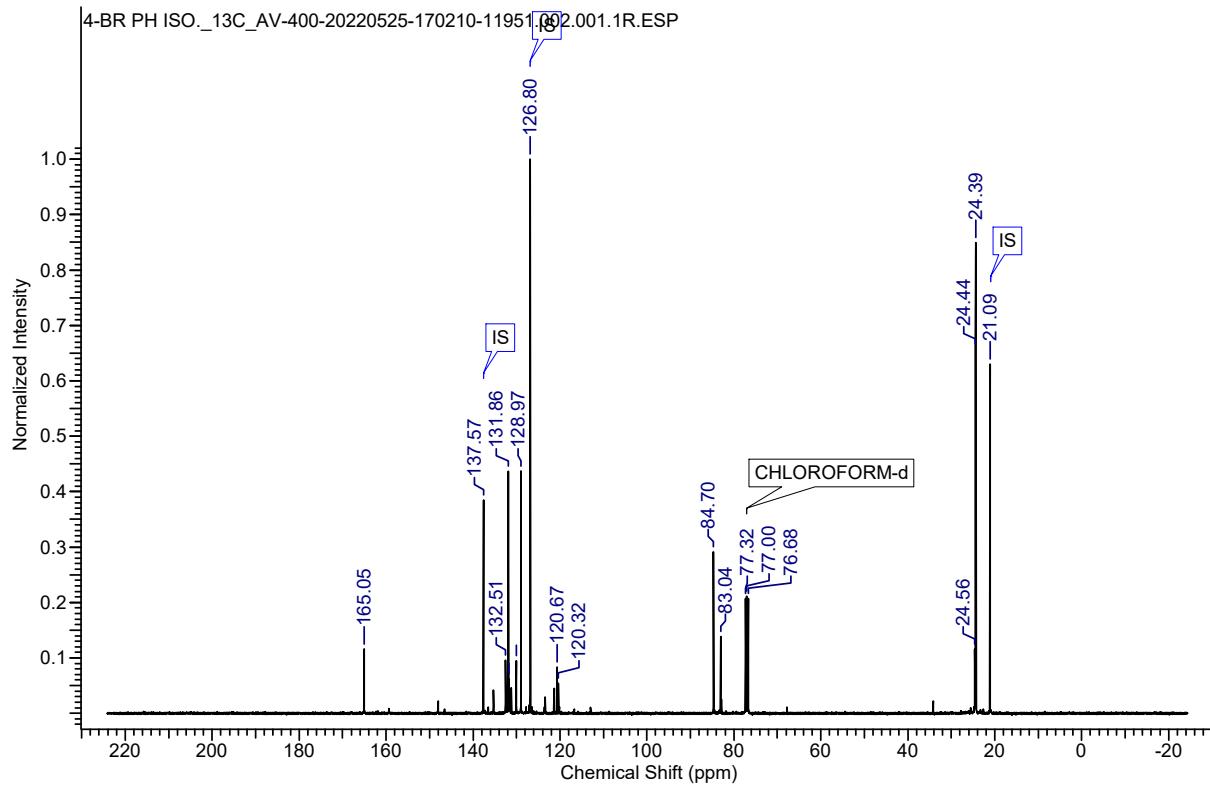
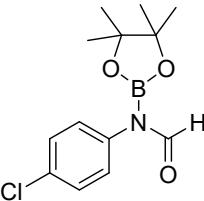


Figure S6. ^{13}C NMR spectrum of **2c** (CDCl_3 , 101 MHz, 298 K).

N-(4-chlorophenyl)-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)formamide (2d): ^1H


 ^1H NMR (CDCl_3 , 200 MHz, 298 K): δ 8.84 (s, 1H, NCHO), 7.33-7.30 (d, 2H, PhH), 7.08-7.06 (d, 2H, PhH), 1.29 (s, 12H, CH_3) ppm; $^{13}\text{C}\{\text{H}\}$ NMR (CDCl_3 , 101 MHz, 298 K): δ 165.10 (s, 1C), 129.72 (s, 1C), 129.51 (s, 1C), 128.88 (s, 1C), 128.60 (s, 1C), 84.67 (s, 1C), 83.01 (s, 1C), 24.44 (s, 1C), 24.37 (s, 1C), 24.28 (s, 1C) ppm.

The spectroscopic data is consistent with the literature data.^{S2}

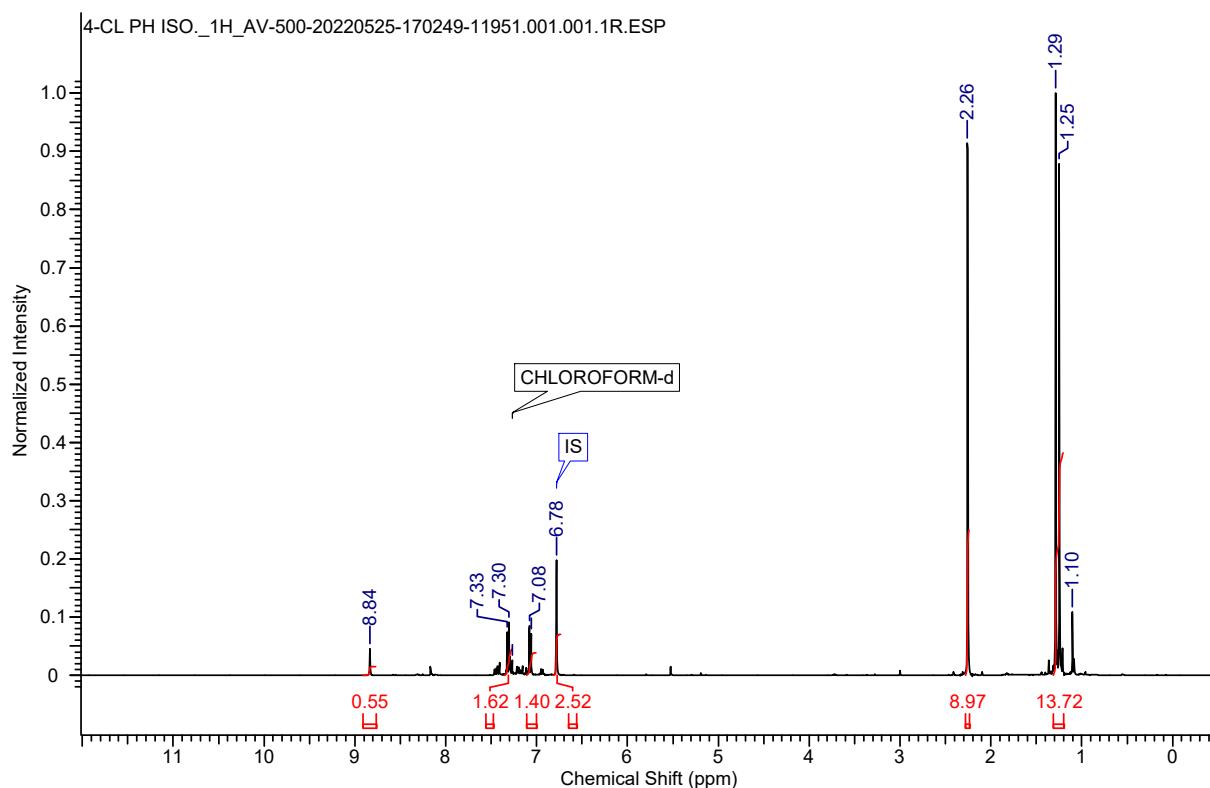


Figure S7. ^1H NMR spectrum of **2d** (CDCl_3 , 500 MHz, 298 K).

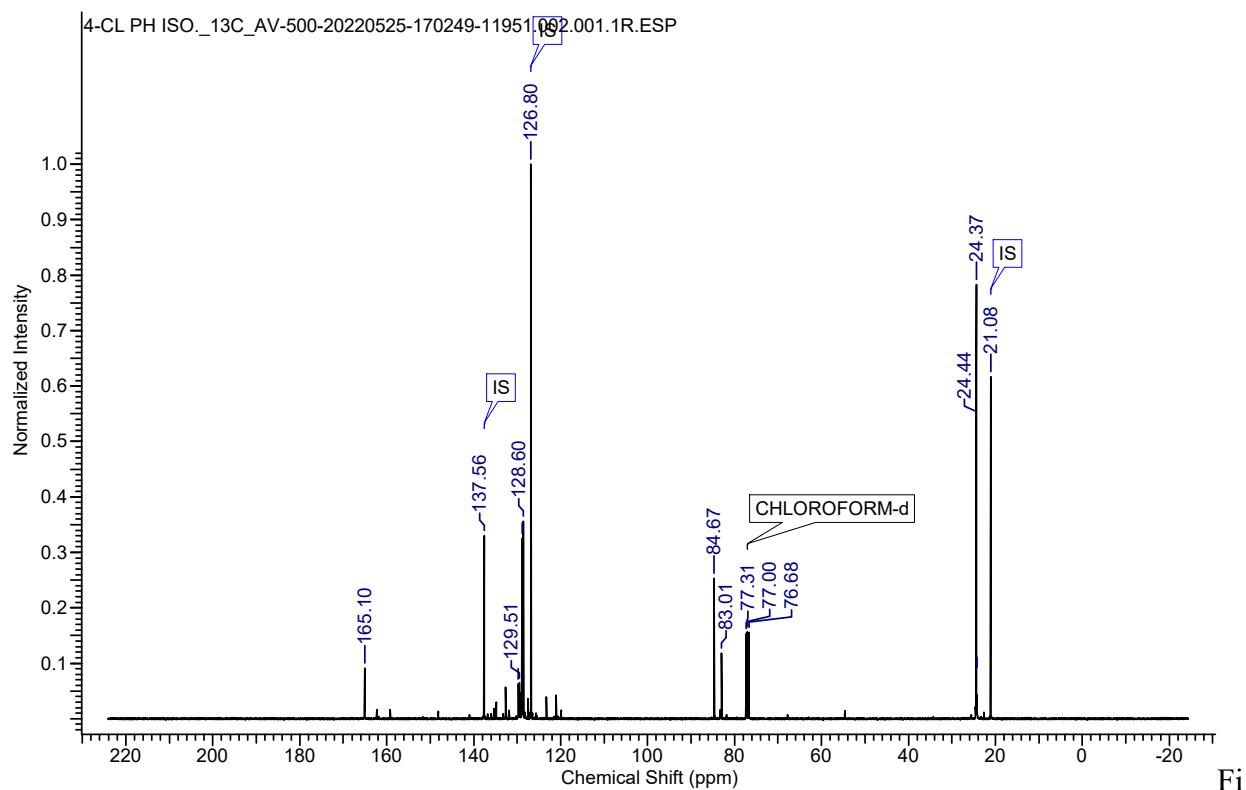


Figure S8. ^{13}C NMR spectrum of **2d** (CDCl_3 , 101 MHz, 298 K).

N-(2,4-dichlorophenyl)-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)formamide (2e): ^1H NMR (CDCl_3 , 200 MHz, 298 K): δ 8.91 (s, 1H, NCHO), 7.53-7.32 (m, 3H, PhH), 1.37 (s, 12H, CH_3) ppm; $^{13}\text{C}\{\text{H}\}$ NMR (CDCl_3 , 101 MHz, 298 K): δ 165.10 (s, 1C), 129.72 (s, 1C), 129.51 (s, 1C), 128.88 (s, 1C), 128.60 (s, 1C), 84.67 (s, 1C), 83.01 (s, 1C), 24.44 (s, 1C), 24.37 (s, 1C), 24.28 (s, 1C) ppm.

The spectroscopic data is consistent with the literature data.^{S2}

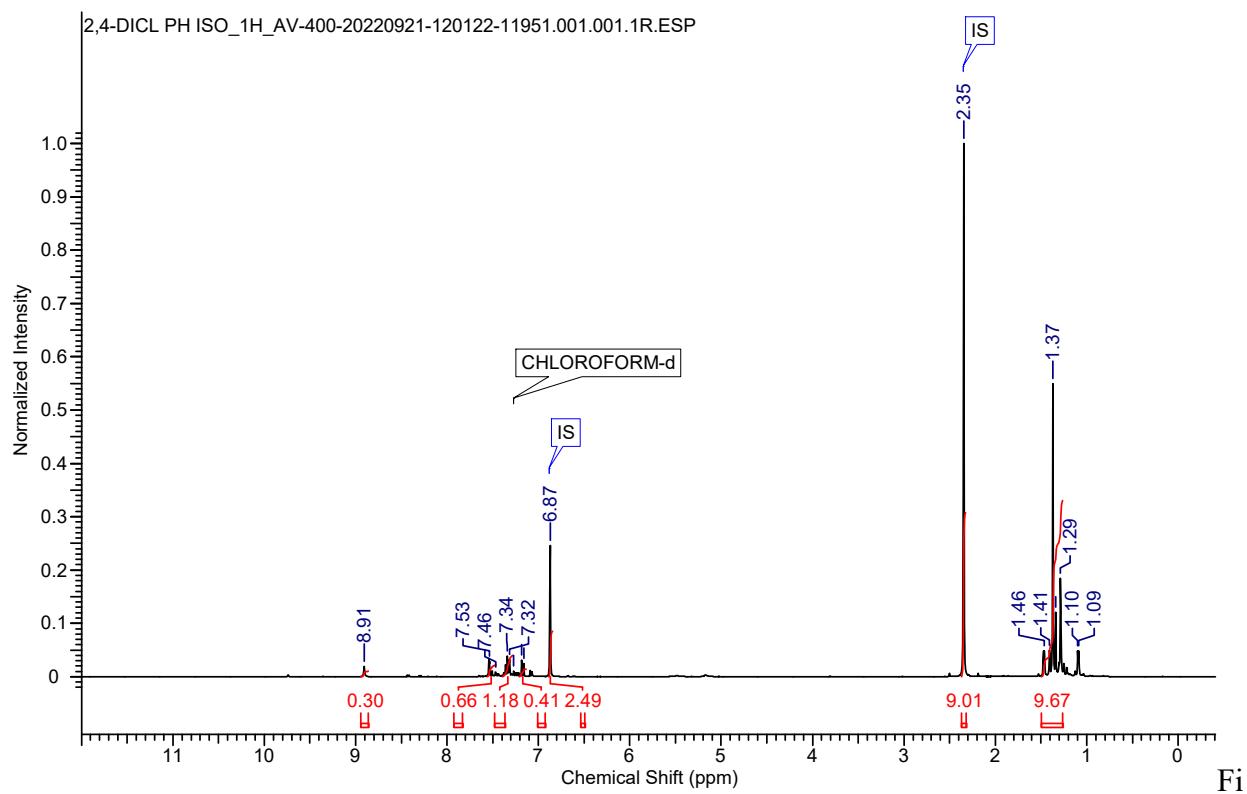


Figure S9. ^1H NMR spectrum of **2e** (CDCl_3 , 400 MHz, 298 K).

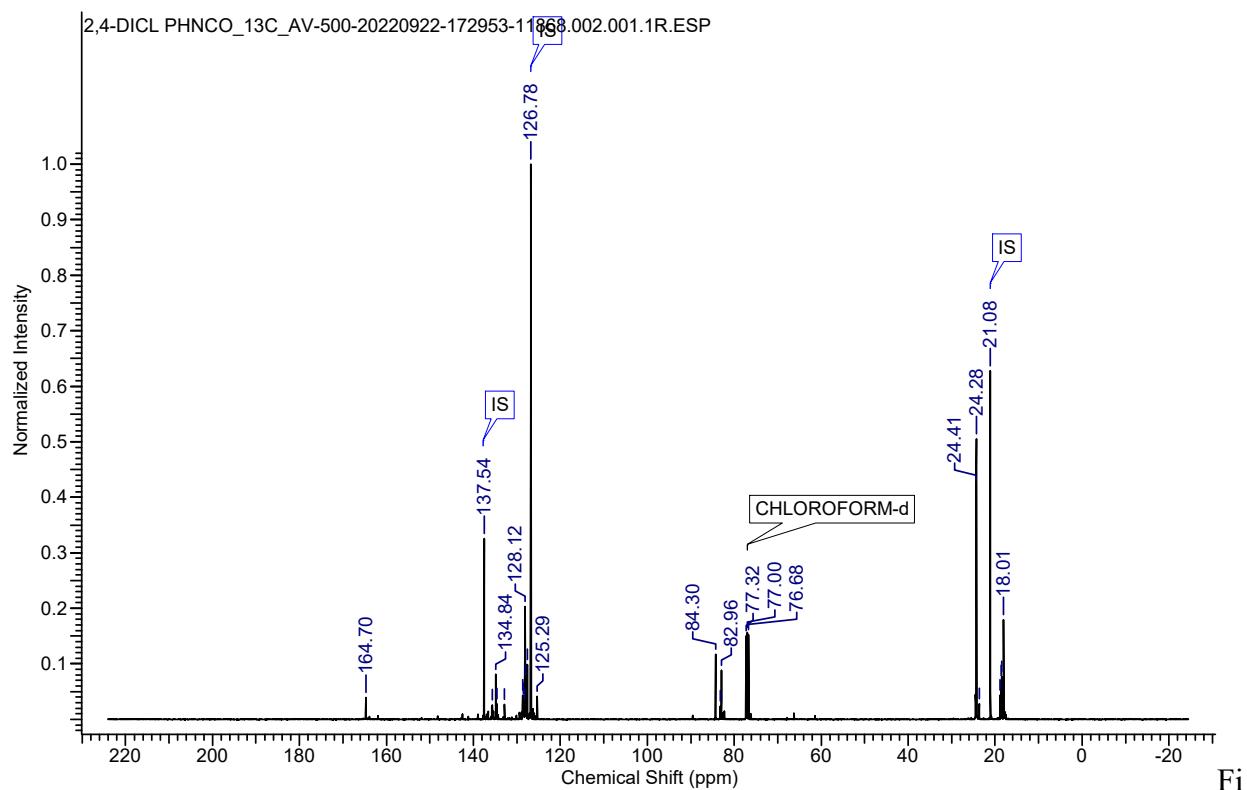
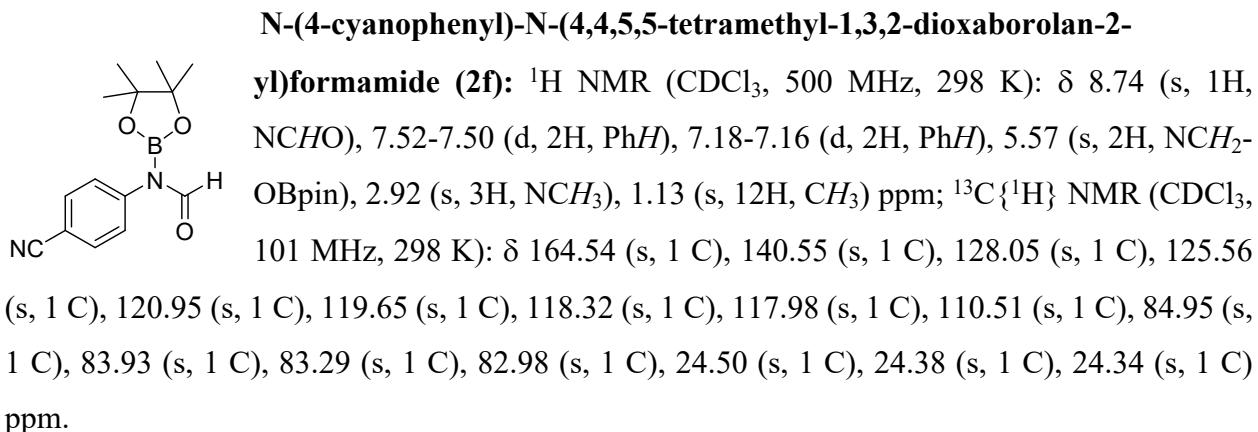


Figure S10. ^{13}C NMR spectrum of **2e** (CDCl_3 , 101 MHz, 298 K).



The spectroscopic data is consistent with the literature data.^{S2}

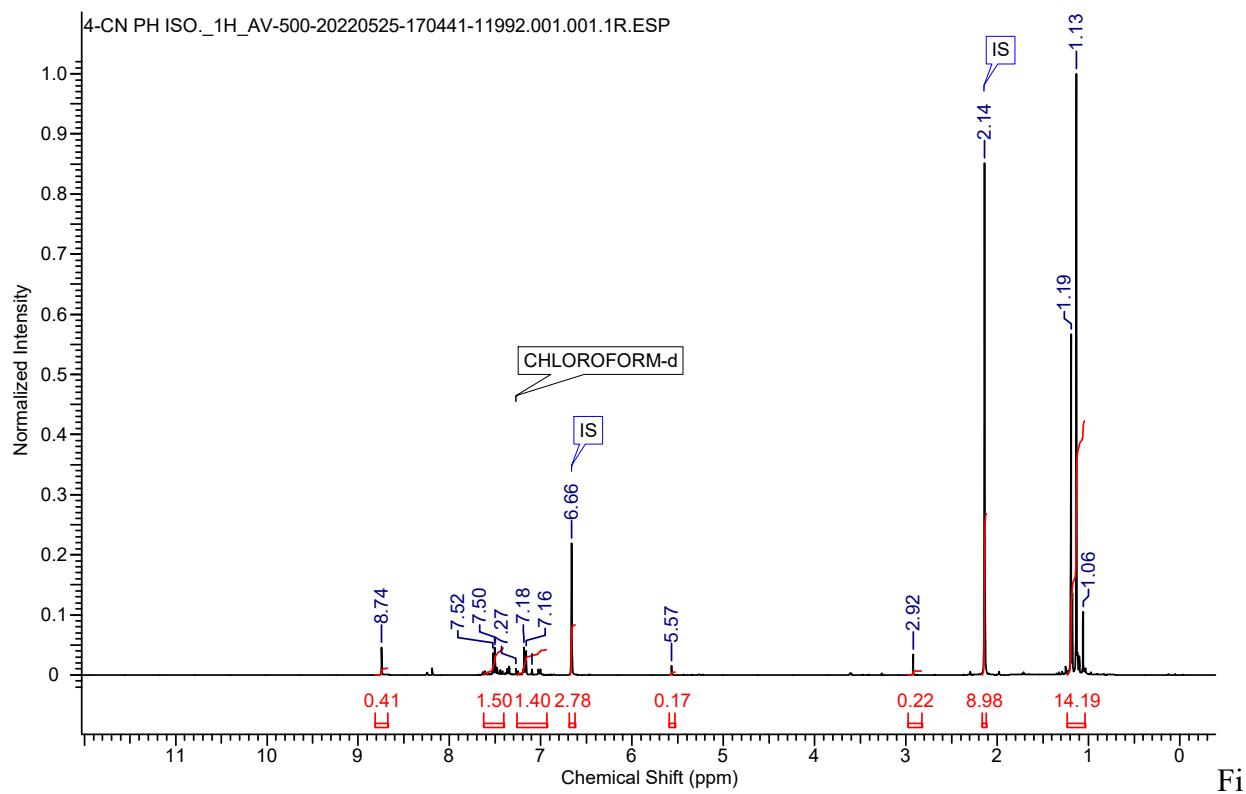


Figure S11. ^1H NMR spectrum of **2f** (CDCl_3 , 500 MHz, 298 K).

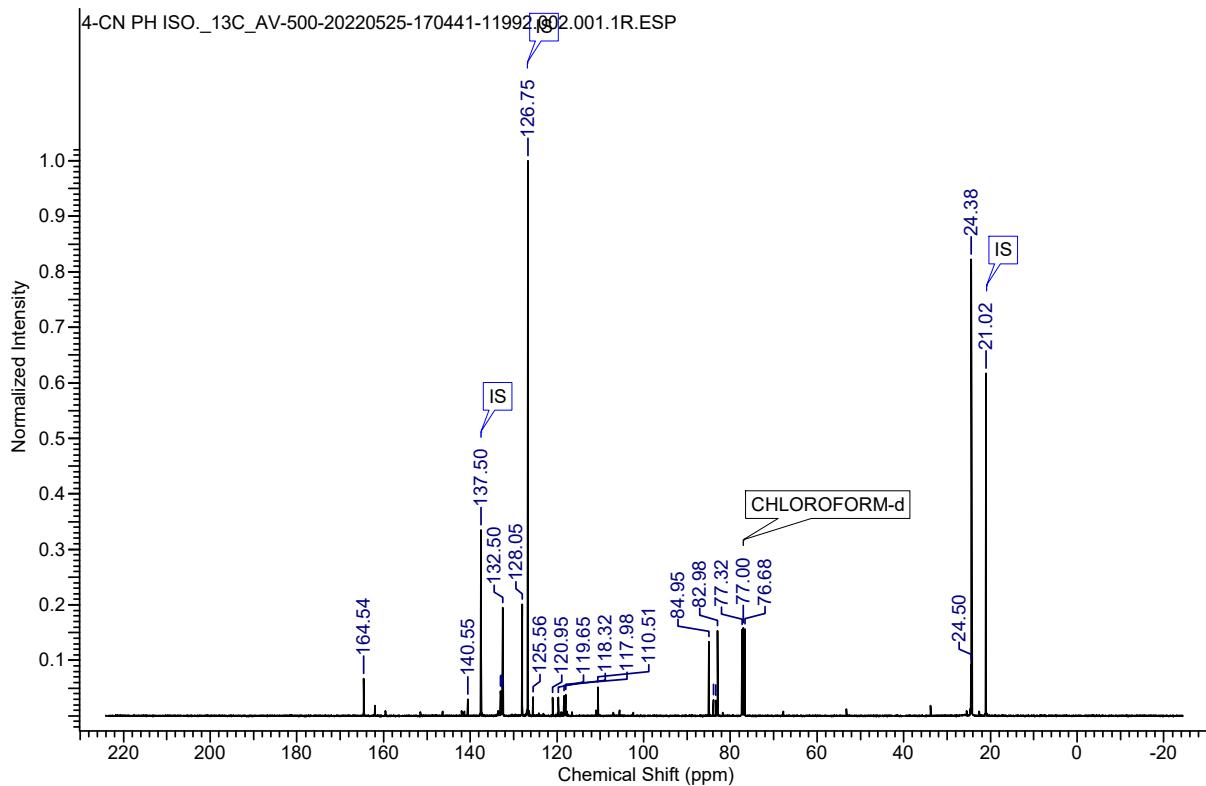
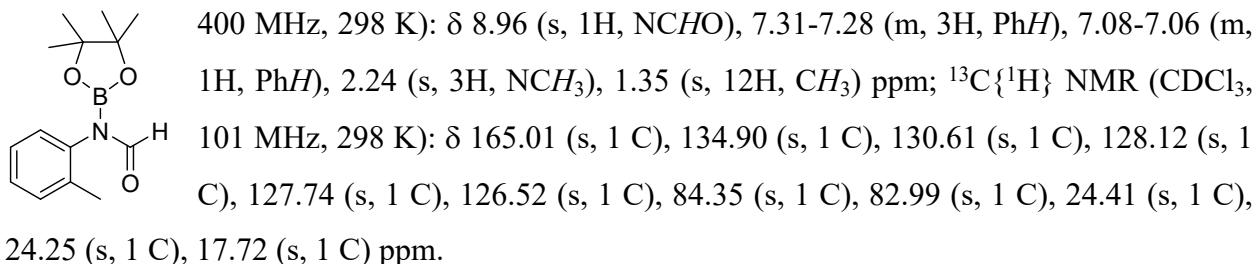


Figure S12. ^{13}C NMR spectrum of **2f** (CDCl_3 , 101 MHz, 298 K).

N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-N-(o-tolyl)formamide (2g): ^1H NMR (CDCl_3 ,



The spectroscopic data is consistent with the literature data.^{S2}

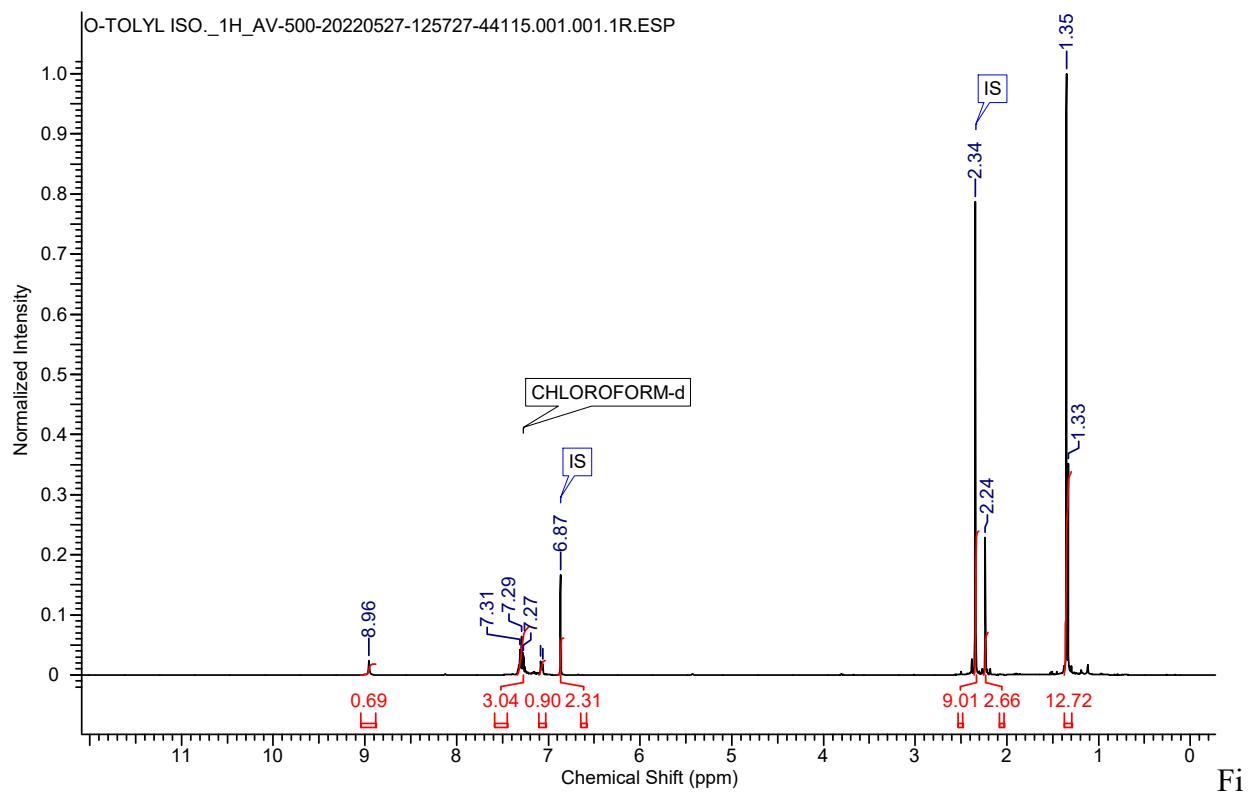


Figure S13. ^1H NMR spectrum of **2g** (CDCl_3 , 500 MHz, 298 K).

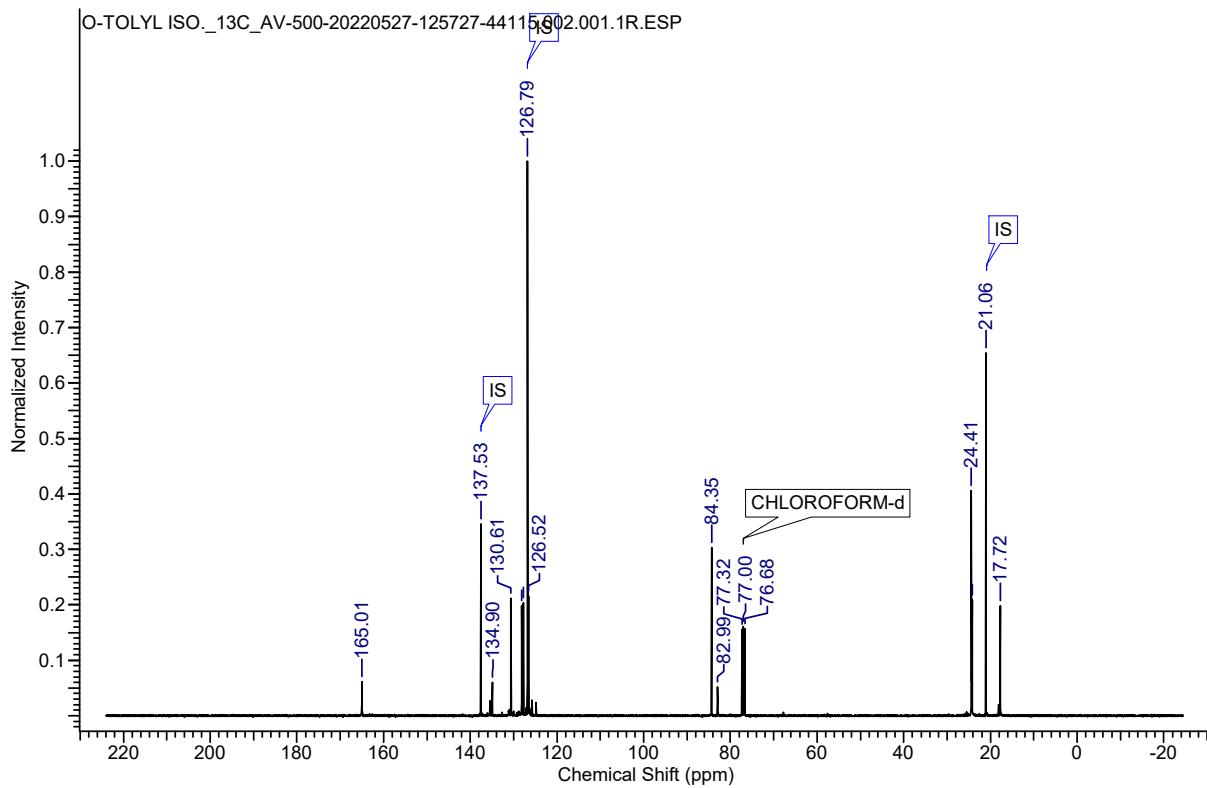
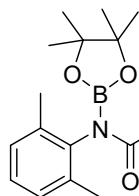


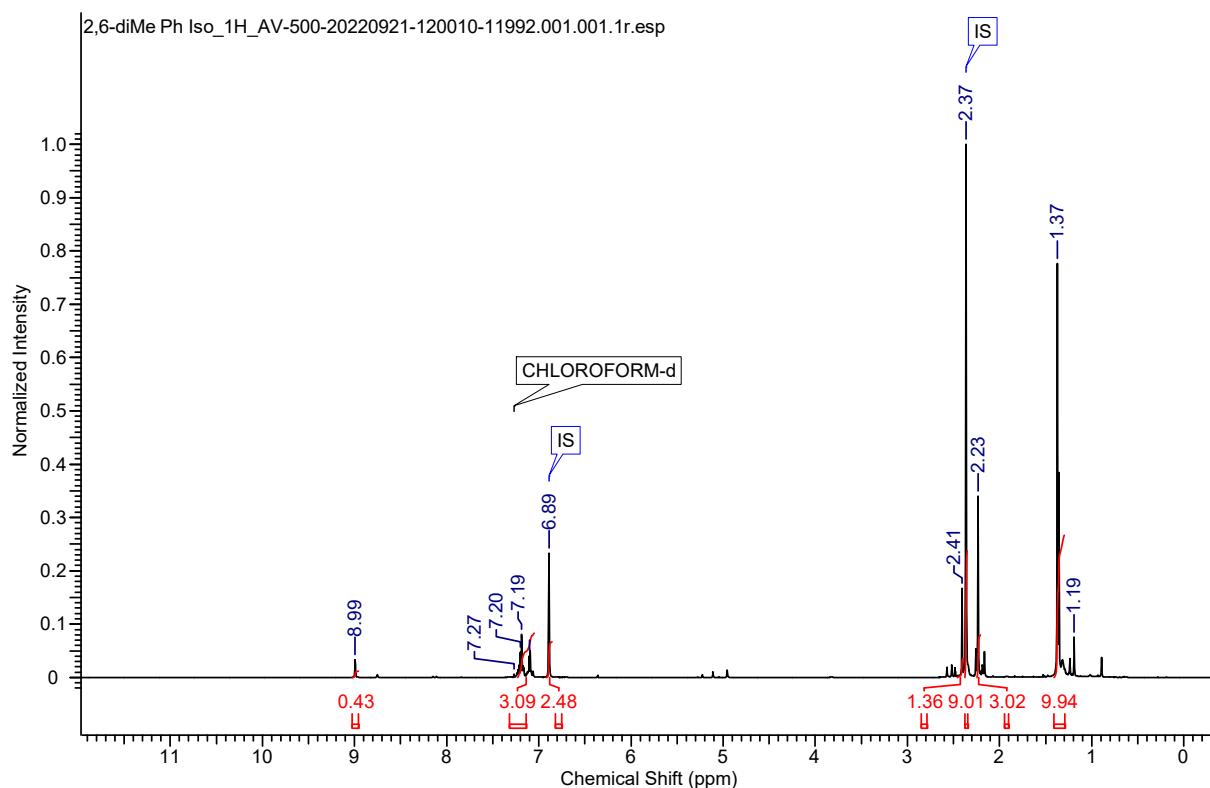
Figure S14. ^{13}C NMR spectrum of **2g** (CDCl_3 , 101 MHz, 298 K).

N-(2,6-dimethylphenyl)-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)formamide (2h): ^1H



 ^1H NMR (CDCl_3 , 500 MHz, 298 K): δ 8.99 (s, 1H, NCHO), 7.20-7.07 (m, 3H, PhH), 2.41 (s, 3H, PhCH_3), 2.23 (s, 3H, PhCH_3), 1.37 (s, 12H, CH_3) ppm; $^{13}\text{C}\{\text{H}\}$ NMR (CDCl_3 , 101 MHz, 298 K): δ 164.70 (s, 1 C), 134.84 (s, 1 C), 128.12 (s, 1 C), 127.94 (s, 1 C), 127.59 (s, 1 C), 84.30 (s, 1 C), 82.96 (s, 1 C), 24.41 (s, 1 C), 24.28 (s, 1 C), 18.59 (s, 1 C), 18.41 (s, 1 C), 18.01 (s, 1 C) ppm.

The spectroscopic data is consistent with the literature data.^{S2}



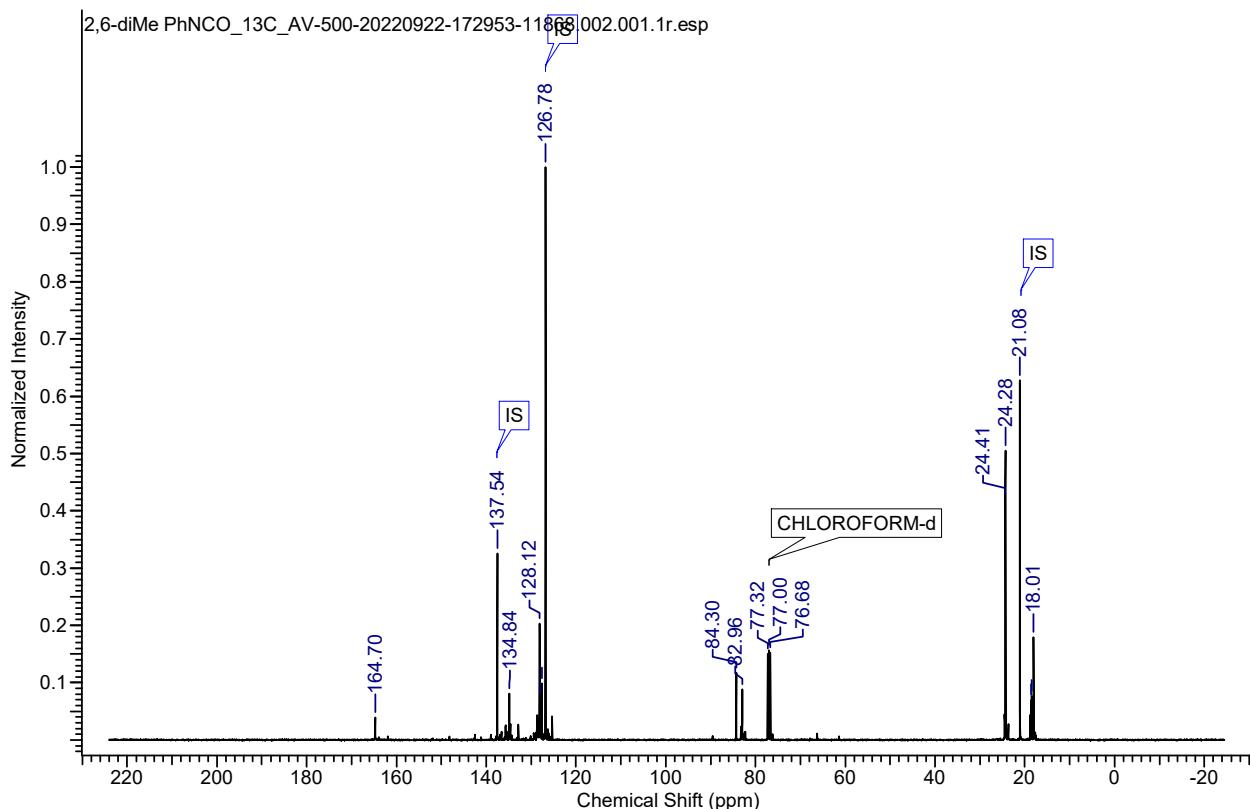


Figure S16. ^{13}C NMR spectrum of **2h** (CDCl_3 , 101 MHz, 298 K).

N-(4-butylphenyl)-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)formamide (2i): ^1H NMR

$(\text{CDCl}_3, 100 \text{ MHz}, 298 \text{ K})$: δ ppm 8.88 (s, 1H, NCHO), 7.19-7.17 (d, 2H, PhH), 7.05-7.03 (d, 2H, PhH), 2.62-2.58 (t, 2H, Bu), 1.62-1.59 (t, 2H, Bu), 1.39-1.35 (t, 2H, Bu), 1.30 (s, 12H, CH_3) 0.95-0.92 (t, 3H, Bu) ppm; $^{13}\text{C}\{\text{H}\}$ NMR $(\text{CDCl}_3, 101 \text{ MHz}, 298 \text{ K})$: δ 165.48 (s, 1 C), 141.51 (s, 1 C), 128.67 (s, 1 C), 126.90 (s, 1 C), 84.36 (s, 1 C), 82.98 (s, 1 C), 35.16 (s, 1 C), 33.28 (s, 1 C), 24.54 (s, 1 C), 24.41 (s, 1 C), 24.34 (s, 1 C), 22.34 (s, 1 C), 13.83 (s, 1 C) ppm.

The spectroscopic data is consistent with the literature data.^{S2}

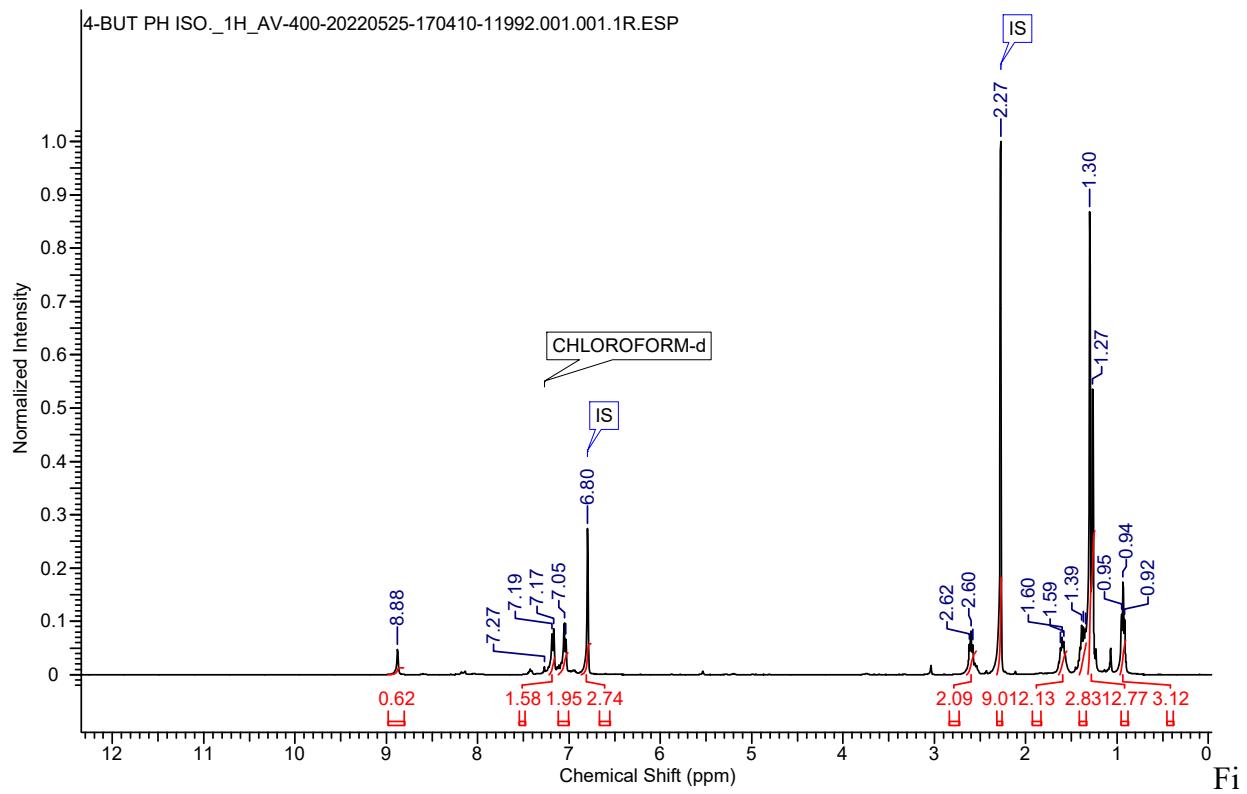


Figure S17. ^1H NMR spectrum of **2i** (CDCl_3 , 400 MHz, 298 K).

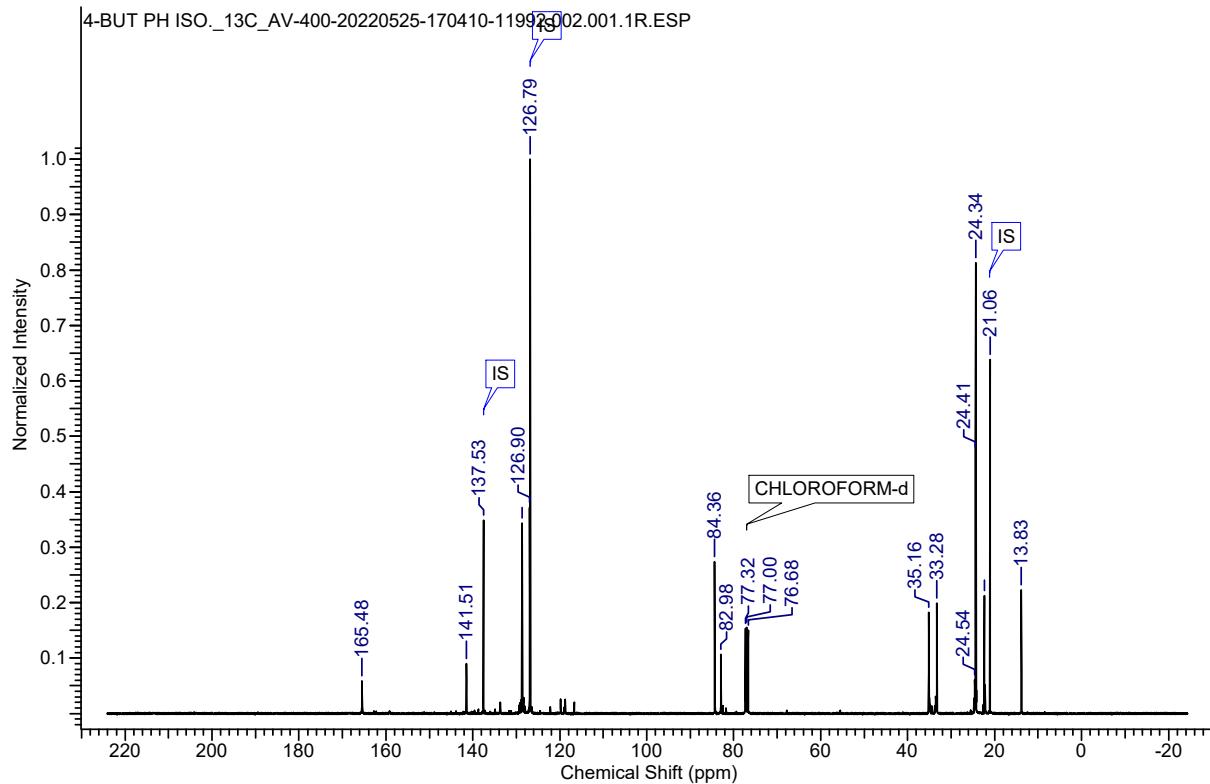
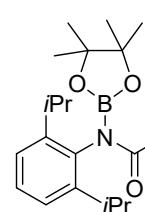


Figure S18. ^{13}C NMR spectrum of **2i** (CDCl_3 , 101 MHz, 298 K).

N-(2,6-diisopropylphenyl)-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)formamide (2j):



¹H NMR (CDCl_3 , 500 MHz, 298 K): δ 8.91 (s, 1H, NCHO), 7.15-7.08 (m, 3H, PhH), 4.97 (s, 2H, NCH₂), 3.27-3.22 {q, 1H, CH-(CH₃)₂}, 2.83-2.78 (q, 1H, CH-(CH₃)₂), 1.22 (s, 12H, CH₃), 1.15-1.13 {d, 6H, CH-(CH₃)₂}, 1.04-1.02 {d, 6H, CH-(CH₃)₂} ppm; ¹³C{¹H} NMR (CDCl_3 , 101 MHz, 298 K): δ 165.45 (s, 1 C), 147.31 (s, 1 C), 145.22 (s, 1 C), 142.92 (s, 1 C), 128.37 (s, 1 C), 126.90 (s, 1 C), 123.46 (s, 1 C), 123.35 (s, 1 C), 123.28 (s, 1 C), 84.39 (s, 1 C), 82.73 (s, 1 C), 82.21 (s, 1 C), 77.07 (s, 1 C), 28.65 (s, 1 C), 27.98 (s, 1 C), 24.81 (s, 1 C), 24.45 (s, 1 C), 24.34 (s, 1 C), 24.33 (s, 1 C), 23.78 (s, 1 C), 23.57 (s, 1 C), 22.76 (s, 1 C) ppm.

The spectroscopic data is consistent with the literature data.^{S2}

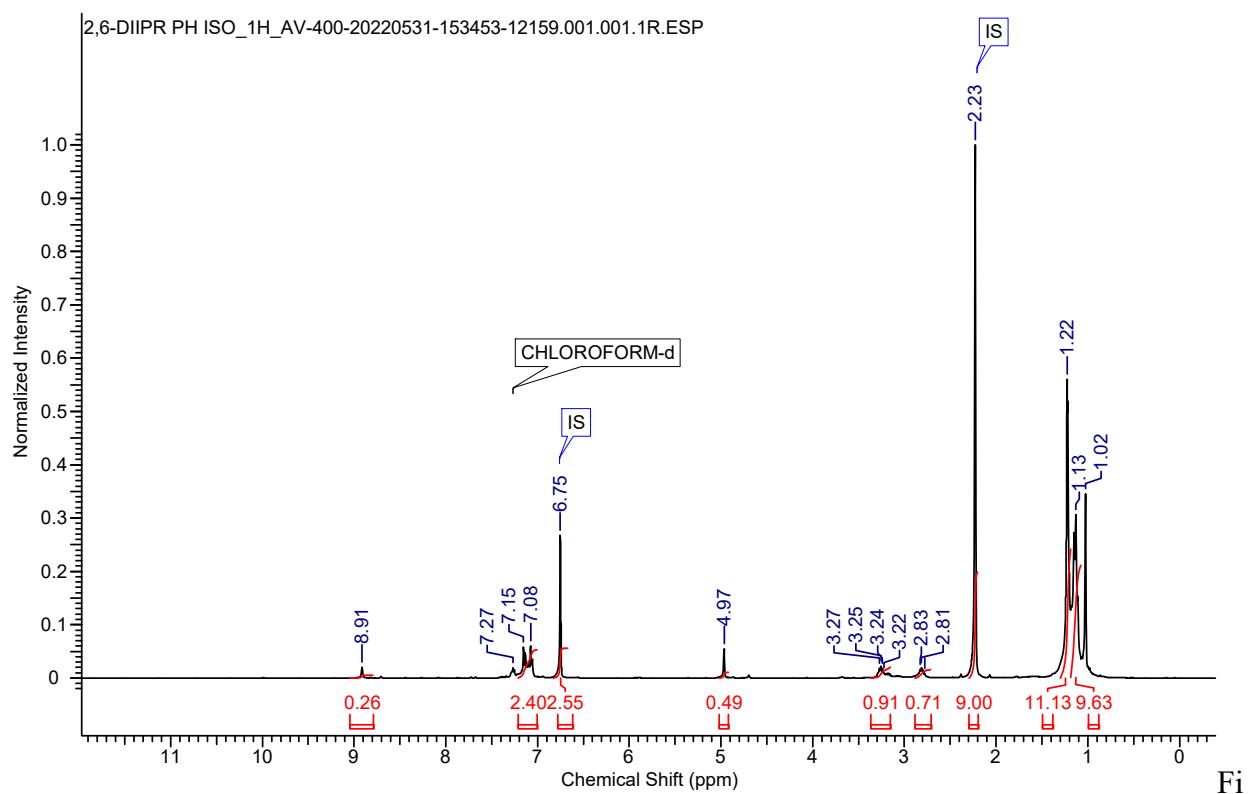


Figure S19. ¹H NMR spectrum of **2j** (CDCl_3 , 400 MHz, 298 K).

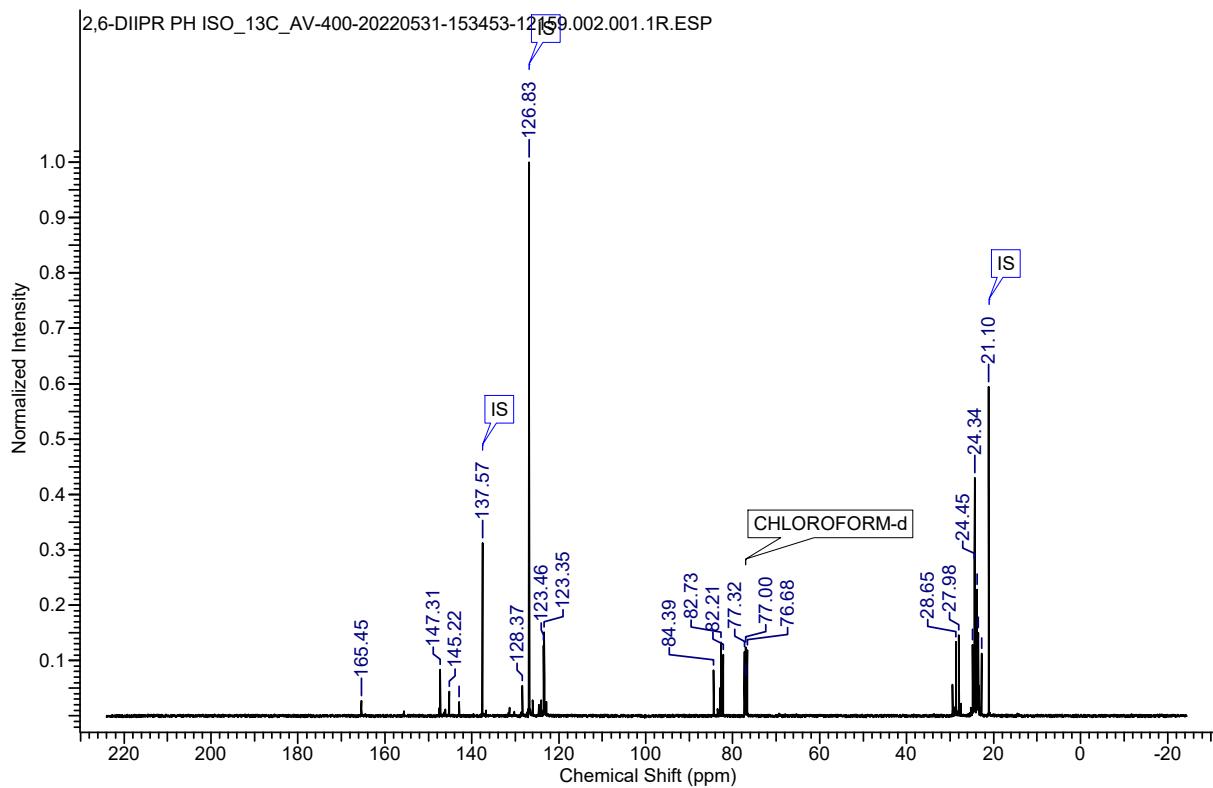
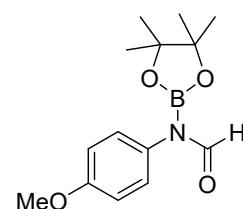


Figure S20. ^{13}C NMR spectrum of **2j** (CDCl_3 , 101 MHz, 298 K).

N-(4-methoxyphenyl)-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)formamide (2k): ^1H


 ^1H NMR (CDCl_3 , 500 MHz, 298 K): δ 8.94 (s, 1H, NCHO), 6.99-6.96 (d, 2H, PhH), 6.82-6.80 (d, 2H, PhH), 3.69 (s, 3H, PhCH_3), 1.22 (s, 12H, CH_3) ppm;
 $^{13}\text{C}\{\text{H}\}$ NMR (CDCl_3 , 101 MHz, 298 K): δ 165.56 (s, 1 C), 158.25 (s, 1 C), 128.18 (s, 1 C), 125.45 (s, 1 C), 124.04 (s, 1 C), 114.02 (s, 1 C), 84.37 (s, 1 C), 82.95 (s, 1 C), 55.16 (s, 1 C), 24.41 (s, 1 C), 24.34 (s, 1 C) ppm.

The spectroscopic data is consistent with the literature data.^{S2}

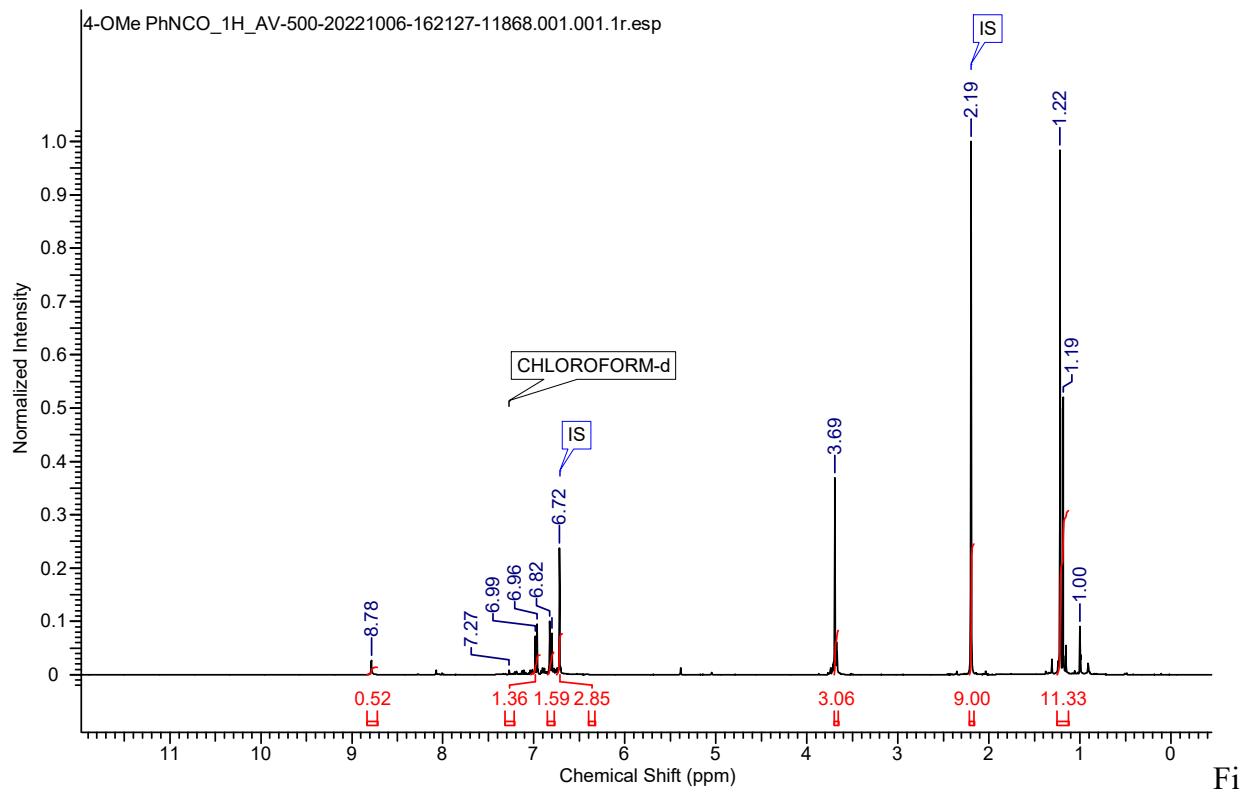


Figure S21. ^1H NMR spectrum of **2k** (CDCl_3 , 400 MHz, 298 K).

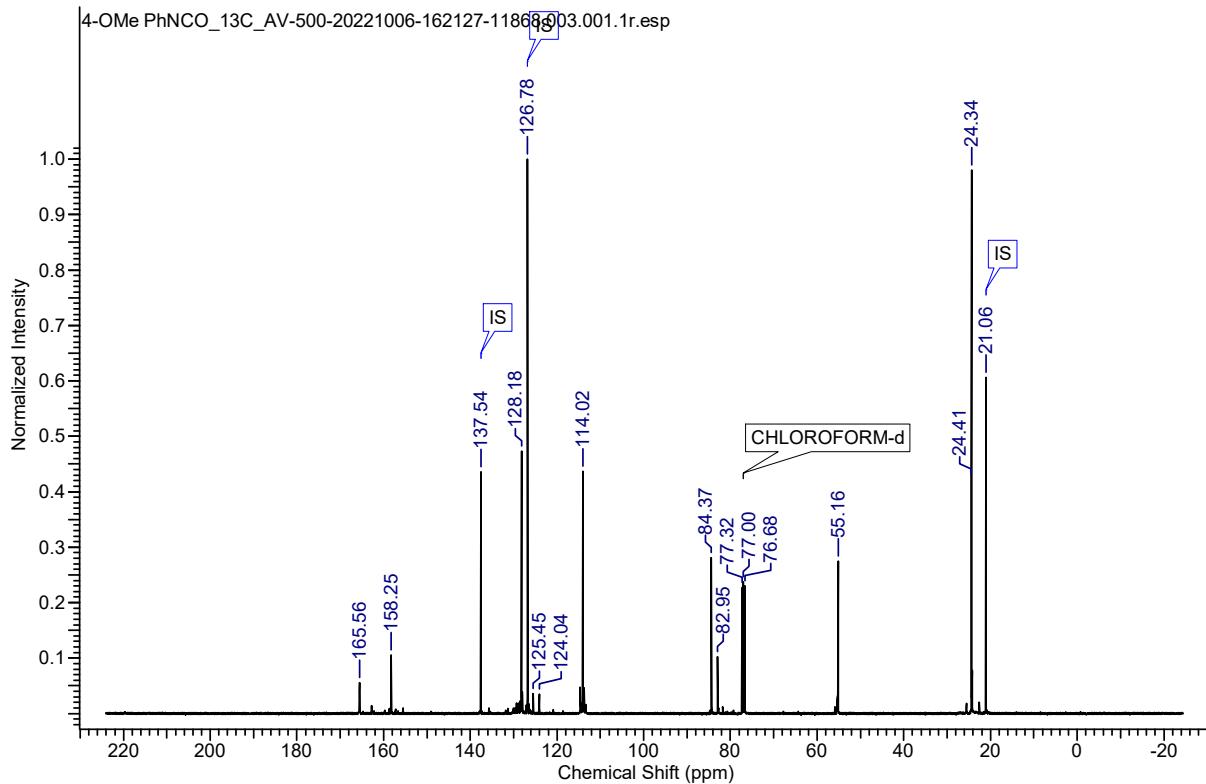
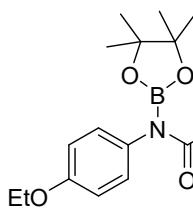


Figure S22. ^{13}C NMR spectrum of **2k** (CDCl_3 , 101 MHz, 298 K).

N-(4-ethoxyphenyl)-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)formamide (2l): ^1H



 ^1H NMR (CDCl_3 , 500 MHz, 298 K): δ 8.93 (s, 1H, NCHO), 7.11-7.09 (d, 2H, PhH), 6.95-6.93 (d, 2H, PhH), 4.08-4.03 (q, 2H, Ph-OCH₂CH₃), 1.47-1.44 (t, 3H, Ph-OCH₂CH₃), 1.36 (s, 12H, CH₃) ppm; $^{13}\text{C}\{\text{H}\}$ NMR (CDCl_3 , 101 MHz, 298 K): δ ppm 165.58 (s, 1C), 157.67 (s, 1C), 129.30 (s, 1C), 128.14 (s, 1C), 118.66 (s, 1C), 115.12 (s, 1C), 114.86 (s, 1C), 114.51 (s, 1C), 84.35 (s, 1C), 82.98 (s, 1C), 63.59 (s, 1C), 63.54 (s, 1C), 63.36 (s, 1C), 24.75 (s, 1C), 24.53 (s, 1C), 24.40 (s, 1C), 24.34 (s, 1C), 24.25 (s, 1C), 14.71 (s, 1C), 14.63 (s, 1C), 14.59 (s, 1C) ppm.

The spectroscopic data is consistent with the literature data.^{S2}

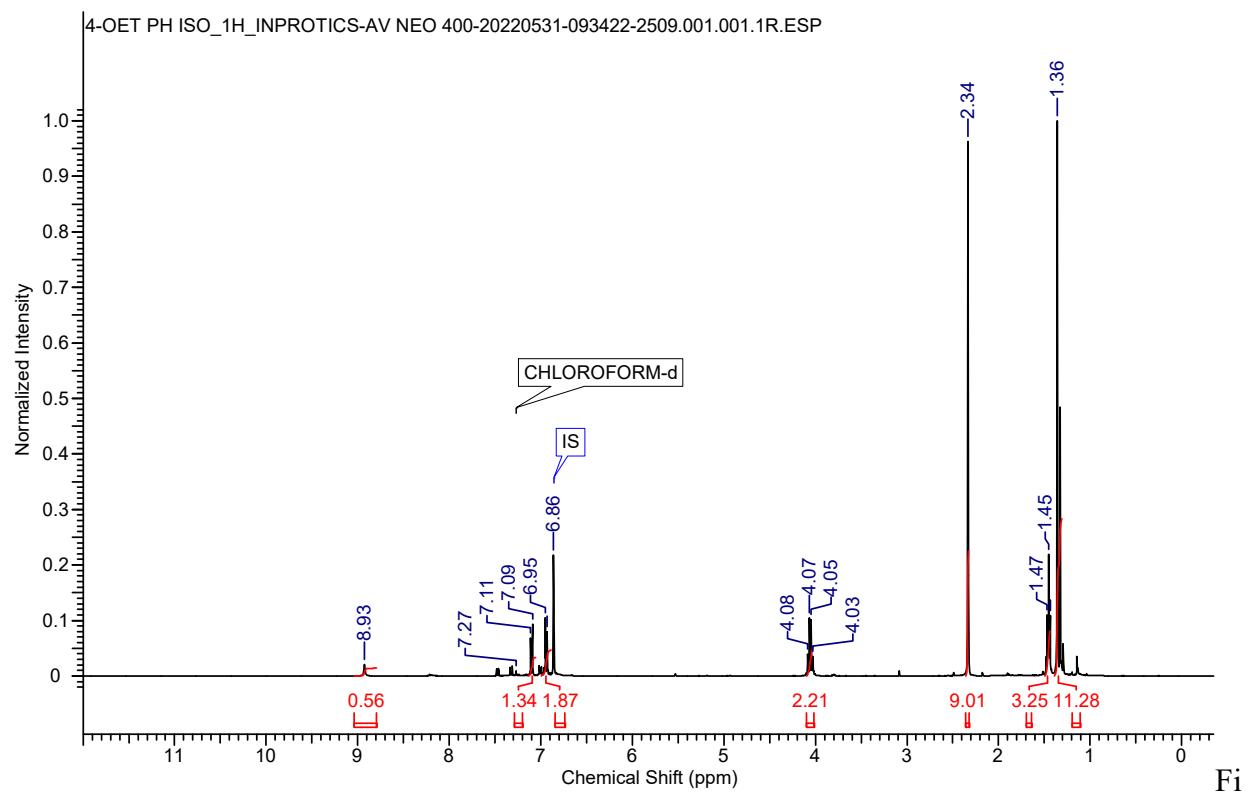


Figure S23. ^1H NMR spectrum of **2l** (CDCl_3 , 500 MHz, 298 K).

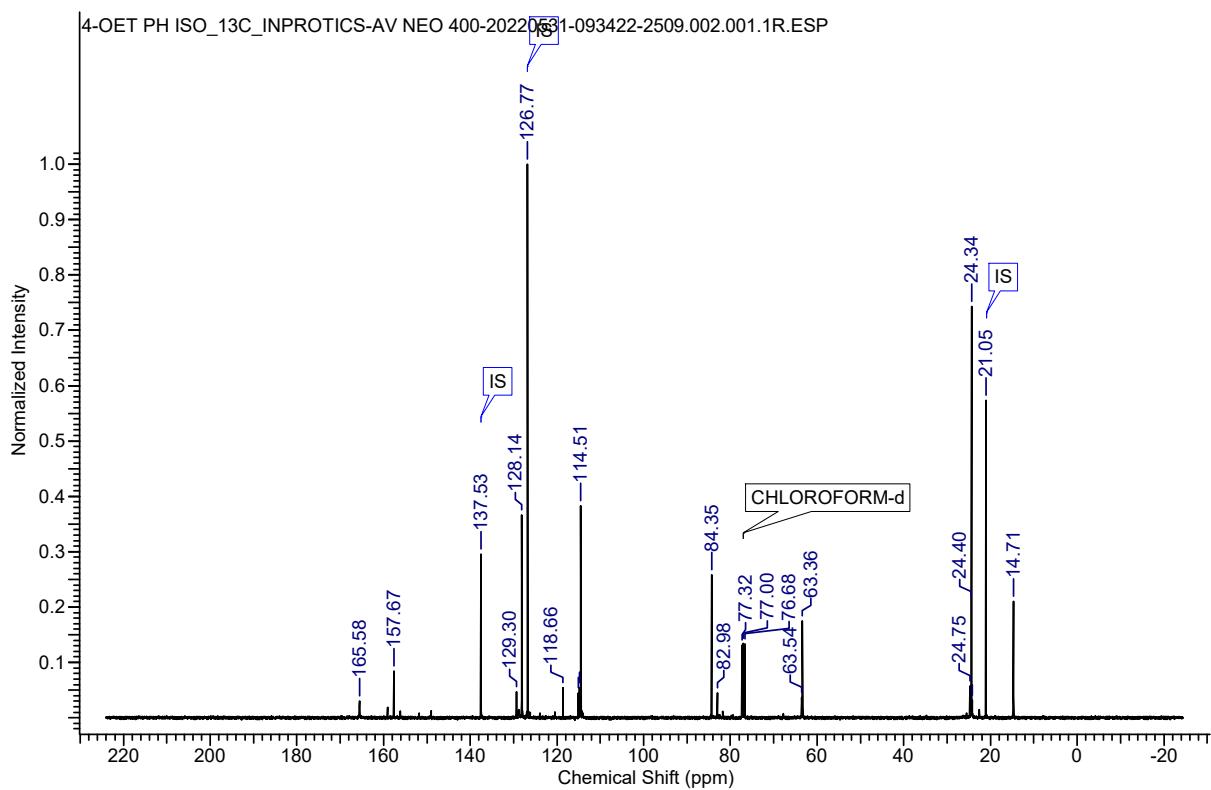
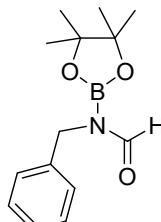


Figure S24. ^{13}C NMR spectrum of **2I** (CDCl_3 , 100.28 MHz, 298 K).

N-benzyl-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)formamide (2I): ^1H NMR (CDCl_3 ,



 $500 \text{ MHz}, 298 \text{ K}): \delta 8.79 (\text{s}, 1\text{H}, \text{NCHO}), 7.43\text{-}7.29 (\text{m}, 5\text{H}, \text{PhH}), 5.10 (\text{s}, 2\text{H}, \text{NCH}_2), 4.58 (\text{s}, 2\text{H}, \text{PhCH}_2), 1.35 (\text{s}, 12\text{H}, \text{CH}_3) \text{ ppm}; ^{13}\text{C}\{\text{H}\} \text{ NMR} (\text{CDCl}_3, 101 \text{ MHz}, 298 \text{ K}): \delta 165.61 (\text{s}, 1\text{C}), 148.98 (\text{s}, 1\text{C}), 138.76 (\text{s}, 1\text{C}), 135.71 (\text{s}, 1\text{C}), 128.99 (\text{s}, 1\text{C}), 128.79 (\text{s}, 1\text{C}), 128.72 (\text{s}, 1\text{C}), 128.57 (\text{s}, 1\text{C}), 128.50 (\text{s}, 1\text{C}), 128.33 (\text{s}, 1\text{C}), 128.18 (\text{s}, 1\text{C}), 128.09 (\text{s}, 1\text{C}), 128.05 (\text{s}, 1\text{C}), 127.83 (\text{s}, 1\text{C}), 127.75 (\text{s}, 1\text{C}), 127.19 (\text{s}, 1\text{C}), 126.96 (\text{s}, 1\text{C}), 126.60 (\text{s}, 1\text{C}), 84.28 (\text{s}, 1\text{C}), 82.99 (\text{s}, 1\text{C}), 46.12 (\text{s}, 1\text{C}), 44.29 (\text{s}, 1\text{C}), 43.41 (\text{s}, 1\text{C}), 24.53 (\text{s}, 1\text{C}), 24.42 (\text{s}, 1\text{C}) \text{ ppm}.$

The spectroscopic data is consistent with the literature data.^{S2}

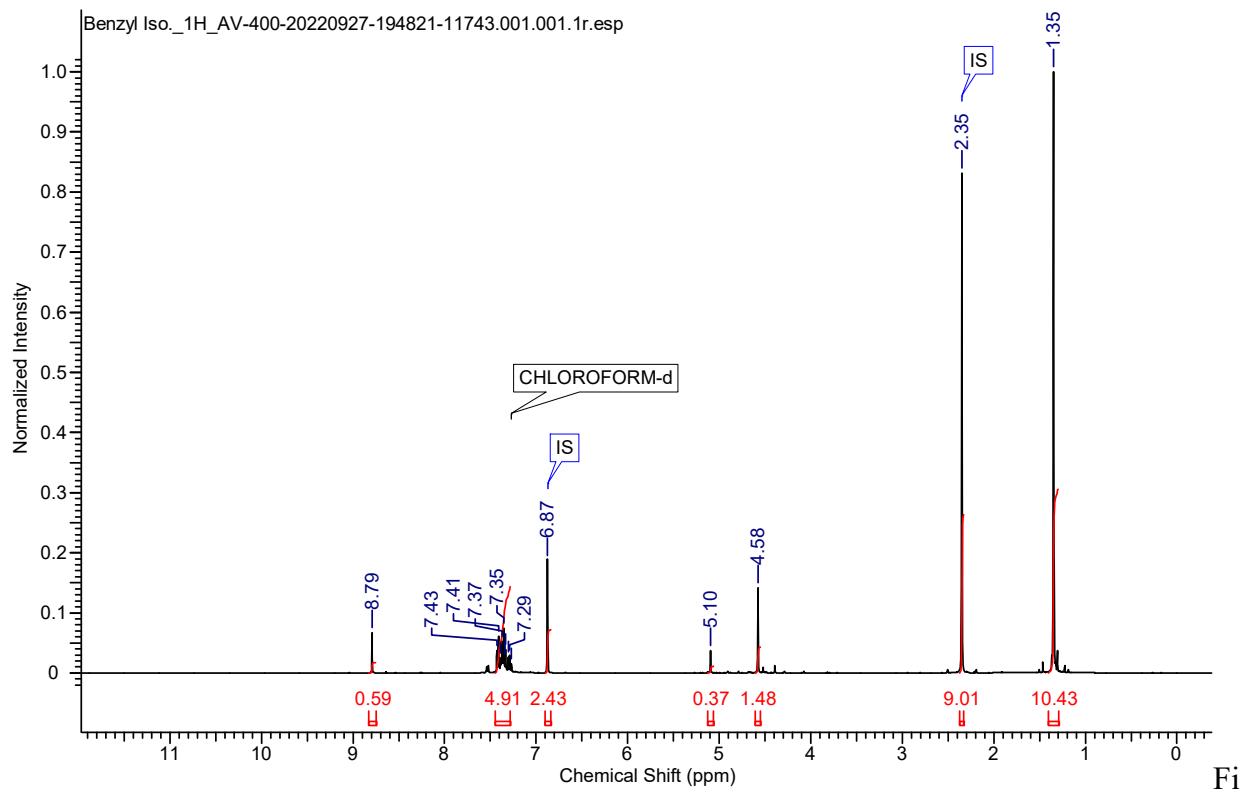


Figure S25. ^1H NMR spectrum of **2m** (CDCl_3 , 500 MHz, 298 K).

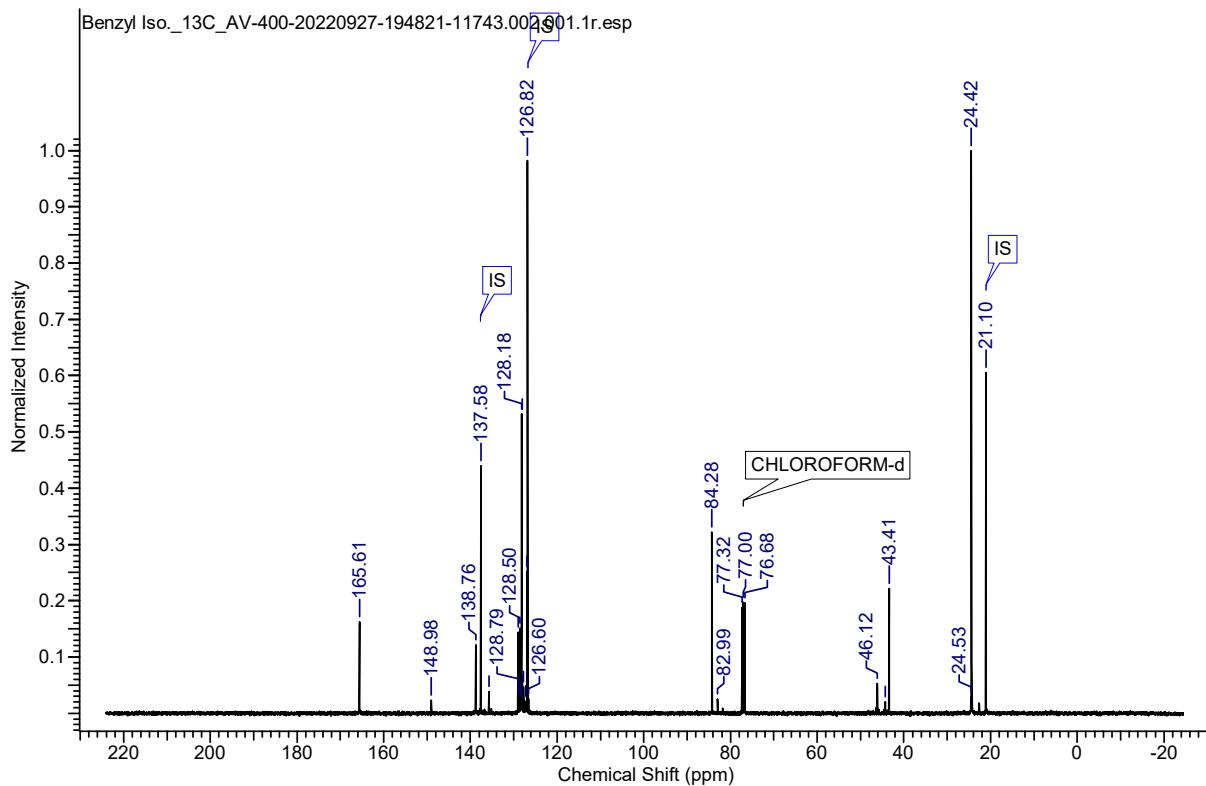
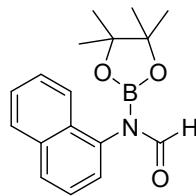


Figure S26. ^{13}C NMR spectrum of **2m** (CDCl_3 , 101 MHz, 298 K).

N-(naphthalen-1-yl)-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)formamide(2n):



¹H NMR (CDCl_3 , 400 MHz, 298 K): δ ppm 9.20 (s, 1 H), 7.96-7.90 (m, 2 H), 7.81-7.79 (d, 1H), 7.60-7.55 (m, 3H), 7.37-7.35 (d, 1H), 1.36 (s, 12 H) ppm; ¹³C{¹H} NMR (CDCl_3 , 101 MHz, 298 K): δ ppm 165.49 (s, 1 C), 134.27 (s, 1 C), 133.14 (s, 1 C), 130.07 (s, 1 C), 128.35 (s, 1 C), 128.18 (s, 1 C), 126.43 (s, 1 C), 125.96 (s, 1 C), 125.57 (s, 1 C), 125.37 (s, 1 C), 122.26 (s, 1 C), 84.46 (s, 1 C), 82.99 (s, 1 C), 24.43 (s, 1 C), 24.12 (s, 1 C) ppm.

The spectroscopic data is consistent with the literature data.^{S2}

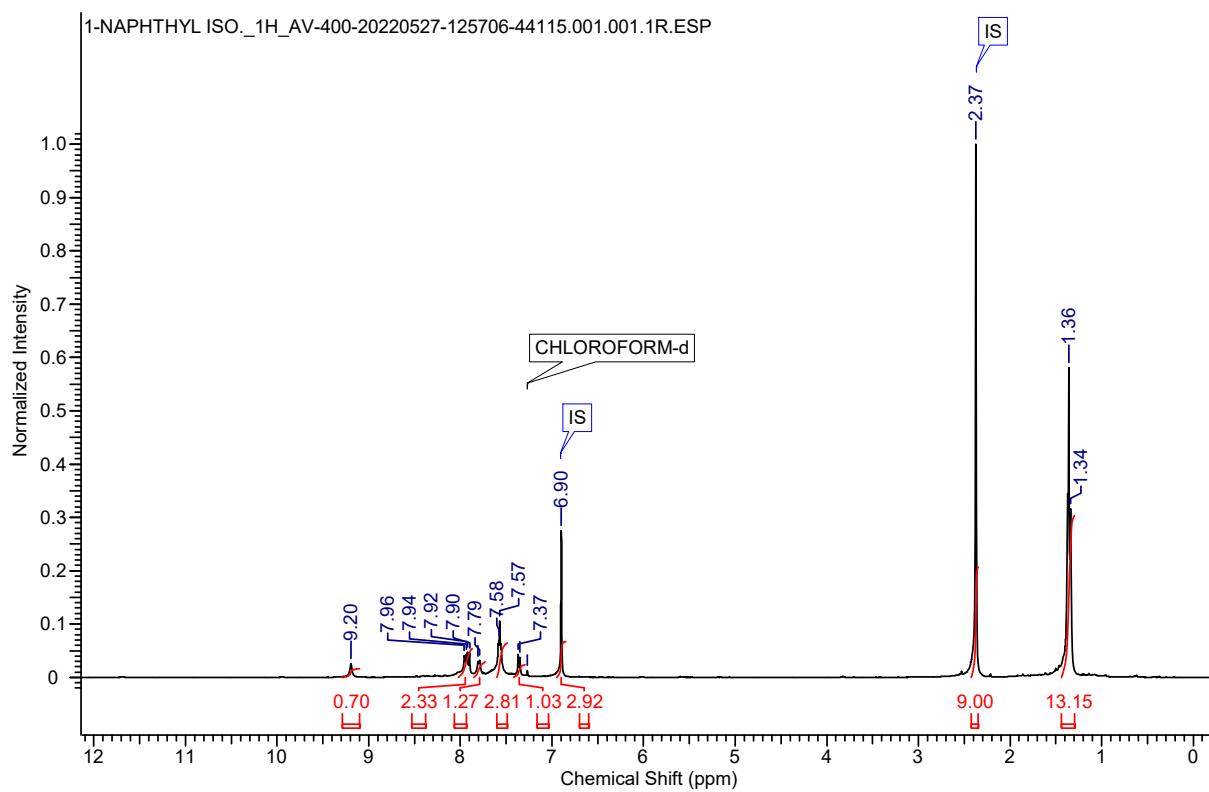


Figure S27. ¹H NMR spectrum of **2n** (CDCl_3 , 400 MHz, 298 K).

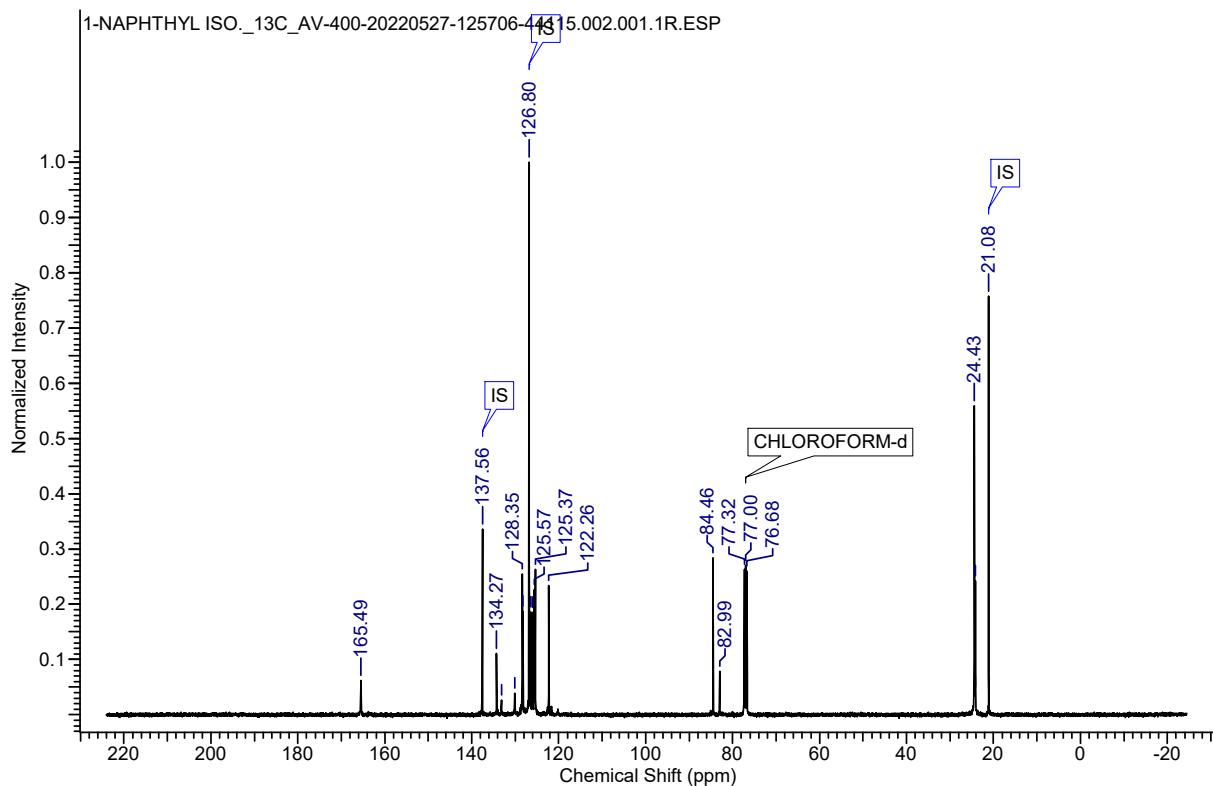


Figure S28. ^{13}C NMR spectrum of **2n** (CDCl_3 , 101 MHz, 298 K).

N-octyl-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)formamide (2o): ^1H NMR (CDCl_3 ,

$\begin{array}{l} \text{Octyl} \\ | \\ \text{O} \text{---} \text{B}(\text{Octyl})_3 \text{---} \text{O} \end{array}$ 400 MHz, 298 K): δ 8.69 (s, 1H, NCHO), 3.37-3.34 (t, 2H, *Octyl*), 1.53 (bs, 2H, *Octyl*), 1.32 (s, 12H, CH_3) 1.29-1.25 (m, 12H, *Octyl*), 0.93 (t, 3H, *Octyl*) ppm;
 $\begin{array}{l} \text{Octyl} \\ | \\ \text{N} \text{---} \text{C}(=\text{O}) \text{---} \text{H} \end{array}$ $^{13}\text{C}\{^1\text{H}\}$ NMR (CDCl_3 , 101 MHz, 298 K): δ ppm 165.91 (s, 1 C), 83.93 (s, 1 C), 82.93 (s, 1 C), 48.29 (s, 1 C), 42.86 (s, 1 C), 39.96 (s, 1 C), 31.71 (s, 1 C), 31.65 (s, 1 C), 29.49 (s, 1 C), 29.17 (s, 1 C), 29.14 (s, 1 C), 29.07 (s, 1 C), 26.73 (s, 1 C), 26.61 (s, 1 C), 24.43 (s, 1 C), 24.40 (s, 1 C), 24.34 (s, 1 C), 22.54 (s, 1 C), 22.51 (s, 1 C), 13.96 (s, 1 C) ppm.

The spectroscopic data is consistent with the literature data.^{S2}

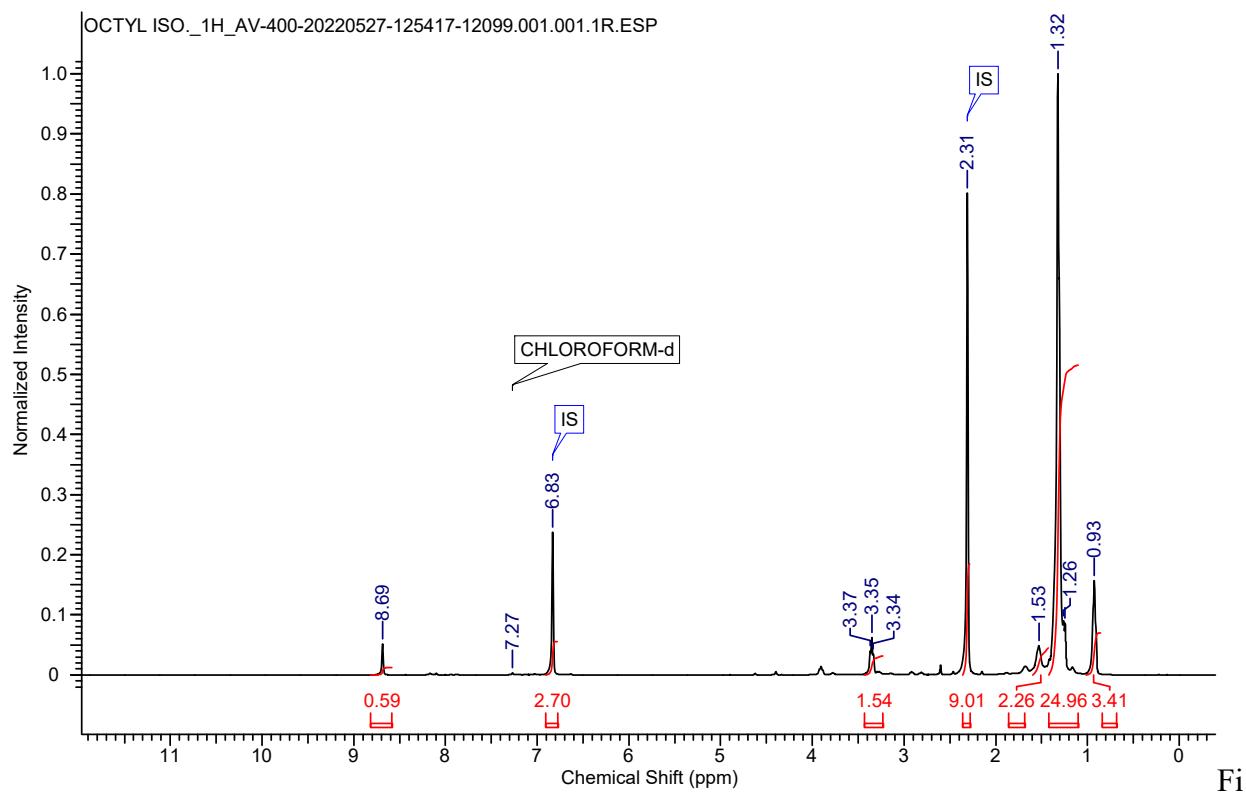


Figure S29. ^1H NMR spectrum of **2o** (CDCl_3 , 400 MHz, 298 K).

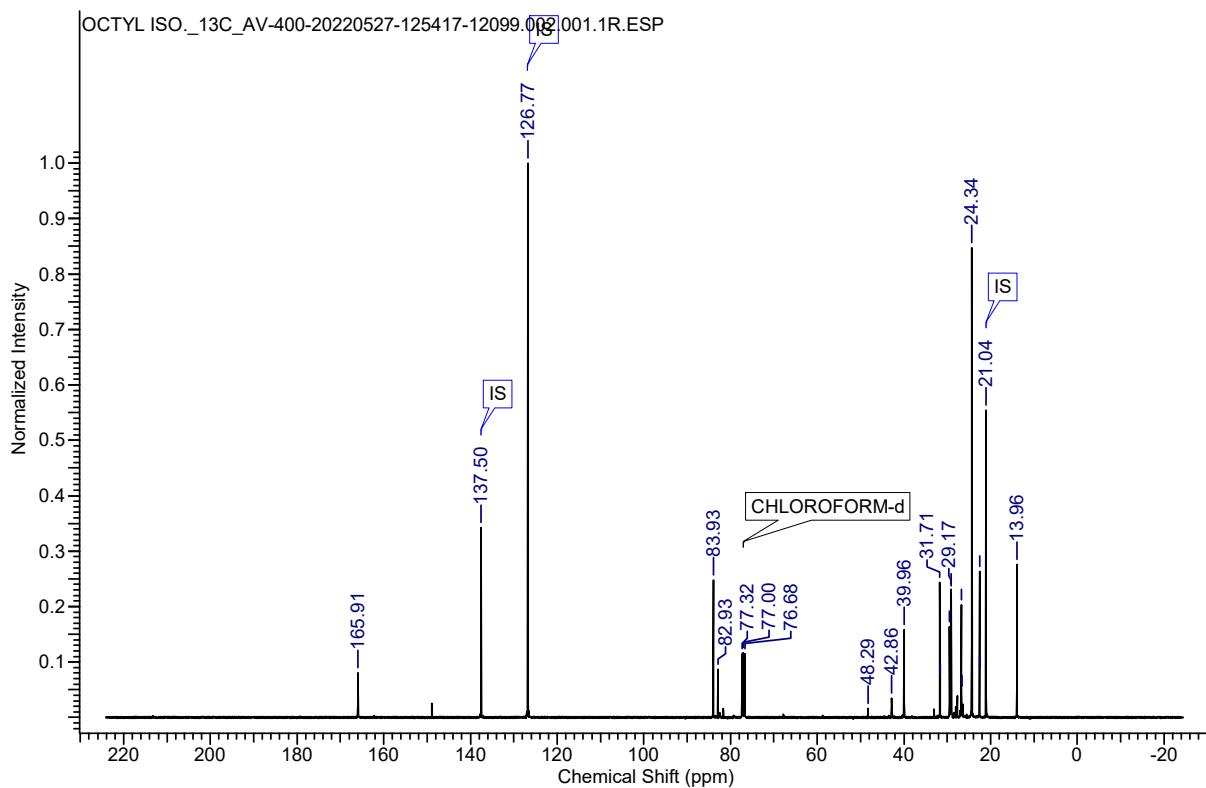
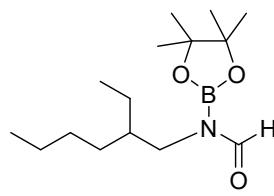
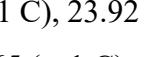


Figure S30. ^{13}C NMR spectrum of **2o** (CDCl_3 , 101 MHz, 298 K).

N-(2-ethylhexyl)-N-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)formamide (2p): ^1H NMR



 (CDCl₃, 400 MHz, 298 K): δ 8.70 (s, 1H, NCHO), 3.25-3.23 (t, 2H, NCH₂), 1.31 (s, 12H, CH₃) 1.29 (bs, 8H, CH₂), 0.94-0.89 (m, 7H, CH₂CH₃) ppm; ¹³C{¹H} NMR (CDCl₃, 101 MHz, 298 K): δ 166.16 (s, 1 C), 83.95 (s, 1 C), 82.95 (s, 1 C), 43.76 (s, 1 C), 40.71 (s, 1 C), 39.09 (s, 1 C), 38.27 (s, 1 C), 30.72 (s, 1 C), 30.35 (s, 1 C), 28.69 (s, 1 C), 28.42 (s, 1 C), 24.39 (s, 1 C), 24.33 (s, 1 C), 24.30 (s, 1 C), 23.92 (s, 1 C), 23.51 (s, 1 C), 22.98 (s, 1 C), 22.89 (s, 1 C), 13.97 (s, 1 C), 13.94 (s, 1 C), 10.65 (s, 1 C), 10.35 (s, 1 C) ppm.

The spectroscopic data is consistent with the literature data.^{S2}

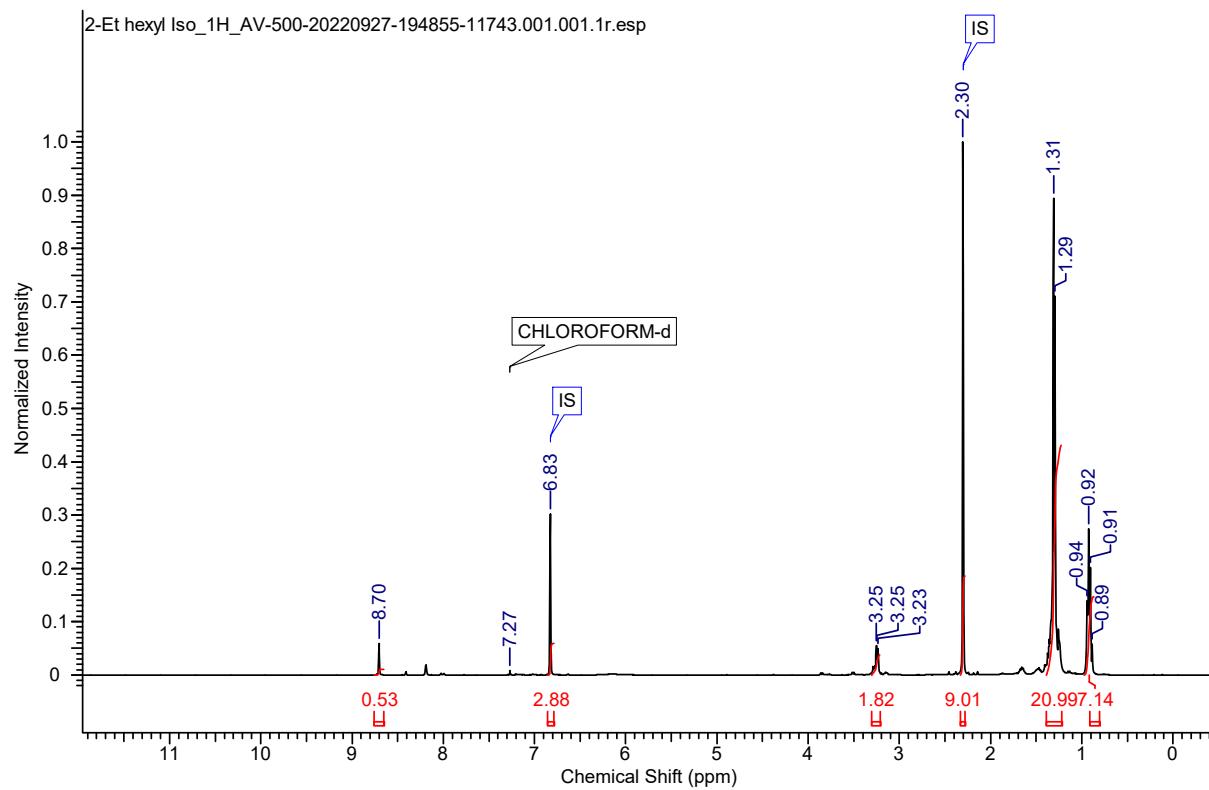


Figure S31. ^1H NMR spectrum of **2p** (CDCl_3 , 400 MHz, 298 K).

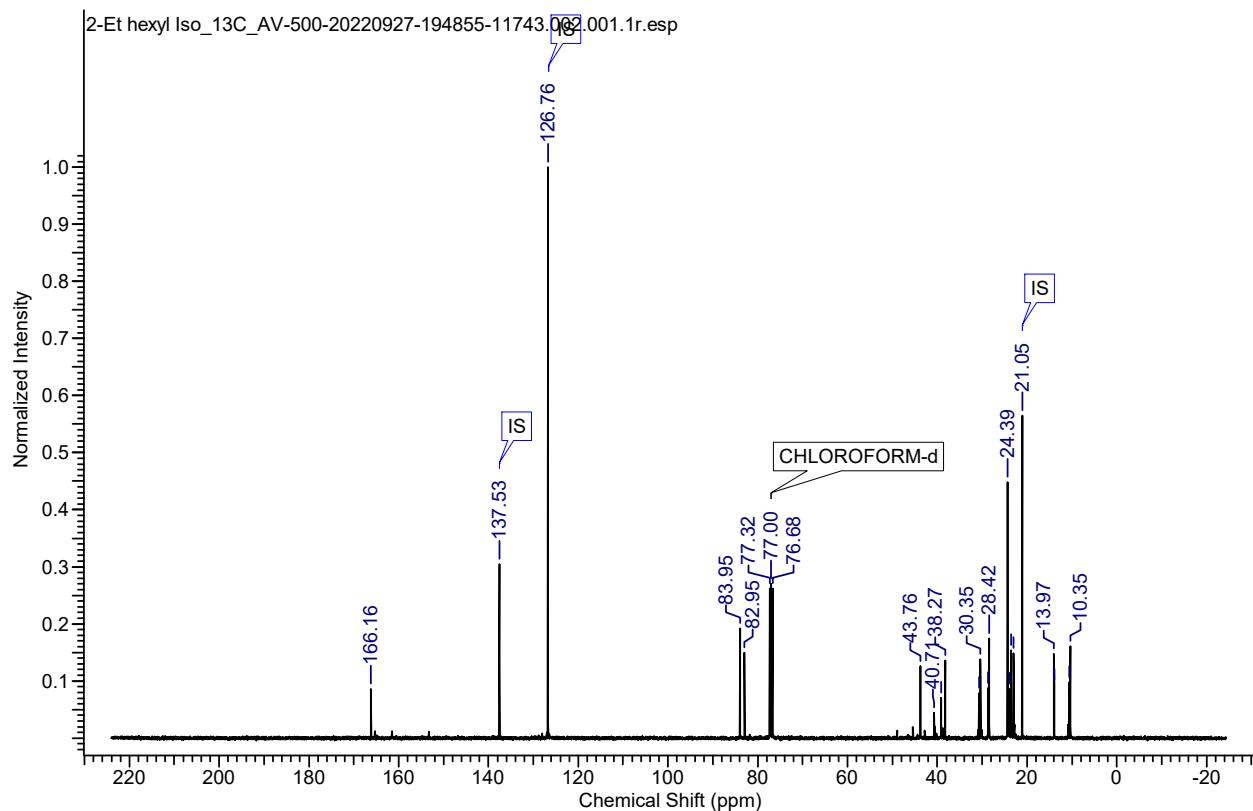
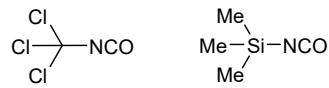


Figure S32. ^{13}C NMR spectrum of **2p** (CDCl_3 , 101 MHz, 298 K).

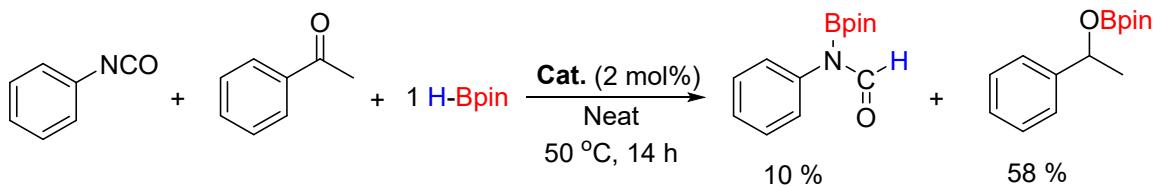
❖ List of unsuccessful substrates for catalytic hydroboration:



Very less yield due to unidentified side reactions

- ❖ Competitive experiment for alkene/alkyne/nitrile/ketone/ester hydroboration- a selectivity study:

1. Hydroboration of phenyl isocyanate and acetophenone in presence of 1 equiv. HBpin:



Scheme S2. Hydroboration of phenyl isocyanate and 4-fluoro acetophenone.

Phenyl isocyanate (0.25 mmol), acetophenone (0.25 mmol), pinacolborane (32 mg, 0.25 mmol), catalyst (2.0 mol% for **1**) were charged in a Schlenk tube inside the glove box. The reaction mixture was stirred for 14 hours at 50 °C after in neat conditions. Upon completion of the reaction, the progress of the reaction was monitored by ^1H NMR after addition of mesitylene (0.25 mmol) as an internal standard in CDCl_3 . A sharp singlet resonance at $\delta = 8.89$ ppm indicates for the formation of hydroboration product from phenyl isocyanate and a quartet resonance at 5.29-5.24 ppm indicates the hydroboration product from acetophenone.

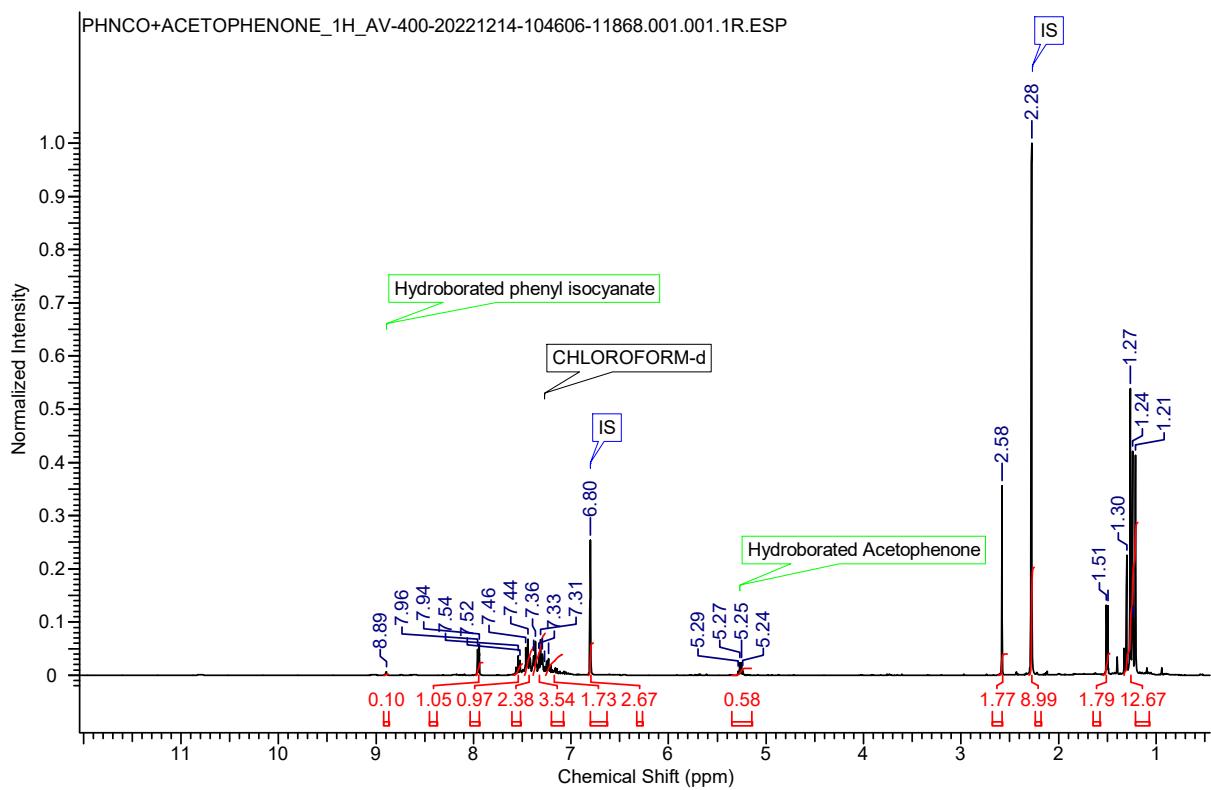
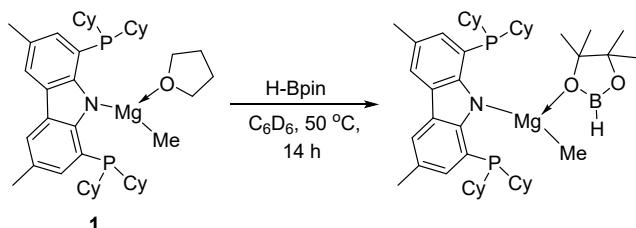


Figure S33. ¹H NMR spectrum of the reaction of phenyl isocyanate and acetophenone in presence of one equiv. HBpin (CDCl₃, 400 MHz, 298 K).

❖ Mechanistic investigation:

Stoichiometric reaction of catalyst **1 and HBpin:**



Scheme S3. Stoichiometric reaction of **1** with HBpin and the tentative product formation.

A solution of HBpin (20 mg, 0.14 mmol) in C₆D₆ was added drop by drop to the C₆D₆ solution of **1** (90 mg, 0.14 mmol) at room temperature or inside the glove box. The reaction mixture was stirred/heated for 14 hours at 50 °C. After that the reaction mixture was subjected for characterization. ¹H NMR (C₆D₆, 400 MHz, 298 K): ¹H NMR spectra shows a new peak at 2.29 ppm which can be a proton peak for HBPin. This supports the formation of O-coordinated magnesium methyl complex. The ¹¹B NMR also indicates that the Bpin moiety is coordinated to the Mg centre through one of the O-atoms. ¹¹B NMR (C₆D₆, 128 MHz, 298 K): δ 33.96 (s, Me-Bpin), 28.90 (d, for unreacted HBpin), 21.92 (s, Bpin coordinated catalyst) ppm.

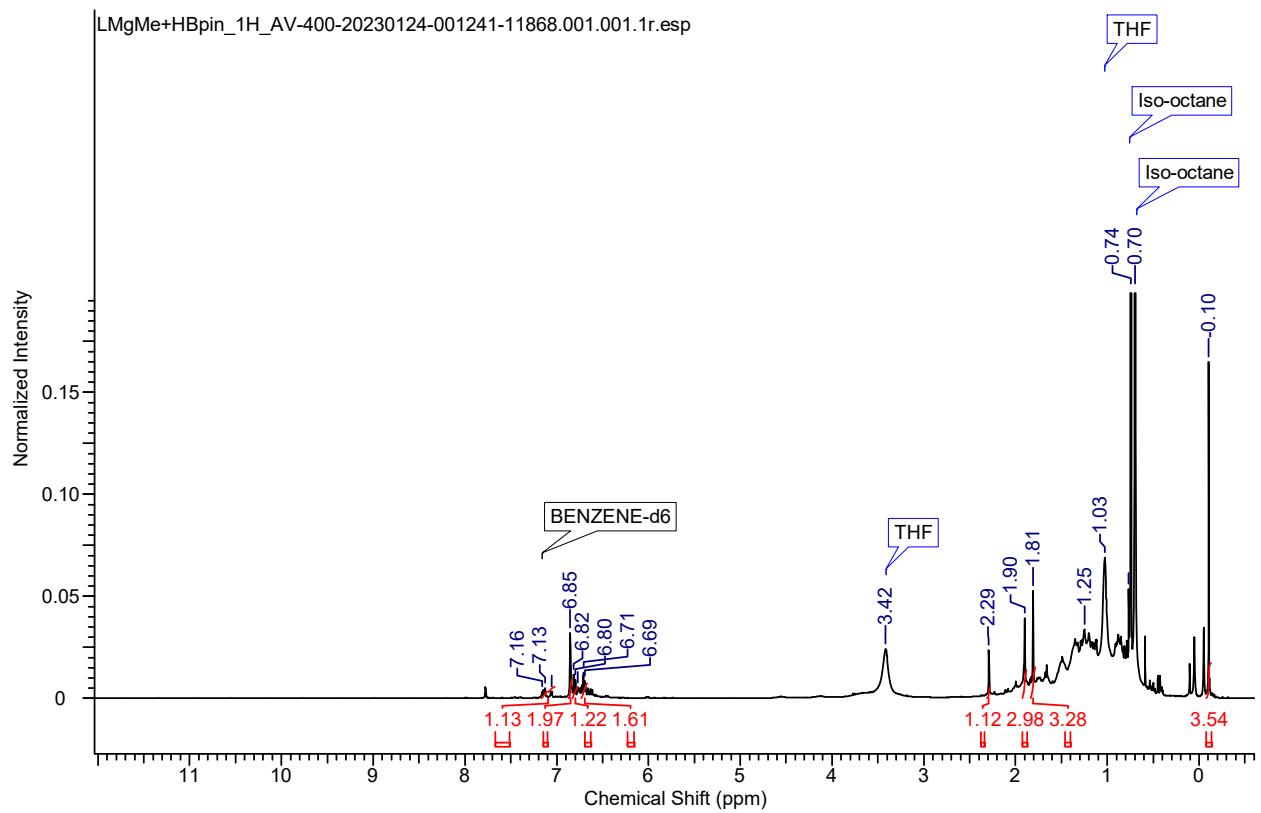


Figure S34. ^1H NMR spectrum of the reaction of **1** with HBpin (C_6D_6 , 400 MHz, 298 K).

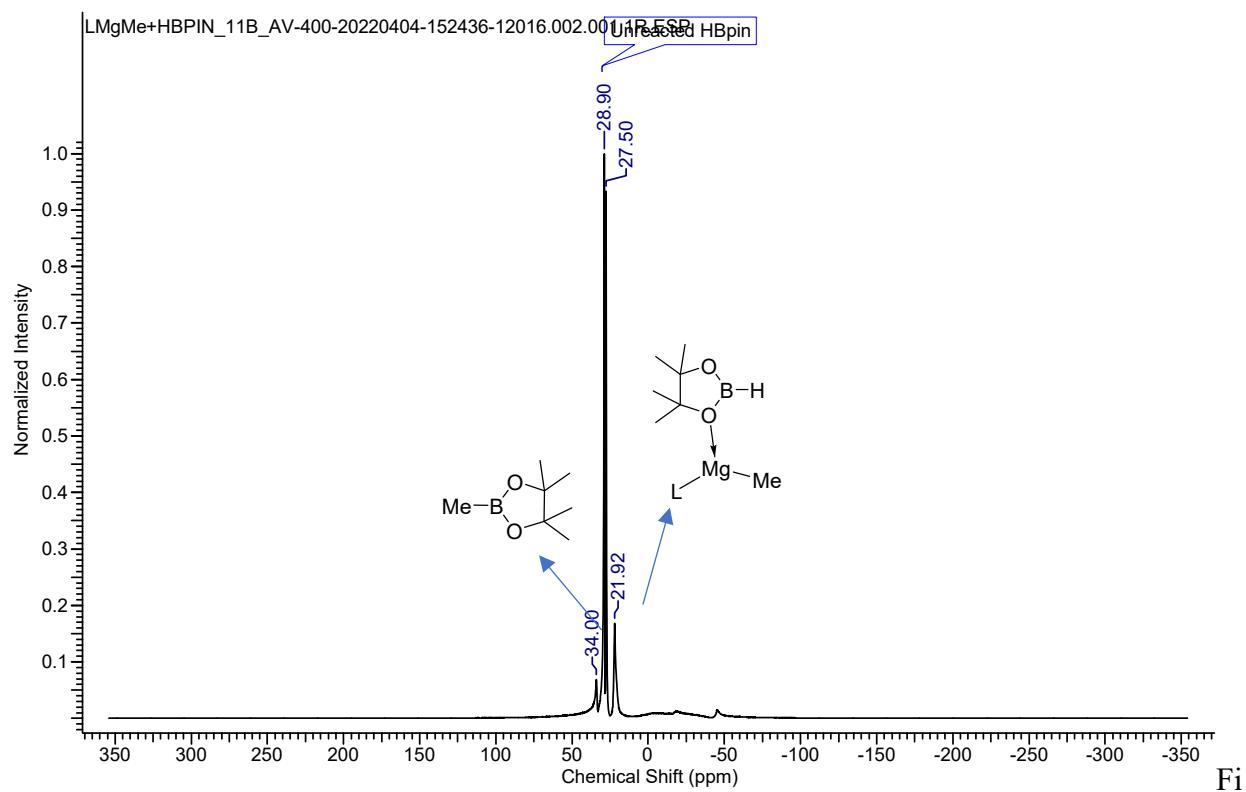


Figure S35. ^{11}B NMR spectrum of the reaction of **1** with HBpin (C_6D_6 , 128 MHz, 298 K).

Heating of the catalyst at 70 °C for 8 hours under vacuum:

We have heated the catalyst under vacuum at 70 °C for 8 hours but we did not observe the removal of THF confirmed by ^1H NMR.

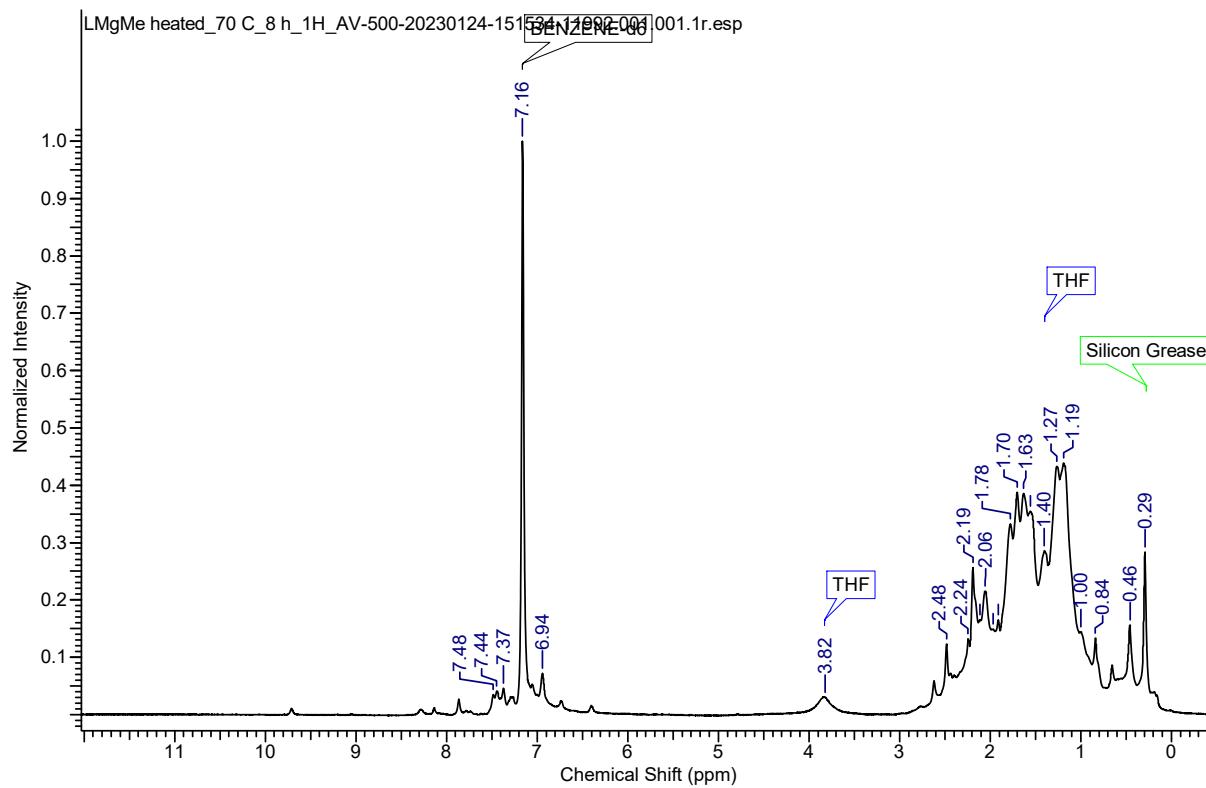


Figure S36. ^1H NMR spectrum heating of the catalyst at 70 °C for 8 hours under vacuum (C_6D_6 , 128 MHz, 298 K).

Stoichiometric reaction of **1** with phenyl isocyanate or ethyl isocyanate:

No reaction was observed when an equimolar amount of **1** was treated separately with phenyl isocyanate or ethyl isocyanate in THF/toluene solvent at room temperature and at 60-100 °C. Further heating at 80-100 °C overnight in neat conditions also does not indicate any appreciable changes in the ^1H NMR spectra.

Hydroboration of 4-bromo phenyl isocyanate and o-tolyl isocyanate with $\text{BH}_3 \cdot \text{SMe}_2$:



Scheme S4. Synthetic scheme for the reaction of 4-bromo phenyl isocyanate and o-tolyl isocyanate with $\text{BH}_3 \cdot \text{SMe}_2$.

To identify whether the BH_3 is behaving as hidden catalyst in the hydroboration of phenyl isocyanate or not, we performed the reaction with $\text{BH}_3\cdot\text{SMe}_2$. A Screw cap NMR tube was charged with $\text{BH}_3\cdot\text{SMe}_2$ (2 mol%) inside the argon-filled glovebox. Subsequently 4- bromo phenyl isocyanate (0.25 mmol, 1.0 equiv) and 2-methyl phenyl isocyanate were added to the reaction mixture in separate NMR tubes and heated at 50 °C up to 14 hours in an oil bath. After completion of the reaction 0.25 mmol mesitylene was added as an internal standard prior to the NMR measurement in CDCl_3 solvent. The ^1H NMR suggests that there is very less product formation in both the reactions, i.e., N-boryl formamide was observed (Figure S35 and S36), which clearly suggest very less influence of BH_3 as an active catalyst for the hydroboration of isocyanate.

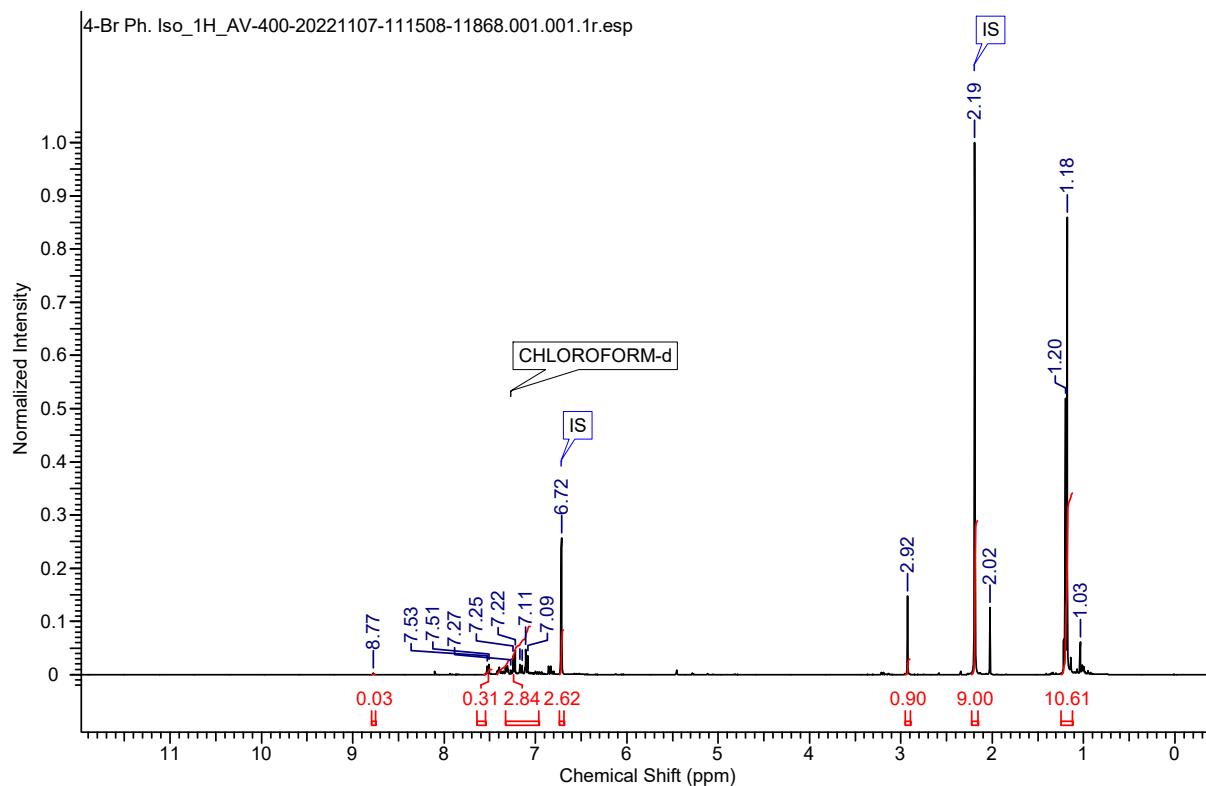


Figure S37. ^1H NMR spectrum of reaction of 4-bromo phenyl isocyanate with $\text{BH}_3\cdot\text{SMe}_2$ at 50 °C (CDCl_3 , 400 MHz, 298 K).

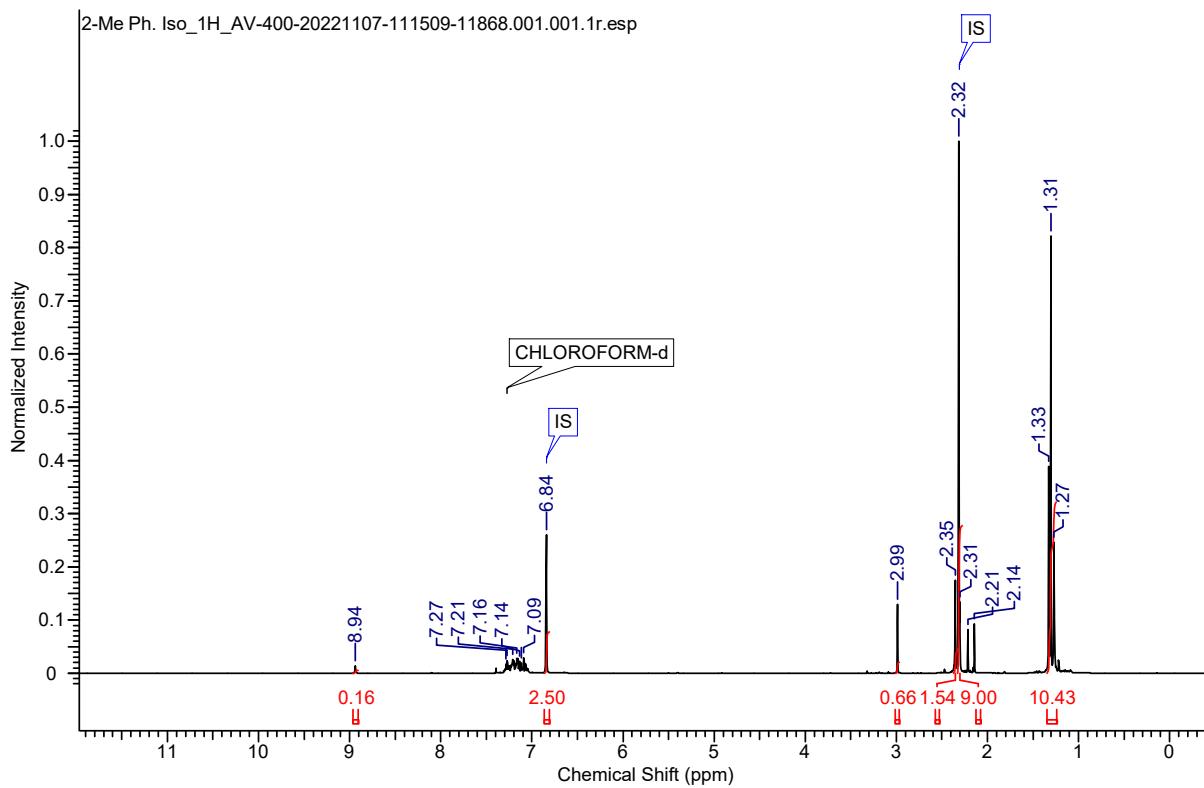


Figure S38. ^1H NMR spectrum of reaction of 2-methyl phenyl isocyanate with $\text{BH}_3 \cdot \text{SMe}_2$ at 50 °C (CDCl_3 , 400 MHz, 298 K).

❖ Details of the theoretical calculations:

Full quantum calculations have been carried out with Density Functional theory(DFT)^{S3} using Turbomole 7.4. ^{S4} The TZVP basis set have been employed in all the calculations. ^{S5} Geometry optimizations were performed using the Perdew, Burke, and Ernzerhof functional (PBE).^{S6} Dispersion corrections ^{S7} have been included in all the calculations. The resolution of identity (RI) ^{S8} along with the multipole accelerated RI (marij) ^{S9} approximations have been used for an accurate and efficient treatment of the electronic Coulomb term in the DFT calculations. Solvent corrections have also been included in all the calculations using the cosmo model, ^{S10} with epsilon (ϵ) = 2.48, to model the HBpin which has been employed to study the reaction involved. Necessary care was taken to ensure that the obtained transition state structures possessed only one imaginary frequency corresponding to the correct normal mode, in order to obtain more reliable energy values for the investigated potential energy surface. In addition, intrinsic reaction coordinate (IRC)^{S11} calculations were done with all the transition states in order to further confirm that they were the

correct transition states, yielding the correct reactant and product structures. The values reported here are ΔG values, with zero-point energy, internal energy, and entropic contributions, with the temperature taken to be 323.15 K. This is because this is the temperature at which the experiments were done. The translational entropy term has been corrected by a free volume correction introduced by Mammen and co-workers.^{S12} The efficiency of the catalytic cycle for the reaction mechanism investigated has been calculated with the AUTOF^{S13-S14} program by employing the “Energetic Span Model” (ESM), developed by Shaik and co-workers.^{S14-S16} This has been done for all the free energy profiles discussed in the manuscript. The turnover frequency (TOF) calculations take into account the principal rate-determining transition state, as well as the potentially rate-influencing transition states and intermediates during the catalysis process. In most cases, the TOF is calculated from the TOF-determining transition state (TDTS), the TOF-determining intermediate (TDI), and from the reaction energy, ΔGr as shown below:

$$\text{TOF} = \frac{KbT}{h} e^{-\delta E/RT}$$

$$\delta E = \text{TDTS} - \text{TDI} \quad \text{if TDTS appears after TDI}$$

$$\delta E = \text{TDTS} - \text{TDI} - \Delta Gr \quad \text{if TDTS appears before TDI}$$

$$\delta E = \text{TDTS} - \text{TDI} - \Delta Gr \quad \text{if TDTS appears before TDI}$$

This model has been employed to calculate the TOFs for the free energy profiles obtained for the mechanisms in the solvent phase discussed in the manuscript.

Discarded Mechanisms

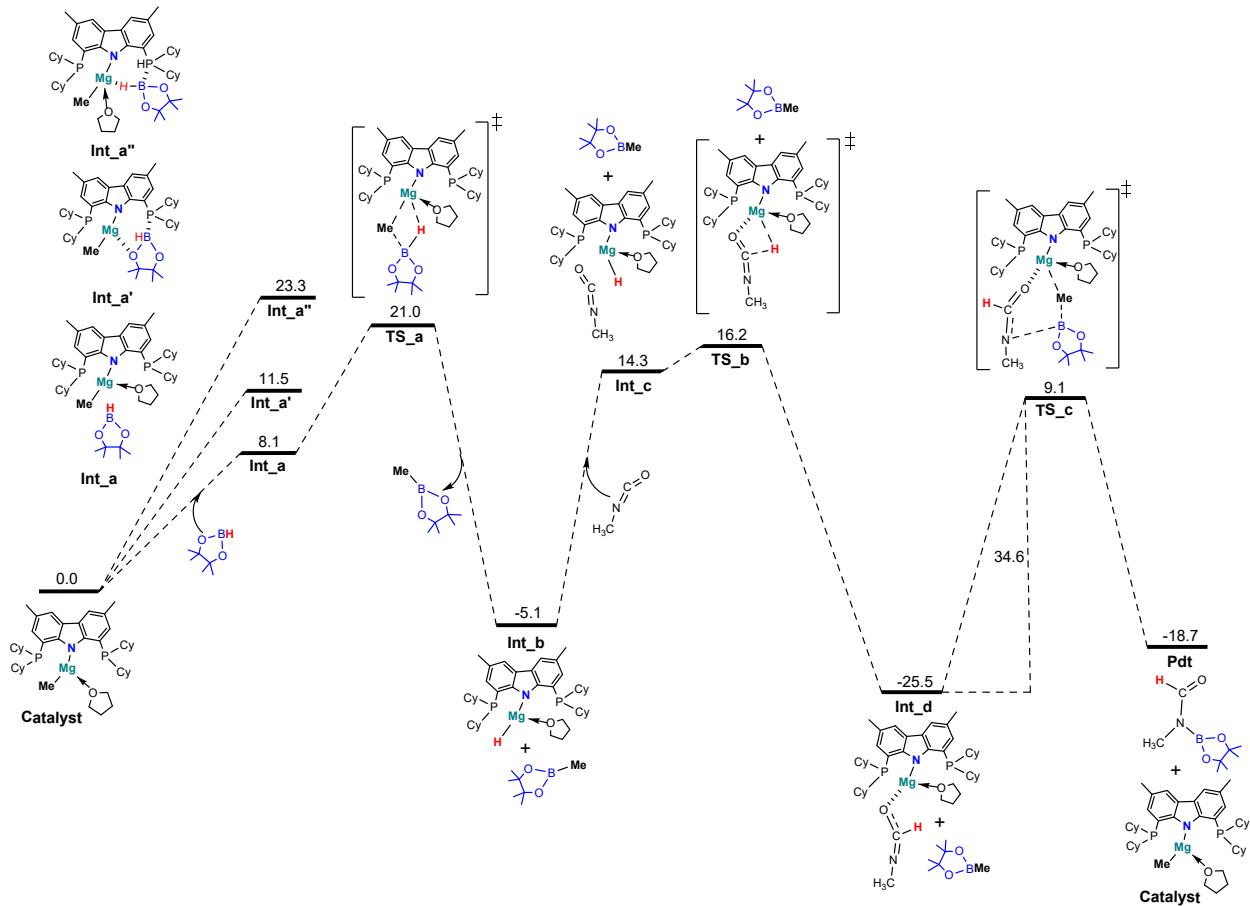


Figure S39. Reaction mechanism with DFT studies considering magnesium methyl as catalyst.

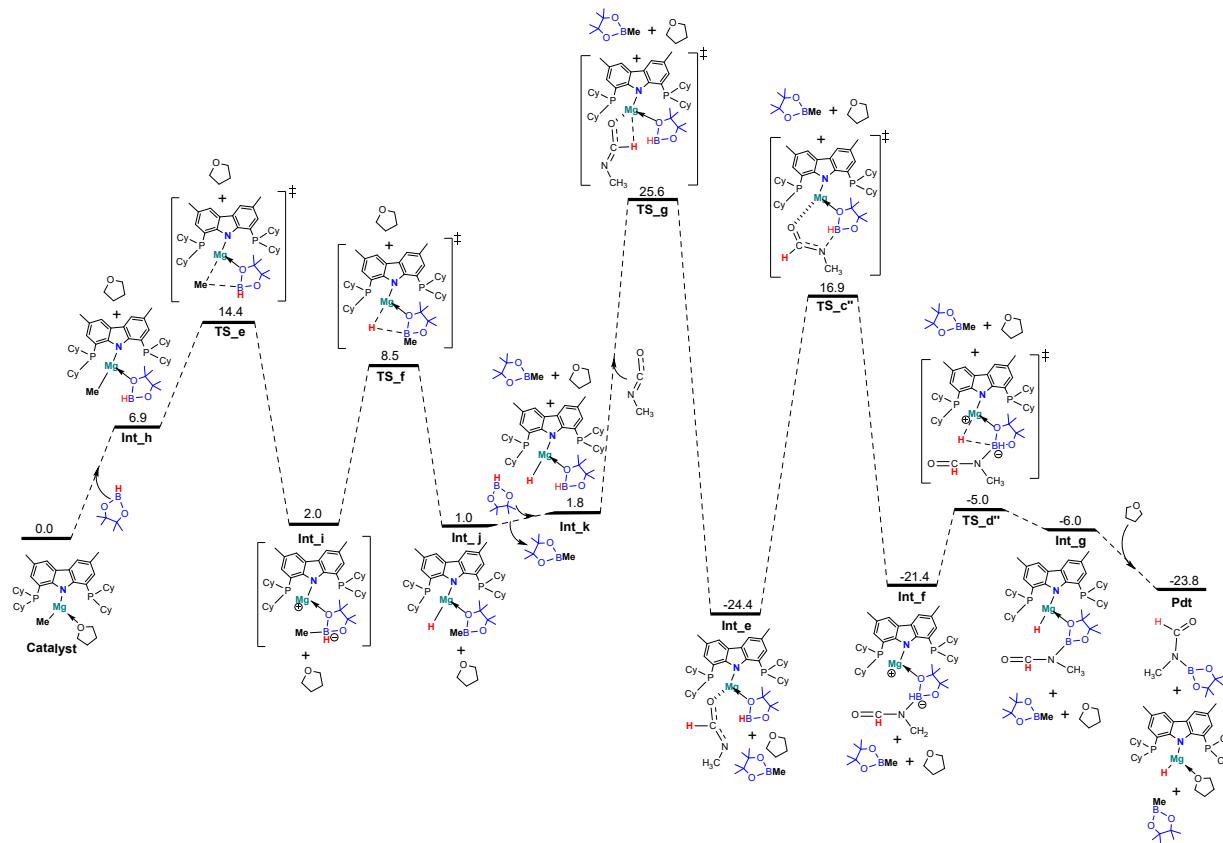


Figure S40. Mechanism via the formation of magnesium hydride

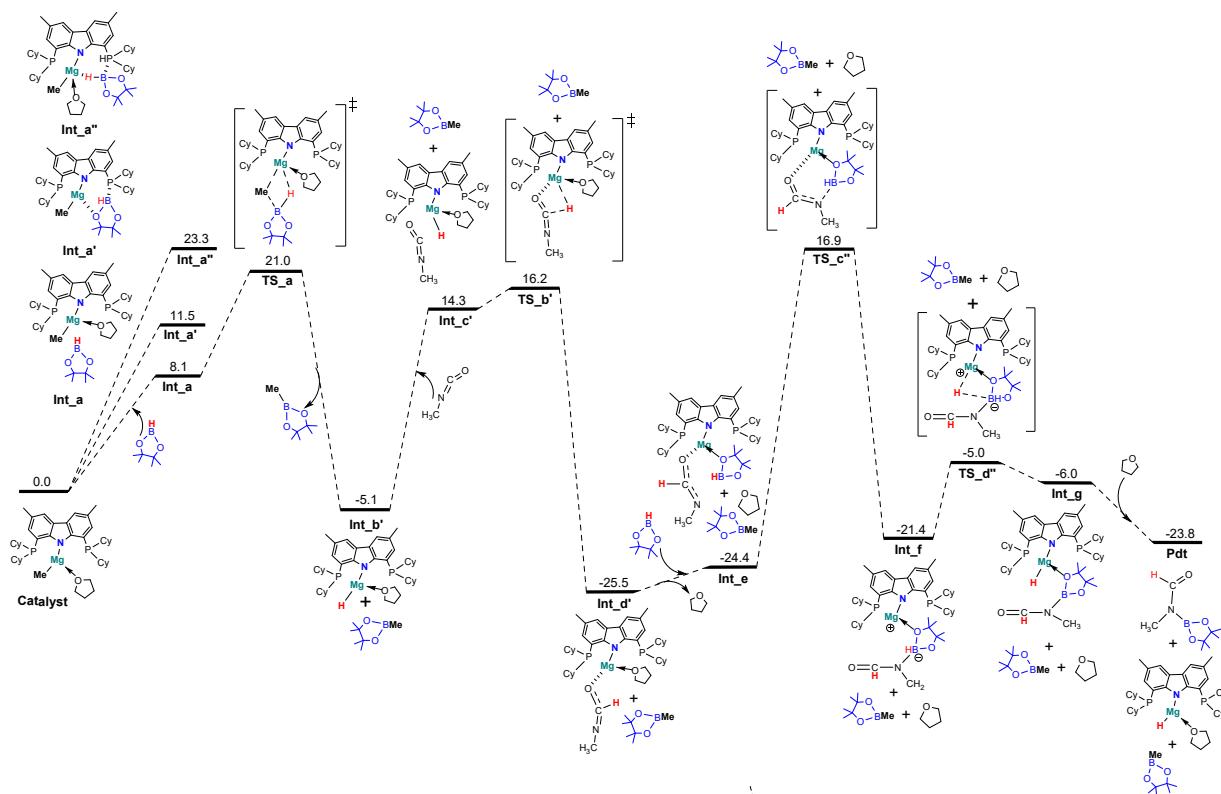


Figure S41. Alternative mechanism via the formation of magnesium hydride.

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❖ The XYZ coordinates of the optimized structures discussed in the manuscript

The optimized geometries of the structures reported in the manuscript (the atomic symbol followed by the three Cartesian coordinates, in Å).

Int_1	H	5.8279677	9.3919784	1.1644732	C	6.8987630	11.5028120	2.8076985
P 4.8178000	9.5602086	3.4010279	C 6.6880395	7.7697315	2.3010177	H 6.1371121	12.1283238	2.3111811
P 1.2154317	9.6256753	7.5492842	H 7.5018517	8.3937568	2.7031737	H 7.3083623	10.8283531	2.0389762
Mg 3.2896158	8.9168997	5.7568746	H 6.3856680	7.0879777	3.1154826	C -0.1678834	8.6923889	8.4053545
N 2.2276433	10.4568252	4.7829818	C 7.2019864	6.9456709	1.1120674	H -0.8722996	9.4192696	8.8478247
C 3.5716435	10.7165680	2.6935821	H 7.6108523	7.6310824	0.3479727	C -0.9188978	7.8524416	7.3581970
C 3.6030987	11.3342532	1.4391512	H 8.0357562	6.3022800	1.4362973	H -0.1842276	7.2276821	6.8201678
H 4.4417284	11.1412704	0.7645274	C 6.0849992	6.1035115	0.4854074	H -1.3725090	8.5128292	6.6033566
C 2.5783069	12.2053990	0.9959751	H 5.7428180	5.3502248	1.2189271	C -1.9828693	6.9515452	7.9949772
C 1.4882176	12.4634105	1.8363046	H 6.4678788	5.5442996	-0.3830850	H -2.7799865	7.5815011	8.4289991
H 0.6940505	13.1359219	1.4983053	C 4.8968733	6.9819437	0.0749611	H -2.4610877	6.3333329	7.2177841
C 1.4139534	11.8571983	3.0992969	H 4.0831743	6.3642485	-0.3376487	C -1.3843633	6.0668152	9.0941607
C 2.4618285	10.9754575	3.5261230	H 5.2127315	7.6680832	-0.7309298	H -2.1681214	5.4482907	9.5595946
C 1.0204618	10.9969031	5.1793165	C 4.3729510	7.8045160	1.2586744	H -0.6572822	5.3661588	8.6424926
C 0.4654137	11.8707230	4.1866599	H 3.5445809	8.4557334	0.9413501	C -0.6740212	6.9155984	10.1546029
C -0.7695674	12.4921348	4.4242151	H 3.9551785	7.1167611	2.0153890	H -0.2213010	6.2721794	10.9261676
H -1.2066698	13.1573837	3.6734292	C 6.2273803	10.7030122	3.9305608	H -1.4183652	7.5493756	10.6695051
C -1.4562389	12.2589449	5.6222308	H 6.9698067	10.0181903	4.3821342	C 0.4037698	7.8110051	9.5289523
C -0.8839921	11.4004753	6.5919600	C 5.7130646	11.6383896	5.0398650	H 1.2097621	7.1770393	9.1167701
H -1.4372503	11.2289964	7.5197071	H 4.8983866	12.2629764	4.6344474	H 0.8696158	8.4373070	10.3061783
C 0.3482669	10.7681622	6.3986279	H 5.2783926	11.0450440	5.8589254	C 1.9361523	10.7672786	8.8685931
C 2.6764061	12.8399238	-0.3715437	C 6.8278492	12.5417121	5.5808722	H 2.4544024	10.0781521	9.5621028
H 3.5974179	13.4355497	-0.4768238	H 6.4167760	13.2216492	6.3452614	C 0.9190125	11.6036620	9.6561145
H 1.8240602	13.5067762	-0.5627205	H 7.5867823	11.9190966	6.0880681	H 0.3515512	12.2329010	8.9488224
H 2.6919169	12.0805113	-1.1703679	C 7.4951059	13.3388710	4.4546268	H 0.1877111	10.9533969	10.1627075
C -2.7962046	12.9026253	5.8907484	H 6.7562746	14.0353572	4.0181360	C 1.6148701	12.5050628	10.6877230
H -3.0755139	13.5916643	5.0814007	H 8.3159192	13.9567976	4.8526722	H 2.1023501	11.8730371	11.4520615
H -2.7900815	13.4752711	6.8319704	C 8.0151480	12.4056944	3.3548212	H 0.8645984	13.1158606	11.2160091
H -3.5966556	12.1497027	5.9787259	H 8.8234204	11.7739911	3.7660343	C 2.6685806	13.4026714	10.0285999
C 5.4870376	8.6453429	1.9031690	H 8.4589378	12.9895578	2.5319976	H 2.1654283	14.1026233	9.3371018

H	3.1771758	14.0183926	10.7877682	C	4.5855643	9.3278682	1.9388563	H	1.9791065	5.4441850	5.1124941
C	3.6892563	12.5690474	9.2446137	H	5.2698140	8.4605099	2.0133996	H	3.1091192	5.2652447	6.4550515
H	4.4154625	13.2246160	8.7365580	C	5.2645284	10.5231731	2.6266506	H	3.7126068	5.4087566	4.7924705
H	4.2674689	11.9424494	9.9474886	H	4.5849777	11.3907579	2.6091980	H	4.4568533	10.9782040	5.9829143
C	3.0012665	11.6652191	8.2140195	H	5.4380976	10.3006521	3.6918553				
H	3.7500760	11.0432624	7.6986783	C	6.5904747	10.8853724	1.9464332	TS_1			
H	2.5203296	12.2881931	7.4399134	H	7.0320582	11.7661866	2.4386507	P	1.6811986	9.4868652	5.0714655
C	4.8738456	8.4513326	7.1492775	H	7.3087530	10.0543750	2.0792917	P	3.8413383	7.5604577	9.7289483
H	4.4914844	8.0006897	8.0842316	C	6.3950937	11.1472648	0.4477901	Mg	3.4891269	8.3360939	7.0219821
H	5.4322011	9.3546690	7.4576489	H	5.7733398	12.0508488	0.3194967	N	2.0890601	9.4781187	8.1113705
H	5.6342005	7.7592611	6.7427687	H	7.3634627	11.3577774	-0.0343108	C	0.8507153	10.6283073	6.2608130
H	0.4774000	3.9328895	5.8529476	C	5.7034972	9.9622381	-0.2375109	C	-0.0756023	11.6405399	5.9928415
H	2.5065173	2.9625922	4.4749544	H	6.3666371	9.0788152	-0.1987615	H	-0.3769470	11.8338019	4.9621511
H	1.4014785	3.1930433	0.3992063	H	5.5325752	10.1811574	-1.3039838	C	-0.6530147	12.4417549	7.0078269
H	-0.3905891	4.2742462	4.3338136	C	4.3701378	9.6184800	0.4452088	C	-0.3135166	12.2044789	8.3428787
C	2.1925348	3.6697639	3.6936617	H	3.6838236	10.4728646	0.3318611	H	-0.7660838	12.8109994	9.1331603
C	0.3388882	4.6719238	5.0520503	H	3.9003719	8.7604572	-0.0593096	C	0.6048672	11.1934981	8.6616681
H	2.7884896	4.4749183	6.9353521	C	0.8228736	7.0432872	8.9039504	C	1.2018751	10.4135286	7.6157096
H	3.0459439	3.8692931	3.0346569	H	0.2317515	7.4460894	9.7459614	C	2.0671460	9.6390810	9.4816817
C	1.6529037	4.9474891	4.3210202	C	-0.1309098	6.7314668	7.7360622	C	1.1742252	10.6879620	9.8854399
H	-0.0791447	5.5890068	5.4882550	H	0.4682847	6.4293191	6.8585023	C	1.0419838	11.0063990	11.2451079
C	2.5912639	5.5279251	6.6886424	H	-0.6814561	7.6405718	7.4486563	H	0.3696212	11.8097228	11.5615726
H	1.5972350	5.7598743	7.0642486	C	-1.1055720	5.6015298	8.0952487	C	1.7636282	10.2903007	12.2068764
H	4.5094151	4.5457664	4.9783059	H	-1.7721682	5.9398861	8.9089573	C	2.6151690	9.2381361	11.7901810
C	2.7047756	5.7359375	5.1875128	H	-1.7508841	5.3790968	7.2303981	H	3.1461451	8.6754695	12.5607591
O	1.3339278	5.8977225	3.2357929	C	-0.3574153	4.3406204	5.4516190	C	2.7892999	8.8941438	10.4449499
H	3.3358845	6.1496379	7.2041060	H	-1.0706182	3.5494159	8.8260732	C	-1.6065378	13.5504848	6.6307180
C	4.1468100	5.5507716	4.7239759	H	0.2344181	3.9506365	7.6976131	H	-1.0712888	14.4039880	6.1821862
H	4.2475824	5.6958891	3.6401787	C	0.5859967	4.6479736	9.7150850	H	-2.1500001	13.9259327	7.5092111
B	1.6483077	7.1531704	3.6688420	H	1.1470058	3.7450465	10.0057604	H	-2.3496034	13.2125253	5.8919001
O	2.3426642	7.1583802	4.8788216	H	-0.0108539	4.9479479	10.5954160	C	1.6460083	10.6193912	13.6764886
H	4.7825824	6.2886877	5.2313889	C	1.5661079	5.7766674	9.3613718	H	0.8605856	11.3670865	13.8555766
H	1.3689984	8.1568554	3.0907910	H	2.2281804	5.4414527	8.5442571	H	2.5891923	11.0247369	14.0784359
Int_2											
P	3.1014570	8.7654736	2.9621173	H	2.0221035	8.8103040	9.9101213	C	3.0243610	8.1925570	4.7559892
P	2.0487475	8.3541442	8.3533300	H	3.7774158	8.0029345	9.9720962	H	-0.5407159	8.7146371	4.3462649
Mg	2.9887732	7.9486135	5.6938604	C	2.2645117	8.8474422	11.2466448	C	0.8423165	7.1516649	3.7388764
N	1.7655554	9.6494479	5.5821933	H	1.4890433	9.6302291	11.2076753	H	1.0791375	7.6314160	2.7750854
C	1.9805724	10.2132878	3.1522358	H	1.7453979	7.8947992	11.4313157	H	1.7819556	6.7138002	4.1149857
C	1.5382190	11.0932417	2.1582643	C	3.2205624	9.1586813	12.4095061	C	-0.1885044	6.032953	3.5219803
H	1.8753828	10.9552807	1.1288658	H	3.9508163	8.3350777	12.5080898	H	-1.0933152	6.4579829	3.0507687
C	0.6587886	12.1683271	2.4263601	H	2.6578306	9.1957107	13.3561040	H	0.2149827	5.2881579	2.8172175
C	0.1785350	12.3507681	3.7277033	C	3.9705692	10.4768413	12.1802405	C	-0.5769704	5.3642469	4.8462303
H	-0.5106064	13.1737114	3.9400633	H	3.2447936	11.3103378	12.1812409	H	0.3095129	4.8581598	5.2695594
C	0.5768299	11.4785397	4.7501400	H	4.6725162	10.6689358	13.0069909	H	-1.3362041	4.5847384	4.6736713
C	1.4907651	10.4112602	4.4624136	C	4.7160553	10.4621344	10.8403323	C	-1.0899489	6.4008769	5.8527539
C	1.0372280	10.2209302	6.6042060	H	5.2094401	11.4311014	10.6602248	H	-1.3272669	5.9192391	6.8158079
C	0.2746787	11.3517673	6.1539515	H	5.5190046	9.7034936	10.8289801	H	-2.032093	6.8397369	5.4780811
C	-0.5322399	12.0523469	7.0607568	C	3.7684376	10.1349505	9.6783865	C	-0.0624790	7.5179930	6.0765499
H	-1.1134232	12.9178845	6.7286075	H	4.3205975	10.0985720	8.7251409	H	-0.4524275	8.2662301	6.7827048
C	-0.6028648	11.6448464	8.3984346	H	3.0255909	10.9433495	9.5707840	H	0.8376239	7.0848657	6.5438904
C	0.1528885	10.5248941	8.8202748	H	5.6712364	7.1631667	8.1760899	C	1.8481771	10.3612656	3.4018902
H	0.0669647	10.2140106	9.8638838	H	6.4416268	9.1872730	8.7684412	H	2.4846332	9.6481513	2.8429972
C	0.9876863	9.8077003	7.9547821	O	4.9437297	8.7802617	6.1836766	C	2.6503179	11.6656381	3.5439178
C	0.2826169	13.1229824	1.3185812	H	5.2631873	6.1476389	6.7733236	H	2.0717646	12.3857487	4.1472257
H	0.10877876	13.8533298	1.1333400	C	6.0158269	6.8310523	7.1894760	H	3.5814471	11.4762794	4.1002324
H	-0.6253630	13.6902151	1.5689371	B	5.2749053	10.1316656	6.1588459	C	2.9729260	12.2806078	2.1753275
H	0.1014000	12.5929564	0.3709938	C	7.4115494	9.1278190	8.2585888	H	3.5092540	13.2334087	2.3127759
C	-1.4596150	12.3885914	9.3955136	H	7.9427356	8.2372210	8.6206566	H	3.6594605	11.6077353	1.6300157
H	-0.0755187	13.1514146	8.8989988	C	6.2206568	8.0010840	6.2398439	C	1.7062270	12.4927252	1.3392576
H	-0.8457983	12.8999159	10.1552555	H	6.9580992	6.2776895	7.3118223	H	1.0687450	13.2494454	1.8317343
H	-2.1374010	11.7083425	9.9351003	H	7.9961470	10.0165042	8.5320683	H	1.9639379	12.8954466	0.3465046
C	2.1388139	7.6197271	1.8253118	C	7.2462863	9.0935232	6.7398734	C	0.9158172	11.1870390	1.1977506
H	1.9359685	8.1596109	8.823107	O	6.6011665	10.3692886	6.3654646	H	1.5153616	10.4581586	0.6228000
C	2.9628719	6.3575035	1.5229039	H	5.6211816	6.9049810	4.4983042	H	-0.0100197	11.3554490	0.6239875
H	3.9038613	6.6211979	1.0127139	C	6.4803618	7.5054533	4.8200215	C	0.5741828	10.5852845	2.5695192
H	3.2423680	5.8803210	2.4788966	H	6.6126420	8.3372767	4.1160324	H	-0.1059871	11.2726601	3.0972384
C	2.1674665	5.3578543	0.6705635	C	8.6053331	9.0337104	6.0564042	H	0.0230811	9.6428567	2.4343971
H	1.9751627	5.8003806	-0.3237403	H	7.3773094	6.8727542	4.7882916	C	2.8613111	5.9951207	10.1002452
H	2.7698013	4.4506120	0.5012918	H	9.0934776	8.0648629	6.2550513	H	2.7222417	5.9296187	11.1939753
C	0.8313711	4.9993173	1.3320185	H	9.2486354	9.8302736	6.4540915	C	1.4806611	6.0854383	9.4293637
H	1.0295960	4.4682247	2.2807206	H	8.5203026	9.1689803	4.9717399	H	1.6256741	6.2562498	8.3489515
H	-0.2770032	6.7384223	0.6701883	C	2.9536171	5.7960638	5.4981114	H	0.9264551	6.9555155	9.8125912
C	0.7942105	7.2592482	2.4796402	H	3.2382693	13.8399806	6.2264752	C	0.6688120	4.7985395	9.6252846
H	0.2032110	8.1721540	2.6490331	H	2.6638631	13.9586317	8.2159193	H	0.4363255	4.6721775	10.6981232
H	-0.9341590	5.9927008	2.1341860	C	3.0755364	13.2214877	7.5152052	H	-0.2969730		

H	3.3748506	2.6109751	9.4056147	H	4.6954113	13.7088114	9.2433011	C	2.8215059	11.4712675	13.2299363
H	2.6732211	3.2914398	10.8817185	H	4.7661272	12.1526418	10.1131434	C	3.7166141	10.4536791	12.8254897
C	3.6287896	4.7584754	9.6020959	H	7.9733187	9.7368324	8.3576553	H	4.4616650	10.1142456	13.5480164
H	3.8482509	4.8880659	8.5284732	C	8.3560360	9.8328734	7.3336385	C	3.6658555	9.8611168	11.5568206
H	4.5995993	4.6681468	10.1156198	H	9.0088721	10.7151888	7.2960310	H	4.3549755	5.7346591	8.3619854
C	5.3996253	7.4086490	10.7792990	H	8.9581500	8.9446560	7.1020000	C	3.5107218	6.2779751	7.9017320
H	6.0329093	6.7528330	10.1515290	H	8.2482500	9.2185503	4.5916031	Mg	3.4767438	8.4006271	8.3404032
C	5.3064775	6.7597270	12.1704241	H	8.5735677	10.9370177	4.9163774	N	2.3946432	9.8378434	9.3963031
H	4.6830189	7.3813930	12.8330149	C	7.7925170	10.1645321	4.9176511	C	2.6561700	10.3022082	10.6700443
H	4.8219683	5.7732555	12.1142096	H	7.0216491	10.4510769	4.926879	C	1.7214123	11.3145632	11.0719230
C	6.7074344	6.6194517	12.7893060	H	7.3451902	7.2000604	6.4717436	C	1.8227756	11.8934456	12.3433878
H	7.3010920	5.9176555	12.1764309	C	7.2244788	10.0191128	6.3234526	H	1.1166634	12.6693664	12.6542917
H	6.6302592	6.1732259	13.7938338	O	5.0911565	9.6107092	7.3562525	H	3.5433413	6.0679145	6.8161869
C	7.4339891	7.9696711	12.8600290	O	6.5482910	11.2726519	6.6856110	H	2.5951666	5.7828569	8.2741765
H	6.8931418	8.6330512	13.5586882	C	6.0767688	8.9397272	6.4391258	C	1.2873439	10.5442114	8.9635300
H	8.4475673	7.8376330	13.2710590	C	6.5331485	7.6339711	7.0725604	C	0.8239330	11.4693537	9.9549804
C	7.4998619	8.6437810	11.4827062	H	6.8961796	7.7847522	8.0966399	C	-0.3086802	12.2538334	9.7052372
H	7.9708139	6.9371256	11.5619553	H	5.7048376	6.9164671	7.1060560	H	-0.6706328	12.9584885	10.4599746
H	8.1386484	8.0436583	10.8010019	C	5.3158412	8.6763076	5.1433667	C	-0.9930878	12.1278489	8.4915350
C	6.1015604	8.7729855	10.8652445	H	4.9853587	9.6091888	4.6669820	C	-2.2149957	12.9648300	8.1963073
H	6.1560057	9.2250682	9.8627822	H	4.4267918	8.0700481	5.3704879	H	-1.9948041	13.7571889	7.4622011
H	5.4893336	9.4518015	11.4830476	H	5.9381595	8.1181984	4.4311014	H	-3.0311644	12.3544973	7.7787372
H	6.9902853	8.1750176	7.8880231	O	2.8221221	13.4842303	7.986767	H	-2.5918077	13.4527848	9.1062973
H	7.2249644	10.4155540	8.6464539	C	6.9649261	10.1931444	11.0204889	C	-0.5305751	11.1977959	7.5314403
O	5.0957247	9.7591567	6.9184669	H	6.3977831	10.9616487	11.5719841	H	-1.1057585	11.0907181	6.6103255
H	6.2225860	7.2740204	6.5579400	H	6.7219367	10.3401013	9.9557806	C	0.6042626	10.4033436	7.7327960
C	6.8925286	8.1105942	6.7975258	C	8.4672498	10.3906529	11.2637162	P	1.2434753	9.0505918	6.6563854
B	4.9952531	11.2225046	6.8474117	H	9.0354964	9.6852252	10.6299875	H	1.4796291	11.6509550	5.0613365
C	7.9378308	10.6322358	7.8405558	H	8.7678792	11.4045980	10.9543669	C	1.9125084	10.7858442	4.5299831
H	8.7390471	9.8801266	7.8749386	C	8.8288023	10.1482194	12.7349284	H	2.9345251	10.6479291	4.9185114
C	6.3463159	9.4038384	6.2082607	H	8.3544899	10.9289503	13.3560656	C	1.9643272	11.0844532	3.0258159
H	7.8814542	7.8923725	6.3678725	H	9.9163365	10.2447223	12.8880352	H	2.5392665	12.0079092	2.8498949
H	8.3813686	11.6191966	8.0316907	C	8.3453221	8.7706498	13.2056437	H	2.5068789	10.2692308	2.5140784
C	7.2389871	10.6676140	6.4757176	H	8.8961564	7.9838558	12.6591776	C	0.5563764	11.2063740	2.4316608
O	6.2768367	11.7489107	4.6869325	H	8.5712184	6.8290159	14.2747206	H	0.6121555	11.3761354	1.3446279
H	5.2116597	8.4565317	4.6378182	C	6.8377545	8.5887574	12.9636780	H	1.1871514	6.1052958	6.2740688
C	5.9990158	9.2190388	4.7284803	H	6.2901684	9.3201709	13.5792906	H	0.1654070	9.0851840	2.2274368
H	5.6301003	10.1546537	4.2859814	H	6.5211445	7.5905752	13.3006229	C	-0.2805391	9.9581766	2.7375694
C	8.2642764	10.9389739	5.3780387	H	7.0635323	8.0517795	10.9866917	H	-0.6173677	4.5268385	5.6219083
H	6.8726270	8.8776886	4.1560753	C	6.4968563	8.8039203	11.4794275	C	-0.8664753	5.4123093	6.2291925
H	8.9588148	10.0922473	5.2719492	P	4.7207387	8.4979214	10.9069934	H	-1.8448156	5.7783030	5.8684506
H	8.8508112	11.8311358	5.6383716	C	4.1543898	7.0086361	11.9096103	C	-0.9847593	5.0316669	7.7099685
H	7.7762396	11.1200591	4.4128499	H	4.2830122	7.2490289	12.9805341	H	-0.0353802	4.5736685	8.0418087
C	3.7564412	6.4004485	6.0844093	C	4.9984668	5.7726890	11.5556043	H	-1.3006724	10.0712366	2.3368205
H	4.0739477	11.6560947	6.0588455	H	4.9430843	5.6083091	10.4658460	H	-1.7690915	4.2700309	7.8479622
N	4.3350410	11.9001963	8.1321779	H	6.0599388	5.9430579	11.7977681	C	-1.2770809	6.2641604	8.5732625
H	4.3577781	11.0779687	10.0623298	C	4.4923556	4.5180761	12.2828509	H	-2.2727410	6.6655319	8.3105264
C	4.6383785	12.0162894	9.5698577	H	5.0939930	3.6455641	11.9807194	H	-1.3207937	5.9874200	9.6391985
H	5.7152955	12.1977984	9.6768170	H	6.46043440	4.6435054	13.3707645	H	-0.4704577	8.2496062	8.9630060
H	4.0743651	12.8428242	10.0160152	C	3.0057728	4.2693188	12.0001679	C	-0.2217486	7.3584079	8.3672974
C	3.4892561	12.6111534	7.4976207	H	2.8748512	4.0502488	10.9252951	H	0.7535071	6.9959421	8.7342822
O	2.7033806	13.4161443	1.7802616	H	2.6542785	3.3822050	12.5512226	C	-0.0933138	7.7388483	6.8822194
H	2.8463430	5.7799740	6.1820466	H	2.2164125	5.6628750	13.4589172	H	-1.0476554	8.1958187	6.5630866
H	4.5727223	5.8111848	6.5415186	C	2.1641245	5.4974766	12.3676296	C	0.1920808	6.5038482	6.0129768
H	3.9719408	6.4573916	5.0017787	H	1.1029951	5.3246942	12.1249617	C	-0.3435446	9.6822965	4.2481481
Int_3				H	2.0686035	6.7326736	11.9331999	C	1.0698631	9.5380945	4.8366604
B	5.3953022	10.9754141	7.3593221	H	2.5141205	6.6185614	10.5528518	H	1.5556013	8.6815204	4.3301501
H	3.1668902	11.9321497	6.5133944	C	2.6611120	6.7530088	11.6391135	H	-0.9436336	8.7803788	4.4397563
C	3.4549146	12.5061691	7.4167462	C	2.9601573	12.0939871	14.5994632	H	0.2296181	6.7786647	4.9463338
N	4.5953500	12.0169951	8.0074394	H	2.0382707	12.6141473	14.8962381	H	-0.8633852	10.5212127	4.7366140
H	6.1973164	12.7275057	9.1946090	H	3.1826993	11.3367805	15.3666918	H	0.0571824	12.0912940	2.8655668
C	5.1005547	12.6902296	9.2140107	H	3.7781337	12.8334880	14.6285956	C	-0.9485958	11.3582648	6.4942664
Mg_Catalyst				H	-1.5267120	11.1623843	7.4018684	H	8.0395557	6.2762984	1.6161167
P	4.8514862	9.6339260	3.4611660	C	0.3131400	10.7746667	6.3418899	C	6.0616862	6.0062180	0.7434471
P	1.1771719	9.6324486	7.5001443	C	2.7215059	12.8197047	-0.4087976	H	5.7516539	5.3010355	1.5358636
Mg	3.2934492	8.9557077	5.7286529	H	3.6891797	13.3232128	-0.5609267	H	6.4190806	5.3947355	-0.1006206
N	2.2501972	10.5392298	4.7868621	H	1.9277375	13.5608509	-0.5774583	C	4.8523267	6.8487694	0.3198531
C	3.6175649	10.7803228	2.7134254	H	2.6308635	12.0518496	-1.1949511	H	4.0297487	6.1993665	-0.0215153
C	3.6540947	11.3701229	1.4454755	C	-2.8933391	12.7882699	5.7323916	H	5.1321001	7.4814725	-0.5414213
H	4.5031643	11.1746836	0.7845736	H	-3.1524227	13.5050315	4.9405646	C	4.3665710	7.7446357	1.4665654
C	2.6214660	12.2169836	0.9729481	H	-2.9540876	13.3163601	6.6970634	H	3.5200612	8.3671931	1.1370458
C	1.5138708	12.4718494	1.7920798	H	-3.6733559	12.0088934	5.7433897	H	3.9937387	7.1108184	2.2917828
H	0.7118724	13.1208624	1.4270278	C	5.4959775	8.6380479	2.0066909	C	6.2766737	10.7615396	3.9650621
C	1.4306785	11.8901967	3.0661437	H	5.8069331	9.3344299	1.2082206	H	7.0321388	10.0662520	4.3770352
C	2.4938361	11.0431426	3.5271606	C	6.7115210	7.7932164	2.4248488	C	5.7975057	11.6688822	5.1136936
C	1.0164961										

C	7.5603237	13.3838038	4.5057958	H	2.5668545	0.6700016	0.5724599	H	5.4498111	5.9206898	0.1140640			
H	6.8084608	14.0890558	4.1074396	H	3.5211928	2.5841254	1.8793653	H	-0.4518895	2.6925050	1.8795974			
H	8.3930963	13.9936396	4.8913790	H	2.4351018	3.8998233	2.3947908	H	-0.3543087	1.3105948	2.9742495			
C	8.0466076	12.4749494	3.3701532	H	1.7594234	2.3063284	1.9796697	H	1.1303391	1.9897095	2.2920267			
H	8.8669069	11.8347866	3.7423250	Methyl Isocyanate										
H	8.4650101	13.0772523	2.5474047	C	17.2736936	10.5062113	16.2340583	C	-0.4478547	-3.6136677	-1.2949569			
C	6.9124558	11.5847653	2.8390661	N	18.0558240	10.1763869	17.0876533	H	-0.2012179	-5.5564046	-2.2335755			
H	6.1361272	12.2213732	2.3812775	O	16.5125855	10.9598867	15.4438212	C	1.6844288	-4.7462490	-1.5592094			
H	7.2938929	10.9254454	2.0426363	C	18.7457983	9.0248329	17.6074988	C	0.2966310	-4.7165292	-1.7393497			
C	-0.2095353	8.6650590	3.8138284	H	18.0548964	8.1813759	17.7521357	H	1.8722563	-6.6976964	-2.4797616			
H	-0.9630351	9.3739379	8.7011992	C	19.1934301	9.2823486	18.5751690	C	2.5087406	-5.9177317	-2.0384887			
C	-0.8748212	7.7661489	7.2572536	H	19.5508820	8.7151477	16.9245237	H	3.2410905	-5.6121364	-2.8032223			
H	-0.0978995	7.1241320	6.8035224	THF										
H	-1.2872959	8.3838239	4.4443404	C	-3.1411902	1.3550951	2.1278148	C	3.4067280	-3.6956858	-0.7936291			
C	-1.9675981	6.8813917	7.8687327	O	-4.2814500	1.4152382	1.2380810	C	1.6160590	-2.5416948	-0.4523732			
H	-2.7915201	7.5208755	8.2329866	C	-2.6916830	-0.0161296	2.2323940	C	-1.8399074	-3.2402669	-1.3330263			
H	-2.3978130	6.2276361	7.0924450	C	-4.3638320	0.0514156	0.5489340	C	-3.0104935	-3.8382956	-1.8231494			
C	-1.4215074	6.0456821	9.0323478	H	-4.1330159	2.2497732	0.5355099	H	-2.9701092	-4.8205812	-2.3033050			
H	-2.2250638	5.4410995	9.4824949	C	-3.8049398	-0.8787189	1.6360421	C	-4.2384219	-3.1789501	-1.7011965			
H	-0.6695044	5.3336772	8.6450417	C	-2.4878870	-0.2354758	2.3917748	C	-5.5139908	-3.8013323	-2.2188862			
C	-0.7676229	6.9389791	10.0925147	H	-1.7505852	-0.1360081	1.6638743	H	-6.2341401	-3.9862288	-1.4053517			
H	-0.3441042	6.3266477	10.9049773	C	-5.1927740	1.6163540	1.8309689	H	-6.0161019	-3.1477867	-2.9503159			
H	-1.5404145	5.7812945	10.5521498	C	-3.7180402	0.0293402	-0.3424436	H	-5.3151485	-4.7634871	-2.7118758			
C	0.3278039	7.8278242	9.4865688	H	-5.3868136	-0.2045750	0.2409240	C	-4.2813803	-1.9119922	-1.0701507			
H	1.1583040	7.1928372	9.1266774	C	-4.5759754	-1.0908771	2.3925873	H	-5.2525657	-1.4173735	-0.9794158			
H	0.7496615	8.4825267	10.2652969	H	-3.4334837	-1.8345817	1.2418585	C	-3.1395010	-1.2808344	-0.5663127			
C	1.8505756	10.7708408	8.8454616	McBpin										
H	2.3123944	10.0783809	9.5746021	C	16.9017969	-5.4546332	9.7499799	C	0.1341929	1.3789977	-1.5159489			
C	0.8126850	11.6409779	9.5645449	H	17.9680656	-3.4279764	10.1149146	C	-0.8841900	1.0283025	-3.6127123			
H	0.2929332	12.2656556	8.8178367	O	16.9998025	-4.0805523	7.4757290	H	-0.7138790	0.8104783	-4.6753556			
H	0.0441670	11.0125797	10.0433244	H	16.5226378	-6.5855621	8.4305312	H	-1.8053995	0.5197532	-3.2910813			
C	1.4715853	12.5505945	10.6125234	C	17.3305550	-6.0162229	8.9109334	H	-1.4990630	2.6118930	-1.1766477			
H	1.9079032	11.9269762	11.4138448	H	17.6926515	-2.9004727	7.2603250	C	0.9511308	2.5337722	-3.3114596			
H	0.7073347	13.1861123	11.0890309	C	18.9726349	-3.8344394	9.9289679	H	-1.9351401	2.9720003	-3.5271379			
C	2.5740512	13.4146518	9.9891063	C	19.1265685	-4.7024043	10.5851834	H	0.0286326	3.4678724	-1.5721823			
H	2.1205516	14.1044637	9.2542084	H	17.4982338	-5.0923421	7.8914068	C	-0.6069381	2.6098142	-1.8221275			
H	3.0515738	14.0418393	10.7590488	C	18.0654633	-6.7334477	9.3056884	H	-0.2007082	3.0761819	-3.9054626			
C	3.6207934	12.5452171	9.2829869	H	19.7093533	-3.0640554	10.1947683	C	0.2795958	0.5906904	-2.7395506			
H	4.3867041	13.1755018	8.8190007	C	19.1565762	-4.2080188	8.4556719	H	1.2520711	0.8352985	-3.1963355			
H	4.1469502	11.9263654	10.0320297	H	19.0107316	-2.9649298	7.6842511	P	-3.0648025	0.3517601	0.2856687			
C	2.9747515	11.6290505	8.2363483	C	17.4559476	-6.2910484	8.1817974	H	0.2622470	-0.4662232	-2.4478143			
H	3.7389462	10.9746321	7.7845530	C	18.3667806	-5.8724837	6.6315621	C	-4.5585124	1.2808395	-0.3861503			
H	2.5585982	12.2418502	7.4177532	H	18.8465312	-5.2193025	5.8887380	H	-5.4537995	0.6559038	-0.2231262			
O	2.2388714	7.4094826	4.7713406	C	20.5523984	-4.7687848	8.2199629	C	-4.4206679	1.5337353	-1.8958613			
C	1.1880892	7.6220093	3.7741765	H	19.0506321	-6.7002522	6.8655005	C	-4.7481111	2.6052909	0.3727049			
H	4.7877020	8.2276476	7.0905986	H	20.6666989	-5.7409693	8.7217684	H	-4.8893085	2.4192354	1.4492871			
C	2.3906939	5.9869759	5.0518164	C	21.3013688	-4.0804938	8.6360049	H	-3.8272550	3.2095585	0.2785734			
C	0.8886251	6.2353578	3.2172726	H	20.7620116	-4.8982038	7.1510532	H	-3.4991060	2.1126645	-2.0788624			
H	1.5702410	8.3362976	3.0338907	C	17.0518829	-6.1672868	6.6309466	C	-5.9402892	3.4005046	-0.1787393			
C	1.1690354	5.3247702	4.4231355	H	16.2069077	-1.8557339	5.9703798	H	-6.8704442	2.8382890	0.0203029			
H	2.4621021	5.8662139	6.1417903	H	17.7927699	-1.0326218	6.0668796	H	-6.0303474	4.3586210	0.3577859			
H	3.3315058	5.6420904	5.9183035	H	16.6694295	-0.9603124	7.4298959	H	-4.3080834	0.5795644	-2.4324090			
H	0.3202861	8.0674671	4.2848199	Int_a										
H	1.5717704	5.9973511	2.3872915	C	0.0800729	1.7393671	2.0531825	C	-5.617818	2.3211674	-2.4439322			
H	-0.1424744	6.1547431	2.8485288	O	2.2563070	4.8106024	-1.7536100	H	-6.5311097	1.7073136	-2.3458579			
H	0.3185836	5.3406206	5.1224447	O	3.7178001	3.2125912	-0.9408151	H	-5.4803025	2.5096795	-3.5210706			
H	1.3628935	4.2813617	4.1413306	C	2.6130428	5.25453888	-0.3870023	C	-5.8103237	3.6409650	-1.6878592			
H	4.3464194	7.8277842	8.0216852	H	3.1777715	7.1143208	0.5674829	H	-4.9395411	4.2950028	-1.8763347			
H	5.5220533	8.9957735	7.3951757	C	1.8980127	7.2685181	-0.6590826	H	-6.6947244	4.1772669	-2.0675659			
H	5.3733682	7.4091144	6.6308301	C	1.4244490	4.9069829	0.5081592	H	-5.7478331	0.1089004	1.8452212			
HBpin														
O	0.7535016	2.1134698	-0.7440536	O	3.5885204	7.0428074	-1.1680791	H	-5.1199678	-1.5323947	1.6234431			
C	2.2111757	2.3543998	-0.7642582	C	2.8411628	6.7588066	-0.4172949	C	-5.0112227	-0.6146897	2.2269715			
C	2.9205241	1.0612633	-0.3888722	H	3.5885204	7.0428074	-1.1680791	C	-5.3229506	-0.9328252	3.6983958			
B	0.1713852	3.2716149	-0.2826452	H	3.1777715	7.1143208	0.5674829	H	-5.3124206	0.0061487	4.2806350			
O	1.0623491	4.1989140	0.2062589	C	1.8980127	7.2685181	-0.6590826	H	-6.3421576	-1.3443563	3.7819181			
C	2.3756868	3.5267809	0.2757450	H	3.1777715	7.1143208	0.5674829	H	-4.5240395	-2.0912501	5.3595255			
C	2.5343477	3.0401851	1.7177124	C	1.4244490	4.9069829	0.5081592	H	-4.3839063	-2.8804605	3.7804432			
C	3.4580583	4.5410427	-0.0684062	H	1.2410384	3.8247949	0.5441147	C	-4.3007774	-1.9068415	4.2961894			
C	2.5593024	2.7635403	-2.1972291	H	0.5235188	5.3978957	0.1143297	C	-2.8736657	-1.3730453	4.1308725			
H	-1.0106619	3.4569356	-0.3042528	H	1.5843293	5.2595965	1.5363666	H	-2.1414361	-2.1002254	4.5186259			
H	3.6432317	2.8943794	-2.3231105	H	3.1558005	3.2932072	1.6560672	H	-2.7542681	-0.4535307	4.7314876			
H	2.2232804	1.9738932	-2.8833178	H	4.9281529	3.3336320	1.4966436	H	-2.5710753	-1.9959840	2.0775907			
H	2.0566834	3.6996482	-2.4791893	C	4.0082269	3.9211068	1.3697042	C	-2.5616093	-1.0606724	2.6622858			
H	3.4856590	5.3256612	0.7008136	H	4.0576826	4.7821953	2.0524208	H	-1.5467166	-0.6462450	2.5737697			
H	4.4441689	4.0546266	-0.0957087	C	3.898									

C	1.4787878	-2.3187969	4.3069778	H	7.5633395	10.6482554	3.7485070	Mg	2.8061559	8.1183250	5.3289260
H	1.8914061	-1.4635077	4.8716713	C	6.4975891	12.5017365	4.0237950	N	2.4919981	10.2399061	4.7954933
H	0.4992498	-2.5499058	4.7568415	H	5.7196286	13.0862608	3.5034461	C	3.8559315	10.8210445	2.7428199
H	1.9653376	-4.3982059	3.9590485	H	6.0893882	12.2338908	5.0085466	C	3.7954784	11.5356728	1.5343603
H	2.5783277	-3.7735780	5.4983318	C	7.7638041	13.3535728	4.1892915	H	4.6016836	11.4156801	0.8085993
C	2.4273658	-3.5161791	4.4375174	H	7.5195551	14.2728511	4.7454860	C	2.7610185	12.4389107	1.2183838
H	4.4347169	-4.1052396	3.8274827	H	8.4935428	12.7967540	4.8038215	C	1.7674849	12.6720714	2.1766314
C	3.7726230	-3.2267238	3.7609678	C	8.3974215	13.7000785	2.8371847	H	0.9891930	13.4162645	1.9822910
H	4.2808661	-2.4058339	4.2985686	H	7.7141399	14.3636408	2.2769226	C	1.7619696	11.9450811	3.3701270
H	3.1662056	-3.6829770	1.7314803	H	9.3328997	14.2633133	3.9843350	C	2.7624912	10.9393681	3.6404610
C	3.5860878	-2.8276670	2.2884160	C	8.6605088	12.4387382	2.0067988	C	1.3561057	10.8398214	5.3213008
H	4.5654982	-2.6019019	1.8365698	H	9.4243870	11.8188517	2.5096361	C	0.8666848	11.9031098	4.4947500
H	3.0890404	-0.7494818	2.6351353	H	9.0692751	12.7056873	1.0190589	C	-0.3011328	12.5936108	4.8447888
C	2.6347802	-1.6324213	2.1485618	C	7.3782685	11.6109670	1.8284613	H	-0.6784507	13.3979232	4.2056757
P	2.3145926	-1.0538237	0.3776493	H	6.6491279	12.2179071	1.2685063	C	-0.9961357	12.2539032	6.0107012
C	4.0267762	-0.8726919	-0.3699526	H	7.5881489	10.7191223	1.2198517	C	-0.5116489	11.1914349	6.8081219
H	4.5309044	-1.8532417	-0.3075422	C	-0.3107042	8.0451275	7.9368435	H	-1.0803708	10.9146719	7.7007826
H	4.9720550	-0.1471429	1.4608651	H	-0.9565854	8.7316852	8.5125170	C	0.6467118	10.4754605	6.4883115
C	4.8576079	0.1603859	0.4091011	C	-1.1265048	7.4533750	6.7727103	C	2.7481206	13.1445554	-0.1163108
H	4.3205291	1.1221588	0.4053528	H	-0.4588029	6.8394912	6.1432035	H	3.7651631	13.4078530	-0.4446272
C	6.2431028	0.3519016	-0.2268766	H	-1.5083245	8.2623130	6.1311216	H	2.1567625	14.0702433	-0.0725756
H	6.8210624	-0.5845715	-0.1248340	C	-2.2834354	6.5871364	7.2892616	H	2.3075926	12.5109837	-0.9042623
H	6.8000571	1.1262423	0.3263155	H	-3.0018803	7.2262263	7.8335254	C	-2.2339452	13.0094797	6.4304531
C	6.1402943	0.7287487	-1.7102704	H	-2.8294570	6.1524355	6.4369666	H	-2.6470598	13.5940954	5.5961294
H	7.1461205	0.8110135	-2.1534955	C	-1.7809605	5.4799198	8.2240918	H	-2.0180756	13.7140535	7.2507221
H	5.1900318	0.0185267	-3.5367180	H	-2.6269714	4.8902572	8.6116616	H	-3.0205773	12.3281301	6.7890434
H	5.6647193	1.7204760	-1.7917316	H	-1.1454604	7.4831068	7.6489020	C	5.7366582	8.6032792	2.0670175
C	5.2991212	-0.29395730	-2.48582047	C	-0.96648400	6.0637996	9.3841277	H	5.6534358	9.0244315	1.0477016
H	5.8210514	-1.2675528	-2.4971990	H	-0.5710054	5.2574325	10.0235197	C	7.1392029	7.9950183	2.2434339
C	3.9127333	-0.4743042	-1.8512003	H	-1.6252035	6.6790878	10.0208939	H	7.9176122	8.7480348	2.0513434
H	3.3337808	-1.2318655	-2.4026701	C	0.1938618	6.9344602	8.8763583	H	7.2710580	7.6857081	3.2921582
H	3.3547133	0.4745925	-1.9192516	H	0.9125766	6.3007761	8.3252336	C	7.3366207	6.7912641	1.3110783
Int_a'											
P	5.3434134	10.0433247	3.2464127	C	1.9750339	9.8211321	8.7406329	H	8.3293920	6.3471681	1.4879926
P	1.1382869	9.0139977	7.2634468	H	2.4527192	8.9741349	8.2679590	C	6.2373504	5.7387570	1.4983436
Mg	2.5912857	8.2164869	5.1974425	C	1.0445622	10.5517855	9.7164061	H	6.3082728	5.3145441	2.5158879
N	2.3200202	10.2485155	4.6767243	H	0.5187398	11.3558881	9.1735621	H	6.3861686	4.9024359	0.7970426
C	3.8339075	10.9785018	2.7867302	H	0.2723466	9.8701397	10.1073966	C	4.8457316	6.3539612	1.3082382
C	3.8773198	11.8074719	1.6521388	C	1.8420556	11.1592149	10.8818013	H	4.0631959	5.5995757	1.4866078
H	4.7466181	11.7591597	0.9946177	H	2.2851086	10.3418595	11.4795430	H	4.7321169	6.6887867	0.2610542
C	2.8629982	12.7289727	1.3247816	H	1.1615454	11.7076898	11.5535664	C	4.6326752	7.5475647	2.2465868
C	1.7687574	12.8520081	2.1894106	C	2.9608004	12.0825487	10.3830378	H	3.6465405	8.0057606	2.0771942
H	0.9940691	13.5963949	1.9831210	H	2.5105699	12.9556433	9.8776710	H	4.6409277	7.1849447	3.2889714
C	1.6635822	12.0192005	3.3065204	H	3.5399077	12.4741352	11.2347029	C	6.8198195	11.2557520	2.9613142
C	2.6660677	11.0187884	3.5891485	C	3.8817789	11.3550225	9.3963141	H	7.6438406	10.7518014	3.4995082
C	1.1355566	10.7932451	5.1532609	H	4.6509556	12.0412719	9.0064067	C	6.5343162	12.5864226	3.6829363
C	0.6785606	11.8822912	4.3483296	H	4.4188764	10.5467819	9.2955283	H	5.6892792	13.0904312	3.1829789
C	-0.5113142	12.5463085	4.6756184	C	3.0861163	10.7553946	8.2310372	H	6.2267273	12.4001118	4.7212282
H	-0.8682814	13.3763667	4.0585754	H	3.7517266	10.2221470	7.5348815	C	7.7735424	13.4927956	3.6533847
C	-1.2477106	12.1559425	5.8002459	H	2.6258100	11.5693386	7.6443482	H	7.5396221	14.4542424	4.1381226
C	-0.7683659	11.0920348	5.6994601	H	4.4431211	7.5961394	8.1601439	H	8.5737246	13.0230490	4.2528431
H	-1.3479872	10.8063495	7.4820331	H	5.9124854	9.3976093	7.8852402	C	8.2799785	13.7241672	2.2248560
C	0.4113356	10.4016613	6.3021863	O	4.5685466	8.2829047	5.6207311	H	7.5254010	14.3030463	1.6621009
C	2.9688661	13.5616616	0.0696183	H	3.7200651	6.2561609	7.2337561	H	9.1991997	14.3313148	2.2365936
H	4.0110269	13.8460282	-0.1400450	C	4.6678973	6.7539944	7.4939736	C	8.5286039	12.3950511	1.5019132
H	2.3759432	14.4837498	0.1513834	B	5.4630639	9.4116457	5.2051672	H	9.3544140	11.8544655	1.9980295
C	2.5984430	13.0111041	-0.8111392	C	6.7789171	8.7283934	7.7922643	H	8.8461195	12.5743947	0.4620856
C	-2.5439286	12.8412575	6.1602898	O	6.8133778	8.8947113	5.3755351	C	7.2697556	11.5136600	1.5140043
H	-2.6552654	13.7925811	5.6211133	H	4.4561510	5.7455637	4.9459915	H	6.4740312	12.0404357	0.9642580
H	-2.6019833	13.0548398	7.2386701	H	5.2864112	6.0262093	8.031889	H	7.4625607	10.5723623	0.9777464
H	-3.4148730	12.2139433	5.9080511	H	7.6866238	9.3473094	7.8139667	C	-0.1939443	8.0334965	7.8950817
C	5.6050952	8.7924149	1.8858101	C	6.7514059	7.9532027	6.4653150	H	-0.8533183	8.6689295	8.5123620
H	5.6228530	9.3717022	0.9441296	H	5.9876334	5.1960961	5.6762404	C	-0.9583777	7.6024904	6.6295663
C	5.9356062	8.0322161	2.0311554	H	7.9094380	6.2342918	7.1338026	H	-0.2590935	7.0714408	5.9598515
H	7.7872278	8.7286355	1.9959703	C	5.4705645	6.0582074	5.2314125	H	-1.3076455	8.4920987	6.0827800
H	6.9771321	7.5584740	3.0237627	H	6.0054188	6.3547639	4.3212713	C	-2.1388078	6.6823213	6.9645959
C	7.0831032	6.9690328	0.9331377	C	7.9659005	7.0340725	6.3800789	H	-2.8912766	7.2486719	7.5422801
H	7.1668623	7.4712412	-0.0475401	H	5.9876334	5.1960961	5.6762404	H	-2.6338008	6.3602900	6.0335754
H	8.0220549	6.4125749	1.0834082	H	7.9094380	6.2342918	7.1338026	C	-1.6862416	5.4651818	7.7801350
C	5.8875331	6.0095059	0.9063254	H	8.8785119	7.6171042	6.5680050	H	-2.5502425	4.8319410	8.0381781
H	5.8609869	5.4331571	1.8481253	H	8.0506886	6.5765940	5.3865963	H	-1.0108776	4.8465294	7.1625753
H	6.0053740	5.2772491	0.0918242	H	5.1721713	10.4470162	5.7923037	C	-0.9449785	5.8994406	9.0506682
C	4.5681961	6.77474803	0.7485151	C	1.8023753	6.4381498	4.2982003	H	-0.5940499	5.0185451	9.6118603
H	3.7124924	6.0816221	0.7762913	H	0.7829707	6.6102207	3.9069207	H	-1.6447418	6.4398558	9.7135250
H	4.5466080	7.2669814	-0.2402431	H	1.7152762	5.6150956	5.0321176	C	0.2456806	6.8109633	8.7205360
C	4.4015341	7.8343875	1.8446091	H	2.3975353						

H	0.5560618	11.1419725	9.5108197	H	-0.2986648	0.8722298	2.3087541	H	1.2741641	-2.3544663	4.7001173
H	0.3571823	9.5601010	10.2858437	H	1.0599101	1.9604886	2.4493617	H	2.7836614	-4.1414007	3.8548670
C	1.8666691	10.8231661	11.2098202	C	0.3016230	-2.5947184	-0.6761069	C	3.5256569	-3.3499476	5.2537845
H	2.3353929	9.9666486	11.7273063	C	-0.4183716	-3.7251749	-1.1874277	C	3.2248718	-3.1910761	4.2056835
H	1.1581357	11.2732309	11.9241402	H	-0.2369042	-5.7308062	-2.0034986	H	5.1827887	-3.6801581	3.3847087
C	2.9533990	11.8350348	10.8234327	C	1.6934487	-4.8741649	-1.5505226	C	4.4486182	-2.8589239	3.3441927
H	2.4733595	12.7386706	10.4069576	C	0.2938808	-4.8574760	-1.6121782	H	4.9515265	-1.9646319	3.7549296
H	3.5096627	12.1569906	11.7185594	H	1.8151910	-6.8515362	-2.4265489	H	3.6311961	-3.5095908	1.4464389
C	3.9111589	11.2523145	9.7770211	C	2.4771694	-6.0852706	-1.9990547	C	4.0500912	-2.5878338	1.8851869
H	4.6528463	12.0072150	9.4707729	H	3.2259407	-5.8236730	-2.7635176	H	4.9428691	-2.3300030	1.2928768
H	4.4788566	10.4161362	10.2243819	H	3.0221871	-6.5477308	-1.1599521	H	3.4350959	-0.5289656	2.1676970
C	3.1463225	10.7455945	8.5486916	C	2.3819025	-3.7397827	-1.0527832	C	2.9991780	-1.4743763	1.7950666
H	3.8305007	10.3192430	7.7981800	H	3.4751138	-3.7683249	-1.0279387	P	2.4234343	-1.0368660	0.0575538
H	2.6470561	11.5956021	8.0526790	C	1.7115662	-2.5977226	-0.6049736	C	3.9818468	-0.7433393	-0.9436317
H	4.8161779	8.2609004	8.4617552	C	-1.8080980	-3.3335625	-1.1479296	H	4.5537146	-1.6867854	-1.0019310
H	6.0129428	10.1912272	7.8843244	C	-3.0278130	-3.9231490	-1.5161110	H	5.2168315	-0.0165032	0.6982203
O	4.8312103	8.5315344	5.8138727	H	-3.0516145	-4.9388504	-1.9220575	C	4.8560056	0.3355493	-0.2808480
H	4.2689616	6.7161994	7.7695104	C	-4.2257158	-3.2103317	-1.3755698	H	4.2466859	1.2324409	-0.0789570
C	5.1432717	7.3615474	7.9269724	C	-5.5484936	-3.8278349	-1.7652986	C	6.0528350	0.7153910	-1.1639093
B	5.5730367	9.7047017	5.2556196	H	-6.2233888	-3.9193231	-0.8986826	H	6.7343630	-0.1500659	-1.2538505
C	6.9539993	9.6269180	7.8919754	H	-6.0738673	-3.2194260	-2.5188997	H	6.6282111	1.5202332	-0.6776681
H	7.0440463	9.1054223	8.8555845	H	-5.4097661	-4.8340705	-2.1853174	C	5.6067427	1.1489298	-2.5651329
C	5.7791485	7.7114941	6.5839304	C	-4.1944815	-1.8920182	-0.8555998	H	6.4813291	1.3982674	-3.1875282
H	5.8623375	6.8193236	8.5594589	H	-5.1399743	-1.3490060	-0.7636887	H	4.4215836	0.3832293	-4.2272027
H	7.7797590	10.3478508	7.8088334	C	-3.0032536	-1.2719174	-0.4678546	H	5.0018207	2.0702907	-2.4829690
C	7.0377625	8.6583689	6.7012337	C	-1.8040118	-2.0008502	-0.6169180	C	4.7674284	0.0541499	-3.2335706
O	6.9855462	4.9188302	5.4819315	N	-0.5332814	-1.5566755	-0.3241748	H	5.3978063	-0.8381723	-3.3992733
H	5.1251004	5.9287010	5.5719886	O	-0.1062051	0.9580964	-2.0913726	C	3.5620285	-0.3271470	-2.3658953
C	6.0719744	6.4335980	5.7980203	C	-0.3596787	0.6214843	-4.4466026	H	2.9880398	-1.1399421	-2.8394599
H	6.5796263	6.6583296	4.8517409	H	0.0597510	-0.0147342	-5.2370161	H	2.8827268	0.5408835	-2.2883809
C	8.3690487	7.9126047	6.7497302	H	-1.3832708	0.9007080	-4.7391829				
H	6.7052104	5.7473102	6.3780157	H	-0.9268997	2.7652396	-2.7595073				
H	8.4133118	7.2381119	7.6178748	C	0.4761767	1.8817829	-4.1777115				
H	9.1888665	8.6394556	6.8403336	H	0.2787222	2.6906938	-4.8935498				
H	8.5322599	7.3249974	5.8375989	C	0.7668390	2.8371020	-1.931883				
H	5.1401441	10.7651495	5.6913908	C	0.0458866	2.2435242	-2.7655255				
C	2.6173618	5.9504516	5.5565509	H	1.5525224	1.6504262	-4.1998453				
H	1.5531489	5.6538831	5.4816822	C	-0.3637061	-0.0892484	-3.0929912				
H	2.9446967	5.6144767	6.5581215	H	0.4408515	-0.8323529	-2.9992258				
H	3.1651424	5.3157303	4.8341998	C	-2.7661682	0.4099199	0.2427270				
H	1.8395013	5.8684139	3.2012384	H	-1.3202399	-0.5697459	-2.8499526				
C	1.2185364	6.6190970	2.7036116	C	-4.0731109	1.4777269	-0.5745104				
H	1.5550649	6.7465276	1.6568350	H	-5.0690251	1.0420224	-0.3789695				
C	-0.2841067	6.3599582	2.7725472	C	-3.8472932	1.5166357	-0.9500901				
O	1.3966488	7.8666172	3.4117928	C	-4.0195651	2.8943076	0.0247300				
C	0.3204936	8.7183587	2.9374630	H	-4.2266966	2.8638574	1.1063994				
C	-0.8869700	7.7857901	2.6989370	H	-2.9922012	3.2887351	-0.0853480				
H	0.1461030	9.4839194	3.6990666	H	-2.8159758	1.8577061	-2.2906944				
H	0.6452847	9.2124687	2.0055522	C	-5.0065319	3.8407171	-0.6727403				
H	-0.5310166	5.8813271	3.7314909	H	-6.0384072	3.5016836	-0.4702719				
H	-1.3428027	7.9849057	1.7191965	H	-4.9181333	4.8528420	-0.2459645				
H	-1.6621728	7.9310042	3.4632365	H	-3.9269708	0.5020054	-2.5150608				
H	-0.6322807	5.7037508	1.9634849	C	-4.8348228	4.4649278	-2.7875914				
H	-5.8593021	2.0655971	-2.6772753	H	-5.8593021	2.0655971	-2.6772753				
H	-4.6256969	2.4967849	-3.8691997	H	-4.6256969	2.4967849	-3.8691997				
C	-4.7740825	3.8748198	-2.1877445	C	-4.7740825	3.8748198	-2.1877445				
H	-3.7792457	4.3125628	-2.3903740	H	-3.7792457	4.3125628	-2.3903740				
H	-5.5124325	4.5317457	-2.6746733	C	-5.5124325	4.5317457	-2.6746733				
C	-5.4254174	0.8341832	1.7972012	H	-5.4254174	0.8341832	1.7972012				
H	-5.1696589	-0.9172518	1.7046529	H	-5.1696589	-0.9172518	1.7046529				
C	-4.8555872	-0.0006661	2.2343004	C	-4.8555872	-0.0006661	2.2343004				
C	-5.2009972	-0.1317887	3.7270488	H	-5.2009972	-0.1317887	3.7270488				
C	-4.9742114	0.8242544	4.2327417	H	-4.9742114	0.8242544	4.2327417				
H	-6.2836076	-0.3017712	3.8460071	H	-6.2836076	-0.3017712	3.8460071				
H	-4.6365726	-1.3024543	5.4735221	H	-4.6365726	-1.3024543	5.4735221				
H	-4.7151128	-2.2263849	3.96555702	C	-4.7151128	-2.2263849	3.96555702				
C	-4.4046401	-1.2578514	4.3972961	C	-4.4046401	-1.2578514	4.3972961				
C	-2.8975110	-1.0743052	4.1802382	H	-2.8975110	-1.0743052	4.1802382				
H	-2.3398280	-1.9178875	4.6185639	H	-2.3398280	-1.9178875	4.6185639				
H	-2.5579721	-0.1631491	4.7050895	H	-2.5579721	-0.1631491	4.7050895				
H	-2.8223344	-1.8940313	2.1751132	H	-2.8223344	-1.8940313	2.1751132				
C	-2.5636378	-0.9520647	2.6881255	C	-2.5636378	-0.9520647	2.6881255				
C	-1.4799480	-0.8173410	2.5475086	H	-1.4799480	-0.8173410	2.5475086				
H	-2.3473747	0.1997659	2.0316763	C	-2.3473747	0.1997659	2.0316763				
C	-3.0412547	1.1433539	2.5208688	H	-3.0412547	1.1433539	2.5208688				
H	1.0496539	-0.9713846	2.6184860	H	1.0496539	-0.9713846	2.6184860				
C	1.7702749	-1.8026473	2.6604114	C	1.7702749	-1.8026473	2.6604114				
H	1.2582511	-2.6860716	2.2401973	H	1.2582511	-2.6860716	2.2401973				
C	2.1684674	-2.0833559	4.1152349	C	2.1684674	-2.0833559	4.1152349				
H	-0.5070335	2.5451059	1.8015468	H	2.5712038	-1.1577538	4.5644327				

H	5.1013158	11.9411303	4.6732526	C	11.0823172	9.6270851	4.8891964	H	9.5929441	8.1703053	9.4313090
H	5.4642294	10.4963354	5.6317667	C	10.1562399	9.2748781	5.9027053	H	9.9048996	6.0042578	10.6132846
C	7.1178610	11.8979187	5.4697233	C	9.1734472	8.2987451	5.7104243	H	11.4696979	6.7819378	10.3281277
H	6.8299069	12.4688509	6.3677320	P	6.3696478	4.7310077	2.6388265	H	11.8757654	5.3160941	8.3568621
H	7.8471830	11.1365751	5.7993568	C	6.9618756	2.9735348	2.9813325	H	11.5445327	4.3230561	9.7843222
C	7.7788160	12.8176156	4.4366348	C	8.0123282	3.0205759	4.1059734	H	10.2808084	3.4987266	7.7628715
H	7.0826680	13.6371926	4.1825609	C	8.4906145	1.6145920	4.4905408	H	9.1860473	4.0035927	9.0582623
H	8.6800793	13.2872903	4.8624571	C	9.0096376	0.8437582	3.2706563	H	8.3723063	4.8793116	6.8931548
C	8.1317086	12.0467056	3.1588706	C	7.9509318	0.7871517	2.1624232	H	9.9359186	5.6429393	6.5658713
H	8.9006179	11.2885737	3.3921673	C	7.4776818	2.1941964	1.7652939	H	3.8716582	8.1224456	5.8601828
H	8.5731170	12.7242034	2.4097517	C	9.8537409	6.0108176	-1.3505502	H	3.2008477	7.3978549	4.3628545
C	6.8969340	11.3499623	2.5659216	C	12.1354046	10.6736756	5.1708851	H	6.4937494	9.3737716	3.8227932
H	6.1704074	12.1150865	2.2429873	P	7.8719878	7.7452753	6.8917547	H	6.2371489	8.1461283	2.5469671
H	7.1830015	10.7814772	1.6659481	C	8.7813048	6.6350485	8.1117950	H	4.0278229	10.3146003	4.8493019
C	-0.2646108	8.3576230	7.8808443	C	9.9430576	7.2899167	8.8685142	H	3.9896863	8.9504785	2.0890392
H	-0.9232187	9.0575035	8.4253231	C	10.6203615	6.2942078	9.8226936	H	4.7703603	10.4961266	2.5136538
C	-1.0660004	7.7222055	6.7307909	C	11.0881684	5.0368367	9.0795266	H	2.5976043	9.7171718	3.9713262
H	-0.3822449	7.0937779	6.1323110	C	9.9264194	4.3764658	6.3278113	H	5.6844126	5.0209203	6.1348661
H	-1.4452840	8.5069071	6.0578528	C	9.2385902	3.3625779	7.3743061	H	4.2684456	3.7406095	5.4162252
C	-2.2200599	6.8571487	7.2539704	C	5.1358512	4.5701522	1.2328146	H	3.0794165	2.6896039	6.2679234
H	-2.9526591	7.5038301	7.7690265	C	3.9620218	3.6627237	1.6348600	H	2.5480585	3.6599788	4.8734524
H	-2.7515207	6.3914213	6.4081494	C	2.8979394	3.5984174	0.5295654				
C	-1.7171680	5.7849805	8.2822031	C	2.4020495	4.9965044	0.1420091				
H	-2.5609716	5.1959749	8.6214161	C	3.5695286	5.9047392	-0.2606394				
H	-1.0650118	5.0780566	7.6833283	C	4.6327715	5.9710537	0.8432143				
C	-0.9234138	6.4144313	9.3797364	C	7.4084545	9.2857860	7.8547715				
H	-0.5311970	5.6326090	10.0499260	C	6.7085254	10.2731360	6.9048038				
H	-1.6006616	7.0410296	9.9870389	C	6.2235159	11.5264683	7.6444407				
C	0.2331802	7.2818604	8.8618852	C	5.3130708	11.1597030	8.8222832				
H	0.9713882	6.6399368	8.3472937	C	6.0123163	10.1838965	9.7758043				
H	0.7597433	7.7466483	9.7101588	C	6.4986629	8.9254708	9.0146929				
C	2.0061562	10.1449182	8.6496426	O	3.7872999	6.5476333	7.8933564				
H	2.4354717	9.3001856	9.2195221	C	3.4670926	5.6181526	7.2207116				
C	1.0759733	10.9496198	9.5658067	N	2.8876103	4.7392846	6.6206929				
H	0.5858472	11.7393170	8.9710412	C	3.2191260	3.6467527	5.7439974				
H	0.2746827	10.3076373	9.9659936	H	7.7649252	4.7938758	-0.1441312				
C	1.8525051	11.5983187	10.7222048	H	10.9258223	7.6328333	0.5755660				
H	2.2622787	10.8059605	11.3749871	H	11.7250979	9.2665621	2.8585192				
H	1.1657701	12.1950061	11.3443367	H	10.2180849	9.7597097	6.8624836				
C	3.0026585	12.4704833	10.2043980	H	10.2613793	5.0011738	-1.5235970				
H	2.5843918	13.3177487	9.6316451	H	10.6398181	6.7336355	-1.6101261				
H	3.5636332	12.9044588	11.0476513	H	9.0226963	6.1480306	-2.0605163				
C	3.9397172	11.6637686	9.2975433	H	12.6886229	10.9372108	4.2583696				
H	4.7393144	12.3082649	8.8969139	H	12.8693832	10.3196737	5.9133618				
H	4.4365383	10.8777423	9.8939563	H	11.6908633	11.5972556	5.5737923				
C	3.1755778	11.0080508	8.1399833	H	5.6474679	4.1222389	0.3623941				
H	3.8620454	10.3880803	7.5395335	H	4.3188521	2.6477269	1.8696884				
H	2.7827716	11.7904514	7.4669723	H	3.5045205	4.0576213	2.5601966				
H	2.0391990	5.6752542	5.3078066	H	3.3316080	3.1064162	-0.3594869				
C	1.9628431	5.9415741	4.2444337	H	2.0562578	2.9680950	0.8590693				
H	2.8625449	5.5808761	3.7192488	H	1.8751649	5.4451506	1.0040141				
C	0.6772687	5.4743187	3.5696790	H	1.6669623	4.9286898	-0.6758550				
O	1.9334076	7.3971237	4.1512499	H	3.2069480	6.9159455	-0.4915782				
C	0.8823217	7.8271172	3.2260525	H	4.0315783	5.5175342	-1.1862727				
C	0.4541020	6.5570745	2.5019892	H	5.4784311	6.6012710	0.5259962				
H	0.0669928	8.2688475	3.8194312	H	4.1981868	6.4492512	1.7401017				
H	1.3080598	6.8001895	2.5743275	H	6.0647084	2.4645315	3.3819626				
H	-0.1556064	5.4669530	4.2898167	H	8.8733890	3.6262497	3.7725231				
H	1.0984169	6.3755021	1.6282112	H	7.5880681	3.5290825	4.9880422				
H	-0.5868615	6.6122402	2.1577254	H	9.2724293	1.6875771	5.2642016				
H	0.7758970	4.4655225	3.1482069	H	7.6503192	1.0574919	4.9425621				
H	4.3800438	7.9412494	6.2285373	H	9.9132090	1.3467989	2.8818974				
				H	9.3145203	-0.1745018	3.5611251				
				H	7.0851113	0.1983213	2.5164148				
				H	8.3473656	0.2637461	1.2772014				
				H	8.3209164	2.7491121	1.3194242				
				H	6.6977999	2.1218983	0.9895702				
				H	8.3311010	9.7561347	8.2384590				
				H	5.8417768	9.7625690	6.4491929				
				H	7.3858121	10.5481130	6.0807268				
				H	7.0976240	12.0892613	8.0186461				
				H	5.6977551	12.1943162	6.9424412				
				H	4.9999622	12.0671190	9.3633779				
				H	4.3919023	10.6882457	8.4346708				
				H	5.3348174	9.8955610	10.5953569				
				H	6.8769104	10.6900071	10.2417696				
				H	5.6292812	8.3537167	8.6712493				
				H	7.0296603	8.2667638	9.7468150				
				H	7.9966564	6.3422662	8.8336641				
				H	10.6852677	7.6529233	8.1368932				
Int_c											
C	4.5141330	9.4964100	2.8880900								
C	3.6621125	9.5327235	4.1663666								
C	3.9014623	8.1493212	4.7625323								
O	5.2509277	7.7766964	4.3405135								
C	5.7465907	8.7254837	3.3393344								
Mg	6.4463031	6.2129292	5.0698834								
N	8.2056572	6.7158096	4.0469931								
C	8.5161840	6.4419448	2.7340707								
C	9.6408925	7.2040873	2.2737195								
C	10.0357723	8.0132004	3.4034592								
C	9.1159517	7.6693977	4.4482172								
C	7.8269121	5.5607867	1.8734073								
C	8.2836916	5.4557987	0.5554023								
C	9.3990550	6.1876918	0.0791973								
C	10.0706715	7.0594608	0.9461118								
C	11.0147492	8.9899719	3.6434185								

H	1.2832125	-0.7722720	-2.8819291	C	0.7804542	5.2563405	-4.7125358	H	4.6511086	-0.2602834	-2.6128686
C	3.9683606	0.5689485	-1.7792481	C	-0.5654564	7.1669091	-2.1502934	H	-2.6167949	3.0599496	5.6310153
H	3.7522909	-0.4495062	-2.1380992	C	-1.1763967	7.5897033	-0.9614851	H	-2.6417231	4.7713811	5.1828920
H	3.0691650	1.1742968	-1.9871961	C	-1.6943133	6.6273137	-0.0587356	H	0.5560247	0.6990273	2.0891145
C	-5.0594531	-0.4655263	1.5036956	C	-1.6228281	5.2544112	-0.3145598	H	0.8096859	-0.3425309	0.6532950
H	-5.0598826	-1.4874848	1.0859988	C	-1.3021916	9.0596456	-0.6354859	H	4.3440655	-2.7106963	-3.1328775
H	-5.6588636	0.1597144	0.8232457	P	-0.1320597	0.9036668	-3.2248932	H	3.3001086	-2.1865683	-1.8038867
C	-2.7928633	-0.8128000	2.5700790	C	-1.5727264	0.2830342	-4.2654165	H	-0.2120792	2.8960921	5.0139165
H	-2.7292660	-1.8430367	2.1796040	C	-2.8067014	1.1574244	-3.9789940	H	-0.4394756	4.1998538	6.1883623
H	-1.7635112	-0.4326191	2.6360200	C	-4.0422628	0.6308702	-4.7204185	H	-0.3982762	5.8965669	4.3659298
C	-3.4451726	-0.8337561	3.9592940	C	-3.7834193	0.5121907	-6.2271750	H	1.0655651	4.9067119	4.2904805
H	-3.4218557	0.1852431	4.3869186	C	-2.5507458	-0.3558960	-6.5107495	H	3.8106079	2.5883329	0.9610607
H	-2.8561866	-1.4726536	4.6369856	C	-1.3096749	0.1703637	-5.7715987	H	2.5169926	2.7738584	2.1726018
C	-3.3130307	0.7925802	-2.7013741	P	-2.2190154	3.8561980	0.7290417	H	3.1546018	0.2626587	0.5076073
H	-2.3463419	1.3252913	-2.6934508	C	-4.0890886	3.8552051	0.5247035	H	2.9575847	0.3557055	2.2756359
H	-3.0961458	-0.2505363	-2.9793678	C	-4.8005774	5.1647680	0.8854026	H	-1.6485068	-1.4313126	-1.0132308
C	5.7600444	2.5471407	-0.5029607	C	-6.3173058	5.0527831	0.6634020	H	-5.0335495	0.1733441	-1.7058309
H	5.9687292	3.5648379	-0.1354821	C	-6.6428463	4.6246872	-0.7729169	H	-4.7817208	0.1141839	0.0480113
H	6.6597260	1.9427066	-0.2887328	C	-5.9356472	3.3120962	-1.1306810	H	-5.7473664	-1.1577311	-0.7722925
C	-5.7138008	-0.4881951	2.8950936	C	-4.4208979	3.4094610	-0.9109869	TS_c			
H	-5.7962668	0.5478964	3.2704917	C	1.9488264	4.4494073	-6.8116634	Mg	-0.2109247	0.9391765	0.0705426
H	-6.7417884	-0.8781434	2.8176079	C	1.3242397	-0.1849165	-3.6809443	O	1.9070303	1.3384924	-0.1713699
C	4.8969947	-1.3219907	3.8896776	C	1.0192376	-1.6601024	-3.3705075	C	2.4616074	2.4290285	-0.4033097
H	-4.9060286	-2.3787621	3.5674553	C	2.2354222	-2.55541460	-3.6518423	N	2.0943884	3.6294782	0.0794856
H	-5.3634641	-1.2916547	4.8877387	C	3.4771731	-2.0760826	-2.8896014	B	1.1147691	3.8805255	1.2004734
C	-4.2744697	2.2893062	-0.8969011	C	3.7852989	-0.6065197	-3.2007796	C	-1.0582924	2.9569724	0.2657357
H	-4.7480973	2.3137205	0.0978112	C	2.5726228	0.2889902	-2.9168595	C	2.7921722	4.8143540	-0.4474948
H	-3.3436654	2.8795036	-0.8166257	C	-1.8873817	4.4009999	2.4912663	H	3.5671235	4.4970530	-1.1582236
C	5.1653766	1.1623413	-2.5331524	C	-0.3677303	4.4996617	2.7115247	H	2.0848278	5.4771130	-0.9625913
H	6.0402042	0.4998063	-2.4069862	C	-0.0283714	4.8763170	4.1595332	H	3.2619189	5.3799000	0.3680932
H	4.9482481	1.1928794	-3.6137474	C	-0.6626158	3.8961522	5.1533158	O	0.7613304	5.2230217	1.3352491
C	-5.2031264	2.9363098	-1.9343694	C	-2.1779581	3.7982366	4.9410926	H	3.3399794	2.4632568	-1.0805161
H	-5.4145165	3.9787613	-1.6465247	C	-2.5252428	3.4234866	3.4925486	O	1.1389912	3.2033470	2.4209658
H	-6.1721476	2.4055677	-1.9343017	H	-0.1661269	7.9137750	-2.8428180	C	1.1180492	4.2475551	3.4540352
C	0.5064644	2.1587641	-2.8573876	H	1.5115040	-0.0813528	-4.7643679	C	0.3873441	3.7359000	4.6870522
H	-0.4573873	2.6920886	-2.9113104	H	-4.9018042	1.2931038	-4.5270118	H	-0.6077617	3.3518942	4.4347170
H	1.2064195	2.7706554	-2.2738221	H	-4.3071038	-0.3600081	-4.3112689	H	0.9632063	2.9284562	5.1604860
C	5.5124944	2.5638473	-2.0161521	H	-1.7774452	-0.7225896	-3.8542253	H	0.2739553	4.5448780	5.4240109
H	6.3931828	2.9623564	-2.5447496	H	0.9768557	3.2846011	-5.0307758	H	3.0677816	3.6188151	4.1185119
H	4.6737396	3.2491702	-2.2373353	H	-3.0050116	1.1826302	-2.8960177	C	2.5807181	4.5504232	3.8000623
C	-4.5983443	2.8806933	-3.3426639	H	-2.5980158	2.1955425	-4.2907807	H	3.1259601	4.9393023	2.9277542
H	-3.6822183	3.4979487	-3.3665481	H	1.3183738	2.0469912	-5.7498569	H	2.6607046	5.2825639	4.6159504
H	-5.2942600	3.3187161	-4.0761246	H	-2.3558522	9.3834917	-6.0276516	H	-1.4469253	5.6932942	3.8695727
C	4.2436365	1.4411305	-3.7339786	H	-0.7710751	6.9774488	-1.3730694	C	0.9081133	6.8284029	3.1256474
H	-5.1707870	0.8455656	-3.8118450	H	-0.8874778	9.2917472	0.3583172	H	1.9756635	6.9424514	2.8998761
H	-3.7703949	1.4178405	-4.7294788	H	0.7337264	-1.7534605	-2.3065069	H	0.3553637	7.5960238	2.5658581
C	0.2980226	0.4007144	-4.4521638	H	0.1546552	-2.0093536	-3.9565874	H	0.7516377	7.0098227	4.1990120
H	0.7885086	-0.2322112	-5.2034584	H	-2.3323713	5.4019853	2.6360015	C	0.3947637	5.4470063	2.7311856
H	-0.7449512	0.5632842	-4.7652465	H	-1.0465467	1.1676071	-6.1643535	C	-1.1296745	5.4053210	2.8573902
C	1.0088656	1.7454578	-4.2362617	H	-0.4490168	-0.4889258	-5.9695201	H	-1.5291676	4.4110208	2.6273315
H	2.1006581	1.6046785	-4.2234621	H	-4.4266381	3.0549561	1.2096358	H	-1.5644425	6.1177131	2.1427469
H	0.7662237	2.4919397	-5.0041098	H	-2.3497601	-0.3973799	-5.7936446	H	-1.7592697	2.6582653	-0.5411564
H	0.1122577	2.6384033	0.1771229	H	-2.7531892	-1.3919096	-6.1852467	H	-1.6536316	2.9988030	1.1926399
C	-0.1432585	2.5876020	2.2518970	H	-4.6676412	0.0969452	-6.7367388	H	-0.8104417	3.9963830	0.0083184
O	-0.2078480	1.3802354	2.3075084	H	-3.6191976	1.5208181	-6.6480100	O	-0.0082233	0.7920743	-2.0731400
N	-0.1148873	3.7755788	2.4794751	H	-2.1589665	6.9828229	0.8653445	H	1.4982173	-0.6474849	-2.1900057
C	-0.2224103	4.5788210	3.6819574	H	2.9451229	3.9789772	-6.8144409	C	0.5640921	-0.3840449	-2.7156880
H	-1.0611248	5.2810241	3.5768084	H	2.0866597	5.5258729	-6.9851246	H	-0.1622971	-1.1993956	-2.6049188
H	0.6954299	5.1699561	3.8087184	H	1.3980785	4.0403483	-7.6741254	C	0.8238372	0.0416381	-4.1558197
H	-0.3799956	3.9648181	4.5820972	H	1.3558512	3.6719262	-0.2392457	H	1.6256370	-0.5447868	-4.6237590
H	2.2140162	2.5697186	-0.8804228	H	2.7966869	1.3366270	-3.1727242	H	-0.0894645	-0.0734248	-4.7580498
C	1.26093560	0.7674684	1.3195338	H	2.3498339	0.2648725	-1.8348979	C	1.1804783	1.5283074	-3.9949632
C	1.1048150	0.5980557	1.1392055	H	-4.4001739	5.9745089	0.2510700	H	1.0383305	2.1102677	-4.9155940
O	0.7026438	1.6972305	0.2641060	H	-4.5929248	4.4546461	1.9307347	H	2.2298700	1.6356682	-3.6786799
C	1.7909801	2.6701463	0.1307801	H	-3.9895770	4.1326408	-1.6253246	C	0.2379521	1.9754511	-2.8801543
C	2.7861303	2.2914969	1.2202303	H	-3.9509828	2.4332386	-1.1115986	H	0.6513663	2.7590348	-2.2293248
Mg	-1.0788579	1.8547718	-0.7761473	H	-6.3382706	2.4964481	-0.5034123	C	3.1134482	0.6466368	3.2887025
O	-2.3099186	0.4188978	-0.3853781	H	-6.1414411	3.0329499	-2.1766336	C	2.5933201	0.9891035	4.1980799
C	-2.5390975	-0.7948557	-0.8359908	H	0.0840003	3.5185396	2.4765291	H	2.9810283	1.4493709	2.5464328
N	-3.6797894	-1.3474242	-1.0858672	H	0.0690620	5.2278647	2.0103177	C	4.6062401	0.4486124	3.5832506
C	-4.8595051	-0.5146120	-0.8579613	H	1.9988678	-3.5972262	-3.3882494	H	4.7258336	-0.2665400	4.4171749
N	-0.8016758	3.5516310	-1.9243881	H	2.4479664	-2.5426121	-4.7358703	H	5.0475695	1.4014453	3.9196013
C	-0.9949091	4.8485349	-1.5103331	H	-6.7334921	4.3099298	1.3675467	H	5.3102164	0.6699000	1.5484306
C	-0.4623153	5.7983280	-2.4429939	H	-6.8000880	6.0154757	0.8977788	C	5.3534927	-0.0851812	2.3552338
C	0.1014598	5.0008834	-3.5107480	H	-6.3133788	5.4165931	-1.4695548	H	6.4194858	-0.2378383	2.5890910
C	-0.1394374	3.6408512	-3.1266090	H	-7.7320442	4.5213489	-0.9033435	H	5.2432235	-1.7554129	0.9587797
C	0.2831887										

C	3.2283441	-1.2005517	1.5426726	H	1.1367425	-0.8708764	5.3054036	C	6.5850073	10.0411888	2.8572215
H	3.1158097	-0.5008795	0.6983381	P	0.6690113	-0.3294631	2.2884845	H	7.1871467	9.1862200	3.2196560
C	2.4620659	-0.6403260	2.7561355	Pdt				C	6.6910123	11.1629010	3.8957049
H	2.4761197	-1.4020101	3.5579991	C	16.8821630	10.6402055	16.8816217	H	6.0534752	12.0064677	3.5806423
N	-1.3582106	-0.9356008	0.0070299	N	17.8869309	9.6987669	16.8049738	H	6.2830924	10.8118077	4.8521920
C	-0.8661019	-2.0081229	0.7387452	O	16.0880949	10.8750013	15.9757568	C	8.1345009	11.6440376	4.0783866
C	0.0410154	-1.9849592	1.8242103	C	17.9968636	8.9320942	15.5567553	H	8.1640237	12.4650229	4.8128161
C	0.3998672	-3.1989996	2.4197894	H	18.1687258	9.6093156	14.7088958	H	8.7409272	10.8227859	4.5029508
H	1.1099281	-3.1950657	3.2522098	C	17.0681574	8.3765288	15.3673166	C	8.7430668	12.0855832	2.7426376
C	-0.1109091	-4.4436552	1.9857044	H	18.8331578	8.2314121	15.6441466	H	8.2062527	12.9805761	2.3799101
H	-0.0822293	-6.6019378	2.1593770	H	21.6787942	6.8559265	18.9216081	H	9.7959787	12.3812680	2.8761561
C	0.3063903	-5.7167016	2.6826359	H	20.1736857	6.7198801	19.8616295	C	8.6297405	10.9733984	1.6932463
H	-0.0675962	-5.7532826	3.7192347	C	21.0319798	7.3682036	19.6474670	H	9.2507345	10.1140284	2.0056749
H	1.4028427	-5.8107517	2.7334837	C	21.7991621	9.5109917	18.5863247	H	9.0299168	11.3153663	0.7250676
H	-1.4285620	-5.4142544	0.5748431	H	22.5265173	9.6784734	19.3928372	C	7.1765878	10.5011320	1.5161586
C	-1.0168390	-4.4608034	0.9203978	H	19.2825003	8.1618152	21.6765350	H	6.5743624	11.3350384	1.1178149
C	-1.4003220	-3.2626846	0.3017588	O	19.7333924	8.4667474	17.9105814	H	7.1442338	9.6939861	0.7685655
C	-2.3008072	-2.9367098	-0.7661744	C	20.5931068	8.7116387	19.0833264	C	-0.1851972	7.9876409	7.5842954
C	-2.2619520	-1.5012469	-0.8922944	C	21.7991621	9.5109917	18.5863247	H	-0.9079985	8.5313911	8.2165842
H	-3.1174441	-4.8181158	-1.4681510	H	22.5265173	9.6784734	19.3928372	C	-0.8684278	7.6659376	6.2515101
C	-3.1179420	-3.7297214	-1.5825821	H	19.2825003	8.1618152	21.6765350	H	-0.1217668	7.2159346	5.5792900
H	-4.8474637	-4.9955395	-3.1436628	B	18.7923798	9.4769752	17.9152665	H	-1.2094137	8.5963333	5.7724672
C	-4.8276486	-3.9384507	-3.4451335	C	18.7232280	8.6710365	20.8795753	C	-0.2403014	6.6967743	6.4333119
H	-5.8645632	-3.5666416	-3.4385112	C	19.6445682	9.5459159	20.0265879	H	-2.8337329	7.1886421	7.0277530
H	-4.4786970	-3.8977269	-4.4902965	H	21.0700955	10.0946813	21.5621245	H	-2.4896071	6.4629851	5.4524576
C	-3.9424493	-3.1259769	-2.5308184	H	21.4933490	10.4862046	18.1818437	C	-1.6024744	5.4113271	7.1429398
C	-3.9494235	-1.7156631	-2.6074425	H	18.2122530	7.9130148	20.2692316	H	-2.4620398	4.7385253	7.2931035
H	-4.6430405	-1.2597521	-3.3178193	C	20.3510460	10.5823569	20.8878168	H	-0.8855019	4.8691696	6.4992447
C	-3.1525731	-0.8811836	-1.8118884	O	18.7852815	10.2519578	19.0591412	C	-0.9301950	5.7281520	8.4837113
P	-3.3206669	0.9656498	-1.8492681	H	17.9599633	9.3088414	21.3456854	H	-0.5801767	4.8028285	8.9686934
C	-4.0763696	1.2938227	-3.5510739	H	20.8856051	11.3188978	20.2761577	H	-1.6741599	6.1799794	9.1648461
H	-4.9915943	0.6905081	-3.6830551	H	19.6137581	11.158495	21.5039076	C	0.2460050	6.6986874	8.3061118
C	-3.0860939	0.9175363	-4.6661217	H	16.8598108	11.1713589	17.8547663	H	1.0406911	6.2103947	7.7133104
H	-2.8283809	-0.1506400	-4.6007126	H	12.4164008	1.4769716	-1.5117381	H	0.6896043	6.9331498	9.2874250
H	-3.5816480	3.4022343	-3.4469566	C	1.3254788	9.0874062	7.3358589	C	1.6806594	9.6633324	9.1152492
C	-4.4696026	2.7781139	-3.6586198	Mg	3.2692411	8.4851445	5.2443659	H	2.2386956	8.8083353	9.5434484
H	-5.2194324	3.0336774	-2.8935003	N	2.4746370	10.3516941	4.7032446	C	0.4669797	9.9421256	10.0151942
H	-4.5280046	0.6314143	-6.2563073	C	3.7089418	10.7829695	2.5527656	H	-0.1332560	10.7562334	9.5747743
C	-3.6376029	1.2550410	-6.0571250	C	3.7211807	11.5946316	1.4113320	H	-0.1874409	9.0601919	10.0828532
H	-2.8939096	0.9969770	-6.8289465	H	4.4473890	11.3895492	0.6203801	C	0.9006724	10.3608506	11.4287604
C	-4.0237204	2.7354901	-6.1577828	C	2.8163932	12.6651703	1.2196171	H	1.4241094	9.5158610	11.9124431
H	-4.4487155	2.9579014	-7.1498803	C	1.8497837	12.9206726	2.1994296	H	0.0096117	10.5711950	12.0425425
C	-3.1222500	3.3529922	-6.0587564	H	1.1345538	13.7357531	2.0537425	C	1.8308205	11.5775933	11.3936955
C	-5.0142148	3.1221962	-5.0527716	C	1.7871834	12.1220535	3.3495054	H	1.2770459	12.4471093	10.9953807
H	-5.2515661	4.1972032	-5.1069939	C	2.7230791	11.0476949	3.5364716	H	2.1521327	11.8467121	12.4126267
H	-5.9642310	2.5808024	-5.2127022	C	1.3671873	10.9517427	5.2719536	C	3.0453489	11.3003370	10.5035678
C	-4.8169901	1.2088027	-0.6947875	C	0.9016340	12.0593713	4.4850554	H	3.6982853	12.1863888	10.4458136
H	-4.9884567	2.3018694	-0.7260488	C	-0.2354727	12.7750688	4.8815513	H	3.6474640	10.4957423	10.9642201
C	-6.1171935	0.4952414	-1.0854448	C	0.6733993	10.5664317	6.4454577	C	2.6240316	10.8730630	9.0917432
H	-5.9284724	-0.5913146	-1.1279469	C	2.9118389	13.5171484	-0.0240727	H	3.5055370	10.6322933	8.4837841
H	-6.4411891	0.8003224	-0.9351581	C	0.9312035	12.4040280	6.0375235	H	2.1167455	11.7141596	8.5886034
C	-7.2437320	0.7757158	-0.0780271	C	-0.4693457	11.2992787	6.7894964	H	4.7917587	8.0755563	9.0163313
H	-8.1526417	0.2235044	-0.3697372	H	-1.0478768	11.0023646	7.6683109	H	5.5426493	10.0026819	9.8690671
H	-7.5030213	1.8497504	-0.1115341	C	0.6733993	10.5664317	6.4454577	O	0.50810347	9.6380310	8.6660123
H	-5.7188824	2.2118766	1.7917067	C	2.9118389	13.5171484	-0.0240727	H	4.8149779	7.0532665	7.5537541
C	-5.5306877	1.1235155	1.7460765	H	3.7807413	14.1948987	0.0164447	C	5.4361531	7.6536334	8.2348075
H	-5.2147532	0.8159696	2.7566346	H	2.0145517	14.1393856	-0.1518135	B	5.5165770	10.9562644	7.0177283
H	-6.6635105	-0.6877513	1.4045702	H	3.0269008	12.9004224	-0.9289781	C	6.6160558	9.8027338	9.7563572
C	-6.8254347	0.4040038	1.3493068	C	-2.1501504	13.1696111	6.4945812	H	6.8550937	8.8682429	10.2824696
H	-7.6332784	0.6410098	2.0608936	C	-2.546277	13.8055644	5.6902715	C	6.1287963	8.7430926	7.4262829
C	-4.4035286	0.8457589	0.7423915	H	-1.9183652	13.8266563	7.3493661	H	6.1833307	6.9996073	8.7084634
H	-4.1351467	-0.2237696	0.7810389	H	-2.9550058	12.4918452	6.8183047	H	7.1662770	10.6240954	10.2354766
H	-3.4955757	1.4020052	1.0222976	C	4.7865391	8.3681705	1.2509283	C	7.0174150	9.7340556	8.2813439
C	-0.2130749	0.0948748	3.8923323	H	5.1905350	9.0153908	0.4525524	H	6.7094807	11.0457398	7.7073205
H	0.1689478	1.1018968	4.1250833	C	5.6866951	7.1272692	1.3936810	H	6.1274988	7.5971485	5.6143145
H	-2.1016704	-0.7602591	3.2593448	H	6.7227726	7.4234039	1.6247678	C	6.8630897	8.1283869	6.2362072
C	-1.7209818	0.2152121	3.6074826	H	5.3338159	6.5307490	2.2548575	H	7.3576665	8.8959202	5.6261240
H	-1.8918099	0.9251230	2.7823812	H	5.6625483	6.2616297	0.1262301	C	8.5189515	9.5001306	8.1596357
C	-2.4991646	0.6521069	4.8557573	H	6.1167131	6.8270039	-0.7078819	H	7.6212750	7.4083324	6.5737103
H	-3.5781070	0.6751719	4.6320073	H	6.2854067	5.3647315	0.2743055	H	8.7879008	8.5000558	8.5292635
H	-2.2119472	1.6850458	5.1226589	C	4.2315278	5.8649782	-0.2545180	H	9.0543075	10.2446912	8.7652022
H	-2.7538522	0.0854556	6.9427068	H	3.8145894	5.2136573	0.5359207	H	8.8591791	9.5940164	7.1210900
C	-2.2183204	-0.2707076	6.0478807	H	4.2303066	5.2729166	-1.1835647	H	1.6776216	5.6889562	4.7572613
H	-2.6088151	-1.2798808	5.8245295	C	3.3405905	7.1032132	-0.4063326	C	1.5826169	6.1401952	3.7608583
C	-0.7139652	-0.3680691	6.3284176	H	2.3046926	6.8064206	-0.6408496	H	2.4212834	5.7813514	3.1406790
H	-0.3373233	0.623296									

H	1.2025230	9.0564978	2.5355791	H	-2.7253470	7.0725550	7.1645335	C	3.4538044	10.5175062	2.3511476
H	-0.5689650	5.8386694	3.8338689	H	-2.3476455	6.3003725	5.6192361	C	3.3979754	11.2404281	1.1530621
H	0.6036558	7.0869868	1.2844215	C	-1.4280065	5.3487723	7.3520013	H	4.1838248	11.0958437	0.4071485
H	-0.9877106	7.4102937	2.0102143	H	-2.2610988	4.6476935	7.5208784	C	2.3494505	12.1401986	0.8470986
H	0.2249112	4.9945965	2.4844706	H	-0.6829701	4.8132160	6.7356681	C	1.3055573	12.3090416	1.7652973
H	3.9300017	6.8848822	5.6160317	C	-0.7816251	5.7438175	8.6846676	H	0.4829519	12.9901719	1.5269064
C	4.7480147	12.2274007	6.5262756	H	-0.3975358	4.8526242	9.2059545	C	1.3082343	11.5966911	2.9724327
H	3.9660753	11.9878634	5.7966609	H	-1.5502241	6.1899962	9.3420562	C	2.3909581	10.7002290	3.2742918
H	5.4444224	12.9571804	6.0877241	C	0.3590572	6.7506560	8.4780507	C	1.0096598	10.5403068	4.9820431
H	4.2704694	12.7264375	7.3848292	H	1.1802602	6.2649833	7.9230097	C	0.4004525	11.4870466	4.0885825
				H	0.7768088	7.0444165	9.4548614	C	-0.8485756	12.0395860	4.4026863
Int_c'				C	1.6903805	9.7823995	9.1708037	H	-1.3206071	12.7588316	3.7262866
P	4.9080915	9.3122626	2.9460253	H	2.2626050	8.9580147	9.6379021	C	-1.5089046	11.6621484	5.5780419
P	1.3625042	9.1279830	7.4134537	C	0.4580232	10.0657311	10.0435011	C	-0.8953108	10.7249548	6.4427546
Mg	3.3148691	8.5140240	5.3971799	H	-0.1588903	10.8424229	9.5608968	H	-1.4380755	10.4291094	7.3445061
N	2.5153487	10.3343295	4.7514790	H	-0.1716760	9.1690229	10.1415533	C	0.3598945	10.1601763	6.1851069
C	3.7697249	10.7292977	2.6041000	C	0.8602979	10.5575016	11.4425922	C	2.3741632	12.9068413	-0.4544702
C	3.7787795	11.5123609	1.4422412	H	1.4005948	9.7500412	11.9694875	H	3.1397215	13.7006043	-0.4424764
H	4.5157737	11.3008731	0.6636445	H	-0.0454337	10.7681250	12.0342728	H	1.4055552	13.3873068	-0.6528311
C	2.8577223	12.5608250	1.2120869	C	1.7556564	11.7979634	11.3660298	H	2.6057396	12.2491321	-1.3065695
C	1.8720325	12.8205731	2.1713020	H	1.1839095	12.6323987	10.9208147	C	-2.8522567	12.2502086	5.9410710
H	1.1422005	13.6166068	1.9956903	H	2.0538159	12.1216457	12.3761270	H	-3.2812096	12.8133319	5.1000582
C	1.8097974	12.0490253	3.3393726	C	2.9908413	11.513615	10.5068620	H	-2.7736877	12.9418674	6.7962734
C	2.7662086	11.0004786	3.5683395	H	3.6203019	12.4155753	10.4175693	H	-3.5732603	11.4680377	6.2253979
C	1.3859315	10.9245370	5.2875334	H	3.6074266	10.7501190	11.0129680	C	4.7649522	8.0627457	1.3466474
C	0.9077388	11.9975134	4.4625622	C	2.6034854	11.0134414	9.1097226	H	5.1563739	8.6086718	0.4706164
C	-0.2525507	12.6964176	4.8203584	H	3.5017858	10.7682220	8.5285860	C	5.7189341	6.9035867	1.6902092
H	-0.6200846	13.5136872	4.1920458	H	2.0858424	11.8182140	8.5598522	H	6.7351855	7.2835954	1.8842321
C	-0.9586090	12.3405434	5.9747053	H	4.7173640	8.1629823	9.1341214	H	5.3809560	6.4298945	2.6299115
C	-0.4825916	11.2694026	6.7656898	H	5.4554289	10.1007543	9.9462655	C	5.7653818	5.8536061	0.5711655
H	-1.0676697	10.9837153	7.6438506	O	5.0647360	9.6507212	6.9315310	H	6.2179199	6.3027750	-0.3314757
C	0.6836632	10.5563466	6.4617217	H	4.7638608	7.0914207	7.7116203	H	6.4206640	5.0201711	0.8715630
C	2.9563113	13.3858364	-0.0494400	C	5.3756460	7.7124040	8.3810187	C	4.3637404	5.3380313	0.2263295
H	3.8054973	14.0881763	-0.0070424	B	5.4995194	10.9749260	7.0581211	H	3.9527775	4.7973653	1.0991609
H	2.0455843	13.9803430	-0.2098138	C	6.5308644	9.8983791	9.8620263	H	4.4140180	4.6104156	-0.5997235
H	3.1072464	12.7519197	-0.9369382	H	6.7589655	9.8904027	10.4207892	C	3.4273430	6.4967038	-0.1331875
C	-2.2045587	13.0861316	6.3897133	C	6.0942272	8.7697191	7.5536495	H	2.4126751	6.1205378	-0.3458278
H	-2.5868994	13.7115766	5.5705337	H	6.1070580	7.0695811	8.8929658	H	3.7826543	6.9786460	-1.0619547
H	-2.0112211	13.7500696	7.2486168	H	7.0708769	10.7341262	10.3275972	C	3.3703217	7.5394529	0.9905249
H	-3.0071458	12.3953413	6.6907959	C	6.9635153	9.7861912	8.3988122	H	2.7150667	8.3772412	0.7067669
C	4.8979461	8.3422436	1.3272852	O	6.6705488	11.0801492	7.7800650	H	2.9317271	7.0842990	1.8902922
H	5.2022852	9.0295670	0.5192517	H	6.1347845	7.5645395	5.7845098	C	6.4340856	10.0594902	2.6783680
C	5.9093738	7.1851464	1.4024209	C	6.8577335	8.1123833	6.4054863	H	7.0880098	9.2752461	3.1053321
H	6.9274580	12.5675582	5.7770010	H	7.3722767	8.8542913	5.7802069	C	6.5312811	11.2884672	3.5900043
H	5.6601435	6.5523311	2.2715135	C	8.4673553	9.5490339	8.3171013	H	5.8554232	12.0740624	3.2113848
C	5.8874354	6.3274955	0.1297027	H	7.6019432	7.4002630	6.7882074	H	6.1778169	11.0336880	4.5975095
H	6.2405975	6.9353302	-0.7229989	H	8.7275201	8.5599202	7.8028900	C	7.9630339	11.8327098	3.6684133
H	6.5948139	5.4887436	0.2326982	H	9.9886845	10.3105613	8.9137150	H	7.9859538	12.7249413	4.3138421
C	4.4775156	5.8077973	-0.1726194	H	8.8135030	9.6145139	7.2844472	H	8.6100338	11.0774098	4.1515400
H	4.1636686	5.1204316	0.6346658	H	1.7220918	5.6758381	4.9779016	C	8.5147666	12.1535416	2.2750192
H	4.4757153	5.2207388	-1.1047912	C	1.6695752	6.0849691	3.9602647	H	7.9367441	12.9891961	1.8414916
C	3.4760917	6.9647349	-0.2638535	H	2.5284279	5.6992135	3.3860525	H	9.5606983	12.4933997	2.3425806
H	2.4581184	6.5806241	-0.4432180	C	0.3447507	5.8265803	3.2477508	C	8.4068009	10.9352351	1.3507958
H	3.7288337	7.5985125	-1.1326434	O	1.7948413	7.5350619	4.0572928	H	9.0675610	10.1332514	1.7271639
C	3.4929113	7.8199828	1.0087404	C	0.7871401	8.1801477	3.2146441	H	8.7617034	11.1860798	0.3379877
H	2.7947676	8.6656164	0.9111445	H	0.1933072	7.0684944	3.2552787	C	6.9666429	10.3999224	1.2773074
H	3.1430971	7.2146702	1.8613991	H	0.0375912	8.6451129	3.8717511	H	6.3212638	11.1672410	0.8168825
C	6.6602637	10.0457664	2.9303587	H	1.2853421	8.9695610	2.6397827	H	6.9421001	9.5196086	0.6187776
H	7.2821438	9.1879918	3.2522323	H	-0.4804617	5.7692604	3.9730777	C	0.0540393	7.5837733	7.6835335
C	6.7728372	11.1322023	4.0040587	H	0.7704456	6.9476190	1.4267889	H	-0.7390885	8.0008211	8.3264592
H	6.1229550	11.9755777	3.77273806	H	-0.8504590	7.2750457	2.0838247	C	-0.6093823	6.9887615	6.4382994
H	6.3849791	10.7449618	4.9549531	H	0.3624144	4.8876193	2.6786103	H	0.1810161	6.6731984	5.7429482
C	8.2155825	11.6181265	4.1805161	H	3.9856586	6.9111138	5.7555330	H	-1.1990217	7.7623040	5.9222886
H	8.2513188	12.4130111	4.9429689	C	4.7573719	12.2378996	6.5091788	C	-1.4925544	5.7841116	6.7875942
H	8.8334277	10.7862022	4.5664567	H	4.0153696	11.9912561	5.7418099	H	-2.3371124	6.1190691	7.4167256
C	8.8004425	12.1103439	2.8516601	H	5.4788618	12.9614493	6.1024167	H	-1.9345993	5.3652464	5.8684015
H	8.2547430	13.0161186	2.5311555	H	4.2328706	12.7468538	7.3337832	C	-0.6976718	4.7095970	7.5390464
H	9.8543130	12.4052369	2.9788381	N	4.6280059	4.2271184	5.5842869	H	-1.3479760	3.8588796	7.7986366
C	8.6732955	11.0377253	1.7630252	H	5.0457105	5.9030030	4.4207868	H	0.0942881	4.3149406	6.8758413
H	9.3047834	10.1706578	2.0299738	C	5.3028188	4.8297236	4.4654243	C	-0.0489722	5.2939528	8.7991815
H	9.0524791	11.4190259	0.8011504	H	6.3909528	4.7102261	4.5747278	H	0.5535418	4.5276324	9.3138766
C	7.2191758	10.5649331	1.5970311	H	4.9988977	4.3293718	3.5335417	H	-0.8418421	5.5990276	9.5058847
H	6.6042186	11.4129886	1.2518175	C	3.8806046	4.6060666	6.4646143	C	0.8322695	6.5052408	8.4638788
H	7.1714387	9.7929595	0.8140938	O	3.1517183	4.6896596	7.4020903	H	1.6926153	6.1755058	7.8531404
C	-0.1121285	7.9912426	7.6979902					H	1.2511854	6.9294635	9.3916828
H	-0.8561099	8.5400062	8.3006131					C	1.4885679	9.8142184	8.9372994

C	0.5500092	10.6179863	11.1591004	C	-2.5231849	-4.1245757	-1.6511550	C	-5.6109808	-1.3090686	2.5660826
H	1.2406743	9.9772493	11.7369752	C	-0.8550638	-2.1411106	-0.5751671	H	-6.0171175	-0.3162814	2.8315858
H	-0.3730187	10.7035557	11.7552244	C	4.2589977	0.7783234	0.5894365	H	-6.4724177	-1.9923722	2.4919848
C	1.1917550	11.9936131	10.9549539	H	5.0062097	0.0730642	0.9945662	C	-4.6497147	-1.7731062	3.6674598
H	0.4687771	12.6619091	10.4533727	C	1.2140231	-0.7771917	4.9174102	H	-4.3189228	-2.8042036	3.4472528
H	1.4305699	12.4561631	11.9260747	H	0.2783327	-1.2724573	5.2246359	H	-5.1679667	-1.8074188	4.6391609
C	2.4518850	11.8721883	10.0942260	H	1.1783877	0.2495136	5.3228090	C	-4.7350791	1.6196013	-1.2635929
H	2.8981789	12.8627579	9.9097072	C	2.5933769	-0.0490047	2.9197109	H	-5.2516755	1.5046290	-0.2975505
H	3.2060928	11.2862244	10.6497536	H	2.5952453	0.9920621	3.2912382	H	-4.0254732	2.4541150	-1.1406812
C	2.1564434	11.1838502	8.77554283	C	2.1702453	-4.2401105	-0.5747613	C	5.7788712	1.4033829	-1.3485122
H	3.0842649	11.0643847	8.1806782	H	0.2046989	-5.2610263	-0.9475653	H	6.5781211	0.7162953	-1.0174802
H	1.4952611	11.8281717	8.1508084	C	1.2806231	-0.7019622	3.3865428	H	5.8464131	1.4570045	-2.4471893
H	4.5096759	8.5596483	8.9121980	H	0.4186484	-0.1323147	3.0059533	C	-5.7556628	1.9816461	-2.3529816
H	5.0191274	10.5812193	6.5832071	H	1.2077194	-1.7171831	2.9595150	H	-6.2541019	2.9277813	-2.0887948
O	4.7218288	9.8184233	6.5459310	C	-0.3230720	-3.4362443	-0.8816797	H	-6.5415311	1.2050184	-2.3862194
H	4.7117247	7.3551086	7.6148592	C	2.5295355	-1.5893157	0.4156345	C	1.0505952	3.0925621	-1.3228070
C	5.2317562	8.1143043	8.2166753	C	1.2695104	-2.0288855	-0.0396338	H	0.3020773	3.8380254	-1.0279171
B	4.9393819	11.2026041	6.5635667	C	3.5931598	-2.4942690	0.3469736	H	1.8097120	3.0134933	-0.5287557
C	6.1112761	10.5335641	9.4878075	H	4.5880215	-2.1839847	0.6787780	C	6.0087927	2.7859911	-0.7269571
H	6.4815159	9.7068566	10.1095092	C	-3.4532835	-5.1638095	-2.2316068	H	7.0024473	3.1717753	-1.0046515
C	5.8388877	9.1557111	7.2851479	H	4.2745328	-5.4047055	-1.5375229	H	5.2685906	3.4969272	-1.1391033
H	6.0246261	7.6218340	8.7983508	H	-2.9181832	-6.0984250	-2.4510688	C	-5.0965755	2.0954645	-3.7330462
H	6.5262659	11.4744094	9.8742430	H	3.9155079	-4.8148492	-3.1689368	H	-4.405022	2.9558944	-3.7300046
C	6.5385689	10.3693515	8.0278190	C	4.5014315	2.1616366	1.2162349	H	-5.8561454	2.3046980	-4.5028473
O	6.0399456	11.5469430	7.3174283	H	3.7000454	2.8521055	0.8941265	C	-4.3146184	0.8246763	-4.0891376
H	6.1052704	7.7495023	5.6840708	H	4.4378455	2.1054583	2.3138918	H	-5.0190369	-0.0172455	-4.2120152
C	6.7176353	8.4750363	6.2383752	C	-2.2154384	-1.8361170	-0.7861978	H	-3.7997635	0.9473813	-5.0558078
H	7.1404394	9.1993188	5.5300458	C	3.4332024	-3.8137993	-0.1442744	C	1.0078487	2.2855512	-3.6160714
C	8.0612549	10.3718953	7.9319637	C	-3.9747089	0.3354699	-1.6254045	H	1.6534521	1.9834349	-4.4509040
H	7.5434699	7.9335431	6.7200968	H	-4.6986612	-0.4980245	-1.6760350	H	0.0610304	2.6626256	-4.0274319
H	8.4841183	9.4796263	8.4154578	C	3.8088290	-0.7895001	3.4907660	C	1.6691254	3.3396739	-2.7063028
H	8.4547892	11.2597749	8.4462131	H	3.8360832	-1.8105000	3.0724673	H	2.7578019	3.1881299	-2.6750959
H	8.4009859	10.4004302	6.8895541	H	4.7462564	-0.2949561	3.1900028	H	1.4840727	4.3640994	-3.0538462
H	2.0345316	5.3892641	5.0050904	C	-3.6712141	-0.3051745	1.2801081	H	1.1948247	3.0543202	2.1842670
C	1.8697852	5.7393837	3.9774566	H	-3.9957062	0.7269740	1.5094899	C	2.0467844	2.6379726	2.5797066
H	2.7492731	5.4566604	3.3748666	C	3.7370430	-0.8694628	5.0245761	O	-0.4911603	1.9574571	1.7306850
C	0.5657801	5.2661969	3.3398927	H	4.6038671	-1.4317430	5.4082324	N	-0.0020451	2.8980388	3.8205478
O	1.7877026	7.1966215	4.0160843	H	3.8099196	0.1506096	5.4429367	C	-1.2442001	2.3515175	4.3629237
C	0.6744140	7.6569100	3.1862496	C	2.4276887	-1.5141616	5.4947326	H	-1.0952023	1.3179760	4.7243396
C	0.1985118	6.4326486	2.4081685	H	2.3818368	-1.5268365	6.5955618	H	-2.0673455	2.3151293	3.6279830
H	-0.1045684	8.0574790	3.8512212	H	2.4038372	-2.5682161	5.1634460	H	-1.5595420	2.9551666	5.2269861
H	1.0413315	8.4708866	2.5488749	C	-3.0243939	-2.8386124	-1.3309186	H	-0.3384652	6.5636702	1.8571373
H	-0.2116571	5.1249159	4.1051928	H	-4.0817594	-2.6360912	-1.5235737	C	-1.2594080	5.9702382	1.9448679
H	0.7386278	6.3463529	1.4541713	C	4.6235319	-4.7430042	-0.1861780	H	-1.8011687	6.3170826	2.8374480
H	-0.8763402	6.4819375	2.1872503	H	5.4396328	-4.3286154	-0.7996833	H	-0.9800495	4.9223493	2.0979216
H	0.6928678	4.3149992	2.8052358	H	4.3504076	-5.7200843	-0.6089238	H	-1.3324292	8.1143899	0.2376644
H	4.0688233	6.9089249	5.6442428	H	5.0353876	-4.9181733	0.8208342	C	-2.1125651	6.1610161	0.7006868
C	4.0627729	12.2916138	5.8596956	C	0.7402888	1.1378695	-2.6551588	C	-2.3137701	7.6502020	0.4077876
H	4.0151566	12.1444195	4.7733020	H	-0.0916532	0.4806132	-2.9380910	H	-2.7951262	8.1607158	1.2532388
H	4.4660944	13.2931104	6.0634752	H	1.6391166	0.5249864	-2.4729366	O	-1.3930402	5.6057546	-0.4611422
H	3.0209562	12.2558712	6.2069317	C	4.4176896	0.8267791	-0.9388183	H	-3.3171695	4.2082659	2.5454889
N	3.7070027	4.7333288	6.8315255	H	4.2780622	-0.1786773	-1.3657718	H	-2.4789421	3.4311517	1.1849979
H	2.5820138	3.0079695	7.2357270	C	3.6176906	1.4619605	-1.3583430	C	-3.3630708	4.0229938	1.4634408
H	3.3901450	3.7259774	8.6423721	C	-4.9023144	-1.2173397	1.2054531	H	-2.9276407	7.8036133	-0.4915839
C	3.5099659	3.4927230	7.5744937	H	-4.5798647	-2.2265328	0.8970496	C	-3.4566501	5.3388243	0.6885133
C	4.6541668	4.9959364	6.0968003	H	-5.6084722	-0.8587887	4.4391568	H	-4.5788713	6.4701900	2.1579302
H	4.3430874	2.7815646	7.4578664	C	-2.7071582	-0.7500988	2.3950094	B	-2.3444264	5.0588859	-1.3029178
H	5.6462739	5.0204728	5.4365497	H	-2.2718999	-1.7292555	2.1289546	H	-1.8619031	3.4539358	-2.7264450
C	1.0764257	-3.3619901	-0.5292472	H	-1.8755950	-0.0320783	2.4722960	C	-4.6882932	6.1236575	1.1197756
Int d'				C	-3.4323589	-0.8568652	3.7474872	C	-2.0220437	4.5441983	-2.7485993
P	2.5521587	0.1429305	1.0425519	H	-3.7406068	0.1517904	4.0669200	H	-1.1163265	5.0071742	-3.1633181
P	-2.7018248	-0.1184573	-0.3255291	H	-2.7162923	-1.2190447	4.5115805	H	-4.2613134	3.4257066	1.2556369
Mg	-0.1387506	0.7300531	0.2771696	C	-3.2952918	0.4658093	-2.9985706	O	-3.6035937	4.9932932	-0.7369751
O	0.3528110	1.8032341	-1.4177914	H	-2.5260301	1.2575943	-2.9402475	H	-4.8627683	6.9933464	0.4746471
N	0.1051430	-1.2923283	-0.0701756	H	-2.7729279	-0.4700628	-3.2532538	H	-5.5735869	5.4741713	1.0689403
C	-1.1724730	-4.4150909	-1.4191715	C	5.8617008	2.7368459	0.7981631	H	-2.8592913	4.7261943	-3.4373266
H	-0.7870331	-5.4092040	-1.6640723	H	5.9899251	3.7416883	1.2314059	H	6.6647572	2.1062004	1.2198097