Supporting Information for:

Tuning Ligand Field Strength with Pendent Lewis Acids: Access to High Spin Iron Hydrides

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General Considerations. All air- and moisture-sensitive manipulations were performed using standard Schlenk techniques or in an inert atmosphere drybox with an atmosphere of purified nitrogen. The drybox was equipped with a cold well designed for freezing samples in liquid nitrogen as well as a -35 °C freezer for cooling samples and crystallizations. Solvents were purified using a Glass Contour solvent purification system through percolation through a Cu catalyst, molecular sieves, and alumina. Solvents were then stored over sodium and/or sieves. Benzene- d_6 was purchased from Cambridge Isotope Laboratories, dried with molecular sieves and sodium, and degassed by three freeze–pump–thaw cycles.

Ammonia (0.4 M in THF), methylamine (2.0 M in THF), potassium triethylborohydride, zinc(II) iodide, NaN(SiMe₃)₂, and phenylphosphine were purchased from commercial vendors and used as received. Thiophenol, phenol, and aniline were distilled from calcium hydride prior to use. Crown ethers were recrystallized from dry THF prior to use. (^{BBN}PDP^{tBu}), (^{Bu}PDP^{tBu})FeBr₂, (^{BBN}PDP^{tBu})FeBr₂,¹ LiBDEt₃,² and potassium graphite³ were synthesized according to literature procedures.

NMR spectra were recorded on Varian Vnmrs 700 or Varian MR400 spectrometers. ¹H, ¹³C, and ¹¹B chemical shifts are reported in parts per million (ppm) relative to tetramethylsilane and referenced internally to the residual solvent peak. ¹¹B spectra were referenced on a unified scale, where the single primary reference is the frequency of the residual solvent peak in the ¹H NMR spectrum. ¹¹B is referenced vs. BF₃(OEt₂). Multiplicities are reported as follows: singlet (s), doublet (d), triplet (t), quartet (q). Infrared spectra were recorded using a Nicolet iS10 FT-IR spectrometer. Samples were diluted into dry KBr and recorded as pellets. Electronic absorption spectra were recorded in THF at ambient temperature in sealed 1 cm quartz cuvettes with a Varian Cary-50 spectrophotometer. Elemental analyses were performed by Midwest Microlab, Indianapolis, IN (USA). Many of the samples proved to be too air/moisture sensitive for satisfactory combustion analysis.

Single crystals of (^{BBN}PDP^{tBu})FeH₂, [K(18-crown-6)]₂[(^{BBN}PDP^{tBu})₂Fe(OPh)₄], (^{BBN}PDP^{tBu})Fe(SPh)₂(NH₃)₂, (^{butyl}PDP^{tBu})Fe(SPh)₂, and (^{BBN}PDP^{tBu})Fe(OH)₂ suitable for X-ray diffraction were coated with poly(isobutylene) oil and quickly transferred to the goniometer head of a Bruker AXS D8 Quest diffractometer with kappa geometry, an I-µ-S microsource X-ray tube, laterally graded multilayer (Goebel) mirror for monochromatization, a Photon2 CMOS area detector and an Oxford Cryosystems low temperature device. Examination and data collection were performed with Cu K α radiation (λ = 1.54184 Å). Single crystals of [K(2,2,2-cryptand)][(^{BBN}PDP^{tBu})FeH₂], (^{BBN}PDP^{tBu})Fe(SPh)₂, [(^{BBN}PDP^{tBu})Fe(NC)₂]₂, (^{BBN}PDP^{tBu})Fe(PHPh)₂, (^{BBN}PDP^{tBu})Fe(NHMe)₂, (^{BBN}PDP^{tBu})Fe(NHPh)₂, and (BBNPDPtBu)ZnH₂, suitable for X-ray diffraction, were coated with poly(isobutylene) oil and quickly transferred to the goniometer head of a Bruker AXS D8 Quest diffractometer with a fixed chi angle, a sealed tube fine focus X-ray tube, single crystal curved graphite incident beam monochromator and a Photon100 CMOS area detector. Examination and data collection were performed with Mo Kα radiation $(\lambda = 0.71073 \text{ Å})$. For both Quest instruments, data were collected, reflections were indexed and processed, and the data scaled and corrected for absorption using APEX3.⁴ For all samples, the space groups were assigned and the structures were solved by direct methods or by isomorphous replacement using XPREP⁵ and XS⁶ within the SHELXTL suite of programs⁵ and refined by full matrix least squares against F² with all reflections using Shelxl2016 or Shelxl2017⁷ using the graphical interface Shelxle.⁶ If not specified otherwise, H atoms attached to carbon atoms were positioned geometrically and constrained to ride on their parent atoms, with carbon hydrogen bond distances of 0.95 Å for and aromatic C-H,

1.00, 0.99 and 0.98 Å for aliphatic C-H, CH_2 , and CH_3 moieties, respectively. Methyl H atoms were allowed to rotate but not to tip to best fit the experimental electron density. $U_{iso}(H)$ values were set to a multiple of $U_{eq}(C)$ with 1.5 for CH_3 , and 1.2 for CH_2 , and C-H units, respectively. Additional data collection and refinement details, including description of disorder (where present) can be found with the individual structure descriptions, below.

Synthesis of (^{BBN}PDP^{tBu})FeH₂. A 20 mL scintillation vial was charged with (^{BBN}PDP^{tBu})FeBr₂ (0.200 g, 0.232 mmol), 6 mL THF, and stir bar and frozen. On thawing, KBHEt₃ (1.0 M in THF, 0.440 mL, 0.440 mmol) was added. On warming, the orange solution gradually darkened to brown-orange. After 15 min, the solution was filtered over Celite and volatiles were removed in vacuo. The solid was washed with 2 x 10 mL pentane, 2 x 10 mL benzene:pentane (4:1), and again with 2 x 10 mL pentane to afford olive-tan powder (0.114 g, 0.162 mmol, 70%) assigned as (^{BBN}PDP^{tBu})FeH₂. Single, X-ray quality crystals were obtained by layering a concentrated toluene solution of (^{BBN}PDP^{tBu})FeH₂ with *n*-pentane at -35 °C. ¹H NMR (THF, 24 °C) δ = -16.9 (155, 2H), -11.6 (228, 2H), -8.5 (688, 2H), -7.2 (190, 2H), 8.7 (11, 18H, C(CH₃)₃), 20.5 (59, 2H), 26.0 (410, 2H), 32.9 (1030, 2H), 41.5 (660, 2H), 48.7 (470, 2H), 58.3 (456, 2H), 58.7 (86, 2H), 63.6 (272, 2H). μ_{eff} = 4.6 +/- 0.2 μ_B (THF, 25 °C). MALDI-TOF of C₄₁H₆₅N₅B₂Fe₁: Calc. 705.48; Found 705.81. UV-Vis (THF, ambient temperature): λ_{max} = 327 nm (7,900 M⁻¹cm⁻¹). IR (KBr, ambient temperature): 1839 cm⁻¹ (Fe-H-B, broad).

Synthesis of (^{BBN}PDP^{tBu})Znl₂. A 20 mL scintillation vial was charged with zinc(II) iodide (0.282 g, 0.883 mmol), ^{BBN}PDP^{tBu} (0.571 g, 0.882 mmol), 15 mL dichloromethane and stirred for 16 hr. The solution was filtered, dried, and washed with 3 x 10 mL *n*-pentane to afford white powder (0.782 g, 0.809 mmol, 92%) assigned as (^{BBN}PDP^{tBu})Znl₂. This sample was subjected to elemental analysis: Calc. for C₄₁H₆₃N₅l₂B₂Zn₁ C, 50.94; H, 6.57; N, 7.24. Found C, 49.97; H, 6.32; N, 7.01. ¹H NMR (CDCl₃, 25 °C) δ = 1.20-1.28 (m, 4H, 9-BBN-CH), 1.46 (s, 18H, C(CH₃)₃), 1.54 (t, *J* = 8.0, 4H, B-CH₂), 1.72-1.87 (m, 24H, 9-BBN-CH), 4.63 (t, *J* = 8.4, 4H, N-CH₂), 6.50 (s, 2H, pyrazole-CH), 7.61 (d, *J* = 8.0, 2H, *m*-pyridine-CH), 7.95 (t, *J* = 8.0, 1H, *p*-pyridine-CH). ¹³C NMR (CDCl₃, 25 °C) δ = 23.41 (9-BBN-CH₂), 24.71 (9-BBN-CH), 27.04 (CH₂CH₂CH₂), 30.39 (C(CH₃)₃), 31.32 (B-CH₂), 32.10 (*C*(CH₃)₃), 33.34 (9-BBN-CH₂), 54.52 (N-CH₂), 101.58 (pyrazole-CH), 119.06 (*m*-pyridine-CH), 141.00 (*p*-pyridine-CH), 143.29 (Ar-C), 148.53 (Ar-C), 155.06 (Ar-C). ¹¹B NMR (CDCl₃, 25 °C) δ = 86.63 (9-BBN). MALDI-TOF of C₄₁H₆₃N₅B₂l₂Zn₁ - I: Calc. 838.360; Found 838.090.

Synthesis of (^{BBN}**PDP**^{tBu}**)ZnH**₂. A 20 mL scintillation vial was charged with (^{BBN}**PDP**^{tBu}**)ZnI**₂ (0.250 g, 0.259 mmol), 10 mL THF, a stir bar and frozen. On thawing, KBHEt₃ (1.0 M in THF, 0.505 mL, 0.505 mmol) was added. On warming, a white precipitate gradually formed. After 20 min, the solution was filtered and volatiles were removed in vacuo. The powder was washed with 2 x 10 mL pentane and dried to afford white powder (0.164 g, 0.229 mmol, 89%) assigned as (^{BBN}PDP^{tBu}**)**ZnH₂. Single, X-ray quality crystals were obtained by slow diffusion of *n*-pentane into a toluene solution of (^{BBN}PDP^{tBu}**)**ZnH₂ at room temperature. ¹H NMR (THF-*d*₈, 25 °C) δ = 0.05-0.22 (m, 4H), 0.56 (t, *J* = 7.2, 2H), 0.65 (s, 2H, Zn-*H*), 0.69-0.79 (m, 4H), 0.87-1.02 (m, 4H), 1.27-1.42 (m, 8H), 1.48 (s, 18H, CH₃), 1.75-2.05 (m, 14H), 4.55-4.71 (m, 4H, N-CH₂ x 2), 6.78 (s, 2H, pyrazole-CH), 7.76 (d, *J* = 7.6, 2H, *m*-pyr-CH), 8.07 (t, *J* = 7.6, 1H, *p*-pyr-CH). ¹³C NMR (THF-*d*₈, 25 °C) δ = 18.62 (broad), 25.80, 26.24 (broad), 26.37, 26.94 (broad), 28.93, 30.37 (C(CH₃)₃), 30.86, 32.91, 34.00-36.00 (broad, 3 resonances), 54.03 (N-CH₂), 102.74 (pyrazole-CH), 119.80 (*m*-pyr-CH), 143.07 (Ar-*C*), 143.81 (Ar-*C*), 148.40 (Ar-*C*), 157.21 (Ar-*C*). ¹¹B NMR (THF-*d*₈, 25 °C) δ = 5.43 (*B*-H). MALDI-TOF of C₄₁H₆₅N₅B₂Zn₁: Calc. 713.472; Found 713.855. IR (KBr, ambient temperature): 1775 cm⁻¹ (Zn-H-B, broad).

Synthesis of [K(2,2,2-cryptand)][(^{BBN}PDP^{tBu})FeH₂]. A 20 mL scintillation vial was charged with (^{BBN}PDP^{tBu})FeH₂ (0.053 g, 0.075 mmol), 2,2,2-cryptand (0.028 g, 0.074 mmol), and 5 mL THF and frozen. On thawing, potassium graphite (0.010 g, 0.074 mmol) was added resulting in an immediate color change to dark green. Upon reaching room temperature, the solution was filtered and volatiles were removed in vacuo. The material was washed with 10 mL *n*-pentane and 10 mL diethyl ether to afford dark green powder (0.068 g, 0.061 mmol, 81%) assigned as [K(2,2,2-cryptand)][(^{BBN}PDP^{tBu})FeH₂]. Single, X-ray quality crystals were obtained by layering a THF solution of [K(2,2,2-cryptand)][(^{BBN}PDP^{tBu})FeH₂] with *n*-pentane at -35 °C. ¹H NMR (THF, 24 °C) δ = -70.6 (409, 2H), -61.6 (349, 2H), -26.9 (40, 2H), 20.1 (57, 2H), -8.0 (39, 2H), -6.7 (39, 2H), -1.3 (51, 2H), -1.0 (53, 2H), 7.1 (14, 2H), 10.7 (12, 18H, C(CH₃)₃), 13.7 (265), 18.2 (23, 2H), 18.6 (127), 28.1 (44, 2H), 30.1 (680), 36.4 (400), 39.2 (35, 2H), 60.4 (71, 2H), 95.0 (25, 2H). UV-Vis (THF, ambient temperature): λ_{max} = 344 nm (7,200 M⁻¹cm⁻¹), 475 nm (3,500 M⁻¹cm⁻¹), 646 nm (1700 M⁻¹cm⁻¹). IR (KBr, ambient temperature): 1866 cm⁻¹ (Fe-H-B, broad). This reduction protocol can be performed without crown ethers or with crown ethers other than 2,2,2-cryptand.

Synthesis of (^{BBN}PDP^{tBu})Fe(NH₂)₂. A 20 mL scintillation vial was charged with (^{BBN}PDP^{tBu})FeH₂ (0.076 g, 0.108 mmol) and 6 mL THF and frozen. On thawing, ammonia (0.4 M in THF, 0.324 mmol) was added and the reaction stirred for 30 min. Volatiles were removed in vacuo and the resulting solid washed with 10 mL *n*-pentane to afford salmon powder (0.060 g, 0.082 mmol, 76%) identified as (^{BBN}PDP^{tBu})Fe(NH₂)₂ by ¹H NMR spectroscopy.¹

Synthesis of (^{BBN}PDP^{tBU})Fe(NHMe)₂. A 20 mL scintillation vial was charged with (^{BBN}PDP^{tBU})FeH₂ (0.085 g, 0.120 mmol) and 6 mL THF and frozen. On thawing, methylamine (2.0 M in THF, 0.300 mmol) was added and the reaction stirred for 25 min. Volatiles were removed in vacuo and the resulting solid washed with 10 mL *n*-pentane to afford tan powder (0.040 g, 0.052 mmol, 43%) assigned as (^{BBN}PDP^{tBU})Fe(NHMe)₂. Single, X-ray quality crystals were obtained by layering a DCM solution of (^{BBN}PDP^{tBU})Fe(NHMe)₂ with hexamethyldisiloxane at room temperature. ¹H NMR (THF, 24 °C) δ = -23.1 (35, 1H, *p*-pyridine-*CH*), -21.2 (390, 2H), -2.3 (55, 2H), -0.8 (29, 2H), -0.5 (23, 2H), -0.3 (50, 2H), 0.4 (54, 2H x 2), 4.2 (38, 2H), 4.5 (11, 18H, C(*CH*₃)₃), 5.9 (25, 2H), 11.0 (164, 2H), 12.3 (65, 2H), 12.4 (29, 2H), 13.8 (163, 2H), 30.5 (86, 2H), 31.8 (67, 2H), 33.7 (40, 2H), 46.9 (55, 2H). μ_{eff} = 5.2 +/- 0.1 μ_B (THF, 25 °C). MALDI-TOF of C₄₃H₇₁N₇B₂Fe₁: Calc. 763.53; Found 763.36. UV-Vis (THF, ambient temperature): λ_{max} = 339 nm (10,000 M⁻¹cm⁻¹). IR (KBr, ambient temperature): 3321, 3288, 3220, 3144 cm⁻¹ (NH).

Synthesis of (^{BBN}PDP^{tBu})Fe(NHPh)₂. A 20 mL scintillation vial was charged with (^{BBN}PDP^{tBu})FeH₂ (0.050 g, 0.071 mmol) and 4 mL THF and frozen. A separate vial was charged with aniline (0.0133 mL, 0.146 mmol) and 1 mL THF. Upon thawing the vial containing (^{BBN}PDP^{tBu})FeH₂, the solution of aniline was added and stirred for 30 min. Volatiles were removed in vacuo and the solid was washed with 10 mL *n*-pentane and 10 mL diethyl ether to afford light yellow powder (0.045 g, 0.051 mmol, 73%) assigned as (^{BBN}PDP^{tBu})Fe(NHPh)₂. Single, X-ray quality crystals were obtained by layering a THF solution of (^{BBN}PDP^{tBu})Fe(NHPh)₂ with 2,2,4-trimethylpentane at room temperature. ¹H NMR (THF, 25 °C) δ = -48.1 (23, 2H), -43.8 (288, 2H), -22.6 (207, 2H), -19.7 (240, 2H), -17.3 (23, 1H, *p*-pyridine-*CH*), -7.7 (43, 2H), -3.5 (45, 2H), -1.7 (27, 2H), -1.5 (40, 2H), -1.0 (47, 2H), 0.5 (31, 2H), 0.6 (49, 2H), 1.1 (35, 2H), 8.2 (14, 18H, C(CH₃)₃), 17.2 (31, 2H), 19.0 (127, 2H), 23.8 (31, 2H), 26.5 (158, 2H), 28.6 (58, 2H), 41.6 (39, 2H), 48.0 (77, 2H), 50.8 (35, 2H). μ_{eff} = 4.5 +/- 0.1 μ_B (THF, 25 °C). UV-Vis (THF, ambient temperature): λ_{max} = 330 nm (8,600 M⁻¹cm⁻¹). IR (KBr, ambient temperature): 3372, 3293, 3135, 3067 cm⁻¹ (NH).

Synthesis of (^{BBN}PDP^{tBu})Fe(OH)₂. A 20 mL scintillation vial was charged with (^{BBN}PDP^{tBu})FeH₂ (0.083 g, 0.118 mmol) and 6 mL THF and frozen. On thawing, a stock solution of water in THF (0.111 M, 2.100 mL, 0.233 mmol) was added and the reaction stirred for 20 min. Volatiles were removed in vacuo and the solid was washed with 10 mL *n*-pentane and dried to afford yellow powder (0.076 g, 0.103 mmol, 88%) assigned as (^{BBN}PDP^{tBu})Fe(OH)₂. This sample was subjected to elemental analysis: Calc. for C₄₁H₆₅N₅O₂B₂Fe₁ C, 66.78; H, 8.88; N, 9.50. Found C, 65.98; H, 8.73; N, 9.08. Single, X-ray quality crystals were obtained by diffusion *n*-pentane into a dichloromethane solution of (^{BBN}PDP^{tBu})Fe(OH)₂ at room temperature. ¹H NMR (CDCl₃, 24 °C) δ = -28.9 (29, 1H, *p*-pyridine-CH), -23.0 (316, 2H), -6.3 (201, 2H), -3.9 (179, 2H), -3.4 (51, 2H), -0.2 (32, 2H), 0.6 (54, 2H), 0.8 (33, 2H), 3.3 (36, 2H), 5.3 (19, 18H, C(CH₃)₃), 6.2 (61, 2H), 7.4 (53, 2H), 9.6 (117, 2H), 13.0 (38, 2H), 15.7 (310, 2H), 16.3 (24, 2H), 18.7 (334, 2H), 35.8 (71, 2H), 48.7 (70, 2H). μ_{eff} = 5.3 +/- 0.1 μ_B (THF, 25 °C). MALDI-TOF of C₄₁H₆₅N₅O₂B₂Fe₁: Calc. 737.47; Found 737.53. UV-Vis (THF, ambient temperature): λ_{max} = 333 nm (10,200 M⁻¹cm⁻¹). IR (KBr, ambient temperature): 3630 cm⁻¹ (OH).

Synthesis of (^{BBN}PDP^{tBu})Fe(PHPh)₂. Caution! This compound is extremely malodorous even in trace quantities! A 20 mL scintillation vial was charged with (^{BBN}PDP^{tBu})FeH₂ (0.044 g, 0.062 mmol) and 4 mL THF and frozen. On thawing, a stock solution of phenylphosphine (0.433 M in THF, 0.128 mmol) was added and the mixture was stirred for 30 min. Volatiles were removed in vacuo and the resulting solid was washed with 10 mL *n*-pentane and 10 mL diethyl ether to afford orange powder (0.041 g, 0.044 mmol, 72%) assigned as (^{BBN}PDP^{tBu})Fe(PHPh)₂. Single, X-ray quality crystals were obtained by slow diffusion of *n*-pentane into a THF solution of (^{BBN}PDP^{tBu})Fe(PHPh)₂ at -35 °C. ¹H NMR (CDCl₃, 24 °C) δ = - 29.5 (45, 1H, *p*-pyridine-CH), -29.2 (36, 2H), -23.1 (226, 2H), -18.1 (493, 2H), -15.6 (296, 2H), -14.5 (286, 2H), -6.1 (308, 2H), -3.6 (392, 2H), -0.7 (318, 2H), 3.0 (18, 2H), 4.4 (21, 2H), 8.6 (15, 18H, C(CH₃)₃), 15.1 (227, 2H), 17.3 (24, 2H), 36.2 (212, 2H), 45.7 (41, 2H), 62.0 (117, 2H), 71.7 (36, 2H), 73.5 (86, 2H), 139.8 (130, 2H, P-H). μ_{eff} = 5.2 +/- 0.1 μ_B (THF, 25 °C). UV-Vis (THF, ambient temperature): λ_{max} = 336 nm (11,500 M⁻¹cm⁻¹), 405 nm (3,800 M⁻¹cm⁻¹). IR (KBr, ambient temperature): 2340 cm⁻¹ (PH).

Synthesis of (^{BBN}PDP^{rBu})Fe(SPh)₂. A 20 mL scintillation vial was charged with (^{BBN}PDP^{rBu})FeH₂ (0.094 g, 0.133 mmol) and 6 mL THF and frozen. On thawing, thiophenol (0.027 mL, 0.264 mmol) was added and stirred for 45 min resulting in a slight color change to brown. Volatiles were removed in vacuo and 20 mL *n*-pentane were added to the solid resulting in a rapid color change to orange. The solution was decanted and the solid dried to afford light orange powder (0.088 g, 0.095 mmol, 72%) assigned as (^{BBN}PDP^{tBu})Fe(SPh)₂. This sample was subjected to elemental analysis: Calc. for C₅₃H₇₃N₅S₂B₂Fe₁ C, 69.09; H, 7.98; N, 7.60. Found C, 68.88; H, 8.08; N, 7.49. Single, X-ray quality crystals were obtained by slow diffusion of *n*-pentane into a benzene solution of (^{BBN}PDP^{tBu})Fe(SPh)₂ at room temperature. ¹H NMR (C₆D₆, 24 °C) δ = -32.1 (214, 4H), -28.7 (21, 2H, *p*-phenyl-CH), -18.8 (39, 1H, *p*-pyridine-CH), -0.3 (44, 4H), 1.8 (58, 16H (3 overlapping resonances: 4H, 4H, 8H), BBN-CH₂ (for 8H)), 4.0 (18, 8H, BBN-CH₂), 7.0 (12, 18H, C(CH₃)₃), 18.2 (26, 4H), 25.2 (172, 4H), 29.4 (760, 4H), 31.9 (285, 4H), 45.5 (43, 2H, IM-CH or *m*-pyridine-CH), 57.5 (46, 2H, IM-CH or *m*-pyridine-CH). μ_{eff} = 5.5 +/- 0.1 μ_B (THF, 25 °C). MALDI-TOF of C₅₃H₇₃N₅B₂S₂Fe₁ - SPh: Calc. 812.47; Found 812.55. UV-Vis (THF, ambient temperature): λ_{max} = 330 nm (5,200 M⁻¹cm⁻¹).

Alternative synthesis of (^{BBN}PDP^{tBu})Fe(SPh)₂. A 20 mL scintillation vial was charged with (^{BBN}PDP^{tBu})FeH₂ (0.055 g, 0.078 mmol) and 6 mL THF and frozen. On thawing, diphenyldisulfide (0.017 g, 0.078 mmol) was added resulting in an immediate color charge to bright green which gradually dissipates to brownorange. After 30 min, volatiles were removed in vacuo and the solid washed with 10 mL *n*-pentane to afford light orange powder (0.064 g, 0.069 mmol, 90%) identified as (^{BBN}PDP^{tBu})Fe(SPh)₂. Repeating the reaction in a sealed J-Young NMR tube revealed the formation of H₂ by ¹H NMR spectroscopy.

Synthesis of (^{BBN}PDP^{rBu})Zn(SPh)₂. A 20 mL scintillation vial was charged with (^{BBN}PDP^{rBu})ZnH₂ (0.080 g, 0.112 mmol) and 4 mL THF and frozen. A separate vial was charged with diphenyldisulfide (0.025 g, 0.114 mmol) and 2 mL THF and frozen. On thawing, the solution of diphenyldisulfide was added to the solution of (^{BBN}PDP^{rBu})ZnH₂ and stirred for 30 min. Volatiles were removed in vacuo and the solid washed with 20 mL *n*-pentane to afford white powder (0.079 g, 0.085 mmol, 76%) assigned as (^{BBN}PDP^{rBu})Zn(SPh)₂. Single, X-ray quality crystals were obtained by diffusing *n*-pentane into a C₆H₆ solution of (^{BBN}PDP^{rBu})Zn(SPh)₂ at room temperature. Repeating the reaction in a sealed J-Young NMR tube revealed the formation of H₂. ¹H NMR (C₆D₆, 23 °C) δ = 1.13 (s, 18H, C(CH₃)₃), 1.40 (t, *J* = 8.4, 4H, B-CH₂), 1.58-1.66 (m, 4H, BBN-CH), 1.76 (s, 4H, BBN-CH), 1.97-2.06 (m, 8H, BBN-CH), 2.07-2.23 (m, 12H (4H and 8H), BBN-CH), 2.74 (p, *J* = 7.6, 4H, CH₂CH₂CH₂), 4.27 (t, *J* = 7.2, 4H, N-CH₂), 6.08 (s, 2H, IM-CH), 6.60-6.66 (m, 8H, *m*-pyridine-CH and phenyl-CH), 6.85 (t, *J* = 8.0, 1H, *p*-pyridine-CH), 7.22-7.27 (m, 4H, phenyl-CH). ¹³C NMR (C₆D₆, 23 °C) δ = 22.38 (B-CH₂), 24.79 (9-BBN-CH), 26.40 (CH₂CH₂CH₂), 29.01 (9-BBN-CH), 29.89 (C(CH₃)₃), 31.63 (C(CH₃)₃), 33.54 (9-BBN-CH₂), 54.51 (N-CH₂), 100.84 (pyrazole-CH), 118.35 (*m*-pyridine-CH), 123.23, 127.27 (SPh-CH), 134.17 (SPh-CH), 139.49, 141.72 (*p*-pyridine-CH), 143.99, 148.63, 155.03. The ¹¹B resonance was not observed. MALDI-TOF of C₅₃H₇₃N₅B₂S₂Zn₁ - SPh: Calc. 820.467; Found 820.454.

Synthesis of (^{BBN}PDP^{rBu})Fe(SPh)₂(NH₃)₂. A 20 mL scintillation vial was charged with (^{BBN}PDP^{rBu})Fe(SPh)₂ (0.079 g, 0.086 mmol) and 2 mL THF. While stirring, a stock solution of ammonia (0.4 M in THF, 0.43 mmol) was added. After 15 min, volatiles were removed in vacuo and the solid washed with 10 mL *n*-pentane to afford dark orange powder (0.071 g, 0.074 mmol, 87%) assigned as (^{BBN}PDP^{rBu})Fe(SPh)₂(NH₃)₂. This sample was subjected to elemental analysis: Calc. for C₅₃H₇₉N₇S₂B₂Fe₁ C, 66.60; H, 8.33; N, 10.26. Found C, 65.11; H, 8.41; N, 9.17. Single, X-ray quality crystals were obtained by diffusing pentane into a toluene solution of (^{BBN}PDP^{rBu})Fe(SPh)₂(NH₃)₂ at room temperature. ¹H NMR (CH₂Cl₂, 23 °C) δ = -30.8 (317, 4H), -28.6 (72, 1H, *p*-pyr-CH), -26.8 (57, 2H), -8.2 (96, 6H, NH₃), -0.9 (56, 4H, BBN-CH), -0.7 (58, 4H, BBN-CH), 0.3 (56, 2H, BBN-CH), 0.6 (55, 2H, BBN-CH), 1.2 (65, 2H, BBN-CH), 1.6 (53, 4H, BBN-CH), 1.9 (55, 2H, BBN-CH), 2.4 (55, 4H, BBN-CH), 3.2 (78, 4H, BBN-CH), 7.7 (34, 18H, C(CH₃)₃), 7.8 (31, 4H), 9.8 (326, 4H, CH₂CH₂CH₂), 22.1 (58, 4H), 27.2 (424, 4H, N-CH₂), 44.8 (72, 2H, IM-CH or *m*-pyridine-CH), 57.1 (72, 2H, IM-CH or *m*-pyridine-CH). μ_{eff} = 5.16 +/- 0.05 μ_B (THF, 25 °C). MALDI-TOF of C₅₃H₇₃N₅B₂S₂Fe₁ – (SPh + 2(NH₃)): Calc. 812.473; Found 812.667. UV-Vis (THF, ambient temperature): λ_{max} = 336 nm (10,500 M⁻¹ cm⁻¹). IR (KBr, ambient temperature): 3353, 3306, 3135, 3062 cm⁻¹ (N-H).

Synthesis of [(^{BBN}PDP^{rBu})Fe(NC)₂]₂. A 20 mL scintillation vial was charged with (^{BBN}PDP^{rBu})FeH₂ (0.058 g, 0.082 mmol) and 6 mL THF and frozen. A separate 20 mL scintillation vial was charged with trimethylsilyl cyanide (0.020 mL, 0.160 mmol) and 2 mL THF and frozen. On thawing, the solution of Me₃SiCN was added to the solution containing (^{BBN}PDP^{rBu})FeH₂ and stirred for 30 min. Volatiles were removed in vacuo and the resulting solid washed with 10 mL *n*-pentane to afford light yellow powder (0.052 g, 0.034 mmol, 84%) assigned as [(^{BBN}PDP^{rBu})Fe(NC)₂]₂. Single, X-ray quality crystals were obtained by diffusing *n*-pentane into a dichloromethane solution of [(^{BBN}PDP^{rBu})Fe(NC)₂]₂ at room temperature (note: crystals rapidly desolvate when removed from mother liquor). ¹H NMR (CDCl₃, 23 °C) δ = -35.0 (25, 1H, *p*-pyridine-C*H*), -8.8 (69, 4H), -6.7 (265, 4H), -3.8 (40, 2H), -0.6 (52, 4H, BBN-C*H*), -0.4 (28, 2H, BBN-C*H*), 0.3 (36, 4H, BBN-C*H*), 1.4 (22, 4H, BBN-C*H*), 2.8 (33, 4H), 7.8 (264, 2H), 10.0 (13, 18H, C(CH₃)₃), 13.1 (67, 4H, CH₂CH₂CH₂), 13.3 (280, 2H), 25.4 (339, 4H, N-CH₂), 44.7 (53, 2H, IM-C*H* or *m*-pyridine-C*H*), 53.1 (39, 2H, IM-C*H* or *m*-pyridine-C*H*). MALDI-TOF of C₈₆H₁₂₆N₁₄B₄Fe₂: Calc. 1510.94; Found 1511.59. UV-Vis (THF, ambient temperature): λ_{max} = 330 nm (7,600 M⁻¹cm⁻¹). IR (KBr, ambient temperature): 2170 cm⁻¹ (CN).

Synthesis of [K(2,2,2-cryptand)]₂**[(**^{BBN}**PDP**^{tBu})₂**Fe(OPh)**₄**].** A 20 mL scintillation vial was charged with $[K(2,2,2-crypt)][(BBNPDP^{tBu})FeH_2]$ (0.051 g, 0.045 mmol) and 6 mL THF and frozen. Upon thawing, phenol (0.217 M stock solution in THF, 0.044 mmol) was added and the solution stirred for 16 hr resulting in a color change from deep green to dark brown. The reaction was filtered and volatiles were removed in vacuo. The resulting solid was washed with 10 mL diethyl ether to afford light brown powder (0.040 g) assigned as $[K(2,2,2-cryptand)]_2[(BBNPDP^{tBu})_2Fe(OPh)_4]$. This species is unstable and attempts at purification resulted in further degradation of the compound. A representative ¹H NMR spectrum of the species obtained from the above synthetic procedure is given below. Single, X-ray quality crystals were obtained by diffusing *n*-pentane into a THF solution of the 18-crown-6 analogue at room temperature.

Reaction between (^{BBN}PDP^{rBu})FeH₂ and 2,4,6-tri-*tert***-butylphenylisocyanide. A 20 mL scintillation vial was charged with (^{BBN}PDP^{rBu})FeH₂ (0.054 g, 0.077 mmol) and 2 mL THF. While stirring, a solution of 2,4,6-tri-***tert***-butylphenylisocyanide (0.041 g, 0.151 mmol) in 1 mL THF was added resulting in an immediate color change to deep brown. After 5 min, volatiles were removed in vacuo. The resulting material was triturated with pentane and dried to afford brown/black powder assigned as (^{BBN}PDP^{tBU})Fe(CNAr)₂. The complex is highly soluble and readily dissolves in non-polar solvents such as** *n***-pentane, isooctane, and hexamethyldisiloxane and was unable to be purified further. Impurities are evident by infrared spectroscopy (see below). The assignment as (^{BBN}PDP^{tBU})Fe(CNAr)₂ is made on the basis of ¹H NMR and infrared spectroscopies, MALDI-TOF mass spectrometry, and the production of H₂ (see details below). Characterization associated with complex: ¹H NMR (tol-***d***₈, 25 °C) \delta = 1.09 (s, broad, C(***CH***₃)₃), 1.13 (s, broad), 1.22 (s, broad, C(***CH***₃)₃), further broad resonances spanning 1.25-1.80, 4.77 (broad, N-***CH***₂), 6.65 (s, 2H, pyrazole-***CH***), 7.26 (t,** *J* **= 7.5, 1H,** *p***-pyridine-***CH***), 7.30 (s, 4H, ArNC-***CH***), 7.73 (d,** *J* **= 7.0, 2H,** *m***-pyr-***CH***). MALDI-TOF of C₇₉H₁₂₁N₇B₂Fe₁ – (CNAr): Calc. 974.692; Found 974.715. IR (KBr, ambient temperature): 2002, 1895 cm⁻¹ (CNAr), other CNAr impurities at 2191 and 2071 cm⁻¹.**

Attempts to synthesize analogues to 2-E with ^{butyl}PDP^{tBu} ligand, (^{butyl}PDP^{tBu})Fe(E)₂ (E = H, NH₂, OH, PHPh, NHPh, SPh).

A) Reaction between (^{Bu}PDP^{tBu})FeBr₂ and KBHEt₃. A 20 mL scintillation vial was charged with (^{Bu}PDP^{tBu})FeBr₂ (0.020 g, 0.031 mmol) and 2 mL THF and the yellow slurry frozen. On thawing, KBHEt₃ (1.0 M in THF, 0.061 mmol) was added resulting in an immediate color change to deep green which slowly dissipated over 2 min, becoming brown/green. In situ NMR (THF) was attempted, however, the sample could not be shimmed. In both THF and C₆D₆, insoluble black material gradually precipitates. After 20 min of reaction time, volatiles were removed in vacuo. Addition of C₆D₆ (0.8 mL) resulted in a rapid color change to deep red/brown. The solution was filtered into a J. Young NMR tube and a poorly resolved ¹H NMR spectrum was obtained (see below).

B) Reaction between (^{Bu}PDP^{tBu})FeBr₂ and NaOH/NaNH₂. These reactions provided analogous results. A 20 mL scintillation vial was charged with (^{Bu}PDP^{tBu})FeBr₂ (0.020 g, 0.031 mmol) and 6 mL THF. While stirring, NaOH or NaNH₂ (0.310 mmol) was added. No immediate color change was noted. After 45 min, the solution color began to change from yellow to dark brown/green. An aliquot of each reaction was filtered into a J-Young NMR tube and a ¹H NMR (the precipitate was black and the filtrate was faint yellow). ¹H NMR spectroscopy revealed only starting material ((^{Bu}PDP^{tBu})FeBr₂) and uncoordinated (^{Bu}PDP^{tBu}). No other paramagnetic resonances were observed. The reaction was allowed to stir an addition 14 hr at room temperature. Filtration of the black precipitate afforded a colorless solution which was identified to only contain uncoordinated (^{Bu}PDP^{tBu}) by ¹H NMR spectroscopy.

C) Reaction between (^{Bu}PDP^{tBu})FeBr₂ and LiPHPh/LiNHPh. These reactions provided analogous results. A 20 mL scintillation vial was charged with (^{Bu}PDP^{tBu})FeBr₂ (0.030 g, 0.046 mmol), 8 mL THF, and either aniline or phenylphosphine (0.092 mmol). The vial was frozen. A separate 20 mL scintillation vial was charged lithium bis(trimethylsilyl)amide (0.015 g, 0.090 mmol) and 2 mL THF and frozen. Upon thawing, the solution of lithium bis(trimethylsilyl)amide was added to the iron containing vial resulting in a rapid color change from yellow to dark orange and gradually to dark brown. After stirring to room temperature for 20 min, volatiles were removed in vacuo. ¹H NMR spectroscopy of each (THF) revealed primarily uncoordinated (^{Bu}PDP^{tBu}) ligand as well a trace paramagnetic species that is identical between the two reactions.

D) Synthesis of (^{Bu}PDP^{tBu})Fe(SPh)₂. A 20 mL scintillation vial was charged with (^{Bu}PDP^{tBu})FeBr₂ (0.156 g, 0.240 mmol), 10 mL THF, and thiophenol (0.049 mL, 0.479 mmol). The vial was frozen. A separate 20 mL scintillation vial was charged sodium bis(trimethylsilyl)amide (0.087 g, 0.474 mmol) and 3 mL THF and frozen. Upon thawing, the solution of sodium bis(trimethylsilyl)amide was added to the iron containing vial resulting in a rapid color change from yellow to dark black, to dark yellow, and finally to olive green over 20 min. Volatiles were removed in vacuo to afford a light orange solid. The material was extracted into 10 mL dichloromethane, filtered, and dried. The resulting solid was washed with 10 mL *n*-pentane to afford light orange powder (0.161 g, 0.227 mmol, 95%) assigned as (^{Bu}PDP^{tBu})Fe(SPh)₂. Single, X-ray quality crystals were obtained by slow diffusion on *n*-pentane into a DCM solution at room temperature. MALDI-TOF of C₃₉H₅₁N₅S₂Fe₁ – SPh: Calc. 600.282; Found 600.511. ¹H NMR (THF, 23 °C) δ = -33.7 (236, 4H, SPh-C*H*), -31.3 (20, 2H, *p*-SPh-C*H*), -24.3 (27, 1H, *p*-pyr-C*H*), 0.5 (24, 6H, C*H*₃), 3.3 (55, 4H, C*H*₂), 6.1 (10, 18H, C(C*H*₃)₃), 7.6 (214, 4H, C*H*₂), 22.1 (19, 4H, SPh-C*H*), 22.7 (284, 4H, N-C*H*₂), 44.0 (42, 2H, pyridine or pyrazole-C*H*), 57.0 (45, 2H, pyridine or pyrazole-C*H*). μ_{eff} = 5.30 +/- 0.09 μ_{B} (THF, 25 °C). UV-Vis (THF, ambient temperature): λ_{max} = 330 nm (13,600 M⁻¹cm⁻¹).

E) Validation of salt metathesis route for attempts to form (^{buty/}PDP^{tBu})Fe(E)₂ variants

The compounds $({}^{Bu}PDP^{tBu})Fe(PHPh)_2$ and $({}^{Bu}PDP^{tBu})Fe(OH)_2$ were inaccessible through salt metathesis. The boron containing variants, **2-PHPh** and **2-OH**, were confirmed to be accessible through this method. Below are the synthetic protocol.

1) Alternate synthesis of (^{BBN}PDP^{tBu})Fe(PHPh)₂. A 20 mL scintillation vial was charged with (^{BBN}PDP^{tBu})FeBr₂ (0.196 g, 0.227 mmol), 8 mL THF, and phenylphosphine (0.455 mmol from THF stock solution) and the solution frozen. A separate vial was charged with potassium bis(trimethylsilyl)amide (0.091 g, 0.456 mmol) and 4 mL THF and frozen. Upon thawing, the solution containing KN(SiMe₃)₂ was added to the vial containing (^{BBN}PDP^{tBu})FeBr₂. The solution was stirred to room temperature for 20 min then filtered over Celite. Volatiles were removed in vacuo. The resulting orange solid was washed with 3 x 10 mL *n*-pentane and dried to afford light orange powder (0.171 g, 0.185 mmol, 82%) identified as (^{BBN}PDP^{tBu})Fe(PHPh)₂. The spectroscopic data and purity by this method were analogous to the protonation method.

2) Alternate synthesis of (^{BBN}PDP^{tBu})Fe(OH)₂. A 20 mL scintillation vial was charged with (^{BBN}PDP^{tBu})FeBr₂ (0.057 g, 0.066 mmol), 4 mL THF, and water (0.132 mmol from THF stock solution) and the solution frozen. A separate vial was charged with potassium bis(trimethylsilyl)amide (0.026 g, 0.130 mmol) and 4 mL THF and frozen. Upon thawing, the solution containing KN(SiMe₃)₂ was added to the vial containing (^{BBN}PDP^{tBu})FeBr₂ and stirred to room temperature for 20 min. Volatiles were then removed in vacuo. The resulting orange solid was extracted into 8 mL dichloromethane, filtered, dried, and washed with 3 x 6 mL *n*-pentane to afford light orange powder (0.021 g, 0.028 mmol, 43%) identified as (^{BBN}PDP^{tBu})Fe(OH)₂. The spectroscopic data and purity by this method were analogous to the protonation method.



Figure S1. ¹H NMR spectrum (THF, 24 °C) of (^{BBN}PDP^{tBu})FeH₂.



Figure S2. Infrared spectrum (KBr) of (^{BBN}PDP^{tBu})FeH₂.



Figure S3. MALDI-TOF spectrum of ($^{BBN}PDP^{tBu}$)FeH₂ (bottom, black) obtained in an anthracene matrix and the predicted isotopic pattern (top, red). Monoisotopic mass calculated for C₄₁H₆₅N₅B₂Fe₁.



Figure S4. ¹H NMR spectrum (CDCl₃, 25 °C) of (^{BBN}PDP^{tBu})Znl₂.



Figure S5. ¹H-¹H COSY spectrum (CDCl₃, 25 °C) of (^{BBN}PDP^{tBu})Znl₂.



Figure S6. ¹³C NMR spectrum (CDCl₃, 25 °C) of (^{BBN}PDP^{tBu})Znl₂.



Figure S7. ¹¹B NMR spectrum (CDCl₃, 25 °C) of (^{BBN}PDP^{tBu})Znl₂.



Figure S8. Infrared spectrum (KBr) of (^{BBN}PDP^{tBu})ZnI₂.



Figure S9. MALDI-TOF spectrum of ($^{BBN}PDP^{tBu}$)ZnI₂ (bottom, black) obtained in an anthracene matrix and the predicted isotopic pattern (top, red). Monoisotopic mass calculated for C₄₁H₆₃N₅B₂I₂Zn₁ – I.



Figure S10. ¹H NMR spectrum (THF, 25 °C) of (^{BBN}PDP^{tBu})ZnH₂.



Figure S11. ¹H-¹H COSY spectrum (THF-*d*₈, 25 °C) of (^{BBN}PDP^{tBu})ZnH₂.



Figure S12. ²H NMR spectrum (THF, 25 °C) of (^{BBN}PDP^{tBu})ZnD₂.



Figure S13. ¹³C NMR spectrum (THF, 25 °C) of (^{BBN}PDP^{tBu})ZnH₂.



Figure S14. ¹¹B NMR spectrum (THF, 25 °C) of (^{BBN}PDP^{tBu})ZnH₂.



Figure S15. MALDI-TOF spectrum of ($^{BBN}PDP^{tBu}$)ZnH₂ (bottom, black) obtained in an anthracene matrix and the predicted isotopic pattern (top, red). Monoisotopic mass calculated for C₄₁H₆₅N₅B₂Zn₁.



Figure S16. Infrared spectrum (KBr) of (^{BBN}PDP^{tBu})ZnH₂.



Figure S17. Difference infrared spectrum (KBr) of (^{BBN}PDP^{tBu})ZnH₂ minus (^{BBN}PDP^{tBu})ZnD₂.



Figure S18. ¹H NMR spectrum (C₆D₆, 25 °C) of reaction between (^{Bu}PDP^{tBu})FeBr₂ and two equiv. KBHEt₃.



Figure S19. ¹H NMR spectrum (THF, 25 °C) of [K(2,2,2-cryptand)][(^{BBN}PDP^{tBu})FeH₂].



Figure S20. Infrared spectrum (KBr) of [K(18-crown-6)][($^{BBN}PDP^{tBu}$)FeH₂].



Figure S21. X-band EPR spectrum (black) of $[K(2,2,2-cryptand)][(^{BBN}PDP^{tBu})FeH_2]$ (0.92 mM) recorded in frozen THF/toluene (1:1) at 10 K. Power: 0.502 mW. Modulation: 0.20 mT/100 kHz. Simulated spectrum (red, dotted) for $g_x = 5.628$, $g_y = 3.979$, $g_z = 1.825$, linewidth = 43 G.



Figure S22. ¹H NMR spectrum (THF, 25 °C) of (^{BBN}PDP^{tBu})Fe(NHMe)₂.



Figure S23. Infrared spectrum (KBr) of (^{BBN}PDP^{tBu})Fe(NHMe)₂. Inset highlights N-H region.



Figure S24. MALDI-TOF spectrum of $(^{BBN}PDP^{tBu})Fe(NHMe)_2$ (bottom, black) obtained in an anthracene matrix and the predicted isotopic pattern (top, red). Monoisotopic mass calculated for $C_{43}H_{71}N_7B_2Fe_1$.



Figure S25. ¹H NMR spectrum (THF, 25 °C) of (^{BBN}PDP^{tBu})Fe(NHPh)₂.



Figure S26. Infrared spectrum (KBr) of (^{BBN}PDP^{tBu})Fe(NHPh)₂. Inset highlights N-H region.



Figure S27. ¹H NMR spectrum (CDCl₃, 25 °C) of ($^{BBN}PDP^{tBu}$)Fe(OH)₂.



Figure S28. Infrared spectrum (KBr) of (^{BBN}PDP^{tBu})Fe(OH)₂.



Figure S29. MALDI-TOF spectrum of $(^{BBN}PDP^{tBu})Fe(OH)_2$ (bottom, black) obtained in an anthracene matrix and the predicted isotopic pattern (top, red). Monoisotopic mass calculated for $C_{41}H_{65}N_5O_2B_2Fe_1$.



Figure S30. ¹H NMR spectrum (CDCl₃, 25 °C) of (^{BBN}PDP^{tBu})Fe(PHPh)₂.



Figure S31. Infrared spectrum (KBr) of (^{BBN}PDP^{tBu})Fe(PHPh)₂.



Figure S32. ¹H NMR spectrum (C₆D₆, 25 °C) of (^{BBN}PDP^{tBu})Fe(SPh)₂.



Figure S33. Infrared spectrum (KBr) of (^{BBN}PDP^{tBu})Fe(SPh)₂.



Figure S34. MALDI-TOF spectrum of $(^{BBN}PDP^{tBu})Fe(SPh)_2$ (bottom, black) obtained in an anthracene matrix and the predicted isotopic pattern (top, red). Monoisotopic mass calculated for $C_{53}H_{73}N_5B_2S_2Fe_1$ - SPh.



Figure S35. Crude ¹H NMR spectrum (THF, 25 °C) of the reaction between (^{BBN}PDP^{tBu})FeH₂ and PhSSPh to produce (^{BBN}PDP^{tBu})Fe(SPh)₂ and H₂ in a sealed J-Young NMR tube.



Figure S36. Variable temperature ¹H NMR spectra (CH₂Cl₂) of (^{BBN}PDP^{tBu})Fe(SPh)₂. The residual CH₂Cl₂ resonance is omitted to increase clarity.



Figure S37. ¹H NMR spectrum (C₆D₆, 25 °C) of (^{BBN}PDP^{tBu})Zn(SPh)₂.



Figure S38. ¹H-¹H COSY spectrum (C₆D₆, 25 °C) of (^{BBN}PDP^{tBu})Zn(SPh)₂.



Figure S39. ¹³C NMR spectrum (C₆D₆, 25 °C) of (^{BBN}PDP^{tBu})Zn(SPh)₂.



Figure S40. Infrared spectrum (KBr) of (^{BBN}PDP^{tBu})Zn(SPh)₂.



Figure S41. MALDI-TOF spectrum of $(^{BBN}PDP^{tBu})Zn(SPh)_2$ (bottom, black) obtained in an anthracene matrix and the predicted isotopic pattern (top, red). Monoisotopic mass calculated for $C_{53}H_{73}N_5B_2S_2Zn_1$ - SPh.



Figure S42. Crude ¹H NMR spectrum (THF, 25 °C) of the reaction between (^{BBN}PDP^{tBu})ZnH₂ and PhSSPh to produce (^{BBN}PDP^{tBu})Zn(SPh)₂ and H₂ in a sealed J-Young NMR tube.



Figure S43. Variable temperature ¹H NMR spectra (CDCl₃) of (^{BBN}PDP^{tBu})Zn(SPh)₂.



Figure S44. ¹H NMR spectrum (CH₂Cl₂, 25 °C) of (^{BBN}PDP^{tBu})Fe(SPh)₂(NH₃)₂.



Figure S45. Infrared spectrum (KBr) of (^{BBN}PDP^{tBu})Fe(SPh)₂(NH₃)₂.


Figure S46. MALDI-TOF spectrum of $(^{BBN}PDP^{tBu})Fe(SPh)_2(NH_3)_2$ (bottom, black) obtained in an anthracene matrix and the predicted isotopic pattern (top, red). Monoisotopic mass calculated for $C_{53}H_{73}N_5B_2S_2Fe_1 - (SPh + 2(NH_3))$.



Figure S47. ¹H NMR spectrum (CDCl₃, 25 °C) of [(^{BBN}PDP^{tBu})Fe(NC)₂]₂.



Figure S48. Infrared spectrum (KBr) of [(^{BBN}PDP^{tBu})Fe(NC)₂]₂.



Figure S49. MALDI-TOF spectrum of $[(^{BBN}PDP^{tBu})Fe(NC)_2]_2$ (bottom, black) obtained in an anthracene matrix and the predicted isotopic pattern (top, red). Monoisotopic mass calculated for $C_{86}H_{126}N_{14}B_4Fe_2$.



Figure S50. ¹H NMR spectrum (tol- d_8 , 25 °C) of the reaction between (^{BBN}PDP^{*t*Bu})FeH₂ and two equivalents of ArNC (Ar = 2,4,6-tri-*tert*-butylphenyl).



Figure S51. Infrared spectrum (KBr) of the reaction between ($^{BBN}PDP^{tBu}$)FeH₂ and two equivalents of ArNC (Ar = 2,4,6-tri-*tert*-butylphenyl).



Figure S52. MALDI-TOF spectrum of reaction between (^{BBN}PDP^{tBu})FeH₂ and 2 equiv. ArNC (Ar = 2,4,6-tri*tert*-butylphenyl) (bottom, black) obtained in an anthracene matrix and the predicted isotopic pattern (top, red). The calculated isotopic pattern corresponds to loss of CNAr from (^{BBN}PDP^{tBu})Fe(CNAr)₂. Monoisotopic mass calculated for C₆₀H₉₂N₆B₂Fe₁.



Figure S53. ¹H NMR spectrum (THF, 25 °C) of (^{butyl}PDP^{tBu})Fe(SPh)₂.



Figure S54. Infrared spectrum (KBr) of (^{butyl}PDP^{tBu})Fe(SPh)₂.



Figure S55. MALDI-TOF spectrum of $(^{butyl}PDP^{tBu})Fe(SPh)_2$ (bottom, black) obtained in an anthracene matrix and the predicted isotopic pattern (top, red). Monoisotopic mass calculated for $C_{39}H_{51}N_5S_2Fe_1$ - SPh.



Figure S56. Electronic absorption spectrum of (^{butyl}PDP^{tBu})Fe(SPh)₂ recorded in THF at ambient temperature.

Quantification of H₂ produced by addition of 2,4,6-tri-tert-butylphenylisocyanide

Four samples for each (^{BBN}PDP^{tBu})FeH₂ and (^{BBN}PDP^{tBu})ZnH₂ were set up under analogous conditions:

A C_6H_6 slurry (approx. 1.0 mL) of a known quantity of (^{BBN}PDP^{tBu})MH₂ was transferred to a J-Young NMR tube. Additional C_6H_6 (approx. 1.0 mL) was used to ensure all (^{BBN}PDP^{tBu})MH₂ was transferred. The tube was then carefully layered with additional C_6H_6 until completely full. Approx. 1.0 mL benzene from the top of the tube was removed and used to dissolve 2,4,6-tri-*tert*-butylphenylisocyanide (2 equiv.) in a separate vial. To this, one equiv. of (trimethyl)phenylsilane was added and the solution was subsequently layered back on top of the NMR tube. The tube was sealed so that no headspace remained. The tube was subjected to sonication for 5 min to aid in dissolution of (^{BBN}PDP^{tBu})MH₂. The tube was then slowly inverted repeatedly for 30 min and an ¹H NMR spectrum was obtained. The Fe complexes gradually become dark brown in color while the Zn species gradually become light pink. The tables and figures below illustrate the H₂ production.

Table S1.	Quantification	of H_2 from r	eaction betwo	een (^{BBN} PDP ^{tB}	^{iu})FeH ₂ and 2	,4,6-tri- <i>tert</i> -
butylphe	nylisocyanide.					

	(^{BBN} PDP ^{tBu})FeH₂	ArNC	Percent H ₂
	(mass, mg)	(mass, mg)	
Sample A	9.6	7.4	89.9
Sample B	9.7	7.5	91.5
Sample C	9.8	7.6	87.3
Sample D	11.0	8.5	92.2
			Average: 90.2 +/- 2.2 %

Table S2. Quantification of H_2 from reaction between (^{BBN}PDP^{tBu})ZnH₂ and 2,4,6-tri-*tert*-butylphenylisocyanide.

	(^{BBN} PDP ^{tBu})ZnH₂	ArNC	Percent H ₂
	(mass, mg)	(mass, mg)	
Sample A	8.7	6.6	10.6
Sample B	8.9	6.8	6.1
Sample C	9.4	7.2	6.1
Sample D	10.9	8.3	4.9

Average: 6.9 +/- 2.5 %



Figure S57. ¹H NMR spectra (C_6H_6 , 25 °C) of reaction between (^{BBN}PDP^{tBu})FeH₂ and two equivalents 2,4,6-tri-*tert*-butylphenylisocyanide in a sealed J-Young NMR tube. Details for sample preparation are described above.



Figure S58. ¹H NMR spectra (C_6H_6 , 25 °C) of reaction between (^{BBN}PDP^{tBu})ZnH₂ and two equivalents 2,4,6-tri-*tert*-butylphenylisocyanide in a sealed J-Young NMR tube. Details for sample preparation are described above.



Figure S59. ¹H NMR spectra (C_6H_6 , 25 °C) of reaction between (^{BBN}PDP^{tBu})ZnH₂ and two equivalents 2,4,6-tri-*tert*-butylphenylisocyanide in a sealed J-Young NMR tube. Spectra are the same as the above figure and are zoomed in on the hydrogen region.



Figure S60. Electrochemical analysis of (^{BBN}PDP^{*t*Bu})FeH₂ (0.47 mM) recorded in THF with 0.2 M [Bu₄N][PF₆] electrolyte. Top: full scan. Bottom left: square wave voltammogram (parameters: amplitude = 160 mV; period = 0.06 seconds; increment = 2 mV; sampling width = 0.001 seconds). Bottom middle: scan rate dependence of reductive wave collected at 25, 50, 75, and 100 mv/s. Bottom right: Plot of (scan rate)^{1/2} vs. current.



Figure S61. Electrochemical analysis of (^{BBN}PDP^{*t*Bu})Fe(NH₂)₂ (0.91 mM) recorded in THF with 0.2 M [Bu₄N][PF₆] electrolyte. Top: full scan. Bottom left: square wave voltammogram (parameters: amplitude = 160 mV; period = 0.06 seconds; increment = 2 mV; sampling width = 0.001 seconds). Bottom middle: scan rate dependence of reductive wave collected at 25, 50, 75, 100, 150, 250, and 500 mv/s. Bottom right: Plot of (scan rate)^{1/2} vs. current.



Figure S62. Electrochemical analysis of (${}^{BBN}PDP^{tBu}$)Fe(SPh)₂ (0.72 mM) recorded in THF with 0.2 M [Bu₄N][PF₆] electrolyte. Top: full scan. Bottom left: square wave voltammogram (parameters: amplitude = 160 mV; period = 0.02 seconds; increment = 2 mV; sampling width = 0.001 seconds). Bottom middle: scan rate dependence of reductive wave collected at 25, 50, 100, 200, 400, and 600 mv/s. Bottom right: Plot of (scan rate)^{1/2} vs. current.



Figure S63. Electrochemical analysis of ($^{BBN}PDP^{tBu}$)Fe(SPh)₂(NH₃)₂ (0.70 mM) recorded in THF with 0.2 M [Bu₄N][PF₆] electrolyte. Top: full scan. Bottom left: square wave voltammogram (parameters: amplitude = 160 mV; period = 0.02 seconds; increment = 2 mV; sampling width = 0.001 seconds). Bottom middle: scan rate dependence of reductive wave. Bottom right: Plot of (scan rate)^{1/2} vs. current.



Figure S64. Electrochemical analysis of (^{BBN}PDP^{*t*Bu})Fe(PHPh)₂ (0.72 mM) recorded in THF with 0.2 M [Bu₄N][PF₆] electrolyte. Top: full scan. Bottom left: square wave voltammogram (parameters: amplitude = 160 mV; period = 0.02 seconds; increment = 2 mV; sampling width = 0.001 seconds). Bottom middle: scan rate dependence of reductive wave collected at 25, 50, 100, 200, 400, and 600 mv/s. Bottom right: Plot of (scan rate)^{1/2} vs. current.



Figure S65. Electrochemical analysis of (^{BBN}PDP^{*t*Bu})Fe(OH)₂ (0.90 mM) recorded in THF with 0.2 M [Bu₄N][PF₆] electrolyte. Top: full scan. Bottom left: square wave voltammogram (parameters: amplitude = 160 mV; period = 0.02 seconds; increment = 2 mV; sampling width = 0.001 seconds). Bottom middle: scan rate dependence of reductive wave collected at 25, 50, 100, 200, 400, and 600 mv/s. Bottom right: Plot of (scan rate)^{1/2} vs. current.



Figure S66. Electrochemical analysis of (${}^{BBN}PDP^{tBu}$)Fe(NHPh)₂ (0.75 mM) recorded in THF with 0.2 M [Bu₄N][PF₆] electrolyte. Top: full scan. Bottom left: square wave voltammogram (parameters: amplitude = 160 mV; period = 0.02 seconds; increment = 2 mV; sampling width = 0.001 seconds). Bottom middle: scan rate dependence of reductive wave collected at 25, 50, 100, 200, 400, and 600 mv/s. Bottom right: Plot of (scan rate)^{1/2} vs. current.



Figure S67. Electrochemical analysis of (^{BBN}PDP^{*t*Bu})Fe(NHMe)₂ (0.87 mM) recorded in THF with 0.2 M [Bu₄N][PF₆] electrolyte. Top: full scan. Bottom left: square wave voltammogram (parameters: amplitude = 160 mV; period = 0.02 seconds; increment = 2 mV; sampling width = 0.001 seconds). Bottom middle: scan rate dependence of reductive wave collected at 25, 50, 100, 200, 400, and 600 mv/s. Bottom right: Plot of (scan rate)^{1/2} vs. current.



Figure S68. Electrochemical analysis of $(^{butyl}PDP^{tBu})Fe(SPh)_2$ (0.94 mM) recorded in THF with 0.2 M $[Bu_4N][PF_6]$ electrolyte. Top: full scan. Bottom left: square wave voltammogram (parameters: amplitude = 160 mV; period = 0.02 seconds; increment = 2 mV; sampling width = 0.001 seconds). Bottom middle: scan rate dependence of reductive wave. Bottom right: Plot of (scan rate)^{1/2} vs. current. E_{red} determined by square wave voltammetry = -2.14 V (vs. Fc/Fc⁺).

Table S3. Reduction potentials determined by square wave voltammetry.

Compound	E _{1/2} , V (vs. Fc/Fc ⁺)
(^{BBN} PDP ^{tBu})FeBr ₂	-2.14 ^a
(^{BBN} PDP ^{tBu})FeCl ₂	-2.07ª
(^{BBN} PDP ^{tBu})FeH ₂	-2.06
(^{BBN} PDP ^{tBu})Fe(NH ₂) ₂	-2.12
(^{BBN} PDP ^{tBu})Fe(NHMe) ₂	-2.30
(^{BBN} PDP ^{tBu})Fe(NHPh) ₂	-2.18
(^{BBN} PDP ^{tBu})Fe(OH) ₂	-2.12
(^{BBN} PDP ^{tBu})Fe(PHPh) ₂	-1.96
(^{BBN} PDP ^{tBu})Fe(SPh) ₂	-2.13
(^{BBN} PDP ^{tBu})Fe(SPh) ₂ (NH ₃) ₂	-2.21

^aValues for ($^{BBN}PDP^{tBu}$)FeX₂ (X = Cl, Br) taken from ref. 1



Figure S69. Electronic absorption spectra of (^{BBN}PDP^{tBu})FeH₂ (red) and [K(18-crown-6)][(^{BBN}PDP^{tBu})FeH₂] (green) recorded in THF at ambient temperature.



Figure S70. Electronic absorption spectra of iron complexes recorded in THF at ambient temperature.

Compound: (BBNPDP^{tBu})FeH₂

Local Name: jk3155

CCDC 1884221

Table S4. Crystallographic parameters for (^{BBN}PDP^{tBu})FeH₂

Crystal data		
Chemical formula	C ₄₁ H ₆₅ B ₂ FeN ₅ ·0.892(C ₇ H ₈)	
M _r	787.61	
Crystal system, space group	Tetragonal, P4 ₃ 2 ₁ 2	
Temperature (K)	150	
a, c (Å)	16.0995 (5), 16.3816 (5)	
V (Å ³)	4246.0 (3)	
Z	4	
Radiation type	Cu <i>K</i> α	
μ (mm ⁻¹)	3.13	
Crystal size (mm)	0.12 × 0.11 × 0.10	
Data collection		
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer	
Absorption correction	Multi-scan SADABS 2016/2: Krause, L., Herbst-Irmer, R., Sheldrick G.M. & Stalke D., J. Appl. Cryst. 48 (2015) 3-10	
T _{min} , T _{max}	0.427, 0.526	
No. of measured, independent and observed [I > 2s(I)] reflections	30458, 4559, 3416	
R _{int}	0.070	
$(\sin \theta / \lambda)_{max} (\text{\AA}^{-1})$	0.639	
Refinement		
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.056, 0.165, 1.00	
No. of reflections	4559	
No. of parameters	508	
No. of restraints	668	
H-atom treatment	H-atom parameters constrained	
Δρ _{max} , Δρ _{min} (e Å ⁻³)	0.33, -0.49	
Absolute structure	Refined as an inversion twin.	
Absolute structure parameter	0.390 (10)	

Computer programs: Apex3 v2016.9-0 (Bruker, 2016), SAINT V8.37A (Bruker, 2016), SHELXL2018/1

(Sheldrick, 2015, 2018), SHELXLE Rev882 (Hübschle et al., 2011).

The structure is isotypic to its zinc counterpart and was solved by isomorphous replacement, followed by inversion to the enantiomorph space group.

Refined as a 2-component inversion twin.

The ligand side arm and the immediately adjacent part of the chelating ligand (including the *tert*-butyl group) are disordered over two alternative positions, wrapping around the iron center clockwise or anticlockwise. The two disordered moieties were restrained to have similar geometries. U^{ij} components of ADPs for disordered atoms closer to each other than 2.0 Å were restrained to be similar. Subject to these conditions the occupancy ratio refined to 0.554(6) to 0.446(6).

A toluene solvate molecule is partially occupied and disordered around a two-fold axis over four orientations (each two related by the two fold axis). Each benzene ring was constrained to resemble an ideal hexagon (AFIX 66). The methyl C-C bond distance was restrained to 1.53(2) Å. The lesser occupied moiety was restrained to be close to planar, and Uⁱⁱ components of ADPs for disordered atoms closer to each other than 2.0 Å were restrained to be similar. Subject to these conditions the occupancy rates refined to two times 0.333(12) and two times 0.113(12), for a total occupancy for the site of 0.892. No indication for additional electron density at this site was found.



Figure S71. Molecular structure of (^{BBN}PDP^{tBu})FeH₂ displayed with 50% probability ellipsoids. Hydrogen atoms not attached to iron are omitted for clarity. The 9-BBN moleties are displayed in wireframe for clarity.

Compound: [K(2,2,2-cryptand)][(^{BBN}PDP^{tBu})FeH₂]

Local Name: jk2200

CCDC 1884231

Table S5. Crystallographic parameters for [K(2,2,2-cryptand)][(^{BBN}PDP^{tBu})FeH₂]

Crystal data	
Chemical formula	$C_{18}H_{36}KN_2O_6 \cdot C_{41}H_{65}B_2FeN_5$
<i>M</i> _r	1121.03
Crystal system, space group	Triclinic, P1
Temperature (K)	150
a, b, c (Å)	19.503 (3), 21.623 (3), 22.147 (4)
α, β, γ (°)	67.321 (5), 71.202 (5), 89.815 (4)
<i>V</i> (Å ³)	8079 (2)
Z	4
Radiation type	Μο Κα
μ (mm ⁻¹)	0.28
Crystal size (mm)	0.39 × 0.22 × 0.06
Data collection	
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer
Absorption correction	Multi-scan SADABS 2016/2: Krause, L., Herbst-Irmer, R., Sheldrick G.M. & Stalke D. (2015). J. Appl. Cryst. 48 3-10.
T _{min} , T _{max}	0.446, 0.563
No. of measured, independent and observed [/ > 2s(/)] reflections	70366, 70366, 41234
R _{int}	0.053
(sin θ/λ) _{max} (Å ⁻¹)	0.679
Refinement	
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.132, 0.410, 1.07
No. of reflections	70366
No. of parameters	2089
No. of restraints	3477
H-atom treatment	H-atom parameters constrained
	$w = 1/[s^2(F_o^2) + (0.2025P)^2 + 20.270P]$ where $P = (F_o^2 + 2F_c^2)/3$
$\Delta \rho_{max}$, $\Delta \rho_{min}$ (e Å ⁻³)	1.12, -0.52

Computer programs: Apex3 v2016.9-0 (Bruker, 2016), SAINT V8.37A (Bruker, 2016), SHELXS97

(Sheldrick, 2008), *SHELXL2017*/1 (Sheldrick, 2015, 2017), SHELXLE Rev859 (Hübschle *et al.*, 2011).

The crystal under investigation was found to be slightly non-merohedrally twinned. The orientation matrices for the two components were identified using the program Cell Now, with the two components being related by a 180 degree rotation around the real a-axis.

Integration proved problematic due to excessive multiple overlap of reflections, resulting in large numbers of rejected reflections. Attempts were made to adjust integration parameters to avoid excessive rejections (through adjustments to integration queue size, blending of profiles, integration box slicing and twin overlap parameters), which led to less but still substantial numbers of rejected reflections. With no complete data set obtainable through simultaneous integration of both twin domains, the data were instead handled as if not twinned, with only the major domain integrated, and converted into an hklf 5 type format hkl file after integration using the "Make HKLF5 File" routine as implemented in WinGX. The twin law matrix was used as obtained from WinGX and was as follows:

180.0 degree rotation about 1. 0. 0. direct lattice direction:

[1.000	0.000	0.000]
[0.007	-1.000	0.000]
[0.732	0.000	-1.000]

The Overlap R1 and R2 values used were 0.55, i.e. reflections with a discriminator function less or equal to an overlap radius of 0.55 were counted overlapped, all others as single. The discriminator function used was the "delta function on index non-integrality". No reflections were omitted.

The structure was solved using direct methods with the original hklf 4 type file and was refined using the hklf 5 type file, resulting in a final BASF value, after finalizing of structural model and other treatments (see below) of 0.098(2). This is thought to be underestimated due to the use of an after integration created hklf 5 type file.

No Rint value is obtainable for the hklf 5 type file using the WinGX routine. The value from the refinement under omission of twinning is given instead.

The cryptand ligands surrounding the potassium cations were found to be disordered. That around K1A was refined as disordered over two orientations; that around K1B as disordered over three orientations. All disordered moieties were restrained to have similar geometries. The bond distances of C52C to C53C and of C56B to C57B were restrained to a target value of 1.500(1) Angstrom. U^{ij} components of ADPs for disordered atoms closer to each other than 2.0 Å were restrained to be similar. Subject to these conditions the occupancy ratio refined to 0.839(5) to 0.161(5) for the first cryptand, and the rates of the second to 0.194(4), 0.551(4) and 0.256(3).

A mild anti bumping restraint was applied to avoid close H...H contacts for disordered atoms.

In addition to disorder and twinning, the structure also exhibits large volume sections consisting of highly disordered solvate molecules. No satisfactory model for the solvate molecules could be developed, and the contribution of the solvate molecules was instead taken into account by reverse Fourier transform methods. The data were first detwinned (using the LIST 8 function of Shelxl2017) and then the cif and hkl files were subjected to the SQUEEZE routine as implemented in the program Platon. The resultant files were used in the further refinement. (Both the hklf 5 type HKL file and the detwinned FAB file are appended to the cif file). A volume of 2821 cubic Å per unit cell (ca 35% of the cell volume) containing 388 electrons was corrected for.



Figure S72. Molecular structure of [K(2,2,2-cryptand)][(^{BBN}PDP^{tBu})FeH₂] displayed with 50% probability ellipsoids. Hydrogen atoms not attached to iron are omitted for clarity. The 9-BBN moieties are displayed in wireframe for clarity.

Compound: [K(DME)₄][(^{BBN}PDP^{tBu})FeH₂]

Local Name: jk2177

CCDC 1884224

 Table S6. Crystallographic parameters for [K(DME)₄][(^{BBN}PDP^{tBu})FeH₂]

Crystal data	
Chemical formula	$4(C_{41}H_{65}B_{2}FeN_{5})\cdot 2.808(C_{4}H_{9}O_{2})\cdot 3(C_{4}H_{10}O_{2})\cdot 4(K)$
<i>M</i> _r	3498.78
Crystal system, space group	Tetragonal, 142d
Temperature (K)	150
a, c (Å)	26.450 (2), 20.9410 (19)
V (Å ³)	14650 (3)
Z	2
Radiation type	Μο Κα
μ (mm ⁻¹)	0.29
Crystal size (mm)	0.42 × 0.28 × 0.13
Data collection	
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer
Absorption correction	Multi-scan SADABS 2016/2: Krause, L., Herbst-Irmer, R., Sheldrick G.M. & Stalke D., J. Appl. Cryst. 48 (2015) 3-10
T _{min} , T _{max}	0.486, 0.564
No. of measured, independent and observed [/ > 2s(/)] reflections	102117, 9087, 6150
R _{int}	0.080
(sin θ/λ) _{max} (Å ⁻¹)	0.667
Refinement	
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.094, 0.301, 1.09
No. of reflections	9087
No. of parameters	557
No. of restraints	652
H-atom treatment	H-atom parameters constrained
Δρ _{max} , Δρ _{min} (e Å ⁻³)	1.20, -0.58
Absolute structure	Refined as an inversion twin.
Absolute structure parameter	0.48 (4)

Computer programs: Apex3 v2016.9-0 (Bruker, 2016), SAINT V8.37A (Bruker, 2016), SHELXS97

(Sheldrick, 2008), SHELXL2017/1 (Sheldrick, 2017), SHELXLE Rev859 (Hübschle et al., 2011).

Substantial disorder is observed for this structure, for both the iron complex as well as solvate molecules and counter-cations. Due to the overall low data quality and the extensive disorder a global similarity restraint was applied to all atom's ADPs: U^{ij} components of ADPs for atoms closer to each other than 2.0 Å were restrained to be similar within an esd of 0.01 Å².

For the iron complex, the ligand arms are alternatively wrapped around the iron center clockwise or counterclockwise. The disorder extends to the main segment of the ligand, including the *tert*-butyl groups, and the pyrazole fragments were restrained to be coplanar with immediately bonded adjacent atoms. Chemically equivalent bond lengths and angles of *tert*-butyl groups and of some other segments were restrained to be similar. The iron atom was included in the disorder. The two disordered moieties were restrained to have similar geometries. Subject to these conditions the occupancy ratio refined to 0.652(6) to 0.348(6).

Channels around the four-fold inversion axis are occupied by highly disordered potassium ions chelated by DME solvate molecules. One major moiety is relatively well resolved and the K ion and coordinated DME molecules were refined. Occupancies refined to less than half. For the potassium ions, alternative ill-defined positions located on the four-fold inversion axis were included, and the sum of all K ions was constrained based on charge balance considerations. For DME molecules, only the major moiety was taken into consideration. Other remaining DME sites were not resolved and were ignored. Heavily disordered solvate pockets along the channel showed no resolved atoms at all and their electron density was instead included via reverse Fourier transform methods (Squeeze, see below). All refined DME moieties were restrained to have similar geometries and given a common occupancy rate. U^{ij} components of ADPs for disordered atoms closer to each other than 2.0 Å were restrained to be similar. Subject to these conditions the occupancy rate refined to 0.351(11).

The structure contains a solvent accessible voids of 2354 Å³. No substantial electron density peaks were found in the solvent accessible voids (2.9 electrons for the largest peak and less than 1.7 electron/Å³ for all others) and the residual electron density peaks were not arranged in an interpretable pattern. The cif and hkl files were subjected to reverse Fourier transform methods using the SQUEEZE routine (van der Sluis, P.; Spek, A. L. *Acta Cryst.* **1990** *A46*, 194-201) as implemented in the program Platon. The resultant files were used in the further refinement. (The FAB file with details of the Squeeze results is appended to the cif file). The Squeeze procedure corrected for 516 electrons within the solvent accessible voids.



Figure S73. Molecular structure of [K(DME)₄][(^{BBN}PDP^{tBu})FeH₂] displayed with 30% probability ellipsoids. Disordered fragments and hydrogen atoms not attached to iron are omitted for clarity. The 9-BBN moieties are displayed in wireframe for clarity.

Compound: (BBNPDP^{tBu})ZnH₂

Local Name: jk3136

CCDC 1884220

Table S7. Crystallographic parameters for (^{BBN}PDP^{tBu})ZnH₂

Crystal data		
Chemical formula	C ₄₁ H ₆₅ B ₂ N ₅ Zn·0.718(C ₇ H ₈)	
M _r	781.14	
Crystal system, space group	Tetragonal, P4 ₁ 2 ₁ 2	
Temperature (K)	150	
a, c (Å)	16.1630 (5), 16.4362 (6)	
V (Å ³)	4293.8 (3)	
Ζ	4	
Radiation type	Μο Κα	
μ (mm ⁻¹)	0.61	
Crystal size (mm)	$0.26 \times 0.24 \times 0.14$	
Data collection		
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer	
Absorption correction	Multi-scan SADABS 2016/2: Krause, L., Herbst-Irmer, R., Sheldrick G.M. & Stalke D., J. Appl. Cryst. 48 (2015) 3-10	
T _{min} , T _{max}	0.648, 0.746	
No. of measured, independent and observed [<i>I</i> > 2s(<i>I</i>)] reflections	62259, 6563, 4926	
R _{int}	0.088	
$(\sin \theta/\lambda)_{max} (Å^{-1})$	0.716	
Refinement		
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.051, 0.140, 1.03	
No. of reflections	6563	
No. of parameters	507	
No. of restraints	668	
H-atom treatment	H-atom parameters constrained	
$\Delta \rho_{max}, \Delta \rho_{min} \ (e \ Å^{-3})$	0.36, -0.66	
Absolute structure	Flack x determined using 1628 quotients [(I+)-(I-)]/[(I+)+(I-)] (Parsons, Flack and Wagner, Acta Cryst. B69 (2013) 249-259).	
Absolute structure parameter	-0.010 (4)	

Computer programs: Apex3 v2016.9-0 (Bruker, 2016), SAINT V8.37A (Bruker, 2016), SHELXS97

(Sheldrick, 2008), *SHELXL2018*/1 (Sheldrick, 2015, 2018), SHELXLE Rev882 (Hübschle *et al.*, 2011).

The ligand side arm and the immediately adjacent part of the chelating ligand (including the *tert*-butyl group) are disordered over two alternative positions, wrapping around the zinc center clockwise or anticlockwise. The two disordered moieties were restrained to have similar geometries. U^{ij} components of ADPs for disordered atoms closer to each other than 2.0 Å were restrained to be similar. Subject to these conditions the occupancy ratio refined to 0.600(5) to 0.400(5).

A toluene solvate molecule is partially occupied and disordered around a two-fold axis over four orientations (each two related by the two fold axis). Each benzene ring was constrained to resemble an ideal hexagon (AFIX 66). The methyl C-C bond distance was restrained to 1.53(2) Å. The lesser occupied moiety was restrained to be close to planar, and U^{ij} components of ADPs for disordered atoms closer to each other than 2.0 Å were restrained to be similar. Subject to these conditions the occupancy rates refined to two times 0.216(10) and two times 0.143(9), for a total occupancy for the site of 0.718. No indication for additional electron density at this site was found.



Figure S74. Molecular structure of (^{BBN}PDP^{tBu})ZnH₂ displayed with 50% probability ellipsoids. Hydrogen atoms not attached to zinc are omitted for clarity. The 9-BBN moleties are displayed in wireframe for clarity.

Compound: (BBNPDP^{tBu})Fe(NHMe)₂

Local Name: jk2150

CCDC 1884223

Table S8. Crystallographic parameters for (BBNPDPtBu)Fe(NHMe)₂

Crystal data	
Chemical formula	C ₄₃ H ₇₁ B ₂ FeN ₇ ·CH ₂ Cl ₂
M _r	848.46
Crystal system, space group	Tetragonal, P4 ₃ 2 ₁ 2
Temperature (K)	150
a, c (Å)	16.4289 (8), 16.7181 (10)
V (Å ³)	4512.4 (5)
Ζ	4
Radiation type	Μο Κα
μ (mm ⁻¹)	0.49
Crystal size (mm)	0.23 × 0.21 × 0.16
Data collection	
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer
Absorption correction	Multi-scan SADABS 2016/2: Krause, L., Herbst-Irmer, R., Sheldrick G.M. & Stalke D., J. Appl. Cryst. 48 (2015) 3-10
T _{min} , T _{max}	0.194, 0.263
No. of measured, independent and observed [/ > 2s(/)] reflections	47133, 5321, 4539
R _{int}	0.080
(sin θ/λ) _{max} (Å ⁻¹)	0.666
Refinement	
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.058, 0.132, 1.08
No. of reflections	5321
No. of parameters	420
No. of restraints	317
H-atom treatment	H-atom parameters constrained
$\Delta \rho_{max}$, $\Delta \rho_{min}$ (e Å ⁻³)	0.59, -0.46
Absolute structure	Flack x determined using 1784 quotients [(I+)-(I-)]/[(I+)+(I-)] (Parsons, Flack and Wagner, Acta Cryst. B69 (2013) 249-259).
Absolute structure parameter	-0.050 (6)

Computer programs: Apex3 v2016.9-0 (Bruker, 2016), SAINT V8.37A (Bruker, 2016), SHELXS97

(Sheldrick, 2008), SHELXL2017/1 (Sheldrick, 2017), SHELXLE Rev859 (Hübschle et al., 2011).

The structure was solved by isomorphous replacement based on the Fe-complex without the N-methyl CH₃ group.

The ligand side arm is disordered. The two disordered moieties were restrained to have similar geometries. U^{ij} components of ADPs for disordered atoms closer to each other than 2.0 Å were restrained to be similar. The nitrogen atoms N4 and N4B as well as the methyl atoms C22 and C22B were constrained to have each identical ADPs. Subject to these conditions the occupancy ratio refined to 0.852(5) to 0.148(5).

The methylene chloride solvate molecule was refined as disordered over three positions located around a two-fold axis. The three disordered moieties were restrained to have similar geometries. U^{ij} components of ADPs for disordered atoms closer to each other than 1.7 Å were restrained to be similar. Subject to these conditions the occupancy rates refined to 0.072(4), 0.770(4) and two times 0.0791(19) (related by two-fold rotation).



Figure S75. Molecular structure of $({}^{BBN}PDP^{tBu})Fe(NHMe)_2$ displayed with 50% probability ellipsoids. Hydrogen atoms not attached to nitrogen atoms are omitted for clarity. The 9-BBN moieties are displayed in wireframe for clarity.

Compound: (BBNPDP^{tBu})Fe(OH)₂

Local Name: jk238

CCDC 1884227

Table S9. Crystallographic parameters for (BBNPDPtBu)Fe(OH)₂

Crystal data	
Chemical formula	$C_{41}H_{65}B_2FeN_5O_2 \cdot C_5H_{12}$
<i>M</i> _r	809.59
Crystal system, space group	Monoclinic, P21/n
Temperature (K)	150
a, b, c (Å)	13.8891 (4), 17.2913 (6), 19.1228 (7)
β (°)	94.835 (2)
V (Å ³)	4576.2 (3)
Ζ	4
Radiation type	Cu Κα
μ (mm ⁻¹)	2.95
Crystal size (mm)	0.25 × 0.23 × 0.17
Data collection	
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer
Absorption correction	Multi-scan SADABS 2016/2: Krause, L., Herbst-Irmer, R., Sheldrick G.M. & Stalke D., J. Appl. Cryst. 48 (2015) 3-10
T _{min} , T _{max}	0.524, 0.754
No. of measured, independent and observed [I > 2s(I)] reflections	32363, 9656, 7951
R _{int}	0.060
(sin θ/λ) _{max} (Å ⁻¹)	0.639
Refinement	
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.048, 0.132, 1.06
No. of reflections	9656
No. of parameters	772
No. of restraints	929
H-atom treatment	H atoms treated by a mixture of independent and constrained refinement
Δρ _{max} , Δρ _{min} (e Å ⁻³)	0.35, -0.43

Computer programs: Apex3 v2016.9-0 (Bruker, 2016), SAINT V8.37A (Bruker, 2016), SHELXS97

(Sheldrick, 2008), *SHELXL2016*/6 (Sheldrick, 2015, 2016), SHELXLE Rev714 (Hübschle *et al.*, 2011).

Disorder is observed for the ligand side arms and for one solvate pentane molecule. For both the pentane and ligand side arms, geometries of major and minor moieties were restrained to be similar, and U^{ij} components of ADPs were restrained to be similar for atoms closer to each other than 2.0 Å. The hydroxyl O atoms are shared between disordered moieties, but hydroxyl H atoms were included in the disorder and their positions atoms were refined, with O-H distances restrained to 0.84 Å. The H...B and H...Fe distances of the minor moiety hydroxyl H atoms were restrained to be similar to those of the major moiety. The ligand side arm disorder was extended to the H atoms of the methyl group of C11. Subject to these conditions the pentane occupancy ratio refined to 0.700(5) to 0.300(5), the ligand side arm occupancy ratio to 0.9492(12) to 0.0508(12).



Figure S76. Molecular structure of (^{BBN}PDP^{tBu})Fe(OH)₂ displayed with 50% probability ellipsoids. Hydrogen atoms not attached to oxygen atoms are omitted for clarity. The 9-BBN moleties are displayed in wireframe for clarity.

Compound: (BBNPDP^{tBu})Fe(NHPh)₂

Local Name: jk318

CCDC 1884228

Table S10. Crystallographic parameters for (BBNPDPtBu)Fe(NHPh)2

Crystal data	
Chemical formula	C ₅₃ H ₇₅ B ₂ FeN ₇ ·3(C ₄ H ₈ O)
<i>M</i> _r	1103.98
Crystal system, space group	Monoclinic, P2/c
Temperature (K)	150
a, b, c (Å)	12.0303 (5), 11.0429 (4), 22.8724 (9)
β(°)	94.3767 (15)
V (Å ³)	3029.7 (2)
Z	2
Radiation type	Μο Κα
μ (mm ⁻¹)	0.30
Crystal size (mm)	0.28 × 0.17 × 0.13
Data collection	
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer
Absorption correction	Multi-scan SADABS 2016/2: Krause, L., Herbst-Irmer, R., Sheldrick G.M. & Stalke D., J. Appl. Cryst. 48 (2015) 3-10
T _{min} , T _{max}	0.652, 0.746
No. of measured, independent and observed [/ > 2s(/)] reflections	22161, 8157, 6386
R _{int}	0.031
$(\sin \theta/\lambda)_{max} (\text{\AA}^{-1})$	0.715
Refinement	
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.052, 0.137, 1.07
No. of reflections	8157
No. of parameters	641
No. of restraints	968
H-atom treatment	H atoms treated by a mixture of independent and constrained refinement
Δρ _{max} , Δρ _{min} (e Å ⁻³)	0.59, -0.51

Computer programs: Apex3 v2016.9-0 (Bruker, 2016), SAINT V8.37A (Bruker, 2016), SHELXS97

(Sheldrick, 2008), SHELXL2017/1 (Sheldrick, 2015, 2017), SHELXLE Rev859 (Hübschle et al., 2011).

The main molecule shows minor disorder of the ligand side arm. The two disordered moieties were restrained to have similar geometries. C11 and C11B were constrained to have positions exactly related by the two fold axis bisecting the molecule. The methyl H atoms around C9 were included in the disorder by a 60 degree rotation between major and minor moiety (AFIX 127). The position of the N-bound H atoms H4 and H4B were refined, and the B...H and Fe...H distances in the two moieties were restrained to be similar. U^{ij} components of ADPs for disordered atoms closer to each other than 2.0 Å were restrained to be similar. Subject to these conditions the occupancy ratio refined to 0.9055(19) to 0.0945(19).

Two THF molecules are disordered. One in a general position, and one around a two-fold axis with additional disorder by pseudo-inversion. The disordered moieties of each site were restrained to have similar geometries. U^{ij} components of ADPs for disordered atoms closer to each other than 2.0 Å were restrained to be similar. A mild anti-bumping restraint was applied to keep minor atoms from approaching main molecule H atoms too closely. Subject to these conditions the occupancy ratios refined to 0.728(10) to 0.272(10) for the THF molecule in the general position, and to two times 0.384(4) and two times 0.116(4) for the THF molecule around the two fold axis.



Figure S77. Molecular structure of $(^{BBN}PDP^{tBu})Fe(NHPh)_2$ displayed with 50% probability ellipsoids. Hydrogen atoms not attached to nitrogen atoms are omitted for clarity. The 9-BBN moieties are displayed in wireframe for clarity.

Compound: (BBNPDP^{tBu})Fe(PHPh)₂

Local Name: jk319

CCDC 1884232

Table S11. Crystallographic parameters for (^{BBN}PDP^{tBu})Fe(PHPh)₂

Crystal data	
Chemical formula	C ₅₃ H ₇₄ B ₂ FeN ₅ P ₂ ·3(C ₄ H ₈ O)
<i>M</i> _r	1137.90
Crystal system, space group	Triclinic, $P\overline{1}$
Temperature (K)	150
a, b, c (Å)	10.989 (6), 12.928 (6), 24.431 (11)
α, β, γ (°)	92.678 (16), 91.124 (18), 114.185 (16)
V (Å ³)	3160 (3)
Z	2
Radiation type	Μο Κα
μ (mm ⁻¹)	0.34
Crystal size (mm)	0.20 × 0.18 × 0.15
Data collection	
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer
Absorption correction	Multi-scan SADABS 2016/2: Krause, L., Herbst-Irmer, R., Sheldrick G.M. & Stalke D., J. Appl. Cryst. 48 (2015) 3-10
T _{min} , T _{max}	0.509, 0.745
No. of measured, independent and observed [/ > 2s(/)] reflections	33481, 11734, 4754
R _{int}	0.142
(sin θ/λ) _{max} (Å ⁻¹)	0.610
Refinement	· · · ·
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.130, 0.447, 1.06
No. of reflections	11734
No. of parameters	806
No. of restraints	401
H-atom treatment	H atoms treated by a mixture of independent and constrained refinement
Δρ _{max} , Δρ _{min} (e Å ⁻³)	0.73, -0.87

Computer programs: Apex3 v2017.3-0 (Bruker, 2016), SAINT V8.38A (Bruker, 2016), SHELXS97

(Sheldrick, 2008), SHELXL2018/3 (Sheldrick, 2015, 2018), SHELXLE Rev915 (Hübschle et al., 2011).
The structure exhibits pseudo-symmetry, nearly emulating a double the volume C-centered monoclinic cell in C2/c. The data can be refined in this setting, but R values are about 1/3 larger than in the primitive setting under inclusion of twinning by the monoclinic pseudosymmetry. The structure was refined as twinned by a two-fold rotation around (2 -1 0), with a twin matrix of 1 0 0, -1 -1 0, 0 0 -1. The final twin ratio refined to 0.810(4) to 0.190(4).

The structure exhibits large thermal libration for all atoms and disorder for several of the THF solvate molecules, leading to an intrinsic low resolution and absence of high angle data, and rather high data R values. Refined model R values are in line with the data quality.

P bound H atoms were located in difference density maps and their positions were refined with a P-H bond distance restraint of 1.00(2) Å.

No attempts were made to refine disorder for the main molecule. ADPs indicate a "swinging motion" around the Fe ion in the plane of the coordinated ligand fragment.

Of the four THF molecule sites two are located on inversion centers and two in general positions. The two molecules on inversion points were refined as 1:1 disordered. The two molecules in the general position are related by pseudo-monoclinic symmetry and disorder is highly correlated. One of the two molecules was refined as disordered, the other as not disordered. All THF moleties were restrained to have similar geometries. U^{ij} components of ADPs for disordered atoms closer to each other than 2.0 Å were restrained to be similar. The atoms of the molecules around inversion centers were also restrained to be close to isotropic. A mild anti-bumping restraint was applied to keep disordered H atoms from approaching other atoms too closely. Subject to these conditions the occupancy ratio for the disordered THF molecule in the general position refined to 0.217(19) to 0.783(19).



Figure S78. Molecular structure of (^{BBN}PDP^{tBu})Fe(PHPh)₂ displayed with 50% probability ellipsoids. Hydrogen atoms not attached to phosphorus atoms are omitted for clarity. The 9-BBN moieties are displayed in wireframe for clarity.

Compound: (BBNPDP^{tBu})Fe(SPh)₂

Local Name: jk3188

CCDC 1884229

Table S12. Crystallographic parameters for (^{BBN}PDP^{tBu})Fe(SPh)₂

Crystal data	
Chemical formula	$C_{53}H_{73}B_2FeN_5S_2$
M _r	921.75
Crystal system, space group	Monoclinic, C2/c
Temperature (K)	150
a, b, c (Å)	23.8853 (10), 11.6376 (5), 19.0401 (8)
β (°)	110.8255 (16)
V (Å ³)	4946.8 (4)
Ζ	4
Radiation type	Μο Κα
μ (mm ⁻¹)	0.43
Crystal size (mm)	0.53 × 0.35 × 0.27
Data collection	·
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer
Absorption correction	Multi-scan SADABS 2016/2: Krause, L., Herbst-Irmer, R., Sheldrick G.M. & Stalke D., J. Appl. Cryst. 48 (2015) 3-10
T _{min} , T _{max}	0.674, 0.747
No. of measured, independent and observed [/ > 2s(/)] reflections	35885, 9150, 6037
R _{int}	0.061
(sin θ/λ) _{max} (Å ⁻¹)	0.771
Refinement	·
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.050, 0.141, 1.06
No. of reflections	9150
No. of parameters	289
H-atom treatment	H-atom parameters constrained
Δρ _{max} , Δρ _{min} (e Å ⁻³)	0.76, -0.62

Computer programs: Apex3 v2016.9-0 (Bruker, 2016), SAINT V8.37A (Bruker, 2016), SHELXS97

(Sheldrick, 2008), SHELXL2018/1 (Sheldrick, 2015, 2018), SHELXLE Rev900 (Hübschle et al., 2011).



Figure S79. Molecular structure of (^{BBN}PDP^{tBu})Fe(SPh)₂ displayed with 50% probability ellipsoids. Hydrogen atoms are omitted for clarity. The 9-BBN moieties are displayed in wireframe for clarity.

Compound: (^{BBN}PDP^{tBu})Fe(SPh)₂(NH₃)₂

Local Name: jk4207

CCDC 1884230

Table S13. Crystallographic parameters for (BBNPDP^{tBu})Fe(SPh)₂(NH₃)₂

Crystal data	
Chemical formula	C ₅₃ H ₇₉ B ₂ FeN ₇ S ₂
<i>M</i> _r	955.82
Crystal system, space group	Triclinic, P1
Temperature (K)	150
a, b, c (Å)	8.8548 (4), 17.4697 (7), 17.4739 (8)
α, β, γ (°)	92.316 (3), 99.766 (2), 99.769 (2)
V (Å ³)	2618.6 (2)
Z	2
Radiation type	Cu <i>K</i> α
μ (mm ⁻¹)	3.36
Crystal size (mm)	0.41 × 0.08 × 0.07
Data collection	
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer
Absorption correction	Multi-scan TWINABS 2012/1: Krause, L., Herbst-Irmer, R., Sheldrick G.M. & Stalke D. (2015). J. Appl. Cryst. 48 3-10.
T _{min} , T _{max}	0.131, 0.330
No. of measured, independent and observed [I > 2s(I)] reflections	34295, 10649, 8780
R _{int}	0.077
$(\sin \theta/\lambda)_{max} (Å^{-1})$	0.641
Refinement	
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.119, 0.323, 1.10
No. of reflections	10649
No. of parameters	595
H-atom treatment	H-atom parameters constrained
Δρ _{max} , Δρ _{min} (e Å ⁻³)	3.95, -0.73

Computer programs: Apex3 v2017.3-0 (Bruker, 2017), *SAINT* V8.38A (Bruker, 2016), *SHELXS97* (Sheldrick, 2008), *SHELXL2018*/3 (Sheldrick, 2015, 2018), SHELXLE Rev937 (Hübschle *et al.*, 2011).

The crystal under investigation was found to be twinned by both non-merohedry as well as pseudomerohedry. The orientation matrices for the components related by non-merohedry were identified using the program Cell_Now, with the two components being related by a 180 degree rotation around the real a-axis. The structure was also found to be twinned by perfect pseudo-merohedry, emulating a double volume C-centered lattice. When solved in monoclinic symmetry molecules were systematically disordered in an intricate way with the two moieties related by a two-fold rotation axis. Reduction of symmetry to triclinic (space group group $P\overline{1}$) and application of the twin transformation matrix -1 0 0, 0 0 -1, 0 -1 0 (180 degree rotation around (0 1-1)) resulted in nearly complete disappearance of one of the two disordered moieties ("ghost" electron densities are apparent for the "alternative" positions of the iron and sulfur atoms, but refinement was possible without application of restraints for either geometry or thermal parameters). The triclinic solution, not requiring refinement of disorder, was chosen as the more likely true structure and was used.

Several data processing procedures were tested. In the first procedure, the two components related by non-merohedry were integrated using Saint and corrected for absorption using twinabs, resulting in the following statistics:

14214 data (6765 unique) involve domain 1 only, mean I/sigma 23.0

14181 data (6769 unique) involve domain 2 only, mean I/sigma 16.8

5943 data (3270 unique) involve 2 domains, mean I/sigma 32.7

The exact twin matrix identified by the integration program was found to be:

1.00000 -0.00008 0.00008

-0.67226 -1.00047 -0.00735

-0.66839 0.00736 -0.99948

The structure was solved using direct methods with all non-overlapping reflections of both components. The structure was refined against the same data, under application of the twin matrix -100, 00-1, 0-10 to account for pseudo-merohedric twinning, resulting in a BASF value of 0.512(3), indicating a close to ideally twinned crystal.

Using the non-overlapping reflections of only the first (major) component gave similar results, but R values and overall quality indicators were slightly worse.

In an alternative approach, the data were integrated as a four component twin, with each of the two moieties related by non-merohedry additionally split by application of the twin matrix for pseudomerohedric twinning. Results were, however, of substantially lower quality (R1 values were between 18 and 19%, ADPs less well defined and residuals more pronounced), and this approach was abandoned.

The R_{int} value given is for all reflections and is based on agreement between observed single and composite intensities and those calculated from refined unique intensities and twin fractions (TWINABS (Sheldrick, 2012)).



Figure S80. Molecular structure of (^{BBN}PDP^{tBu})Fe(SPh)₂(NH₃)₂ displayed with 50% probability ellipsoids. Hydrogen atoms not attached to nitrogen atoms are omitted for clarity. The 9-BBN and phenyl moieties are displayed in wireframe for clarity.

Compound: [(^{BBN}PDP^{tBu})Fe(NC)₂]₂

Local Name: jk217

CCDC 1884225

Table S14. Crystallographic parameters for [(^{BBN}PDP^{tBu})Fe(NC)₂]₂

Crystal data		
Chemical formula	$C_{86}H_{126}B_4Fe_2N_{14}\cdot 3.272(CH_2CI_2)$	
M _r	1807.60	
Crystal system, space group	Monoclinic, <i>Cc</i>	
Temperature (K)	100	
a, b, c (Å)	14.7395(8), 31.7053(18), 22.0966(13)	
β (°)	90.451(2)	
V (Å ³)	10325.9(10)	
Ζ	4	
Radiation type	Μο Κα	
μ (mm ⁻¹)	0.51	
Crystal size (mm)	0.54 × 0.52 × 0.39	
Data collection		
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer	
Absorption correction	Multi-scan SADABS 2016/2: Krause, L., Herbst-Irmer, R., Sheldrick G.M. & Stalke D., J. Appl. Cryst. 48 (2015) 3-10	
T _{min} , T _{max}	0.630, 0.747	
No. of measured, independent and observed [I > 2s(I)] reflections	123502, 24774, 23021	
R _{int}	0.043	
(sin θ/λ) _{max} (Å-1)	0.667	
Refinement		
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.063, 0.140, 1.13	
No. of reflections	24774	
No. of parameters	1314	
H-atom treatment	H-atom parameters constrained	
$\Delta \rho_{max}, \Delta \rho_{min}$ (e Å ⁻³)	0.63, -0.52	

Computer programs: Apex3 v2016.9-0 (Bruker, 2016), SAINT V8.37A (Bruker, 2016), SHELXS97

(Sheldrick, 2008), SHELXL2018/1 (Sheldrick, 2015, 2018), SHELXLE Rev900 (Hübschle et al., 2011).

The structure exhibits pseudo-inversion and pseudo-twofold symmetry emulating space group C2/c. The higher symmetry is broken by ordering of the borabicyclononane of B1 and B3.

Refined as an inversion twin.

Dichloromethane solvate molecules are extensively disordered. All methylene chloride moieties were restrained to have similar geometries. U^{ij} components of ADPs were restrained to be similar for atoms closer to each other than 2.0 Å. A weak anti-bumping restraint was applied to keep solvate H atoms from approaching main moiety H atoms too closely. Atoms Cl8 and C92 and atoms Cl16 and C97 were constrained to share a site and ADP. Due to the extensive and sequential disorder no attempts were made to match occupancy rates and occupancies for all solvate molecules were independently refined. Occupancies refined to values between 0.800(6)and 0.059(5).



Figure S81. Molecular structure of $[(^{BBN}PDP^{tBu})Fe(NC)_2]_2$ displayed with 50% probability ellipsoids. Hydrogen atoms are omitted for clarity. The 9-BBN moleties are displayed in wireframe for clarity.

Compound: (^{BBN}PDP^{tBu})Zn(SPh)₂

Local Name: jk3257

CCDC 1884226

Table S15. Crystallographic parameters for (BBNPDP^{tBu})Zn(SPh)₂

Crystal data	
Chemical formula	$C_{53}H_{73}B_2N_5S_2Zn$
M _r	931.27
Crystal system, space group	Monoclinic, C2/c
Temperature (K)	150
a, b, c (Å)	23.8971 (10), 11.5743 (5), 19.0415 (7)
β(°)	110.4440 (14)
V (Å ³)	4935.0 (4)
Z	4
Radiation type	Μο Κα
μ (mm ⁻¹)	0.62
Crystal size (mm)	0.21 × 0.18 × 0.13
Data collection	·
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer
Absorption correction	Multi-scan SADABS 2016/2: Krause, L., Herbst-Irmer, R., Sheldrick G.M. & Stalke D. (2015). J. Appl. Cryst. 48 3-10.
T _{min} , T _{max}	0.718, 0.747
No. of measured, independent and observed [/ > 2s(/)] reflections	146991, 9441, 7807
R _{int}	0.041
$(\sin \theta/\lambda)_{max} (Å^{-1})$	0.771
Refinement	·
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.036, 0.096, 1.05
No. of reflections	9441
No. of parameters	289
H-atom treatment	H-atom parameters constrained
Δρ _{max} , Δρ _{min} (e Å ⁻³)	0.71, -0.58

Computer programs: Apex3 v2016.9-0 (Bruker, 2016), SAINT V8.37A (Bruker, 2016), SHELXS97

(Sheldrick, 2008), *SHELXL2018*/1 (Sheldrick, 2015, 2017), SHELXLE Rev882 (Hübschle *et al.*, 2011).



Figure S82. Molecular structure of (^{BBN}PDP^{tBu})Zn(SPh)₂ displayed with 50% probability ellipsoids. Hydrogen atoms are omitted for clarity. The 9-BBN moieties are displayed in wireframe for clarity.

Compound: $[K(18-crown-6)(THF)]_2[(BBNPDP^{tBu})_2Fe(OPh)_4]$

Local Name: jk337

CCDC 1884222

Table S16. Crystallographic parameters for [K(18-crown-6)(THF)]₂[(^{BBN}PDP^{tBu})₂Fe(OPh)₄]

Crystal data				
Chemical formula	$C_{106}H_{146}B_4FeN_{10}O_4 \cdot 2(C_{16}H_{32}KO_7) \cdot 2(C_4H_8O)$			
<i>M</i> _r	2618.64			
Crystal system, space group	Monoclinic, <i>C</i> 2/ <i>c</i>			
Temperature (K)	150			
a, b, c (Å)	33.6410 (7), 16.3704 (3), 27.3584 (6)			
β (°)	100.166 (1)			
V (Å ³)	14830.2 (5)			
Ζ	4			
Radiation type	Cu <i>K</i> α			
μ (mm ⁻¹)	1.84			
Crystal size (mm)	0.35 × 0.28 × 0.13			
Data collection				
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer			
Absorption correction	Multi-scan SADABS 2016/2: Krause, L., Herbst-Irmer, R., Sheldrick G.M & Stalke D., J. Appl. Cryst. 48 (2015) 3-10			
T _{min} , T _{max}	0.442, 0.754			
No. of measured, independent and observed [I > 2s(I)] reflections	39390, 14541, 13474			
R _{int}	0.040			
(sin θ/λ) _{max} (Å-1)	0.626			
Refinement				
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.073, 0.218, 1.05			
No. of reflections	14541			
No. of parameters	1109			
No. of restraints	1008			
H-atom treatment	H-atom parameters constrained			
	$w = 1/[s^2(F_o^2) + (0.1402P)^2 + 15.7177P]$ where $P = (F_o^2 + 2F_c^2)/3$			
Δρ _{max} , Δρ _{min} (e Å ⁻³)	1.50, -0.86			

Computer programs: Apex3 v2016.9-0 (Bruker, 2016), SAINT V8.37A (Bruker, 2016), SHELXS97

(Sheldrick, 2008), *SHELXL2017*/1 (Sheldrick, 2015, 2017), SHELXLE Rev859 (Hübschle *et al.*, 2011).

Two phenoxy groups, one *tert*-butyl group and the two next neighboring carbon atoms, and two THF molecules were refined as disordered. For all disordered moieties, major and minor moieties were restrained to have similar geometries. U^{ij} components of ADPs for disordered atoms closer to each other than 2.0 Å were restrained to be similar. Subject to these conditions the occupancy ratio refined to 0.687(14) to 0.313(14) and 0.790(6) to 0.210(6) for the two phenoxy groups, to 0.596(18) to 0.404(18) for the *tert*-butyl group, and to 0.703(7) to 0.297(7) and 0.605(10) to 0.395(10) for the two THF molecules.



Figure S83. Anionic portion of the molecular structure of [K(18-crown-6)(THF)]₂[(^{BBN}PDP^{tBu})₂Fe(OPh)₄] displayed with 50% probability ellipsoids. Hydrogen atoms are omitted for clarity. The 9-BBN and phenoxide moieties are displayed in wireframe for clarity.

Compound: (^{butyl}PDP^{tBu})Fe(SPh)₂

Local Name: jk566

CCDC 1903500

Table S17. Crystallographic parameters for (^{butyl}PDP^{tBu})Fe(SPh)₂

Crystal data	
Chemical formula	$C_{39}H_{51}FeN_5S_2$
M _r	709.81
Crystal system, space group	Monoclinic, P2 ₁ /n
Temperature (K)	150
a, b, c (Å)	9.2208 (10), 15.9972 (18), 25.443 (3)
β (°)	93.373 (6)
V (Å ³)	3746.5 (7)
Ζ	4
Radiation type	Cu <i>Κ</i> α
μ (mm ⁻¹)	4.52
Crystal size (mm)	0.21 × 0.06 × 0.02
Data collection	
Diffractometer	Bruker AXS D8 Quest CMOS diffractometer with PhotonII charge- integrating pixel array detector (CPAD)
Absorption correction	Multi-scan SADABS 2016/2: Krause, L., Herbst-Irmer, R., Sheldrick G.M. & Stalke D., J. Appl. Cryst. 48 (2015) 3-10
T _{min} , T _{max}	0.496, 0.754
No. of measured, independent and observed [<i>l</i> > 2s(<i>l</i>)] reflections	20041, 7782, 5293
R _{int}	0.058
(sin θ/λ) _{max} (Å ⁻¹)	0.640
Refinement	
$R[F^2 > 2\sigma(F^2)], wR(F^2), S$	0.061, 0.181, 1.03
No. of reflections	7782
No. of parameters	763
No. of restraints	1218
H-atom treatment	H-atom parameters constrained
$\Delta \rho_{max}, \Delta \rho_{min} (e Å^{-3})$	0.94, -0.43

Computer programs: Apex3 v2017.3-0 (Bruker, 2017), *SAINT* V8.38A (Bruker, 2016), *SHELXS97* (Sheldrick, 2008), *SHELXL2018*/3 (Sheldrick, 2015, 2018), SHELXLE Rev946 (Hübschle *et al.*, 2011).

The alkyl chains on both sides of the molecule are disordered, inducing disorder in large sections of the remainder of the molecule. The two moieties are mutually exclusive with their counterparts in neighbouring molecules, thus making exact 1:1 disorder necessary. The various equivalent fragments of the two disordered moieties were restrained to have each similar geometries. Uij components of ADPs for disordered atoms closer to each other than 2.0 Å were restrained to be similar.



Figure S84. Molecular structure of (^{butyl}PDP^{tBu})Fe(SPh)₂ displayed with 50% probability ellipsoids. Hydrogen atoms are omitted for clarity. The phenyl moieties are displayed in wireframe for clarity.

(^{Bu}PDP^{tBu})FeBr₂ (^{BBN}PDP^{tBu})FeH₂ [K(2,2,2-crypt)][(^{BBN}PDP^{tBu})FeH₂]



Figure S85. Comparison of intraligand bond distances in (^{Bu}PDP^{tBu})FeBr₂, (^{BBN}PDP^{tBu})FeH₂, and [K(2,2,2-crypt)][(^{BBN}PDP^{tBu})FeH₂]. The data for (^{Bu}PDP^{tBu})FeBr₂ is taken from reference 1.

Table S18. Metrical	parameters fo	r hydride	containing	compounds.
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	(^{BBN} PDP ^{tBu})FeH ₂	[K(2,2,2-crypt)][(^{BBN} PDP ^{tBu})FeH ₂]	(^{BBN} PDP ^{tBu})ZnH ₂
M-N _{pyrazole} (Å) 2.174(17)		2.155(6)	2.176(13)
M-N _{pyrazole} (Å)		2.153(6)	
M-N _{pyridine} (Å)	2.178(5)	2.021(6)	2.153(4)
М-В (°)	2.970	2.977	2.977
M-B (°)		3.060	
τ ₅	0.314	0.363	0.374
IR υ(M-H-B) (cm ⁻¹)	1839	1866	1775

	2-NH ₂	2-NHMe	2-NHPh	2-OH	2-PHPh	2-SPh
Fe-N _{pyrazole} (Å)	2.2950(18)	2.327(4)	2.2460(14)	2.2604(16)	2.248(11)	2.2148(13)
Fe-N _{pyrazole} (Å)				2.2812(16)	2.304(12)	
Fe-N _{pyridine} (Å)	2.124(2)	2.168(5)	2.1123(19)	2.1164(15)	2.082(10)	2.1139(18)
Fe-X	2.075(2)	2.111(9)	2.179(3)	1.9812(13)	2.401(3)	2.4134(5)
Fe-X				1.9964(13)	2.414(4)	
B-X	1.633(3)	1.641(11)	1.666(4)	1.592(2)	2.020(14)	2.0504(19)
B-X				1.595(2)	2.009(13)	
Fe-B (Å)	3.349	3.329	3.418	3.343	3.907	3.848
Fe-B (Å)				3.340	3.918	
ΣB _{1α} (°)	325.6(2)	326.4(6)	326.54(18)	321.69(16)	323.9(9)	319.57(12)
ΣB _{2α} (°)				322.34(16)	320.9(9)	
τ ₅	0.02	0.04	0.14	0.35	0.26	0.27

Table S20. Metrical parameters for $(^{BBN}PDP^{tBu})M(SPh)_2$ species.

	2-SPh	(^{BBN} PDP ^{tBu})Fe(SPh) ₂ (NH ₃) ₂	(^{BBN} PDP ^{tBu})Zn(SPh) ₂	(^{butyl} PDP ^{tBu})Fe(SPh) ₂
M-N _{pyrazole} (Å)	2.2148(13)	2.321(5)	2.2508(9)	2.162(5)
M-N _{pyrazole} (Å)		2.346(6)		2.407(9)
M-N _{pyridine} (Å)	2.1139(18)	2.114(5)	2.0998(13)	1.897(10)
M-S	2.4134(5)	2.365(2)	2.3510(3)	2.356(4)
M-S		2.385(2)		2.332(6)
B-X	2.0504(19)	1.670(10)	2.0657(13)	
B-X		1.631(9)	-	
M-S-Ph (°)	90.06(6)	110.0(3)	91.94(4)	113.8(3)
M-S-Ph (°)		111.0(3)		114.0(4)
ΣB _{1α} (°)	319.57(12)	322.8(6)	319.14(8)	
ΣB _{2α} (°)		319.4(6)		
τ ₅	0.27	0.30	0.26	0.61

Compound	Fe-B (Å)	υ(Fe-H-B) (cm⁻¹)	Reference
(^{BBN} PDP ^{tBu})FeH ₂	2.970	1839	This work
[(^{BBN} PDP ^{tBu})FeH ₂] ¹⁻	2.977 / 3.060	1866	This work
(^{BBN} PDP ^{tBu})ZnH₂	2.977	1775	This work
(P ₂ B-H)FeH(CO) ₂	2.743	2080	J. Am. Chem. Soc. 2013 , 135, 12580.
(PNP)FeH(CO)(BH ₄)	2.702	2339	Adv. Synth. Catal. 2016 , 358, 820.
(dmpe) ₂ FeH(BH ₄)	2.826	2030	Inorg. Chim. Acta 1986 , 114, C27.
(PhB(^{mes} IM) ₃)FeHBEt ₃	2.124	Not reported	Organometallics 2015 , 34, 4560.
(PNNNP)FeH(CO)(BH ₄)	2.721	Not reported	Organometallics 2014 , 33, 6905.
(PNP)Fe(CO)H(BH ₄)	2.744	2051	Angew. Chem. Int. Ed. 2013 , 52, 14162.
$(P_2B-H)Fe(N_2R_2)$	2.860	2000	J. Am. Chem. Soc. 2013 , 135, 4938.
$(P_2B-H)Fe(N_2R'_2)$	2.833	2100	J. Am. Chem. Soc. 2013 , 135, 4938.
(P₃B-H)FeH(CN ^t Bu)	2.673	Not reported	Organometallics 2013 , 32, 3053.
(P ₃ B-H)FeH(N ₂)	2.602	Not reported	Organometallics 2013 , 32, 3053.
(P ₃ B-H)FeH(H ₂)	2.628	Not reported	Organometallics 2013 , 32, 3053.
(PNP)FeH(CO)(BH ₄)	2.864	Not reported	Chem. Sci. 2015 , 6, 4291.
(P ₂ B-H)Fe(SPh)	3.018	1949	Organometallics 2015 , 34, 4741.
(P ₂ B-H)Fe(C-N _{chelate})	2.334	2270	Organometallics 2015 , 34, 4741.
(P ₂ B-H)Fe(NH-N _{chelate})	2.966	2130 / 2000	Organometallics 2015 , 34, 4741.
(PNP)FeH(CO)(BH ₄)	2.667	2028	Chem. Eur. J. 2012 , 18, 7196.
(Tm ^{Ph}) ₂ Fe	3.15	2448	Polyhedron 2001 , 20, 1891.
(Tm ^{tBu})₂Fe	3.152	Not assigned	Inorg. Chem. 2006 , 45, 7056.
[κ ³ -H,S,S-Tm ^{tBu})FeCl(py)	2.994	Not assigned	Inorg. Chem. 2006 , 45, 7056.
[P ₃ ^B (μ-H)Fe(H)(CO)] ²⁻	2.785	1760/1824	J. Am. Chem. Soc. 2017 , 139, 2561.
[P ₃ ^B (μ-H)Fe(H) ₂ (CO)] ¹⁻	2.667	1826/1862	J. Am. Chem. Soc. 2017 , 139, 2561.
(P ₃ ^B -H)Fe(CO)	2.650	2588	J. Am. Chem. Soc. 2017 , 139, 2561.
(PNP)FeH(CO)(BH ₄)	2.708 / 2.700	2360	Catal. Sci. Technol. 2016 , 6, 4768.
(H ₂ B(L) ₂)FeH(L-H)	2.658	2385	Chem. Eur. J. 2018 , 24, 1358.
(PNP)FeH(CO)(BH ₄)	2.745	1896	Inorg. Chem. 2014 , 53, 2133.
(PNP)FeH(CO)(BH ₄)	2.749	2038	J. Am. Chem. Soc. 2014 , 136, 7869.
[P ₃ ^B (μ-H)Fe(H)(NNR)] ¹⁻	2.791	2078	Chem. Sci. 2018 , 9, 6264.
P ₃ ^B (μ-H)Fe(NHNR ₂)(CNR)	2.885	2090	Chem. Sci. 2018 , 9, 6264.
[(P ₃ ^B -H)Fe(CNR)] ¹⁺	2.763 / 2.769	2483	Chem. Sci. 2018 , 9, 6264.
(P ₂)Fe(HBR ₂ R')	2.436	Not reported	Organometallics 2017 , 37, 729.
[(L-H)(H₃BL)FeH(CN)]¹-	2.649	2360/2340	Chem. Eur. J. 2018 , 24, 12346.

Table S21. Comparison of literature values for Fe-B distances and v(Fe-H-B) stretching frequencies.

DFT Calculations

Calculations were performed using Gaussian 09 revision D.01.⁸ Calculations of all compounds were performed using the B3LYP functional and an ultrafine integration grid for all atoms. Optimizations were performed in the gas phase with the 6-31g(d) basis set for all atoms followed by vibrational frequency analysis to confirm that local minima were obtained through the absence of imaginary vibrational frequency modes.⁹ Natural bonding orbital analysis and Wiberg bond index analysis were performed using NBO version 3.1.¹⁰ Becke orbital composition analysis¹¹ was performed using Multiwfn version 3.5.¹² Solvation corrections were determined for thermodynamic profiles by the integral-equation-formalism polarizable continuum model (IEFPCM) using a SMD solvation model of THF.¹³

Complex	H(gas)	G(gas)
1 S=0	-3187.480914	-3187.602773
1 S=1	-3187.501231	-3187.627250
1 S=2	-3187.523920	-3187.654000
1 S=3	-3187.462148	-3187.590482
1 ⁻ S=1/2	-3187.563635	-3187.687652
1 ⁻ S=3/2	-3187.707423	-3187.707423
1 ⁻ S=5/2	-3187.698959	-3187.568936
Zn ⁻ S= 1/2	-3703.098298	-3703.226102

Table S22. Spin state configurations



Figure S86. Summary of key bond parameters for the optimized geometries of 1, 1-K(crypt), (^{BBN}PDP^{tBu})ZnH₂, and (^{BBN}PDP^{tBu})ZnH₂⁻



Figure S87. Spin density plots for 1 and 1⁻.



Figure S88. β LUMO at 0.03 au for 1, and β SOMO for 1 $^{\text{-}}$



G









Figure S89. Overlay of XRD (yellow) and optimized geometries (blue) for a) **1**, b) **1-K(crypt)**, c) **2-NH₂** d) **2-NHMe**, e) **2-NHPh**, f) **2-PHPh** g) **2-OH** h) **2-SPh**



Table S23. Summary of thermodynamics for E-BBN binding

Table S24. Summary of NBO charge analysis

Compound	М	E	В	N(Py)
1	1.327	-0.254	0.421	-0.565
1 ⁻	1.256	-0.212	0.361	-0.687
(^{BBN} PDP ^{tBu})ZnH₂ [−]	1.291	-0.287	0.461	-0.553
(^{Me} PDP ^{tBu})FeH ₂	0.742	-0.419		-0.537
H-BBN(CH₃)⁻		-0.081	0.214	
BBN(CH₃)			1.005	
2-NH ₂	1.342	-1.196	0.684	-0.560
2-NHMe	1.372	-1.013	0.684	-0.568
2-NHPh	1.384	-0.966	0.694	-0.573
2-PHPh	1.135	0.264	0.318	-0.565
2-OH	1.359	-0.989	0.800	-0.563
2-SPh	1.160	-0.146	0.650	-0.567
1'	1.045	-0.217	0.389	-0.541
		-0.458	1.031	
2-OH'	1.295	-0.978	0.798	-0.544
		-1.117	1.030	
2-SPh'	1.120	-0.127	0.608	-0.561
		-0.404	1.032	

Compound	M-E	E-B	M-N(Py)	Total	Total	% B-H	% M-H
				Valence E	Valence B		
1	0.18	0.70	0.17	0.91	3.48	74%	19 %
1 ⁻	0.14	0.77	0.30	0.95	3.53	81%	14%
(^{BBN} PDP ^{tBu})ZnH₂	0.22	0.65	0.18	0.92	3.48	71%	24%
(^{Me} PDP ^{tBu})FeH ₂	0.65		0.23	0.73			89%
H-BBN(CH₃) ⁻		0.95		0.99	3.59		
BBN(CH₃)					2.83		
2-NH ₂	0.24	0.66	0.16	2.61	3.28		
2-NHMe	0.18	0.64	0.12	2.72	3.28		
2-NHPh	0.16	0.60	0.13	2.80	3.27		
2-PHPh	0.43	0.85	0.17	3.38	3.57		
2-OH	0.24	0.55	0.16	1.60	3.15		
2-SPh	0.38	0.60	0.16	2.25	3.31		
1'	0.18	0.73	0.19	0.94	3.51		
	0.66	0.00		0.76	2.81		
2-OH'	0.25	0.57	0.17	1.63	3.16		
	0.45	0.00		1.31	2.82		
2-SPh'	0.36	0.64	0.17	2.28	3.36		
	0.50	0.00		1.80	2.81		
(^{Me} PDP ^{tBu})Fe(NH ₂) ₂	0.55		0.35	2.34			
(^{Me} PDP ^{tBu})Fe(NHMe) ₂	0.54		0.41	2.62			
(^{Me} PDP ^{tBu})Fe(NHPh) ₂	0.40		0.18	2.66			
(^{Me} PDP ^{tBu})Fe(PHPh) ₂	0.55		0.18	2.73			
(^{Me} PDP ^{tBu})Fe(OH) ₂	0.40,		0.21	1.34			
	0.52						
(^{Me} PDP ^{tBu})Fe(SPh) ₂	0.50,		0.18	1.86			
	0.57						

Table S25. Summary of Wiberg bond index analysis

		α		β		Orbital Co	mposition β	LUMO
	E	номо	LUMO	номо	LUMO	Fe %	E%	E%
(BBNPDPtBu)Fe(E)2	Н	-5.303	-2.231	-5.204	-2.485	17.1	0.1	0.1
	NH ₂	-4.918	-2.184	-4.917	-2.346	9.6	0.3	0.3
	NHMe	-4.865	-2.163	-4.879	-2.327	10.4	0.1	0.1
	NHPh	-5.048	-2.041	-5.067	-2.294	15.9	0.1	0.1
	PHPh	-5.067	-2.171	-5.222	-2.506	9.5	0.6	0.6
	ОН	-4.925	-2.171	-4.893	-2.332	20.4	0.6	0.6
	SPh	-4.346	-1.766	-4.193	-1.976	15.3	0.4	0.4
	SPh (2-SPh")	-4.535	-1.795	-4.415	-1.997	13.6	0.9	0.9
(^{Me} PDP ^{tBu})Fe(E) ₂	н	-3.930	-1.196	-3.320	-1.492	20.5	0.1	0.1
	NH ₂	-4.437	-0.766	-2.736	-0.877	59.7	4.7	4.7
	NHMe	-4.264	-0.754	-2.784	-0.653	21.5	2.7	1.4
	NHPh	-3.630	-1.668	-3.589	-1.859	7.9	1.0	0.2
	PHPh	-3.831	-0.490	-3.812	-1.929	12.0	1.4	1.1
	ОН	-5.423	-1.018	-3.078	-0.890	14.7	0.4	0.5
	SPh	-5.532	-1.725	-5.031	-2.376	10.6	1.3	0.3

Table S26. Frontier orbital energies (eV) and Becke orbital composition for **1** and **2**-E and analogous $(^{Me}PDP^{tBu})Fe(E)_2$ complexes.

Computational analysis of reduction potentials:

To avoid the reliance on a computational investigation of the reduced forms of synthetically intractable compounds, an analysis of LUMO energies was used as a surrogate for computationally obtained E^0 values.¹⁴ A single case of each heteroatom (excluding the fluctional **2-SPh**) was analyzed by a computationally determined $E^{0.15}$ A correction of -0.56 V was used to correct from potentials vs SCE to Fc.¹⁶

The trend in DFT calculated E^0 values for the investigated subset shows β LUMO as a fair surrogate for the calculated E^0 (Figure S90). High level dispersion corrected DFT calculations for the compounds were cost prohibitive and the relative position of E^0 (DFT) is higher than anticipated by experiment. This a common problem for anions without modeled dispersion.¹⁵ The relative differences in E^0 (DFT) are more illustrative of the analysis and provide similar output to the β LUMO (Figures S91 and S92). The experimental $E^{1/2}$ of **2-OH** is quasireversable and presents a second source of uncertainty and could be a potential source of disagreement in the relative ordering of **2-NH₂** and **2-OH**.

Molecule	Charg.	H(SCF) (eV)	G(Solv) (kcal/mol)	H(SCF) + G(Solv) (eV)	∆ (eV)	ZPE-Entropy correction (eV)	E ⁰ (calc) V (vs. Fc/Fc⁺)	E _{1/2} , V (vs. Fc/Fc ⁺)
(^{BBN} PDP ^{tBu})Fe(H) ₂	0	-86736.988	25.50	-86735.892				
	-1	-86738.493	6.83	-86738.200	-2.308	-0.088	-2.594	-2.06
(^{BBN} PDP ^{tBu})Fe(NH ₂) ₂	0	-89750.909	29.07	-89749.659				
	-1	-89752.085	11.91	-89751.573	-1.913	-0.130	-2.947	-2.12
(^{BBN} PDP ^{tBu})Fe(OH) ₂	0	-90833.656	30.76	-90832.333				
	-1	-90834.880	10.91	-90834.410	-2.077	-0.116	-2.797	-2.12
(^{BBN} PDP ^{tBu})Fe(PHPh) ₂	0	-117916.663	41.65	-117914.872				
	-1	-117918.282	24.62	-117917.224	-2.351	-0.112	-2.527	-1.96

Table S27. Energies for the calculation of E⁰vs Fc for 1 and 2-E.



Figure S90. LUMO β energy (eV) vs E⁰ (calc) V (vs. Fc/Fc⁺) for **1** and **2-E**.



Figure S91. LUMO β energy (eV) vs E_{1/2} (expt.) V (vs. Fc/Fc⁺) for **1** and **2-E**.



Figure S92. E^0 (calc) V (vs. Fc/Fc⁺) vs $E_{1/2}$ (expt.) V (vs. Fc/Fc⁺) for 1 and 2-E.



Figure S93. Figure of β LUMO at 0.03 au for **1**, **2**-**E** and analogous (^{Me}PDP^{tBu})M(E)₂ complexes.

Optimized Geometries

1 S=2			
Fe	8.59011200	10.67666900	-0.71950800
Ν	10.11120900	12.19601300	-0.71848500
С	10.14848600	13.09116300	0.28581700
С	11.11999900	14.09672700	0.31534000
Н	11.14679800	14.81470100	1.12757500
С	12.05747000	14.13987200	-0.71711400
Н	12.82597400	14.90743100	-0.71657400
С	9.12648500	12.86075300	1.30933600
С	8.75630600	13.55234100	2.47141800
Н	9.14715200	14.49151200	2.82942500
С	7.74651900	12.79412000	3.06397400
С	6.90801300	13.15284600	4.28764300
С	7.44232600	14.47526600	4.88036400
Н	6.84231400	14.75064200	5.75391100
Н	7.37697400	15.29793600	4.16023000
Н	8.48402800	14.37985800	5.20680300
С	5.43631700	13.37994900	3.86083800
Н	4.84340900	13.68949700	4.72935800
Н	4.97566900	12.47735100	3.44881500
Н	5.36589200	14.16519800	3.10080500
С	6.97986300	12.07924700	5.39818500
Н	6.44988300	12.44184700	6.28637700
Н	8.01710900	11.87317200	5.68386100
Н	6.51576700	11.13571300	5.10323100
N	8.38680300	11.74675000	1.18422000
Ν	7.57061400	11.70116700	2.25193800
С	6.84548100	10.43255800	2.44719800
Н	6.54416500	10.11027900	1.44930600
Н	5.93782500	10.64798000	3.01257700
С	7.69333000	9.35223800	3.14098900
Н	7.04501900	8.46698800	3.19486000
Н	7.86394300	9.66700700	4.17969600
С	9.03032800	8.97596100	2.47052700
Н	9.52760100	8.30420000	3.18646900
Н	9.68189300	9.86389700	2.44753600
В	9.01923800	8.21196800	1.02228200
Н	8.71823000	9.10986100	0.06712400
С	7.92691000	7.01763900	0.83298300
Н	6.90079900	7.33889900	1.08080700
С	8.28409500	5.88935300	1.83914900
Н	8.12705700	6.27774000	2.85629100
Н	7.58726700	5.04154200	1.73503700
С	9.72985000	5.34962900	1.74019000
H	9.79079500	4.63365200	0.91386000
н	9.95466100	4.76290900	2.64297000

С	10.81931900	6.43323400 1.56107900
Н	11.75562900	5.93949400 1.25233100
Н	11.03337000	6.87897800 2.54251600
С	10.45904700	7.58078600 0.57877400
Н	11.27805400	8.31846700 0.65396100
С	10.41377000	7.11784200 -0.89664900
Н	11.36185500	6.63507600 -1.18875600
Н	10.33241200	8.01804500 -1.52277500
С	9.25065000	6.16378400 -1.25429600
Н	9.14867900	6.11496500 -2.34992100
Н	9.51473700	5.14485600 -0.95309300
С	7.88378800	6.53969000 -0.63689900
н	7.43744800	7.35324600 -1.22912800
Н	7.20117100	5.68210200 -0.75510700
С	11.00712200	12.23288300 -1.72212100
С	12.01390000	13.20317700 -1.75025400
н	12.73248500	13.22965700 -2.56196000
С	10.77620200	11.21186100 -2.74650400
C	11.46822600	10.84159300 -3.90829600
Н	12.40815100	11.23152100 -4.26532400
С	10.70921800	9.83313300 -4.50210000
C	11.06782600	8.99504700 -5.72609400
C	12.39134000	9.52815900 -6.31745400
Н	12.66663600	8.92842200 -7.19121500
н	13.21339100	9.46129800 -5.59675200
н	12.29744900	10.57020500 -6.64323600
С	11.29281500	7.52277100 -5.30017600
н	11.60232100	6.93011700 -6.16888300
н	10.38934000	7.06291400 -4.88919300
н	12.07738500	7.45084800 -4.53958200
С	9.99513800	9.06900600 -6.83738000
Н	10.35774500	8.53921300 -7.72568100
н	9.79055000	10.10670800 -7.12247000
н	9.05081600	8.60585900 -6.54345500
N	9.66119400	10.47346700 -2.62272300
N	9.61542600	9.65804100 -3.69101900
С	8.34611000	8.93453500 -3.88771700
Н	8.02276200	8.63282000 -2.89029100
н	8.56088000	8.02707500 -4.45365300
С	7.26729300	9.78419400 -4.58162200
Н	6.38143800	9.13683300 -4.63698600
н	7.58319600	9.95557200 -5.61985900
С	6.89174400	11.12085400 -3.91008200
H	6.22095200	11.61946600 -4.62600100
н	7.78025500	11.77158700 -3.88580400
В	6.12674500	11.10899100 -2.46237500
н	7.02380500	10.80653000 -1.50686800
С	4.93154500	10.01732100 -2.27483400

Н	5.25225600	8.99121000	-2.52337200
С	3.80415600	10.37618600	-3.28141500
Н	4.19308600	10.21978400	-4.29844800
Н	2.95579900	9.67985000	-3.17846900
С	3.26536300	11.82222700	-3.18152700
Н	2.54887800	11.88293100	-2.35561900
Н	2.67940200	12.04824800	-4.08449700
С	4.34960700	12.91078300	-3.00072300
Н	3.85631300	13.84715800	-2.69145800
Н	4.79613900	13.12540800	-3.98167700
С	5.49626500	12.54883800	-2.01799400
Н	6.23456200	13.36740100	-2.09196700
С	5.03232900	12.50255900	-0.54291700
Н	4.55003600	13.45071700	-0.25027000
Н	5.93207200	12.42001400	0.08371500
С	4.07723000	11.33978200	-0.18694200
Н	4.02761000	11.23686700	0.90855900
Н	3.05868700	11.60484400	-0.48858200
С	4.45260600	9.97321100	-0.80530400
Н	5.26546400	9.52578100	-0.21293800
Н	3.59447000	9.29108100	-0.68826800

1 S=0			
Fe	8.32216900	10.40822400	-0.71927500
Ν	9.64600400	11.73345200	-0.71993100
С	9.68449200	12.63497900	0.29368000
С	10.65650100	13.63583400	0.31491600
Н	10.68100600	14.35504400	1.12635100
С	11.59273200	13.68123700	-0.72049300
Н	12.36023100	14.44914100	-0.72071000
С	8.64332500	12.35063100	1.27052300
С	8.20716800	12.88996800	2.49272200
н	8.57320600	13.77848100	2.98173000
С	7.18112100	12.06237200	2.93831200
C	6.29233000	12.24983000	4.16336700
C	6.77208400	13.49997000	4.93232600
Н	6.13216200	13.65727400	5.80689800
Н	6.71703000	14.40143500	4.31283400
н	7.80210100	13,38412100	5,28755600
C	4.82849800	12,48916500	3,71992100
н	4,19762600	12,66026300	4,60012400
н	4.41418900	11.63553200	3,17480100
н	4 75402300	13 36655200	3 06913700
C	6 35578100	11 04695200	5 13300200
н	5 81024200	11 29133900	6 05171100
н	7.38963200	10.80828800	5.40443200
н	5 89828800	10 14833900	4 71269600
N	7,91142800	11,26147500	0.97598800
N	7.04037400	11.07648600	1,98290300
C	6.39302400	9,75552100	1,99305000
H	6.20754500	9.53005400	0.93876600
Н	5.41609700	9.84774600	2.47126300
C	7.25635100	8.66108800	2.65383700
H	6.87590500	7,70003600	2,28179400
н	7.04524100	8,66995900	3,73034900
C	8.78003200	8.76355100	2.42837600
Н	9.21657200	8.10930700	3.19569100
Н	9.11429900	9.76857800	2.72851000
В	9.48065800	8.30967100	1.02421100
Н	9.16376500	9.17938600	0.02750900
C	9.09451100	6.82516400	0.47184900
H	8.00735200	6.68174900	0.33482700
C	9.52634200	5.80947500	1.56733300
H	8.89138500	5.96517500	2.45037200
Н	9.32161100	4.77883900	1.23446900
C	11.01127600	5.89519500	1.99767400
- H	11.62150200	5.34055500	1.27767500
Н	11.13632900	5.35756300	2.94879900
C	11.58201400	7.32807600	2.15315500
H	12.68239500	7.26327100	2.15923000

Н	11.30775100	7.71009200 3.14543200
С	11.10912700	8.35951400 1.08921700
Н	11.47550000	9.34348100 1.42873700
С	11.73237000	8.10375600 -0.30122900
Н	12.83357900	8.09652400 -0.24280800
н	11.47090700	8.94988700 -0.95112400
С	11.27122100	6.80013900 -0.98696300
Н	11.56744600	6.82698900 -2.04641400
н	11.81692600	5.95194400 -0.56161600
С	9.75139400	6.53512700 -0.89930600
н	9.25812600	7.16841300 -1.64693200
н	9.55748400	5.49533600 -1.21180500
С	10.54720300	11.77214800 -1.73382000
С	11.54754700	12.74467100 -1.75561000
н	12.26651800	12.76932200 -2.56725100
С	10.26316500	10.73054000 -2.71028800
С	10.80214200	10.29471800 -3.93276600
н	11.69013800	10.66134700 -4.42226900
С	9.97493300	9.26817700 -4.37794000
С	10.16235900	8.37948400 -5.60307400
С	11.41165600	8.86018300 -6.37281000
н	11.56891200	8.22036400 -7.24746500
н	12.31354900	8.80583300 -5.75387800
н	11.29479600	9.89010400 -6.72798600
С	10.40312600	6.91587600 -5.15965400
н	10.57428900	6.28508000 -6.03989800
н	9.55010700	6.50091300 -4.61406800
н	11.28090900	6.84216800 -4.50931200
С	8.95885800	8.44189700 -6.57199500
Н	9.20313100	7.89646700 -7.49079800
н	8.71921200	9.47553400 -6.84337500
н	8.06085900	7.98373100 -6.15111200
Ν	9.17462000	9.99796600 -2.41518200
Ν	8.98958600	9.12687300 -3.42206800
С	7.66910800	8.47850000 -3.43144200
Н	7.44427800	8.29304600 -2.37703400
Н	7.76187000	7.50154900 -3.90950100
С	6.57360400	9.34079000 -4.09186200
Н	5.61307100	8.96006500 -3.71877000
Н	6.58167800	9.12897200 -5.16824400
С	6.67547600	10.86464600 -3.86744300
Н	6.02076700	11.30052000 -4.63474000
Н	7.68027300	11.19916600 -4.16808400
В	6.22179800	11.56551400 -2.46340400
Н	7.08948900	11.24491100 -1.46590700
С	4.73640800	11.18104800 -1.91209300
Н	4.59153000	10.09400100 -1.77587300
С	3.72182500	11.61499500 -3.00777200

3.87678400	10.98005000	-3.89094900
2.69073500	11.41184300	-2.67533900
3.81014300	13.09992000	-3.43765100
3.25611600	13.71086100	-2.71778300
3.27321700	13.22610100	-4.38902700
5.24400500	13.66842000	-3.59219900
5.18092000	14.76890200	-3.59823600
5.62626600	13.39360400	-4.58423000
6.27393400	13.19383100	-2.52754900
7.25864000	13.55912800	-2.86611000
6.01772600	13.81700900	-1.13713900
6.01147400	14.91823800	-1.19538400
6.86320100	13.55474800	-0.48676000
4.71331200	13.35687300	-0.45219100
4.74000500	13.65264800	0.60738700
3.86583600	13.90359000	-0.87767400
4.44674600	11.83737300	-0.54062700
5.07932900	11.34294500	0.20687300
3.40667300	11.64441700	-0.22847900
	3.87678400 2.69073500 3.81014300 3.25611600 3.27321700 5.24400500 5.18092000 5.62626600 6.27393400 7.25864000 6.01772600 6.01147400 6.01147400 6.86320100 4.71331200 4.74000500 3.86583600 4.44674600 5.07932900 3.40667300	3.8767840010.980050002.6907350011.411843003.8101430013.099920003.2561160013.710861003.2732170013.226101005.2440050013.668420005.1809200014.768902005.6262660013.393604006.2739340013.193831007.2586400013.559128006.0177260013.817009006.0114740014.918238006.8632010013.554748004.7400050013.652648003.8658360013.903590004.4467460011.837373005.0793290011.342945003.4066730011.64441700

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N 10.13489400 12.21804300 -0.71435000 C 10.17812800 13.16638000 0.29822000 C 11.14344800 14.15682400 0.30904500 H 11.15389100 14.8878500 1.11205300 C 12.11633100 14.9545000 -0.70891200 H 12.88383600 14.96138200 -0.70891200 C 8.73120900 13.58502900 2.45410500 H 9.09435400 14.52596500 2.8350600 C 7.71626800 12.8068500 2.9955900 C 6.83988700 13.14114000 4.20466200 C 7.30737900 14.48944100 4.79593100 H 6.67544600 14.74961000 5.65160000 H 8.3434700 13.60433200 4.6041400 H 8.34344700 13.60383200 4.60341200 H 4.74879400 13.60383200 4.6034200 H 4.94928700 12.37989500 3.4318200 H 5.28197400 14.07625	Fe	8.69898900	10.78525800	-0.71820800
C 10.17812800 13.16638000 0.29822000 C 11.14344800 14.15682400 0.30904500 H 11.15389100 14.8785900 1.11205300 C 12.11633100 14.96138200 -0.70881500 C 9.16091300 12.92802100 12.8893800 C 8.73120900 13.58502900 2.45410500 C 8.73120900 13.14114000 4.20466200 C 7.71626800 12.8068500 2.9955900 C 6.8398700 13.1411400 4.20466200 C 7.30737900 14.43944100 4.79593100 H 6.67544600 14.74961000 5.65160000 H 7.22931500 15.3051300 4.06441400 K 8.3434700 14.3805400 5.14841400 C 5.36840500 12.37989500 3.34318200 H 4.74879400 13.03494900 5.2983000 H 6.3748600 12.215700 5.63539000 H 6.50923500 1.11916700	Ν	10.13489400	12.21804300	-0.71435000
C11.1434480014.156824000.30904500H11.1538910014.887859001.11205300C12.1163310014.9545000-0.7081500C9.1609130012.928021001.28893800C8.7312090013.585029002.45410500H9.0943540014.525965002.83506000C7.7162680012.806685002.99955900C6.839870013.141140004.20466200C7.3073790014.489441004.79593100H6.6754460014.749610005.6160000H7.2293150015.300513004.0641400H8.3434470014.38054005.14841400C5.3684050013.30494003.74980500H4.7487940013.603832004.60341200H4.9492870012.379895003.34318200H6.374860012.436382006.20482700H6.374860012.436382006.20482700H6.509235001.119167005.63539000N8.4259100011.800473001.11603900N8.425910001.122956002.16907400C6.9179460010.422049003.2502600H6.621318009.401729003.1329700H7.197364008.50572003.2687900H9.664462008.35899003.10367700H9.65871008.212027000.9284200H9.65871007.40556001.08491600C9.87674007.10055700.8	С	10.17812800	13.16638000	0.29822000
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C 9.16091300 12.92802100 1.28893800 C 8.73120900 13.58502900 2.45410500 H 9.09435400 14.52596500 2.83506000 C 7.71626800 12.80668500 2.99955900 C 6.83988700 13.14114000 4.20466200 C 7.30737900 14.48944100 4.79593100 H 6.67544600 14.74961000 5.65160000 H 7.22931500 15.30051300 4.06441400 H 8.34344700 14.43805400 5.14841400 C 5.36840500 13.30494900 3.74980500 H 4.74879400 13.60383200 4.60341200 H 4.94928700 12.37989500 3.34318200 H 5.28197400 14.07625200 2.97732400 C 6.93282700 12.08354300 5.3298300 H 6.50923500 11.19216700 5.646300 N 8.42591000 1.8047300 1.11603900 N 7.55754600 1.72295600 <td>н</td> <td>12.88383600</td> <td>14.96138200</td> <td>-0.70681500</td>	н	12.88383600	14.96138200	-0.70681500
C 8.73120900 13.58502900 2.45410500 H 9.09435400 14.52596500 2.83506000 C 7.71626800 12.80668500 2.99955900 C 6.83988700 13.14114000 4.20466200 C 7.30737900 14.48944100 4.79593100 H 6.67544600 14.74961000 5.65160000 H 7.22931500 15.30051300 4.06441400 H 8.34344700 14.43805400 5.14841400 C 5.36840500 13.30494900 3.74980500 H 4.74879400 13.60383200 4.60341200 H 4.94928700 12.37989500 3.34318200 H 5.28197400 14.07625200 2.97732400 C 6.93282700 12.08354300 5.3298300 H 6.37486000 12.43638200 6.20482700 H 6.50923500 11.1916700 5.04068300 N 7.55754600 1.72295600 1.41280200 C 6.91794600 10.42204900	С	9.16091300	12.92802100	1.28893800
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C 7.71626800 12.80668500 2.99955900 C 6.83988700 13.14114000 4.20466200 C 7.30737900 14.48944100 4.79593100 H 6.67544600 14.74961000 5.65160000 H 7.22931500 15.30051300 4.06441400 H 8.34344700 14.43805400 5.14841400 C 5.36840500 13.30494900 3.74980500 H 4.74879400 13.60383200 4.60341200 H 4.94928700 12.37985500 3.34318200 H 5.28197400 14.07625200 2.97732400 C 6.93282700 12.43638200 6.20482700 H 7.9725600 11.92157900 5.63539000 H 6.50923500 11.11916700 5.04068300 N 8.42591000 11.80047300 1.41280200 H 6.62131800 10.04985700 1.41280200 K 6.3099000 10.59581500 2.96084000 C 9.12975800 9.01892000	Н	9.09435400	14.52596500	2.83506000
C 6.83988700 13.14114000 4.20466200 C 7.30737900 14.48944100 4.79593100 H 6.67544600 14.74961000 5.65160000 H 7.22931500 15.30051300 4.06441400 H 8.34344700 14.43805400 5.14841400 C 5.36840500 13.30494900 3.74980500 H 4.74879400 13.60383200 4.60341200 H 4.94928700 12.37989500 3.34318200 H 5.28197400 14.07625200 2.97732400 C 6.93282700 12.43638200 6.20482700 H 6.37486000 12.43638200 6.20482700 H 7.97225600 11.92157900 5.63539000 H 6.50923500 11.11916700 5.04068300 N 8.42591000 11.8047300 1.11603900 N 7.55754600 10.72295600 2.16907400 C 6.91794600 10.42204900 2.39578600 H 6.00099000 10.595815	C	7,71626800	12,80668500	2,99955900
C 7.30737900 14.48944100 4.79593100 H 6.67544600 14.74961000 5.65160000 H 7.22931500 15.30051300 4.06441400 H 8.34344700 14.43805400 5.14841400 C 5.36840500 13.30494900 3.74980500 H 4.74879400 13.60383200 4.60341200 H 4.94928700 12.37989500 3.34318200 H 5.28197400 14.07625200 2.97732400 C 6.93282700 12.43638200 6.20482700 H 6.37486000 12.43638200 6.20482700 H 7.97225600 11.92157900 5.63539000 H 6.50923500 11.11916700 5.04068300 N 8.42591000 11.80047300 1.11603900 N 7.55754600 10.72295600 2.16907400 C 6.91794600 10.42204900 2.39578600 H 6.0099000 10.59581500 2.96084000 C 7.81808400 9.4017290	C	6 83988700	13 14114000	4 20466200
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H7.2233130014.3305313004.30441400H8.3434470014.438054005.14841400C5.3684050013.304949003.74980500H4.7487940013.603832004.60341200H4.9492870012.379895003.34318200H5.2819740014.076252002.97732400C6.9328270012.083543005.32983000H6.3748600012.436382006.20482700H7.9722560011.921579005.63539000H6.5092350011.119167005.04068300N8.4259100011.800473001.11603900N7.5575460011.722956002.16907400C6.9179460010.422049002.39578600H6.6213180010.049857001.41280200H6.0009900010.595815002.96084000C7.818084009.401729003.11329700H7.197364008.505722003.25202600H8.031390009.781816004.12098100C9.129758009.018920002.40261800H9.664462008.358999003.10367700H9.777412009.903994002.32687900B9.058871008.212027000.99284200H8.756189007.465566001.08491600C7.897674007.100657000.80011900H6.897630007.465566001.08491600C7.897674005.95277001.79997800H8.132563006.34894900	н	7 22931500	15 30051300	4 06441400
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C3.364030013.304949003.74980300H4.7487940013.603832004.60341200H4.9492870012.379895003.34318200H5.2819740014.076252002.97732400C6.9328270012.083543005.32983000H6.3748600012.436382006.20482700H7.9722560011.921579005.63539000H6.5092350011.119167005.04068300N8.4259100011.800473001.11603900N7.5575460011.722956002.16907400C6.9179460010.422049002.39578600H6.6213180010.049857001.41280200H6.0009900010.595815002.96084000C7.818084009.401729003.11329700H7.197364008.505722003.25202600H8.031390009.781816004.12098100C9.129758009.018920002.40261800H9.664462008.358999003.10367700H9.777412009.90394002.32687900B9.058871008.212027000.99284200H8.756189009.208688000.00139000C7.897674007.100657000.80001900H6.897630007.465566001.08491600C8.242487005.955277001.79997800H9.664741004.639633000.82564700H9.664741004.639633000.82564700H9.664741004.63963300 <td>C C</td> <td>5.34344700 5.26940500</td> <td>12 20/0/000</td> <td>2 7/090500</td>	C C	5.34344700 5.26940500	12 20/0/000	2 7/090500
H4.7487540015.003832004.00341200H4.9492870012.379895003.34318200H5.2819740014.076252002.97732400C6.9328270012.083543005.32983000H6.3748600012.436382006.20482700H7.9722560011.921579005.63539000H6.5092350011.119167005.04068300N8.4259100011.800473001.11603900N7.5575460011.722956002.16907400C6.9179460010.422049002.39578600H6.6213180010.049857001.41280200H6.0009900010.595815002.96084000C7.818084009.401729003.11329700H7.197364008.505722003.25202600H8.031390009.781816004.12098100C9.129758009.018920002.40261800H9.664462008.358999003.10367700H9.777412009.90394002.32687900B9.058871008.212027000.99284200H8.756189009.208688000.00139000C7.897674007.100657000.80001900H6.897630007.465566001.08491600C8.242487005.955277001.79997800H8.132563005.143134001.71247800C9.659230005.354482001.65438400H9.664741004.639633000.82564700H9.884871004.75712900 <td>L L</td> <td>3.30840300</td> <td>12 60202200</td> <td>3.74980300</td>	L L	3.30840300	12 60202200	3.74980300
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H5.2819740014.076252002.97752400C6.9328270012.083543005.32983000H6.3748600012.436382006.20482700H7.9722560011.921579005.63539000H6.5092350011.119167005.04068300N8.4259100011.800473001.11603900N7.5575460011.722956002.16907400C6.9179460010.422049002.39578600H6.6213180010.049857001.41280200H6.0009900010.595815002.96084000C7.818084009.401729003.11329700H7.197364008.505722003.25202600H8.031390009.781816004.12098100C9.129758009.018920002.40261800H9.664462008.358999003.10367700H9.777412009.903994002.32687900B9.058871008.212027000.99284200H8.756189009.208688000.00139000C7.897674007.100657000.80001900H6.897630007.465566001.08491600C8.242487005.955277001.79997800H7.503385005.143134001.71247800C9.659230005.354482001.65438400H9.664741004.639633000.82564700H9.884871004.757129002.54941000C10.787151006.391562001.44670500H11.692000005.86518900 <td></td> <td>4.94926700</td> <td>12.57989500</td> <td>3.34318200</td>		4.94926700	12.57989500	3.34318200
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H6.6213180010.049857001.41280200H6.0009900010.595815002.96084000C7.818084009.401729003.11329700H7.197364008.505722003.25202600H8.031390009.781816004.12098100C9.129758009.018920002.40261800H9.664462008.358999003.10367700H9.777412009.903994002.32687900B9.058871008.212027000.99284200H8.756189009.208688000.00139000C7.897674007.100657000.80001900H6.897630007.465566001.08491600C8.242487005.955277001.79997800H8.132563006.348949002.82058700H7.503385005.143134001.71247800C9.659230005.354482001.65438400H9.664741004.639633000.82564700H9.884871004.757129002.54941000C10.787151006.391562001.44670500H11.692000005.865189001.10360700	С	6.91794600	10.42204900	2.39578600
H6.0009900010.595815002.96084000C7.818084009.401729003.11329700H7.197364008.505722003.25202600H8.031390009.781816004.12098100C9.129758009.018920002.40261800H9.664462008.358999003.10367700H9.777412009.903994002.32687900B9.058871008.212027000.99284200H8.756189009.208688000.00139000C7.897674007.100657000.80001900H6.897630007.465566001.08491600C8.242487005.955277001.79997800H8.132563006.348949002.82058700H7.503385005.143134001.71247800C9.659230005.354482001.65438400H9.664741004.639633000.82564700H9.884871004.757129002.54941000C10.787151006.391562001.44670500H11.692000005.865189001.10360700	Н	6.62131800	10.04985700	1.41280200
C7.818084009.401729003.11329700H7.197364008.505722003.25202600H8.031390009.781816004.12098100C9.129758009.018920002.40261800H9.664462008.358999003.10367700H9.777412009.903994002.32687900B9.058871008.212027000.99284200H8.756189009.208688000.00139000C7.897674007.100657000.80001900H6.897630007.465566001.08491600C8.242487005.955277001.79997800H8.132563006.348949002.82058700H7.503385005.143134001.71247800C9.659230005.354482001.65438400H9.664741004.639633000.82564700H9.884871004.757129002.54941000C10.787151006.391562001.44670500H11.692000005.865189001.10360700	Н	6.00099000	10.59581500	2.96084000
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H9.664462008.358999003.10367700H9.777412009.903994002.32687900B9.058871008.212027000.99284200H8.756189009.208688000.00139000C7.897674007.100657000.80001900H6.897630007.465566001.08491600C8.242487005.955277001.79997800H8.132563006.348949002.82058700H7.503385005.143134001.71247800C9.659230005.354482001.65438400H9.664741004.639633000.82564700H9.884871004.757129002.54941000C10.787151006.391562001.44670500H11.692000005.865189001.10360700	С	9.12975800	9.01892000	2.40261800
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N 18.02429900 12.73454900 -0.08490600 N 17.07838000 10.77536700 -1.45951100 N 16.69462500 9.79941800 -2.32243200 N 17.06921600 12.66049000 2.30333200 N 16.67165600 12.77169700 3.59730400 C 19.4683200 13.63852400 -1.35659900 C 19.44683200 13.80861700 0.69873100 C 18.03504900 14.78122400 0.2396600 C 18.03504900 14.7812200 -2.68084200 C 18.37741500 9.86402400 -3.4916800 C 17.36910500 8.7427300 -4.62444400 C 18.37741400 9.26157400 -5.71608100 C 15.46976200 9.07966300 -1.95815300 C 15.46976200 9.79496300 -1.02367400 C 13.76399000 11.21921500 -1.72367400 C 13.6399900 11.2924500 -33714500 C 13.455200	Fe	16.75353600	11.33465700	0.61330200
N 17.07838000 10.77536700 -1.45951100 N 16.69462500 9.79941800 -2.32243200 N 17.06921600 12.66049000 2.30333200 N 16.67165600 12.77169700 3.59730400 C 19.55635200 12.63852400 -1.35659900 C 19.44683200 13.57871600 -1.85307600 C 19.81831600 14.67505800 -1.05421600 C 19.81831600 14.78122400 0.2396600 C 18.4088000 13.80861700 0.69873100 C 18.3504900 11.49460800 -2.08084200 C 18.37941500 9.86402400 -3.49168000 C 17.36910500 8.4272300 -4.6244400 C 18.37741400 9.26157400 -5.71608100 C 15.97683000 8.74609700 -2.33724500 C 15.46976200 9.07966301 -1.95815300 C 13.6359900 11.21921500 -1.7267400 C 15.46976200	Ν	18.02429900	12.73454900	-0.08490600
N 16.69462500 9.79941800 -2.32243200 N 17.06921600 12.6049000 2.30333200 N 16.67165600 12.77169700 3.59730400 C 18.55635200 12.63852400 -1.35659900 C 19.44683200 13.57871600 -1.85307600 C 19.81831600 14.67505800 -1.05421600 C 19.81831600 14.67505800 -1.05421600 C 19.27596800 14.78122400 0.23966600 C 18.03504900 11.49460800 -2.08084200 C 18.03504900 11.49460800 -3.3576600 C 17.41654600 9.86402400 -3.49168000 C 17.36910500 8.84272300 -4.62444400 C 17.36910500 8.74609700 -5.29055900 C 15.9768300 8.74609700 -5.29055900 C 15.46976200 9.07966300 -1.72367400 C 13.6939900 11.21921500 -1.72367400 C 13.7485200	Ν	17.07838000	10.77536700	-1.45951100
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N16.6716560012.771697003.59730400C18.5563520012.63852400-1.35659900C19.4468320013.57871600-1.85307600C19.8183160014.67505800-1.05421600C19.2759680014.781224000.23966600C18.4008800013.808617000.69873100C18.0350490011.49460800-2.08084200C18.3794150010.94466000-3.35760600C17.369105008.84272300-4.62444400C17.369105008.84272300-5.29055900C15.976830008.74609700-5.29055900C15.976830008.74609700-5.29055900C15.969762009.07966300-1.95815300C13.963990011.21921500-1.72367400C13.963990011.21921500-1.72367400C13.625510010.3805800-0.01467300C13.741700011.79497000.10466700C13.625510012.830752000.37119800C13.1435220012.9121500-1.91179000C13.143520012.928962001.91179000C12.8131750010.356491002.12881100C17.8660590014.582951003.16199800C17.8660590014.582951003.1619800C17.8660590014.582951003.1619800C17.8660590013.554359006.68564100C17.8660590015.53247004.7074600C	Ν	17.06921600	12.66049000	2.30333200
C18.5563520012.63852400-1.35659900C19.4468320013.57871600-1.85307600C19.8183160014.67505800-1.05421600C19.2759680014.781224000.23966600C18.4008800013.808617000.69873100C18.0350490011.49460800-2.08084200C18.2794150010.94466000-3.35760600C17.416546009.86402400-3.49168000C17.369105008.84272300-4.62444400C18.377414009.26157400-5.71608100C17.95122007.45192200-4.09263200C15.976830008.74609700-5.29055900C15.469762009.07966300-1.95815300C13.963990011.21921500-1.72367400C13.963990011.21921500-1.72367400C13.963990011.21921500-0.01467000C11.3625510010.3805800-0.01467300C13.743780010.235266000.58841300C13.1435220012.9494100-0.20193200C13.143520012.980375000.37119800C13.1906890012.928962001.91179000C12.5261680011.768969002.68998500C17.838480013.748495002.02468100C17.845090013.942194004.15413100C16.6760480014.482094005.5321200C17.2096850013.54359006.68564100C <td>Ν</td> <td>16.67165600</td> <td>12.77169700</td> <td>3.59730400</td>	Ν	16.67165600	12.77169700	3.59730400
C19.4468320013.57871600-1.85307600C19.8183160014.67505800-1.05421600C19.2759680014.781224000.23966600C18.4008800013.808617000.69873100C18.0350490011.49460800-2.08084200C18.2794150010.94466000-3.35760600C17.416546009.86402400-3.49168000C17.369105008.84272300-4.62444400C18.377414009.26157400-5.71608100C17.95122007.45192200-4.09263200C15.976830008.74609700-5.29055900C15.469762009.07966300-1.95815300C13.963990011.21921500-1.72367400C13.963990011.21921500-1.72367400C13.963990011.21921500-0.01467300C13.784780010.38805800-0.01467300C10.7410090011.799497000.10466700C13.1435220012.803752000.37119800C13.1906890012.928962001.91179000C12.5261680011.768969002.68998500C17.8138480013.748495002.02468100C17.8360590014.582551003.16199800C17.345090013.942194004.15413100C16.7640480014.482094005.5321200C17.4607460015.844691005.73712500C17.4607460015.844691005.73712500C	С	18.55635200	12.63852400	-1.35659900
C 19.81831600 14.67505800 -1.05421600 C 19.27596800 14.78122400 0.23966600 C 18.40088000 13.80861700 0.69873100 C 18.03504900 11.49460800 -2.08084200 C 18.27941500 10.94466000 -3.35760600 C 17.41654600 9.86402400 -3.49168000 C 17.36910500 8.84272300 -4.62444400 C 18.37741400 9.26157400 -5.71608100 C 15.97683000 8.74609700 -5.29055900 C 15.97683000 8.74609700 -5.29055900 C 15.46976200 9.07966300 -1.95815300 C 15.46976200 9.81855400 -2.33724500 C 13.96399900 11.21921500 -1.72367400 C 13.96399900 11.79949700 0.10466700 C 13.7450200 2.88491300 2.02481300 C 13.14352200 12.80375200 0.37119800 C 13.43526600	С	19.44683200	13.57871600	-1.85307600
C 19.27596800 14.78122400 0.23966600 C 18.40088000 13.80861700 0.69873100 C 18.03504900 11.49460800 -2.08084200 C 18.27941500 10.94466000 -3.35760600 C 17.41654600 9.86402400 -3.49168000 C 17.36910500 8.84272300 -4.62444400 C 18.37741400 9.26157400 -5.71608100 C 17.79512200 7.45192200 -4.09263200 C 15.97683000 8.74609700 -5.29055900 C 15.46976200 9.07966300 -1.95815300 C 13.96399900 11.21921500 -1.72367400 C 13.96399900 11.21921500 -0.1467300 C 10.74100900 11.79949700 0.10466700 C 13.14352200 12.80375200 0.37119800 C 13.19068900 12.92896200 1.91179000 C 12.52616800 11.76896900 2.68998500 C 17.86605900	С	19.81831600	14.67505800	-1.05421600
C 18.40088000 13.80861700 0.69873100 C 18.03504900 11.49460800 -2.08084200 C 18.27941500 10.94466000 -3.35760600 C 17.41654600 9.86402400 -3.49168000 C 17.36910500 8.84272300 -4.62444400 C 18.37741400 9.26157400 -5.71608100 C 17.79512200 7.45192200 -4.09263200 C 15.97683000 8.74609700 -5.29055900 C 15.46976200 9.07966300 -1.95815300 C 13.96399900 11.21921500 -1.72367400 C 13.96399900 11.21921500 -0.1467300 C 11.36255100 10.38805800 -0.0146700 C 10.74100900 11.7949700 0.10466700 C 13.1435200 12.80375200 0.37119800 C 13.1435200 12.92896200 1.91179000 C 17.81384800 13.74849500 2.02468100 C 17.86605900	С	19.27596800	14.78122400	0.23966600
C 18.03504900 11.49460800 -2.08084200 C 18.27941500 10.94466000 -3.35760600 C 17.41654600 9.86402400 -3.49168000 C 17.36910500 8.84272300 -4.62444400 C 18.37741400 9.26157400 -5.71608100 C 15.97683000 8.74609700 -5.29055900 C 15.46976200 9.07966300 -1.95815300 C 13.96399900 11.21921500 -1.72367400 C 13.9639900 10.23526600 0.58841300 C 10.74100900 11.79949700 0.10466700 C 11.36255100 10.38805800 -0.0147300 C 11.71187200 12.96494100 -0.20193200 C 13.14352200 12.80375200 0.37119800 C 13.1435200 12.92896200 1.91179000 C 12.81317500 10.35649100 2.12881100 C 17.81384800 13.74849500 2.02468100 C 17.86605900	С	18.40088000	13.80861700	0.69873100
C 18.27941500 10.94466000 -3.35760600 C 17.41654600 9.86402400 -3.49168000 C 17.36910500 8.84272300 -4.62444400 C 18.37741400 9.26157400 -5.71608100 C 15.97683000 8.74609700 -5.29055900 C 15.97683000 9.07966300 -1.95815300 C 14.17462300 9.81855400 -2.33724500 C 13.96399900 11.21921500 -1.72367400 C 13.96399900 11.21921500 -0.1467300 C 10.74100900 11.79949700 0.10466700 C 10.74100900 11.79949700 0.10466700 C 13.14352200 12.80375200 0.37119800 C 13.19068900 12.92896200 1.91179000 C 12.52616800 11.76896900 2.68998500 C 17.81384800 13.74849500 2.02468100 C 17.8450900 13.94219400 4.15413100 C 16.76404800	С	18.03504900	11.49460800	-2.08084200
C 17.41654600 9.86402400 -3.49168000 C 17.36910500 8.84272300 -4.62444400 C 18.37741400 9.26157400 -5.71608100 C 17.79512200 7.45192200 -4.09263200 C 15.97683000 8.74609700 -5.29055900 C 15.46976200 9.07966300 -1.95815300 C 14.17462300 9.81855400 -2.33724500 C 13.96399900 11.21921500 -1.72367400 C 12.78377800 10.23526600 0.58841300 C 10.74100900 11.79949700 0.10466700 C 13.14352200 12.80375200 0.37119800 C 13.14352200 12.92896200 1.91179000 C 13.19068900 12.92896200 1.91179000 C 12.81317500 10.35649100 2.12881100 C 17.81384800 13.74849500 2.02468100 C 17.86605900 14.58295100 3.16199800 C 15.23446300	С	18.27941500	10.94466000	-3.35760600
C 17.36910500 8.84272300 -4.62444400 C 18.37741400 9.26157400 -5.71608100 C 17.79512200 7.45192200 -4.09263200 C 15.97683000 8.74609700 -5.29055900 C 15.46976200 9.07966300 -1.95815300 C 14.17462300 9.81855400 -2.33724500 C 13.96399900 11.21921500 -1.72367400 C 12.78377800 10.23526600 0.58841300 C 10.74100900 11.79949700 0.10466700 C 13.14352200 12.80375200 0.37119800 C 13.1435200 12.92896200 1.91179000 C 13.19068900 12.92896200 1.91179000 C 12.81317500 10.35649100 2.12881100 C 17.81384800 13.74849500 2.02468100 C 17.13450900 13.94219400 4.15413100 C 16.76404800 14.48209400 5.53231200 C 17.46074600	С	17.41654600	9.86402400	-3.49168000
C 18.37741400 9.26157400 -5.71608100 C 17.79512200 7.45192200 -4.09263200 C 15.97683000 8.74609700 -5.29055900 C 15.46976200 9.07966300 -1.95815300 C 14.17462300 9.81855400 -2.33724500 C 13.96399900 11.21921500 -1.72367400 C 12.78377800 10.23526600 0.58841300 C 10.74100900 11.79949700 0.10466700 C 13.14352200 12.80375200 0.37119800 C 13.1435200 12.92896200 1.91179000 C 13.19068900 12.92896200 1.91179000 C 12.52616800 11.76896900 2.68998500 C 17.8138480 13.74849500 2.02468100 C 17.8138480 13.74849500 2.02468100 C 17.8384800 13.94219400 4.15413100 C 17.13450900 13.94219400 4.15413100 C 17.46074600 15.84469100 5.73712500 C 17.46074600 15	С	17.36910500	8.84272300	-4.62444400
C 17.79512200 7.45192200 -4.09263200 C 15.97683000 8.74609700 -5.29055900 C 14.17462300 9.81855400 -2.33724500 C 13.96399900 11.21921500 -1.72367400 C 12.78377800 10.23526600 0.58841300 C 10.74100900 11.79949700 0.10466700 C 10.74100900 11.79949700 0.10466700 C 13.14352200 12.80375200 0.37119800 C 13.19068900 12.92896200 1.91179000 C 12.52616800 11.76896900 2.68998500 C 12.81317500 10.35649100 2.12881100 C 17.81384800 13.74849500 2.02468100 C 17.86605900 14.58295100 3.16199800 C 17.3450900 13.94219400 4.15413100 C 17.46074600 15.84469100 5.73712500 C 15.23446300 14.71141300 5.60656800 C 17.46074600 15.84469100 5.73712500 C 16.10361000 <td< td=""><td>С</td><td>18.37741400</td><td>9.26157400</td><td>-5.71608100</td></td<>	С	18.37741400	9.26157400	-5.71608100
C 15.97683000 8.74609700 -5.29055900 C 15.46976200 9.07966300 -1.95815300 C 14.17462300 9.81855400 -2.33724500 C 13.96399900 11.21921500 -1.72367400 C 12.78377800 10.23526600 0.58841300 C 10.74100900 11.79949700 0.10466700 C 10.74100900 11.79949700 0.10466700 C 13.14352200 12.96494100 -0.20193200 C 13.14352200 12.80375200 0.37119800 C 13.19068900 12.92896200 1.91179000 C 12.52616800 11.76896900 2.68998500 C 12.81317500 10.35649100 2.12881100 C 17.81384800 13.74849500 2.02468100 C 17.86605900 14.58295100 3.16199800 C 17.3450900 13.94219400 4.15413100 C 15.23446300 14.71141300 5.60656800 C 15.23446300 14.71141300 5.60656800 C 15.136100	С	17.79512200	7.45192200	-4.09263200
C 15.46976200 9.07966300 -1.95815300 C 14.17462300 9.81855400 -2.33724500 C 13.9639900 11.21921500 -1.72367400 C 12.78377800 10.23526600 0.58841300 C 10.74100900 11.79949700 0.10466700 C 10.74100900 11.79949700 0.10466700 C 13.14352200 12.80375200 0.37119800 C 13.19068900 12.92896200 1.91179000 C 13.19068900 12.92896200 1.91179000 C 12.52616800 11.76896900 2.68998500 C 12.81317500 10.35649100 2.12881100 C 17.81384800 13.74849500 2.02468100 C 17.86605900 14.58295100 3.16199800 C 17.46074600 15.84469100 5.53231200 C 17.46074600 15.84469100 5.73712500 C 16.10361000 11.55036800 4.18008400 C 17.15230800 10.55324700 4.70714600 C 16.10361000 <td< td=""><td>С</td><td>15.97683000</td><td>8.74609700</td><td>-5.29055900</td></td<>	С	15.97683000	8.74609700	-5.29055900
C14.174623009.81855400-2.33724500C13.9639990011.21921500-1.72367400C12.7837780010.235266000.58841300C11.3625510010.38805800-0.01467300C10.7410090011.799497000.10466700C11.7118720012.96494100-0.20193200C13.1435220012.803752000.37119800C13.1906890012.928962001.91179000C12.5261680011.768969002.68998500C12.8131750010.356491002.12881100C17.8138480013.748495002.02468100C17.8660590014.582951003.16199800C17.1345090013.942194004.15413100C16.7640480014.482094005.53231200C17.2096850013.554359006.68564100C15.2344630014.711413005.60656800C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C17.1523080010.553247004.70714600C19.152694008.550570001.64415900C19.152694008.550570001.64415900C19.142342006.493721003.26311500C19.142342006.493721003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C16.490936007.109167001.50967500C	С	15.46976200	9.07966300	-1.95815300
C13.9639990011.21921500-1.72367400C12.7837780010.235266000.58841300C11.3625510010.38805800-0.01467300C10.7410090011.799497000.10466700C11.7118720012.96494100-0.20193200C13.1435220012.803752000.37119800C13.1906890012.928962001.91179000C12.5261680011.768969002.68998500C12.8131750010.356491002.12881100C17.8138480013.748495002.02468100C17.8660590014.582951003.16199800C17.1345090013.942194004.15413100C16.7640480014.482094005.53231200C17.2096850013.554359006.68564100C15.2344630014.711413005.60656800C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C17.1523080010.553247004.70714600C19.152694008.550570001.64415900C19.152694008.50570001.64415900C19.152694006.917264003.76843000C19.142342006.493721003.26311500C16.490936007.827261002.80450500C16.490936007.109167001.50967500C16.490936007.109167001.50967500C16.696855007.827261000.52335400	С	14.17462300	9.81855400	-2.33724500
C12.7837780010.235266000.58841300C11.3625510010.38805800-0.01467300C10.7410090011.799497000.10466700C11.7118720012.96494100-0.20193200C13.1435220012.803752000.37119800C13.1906890012.928962001.91179000C12.5261680011.768969002.68998500C12.8131750010.356491002.12881100C17.8138480013.748495002.02468100C17.8660590014.582951003.16199800C17.8660590014.582951003.16199800C17.1345090013.942194004.15413100C16.7640480014.482094005.53231200C17.2096850013.554359006.68564100C15.2344630014.711413005.60656800C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C17.1523080010.553247004.70714600C19.152694008.550570001.64415900C19.152694008.550570003.26311500C19.142342006.493721003.26311500C17.742696006.917264003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C16.490936007.109167001.50967500	С	13.96399900	11.21921500	-1.72367400
C11.3625510010.38805800-0.01467300C10.7410090011.799497000.10466700C11.7118720012.96494100-0.20193200C13.1435220012.803752000.37119800C13.1906890012.928962001.91179000C12.5261680011.768969002.68998500C12.8131750010.356491002.12881100C17.8138480013.748495002.02468100C17.8660590014.582951003.16199800C17.1345090013.942194004.15413100C16.7640480014.482094005.53231200C17.2096850013.554359006.68564100C15.2344630014.711413005.60656800C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C19.152694008.550570001.64415900C19.152694008.550570001.64415900C19.152694008.550570003.26311500C19.142342006.493721003.26311500C16.936855007.827261002.80450500C16.490936007.109167001.50967500C16.490936007.109167001.50967500C16.490936007.109167000.52335400	С	12.78377800	10.23526600	0.58841300
C10.7410090011.799497000.10466700C11.7118720012.96494100-0.20193200C13.1435220012.803752000.37119800C13.1906890012.928962001.91179000C12.5261680011.768969002.68998500C12.8131750010.356491002.12881100C17.8138480013.748495002.02468100C17.8660590014.582951003.16199800C17.8660590014.582951003.16199800C17.1345090013.942194004.15413100C16.7640480014.482094005.53231200C17.2096850013.554359006.68564100C15.2344630014.711413005.60656800C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C17.1523080010.553247004.70714600C19.152694008.550570001.64415900C19.152694008.550570001.64415900C19.152694006.493721003.26311500C19.142342006.493721003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C16.490936007.109167001.50967500C16.490936007.109167000.52335400	С	11.36255100	10.38805800	-0.01467300
C11.7118720012.96494100-0.20193200C13.1435220012.803752000.37119800C13.1906890012.928962001.91179000C12.5261680011.768969002.68998500C12.8131750010.356491002.12881100C17.8138480013.748495002.02468100C17.8660590014.582951003.16199800C17.1345090013.942194004.15413100C16.7640480014.482094005.53231200C17.2096850013.554359006.68564100C15.2344630014.711413005.60656800C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C17.1523080010.553247004.70714600C19.152694008.550570001.64415900C19.152694008.550570003.26311500C19.142342006.493721003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C16.490936007.109167001.50967500	С	10.74100900	11.79949700	0.10466700
C13.1435220012.803752000.37119800C13.1906890012.928962001.91179000C12.5261680011.768969002.68998500C12.8131750010.356491002.12881100C17.8138480013.748495002.02468100C17.8660590014.582951003.16199800C17.1345090013.942194004.15413100C16.7640480014.482094005.53231200C17.2096850013.554359006.68564100C15.2344630014.711413005.60656800C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C17.1523080010.553247004.70714600C19.152694008.550570001.64415900C19.152694008.550570003.26311500C19.142342006.493721003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	11.71187200	12.96494100	-0.20193200
C13.1906890012.928962001.91179000C12.5261680011.768969002.68998500C12.8131750010.356491002.12881100C17.8138480013.748495002.02468100C17.8660590014.582951003.16199800C17.1345090013.942194004.15413100C16.7640480014.482094005.53231200C17.2096850013.554359006.68564100C15.2344630014.711413005.60656800C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C17.1523080010.553247004.70714600C19.152694008.550570001.64415900C19.152694008.550570003.26311500C19.142342006.493721003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	13.14352200	12.80375200	0.37119800
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C12.8131750010.356491002.12881100C17.8138480013.748495002.02468100C17.8660590014.582951003.16199800C17.1345090013.942194004.15413100C16.7640480014.482094005.53231200C17.2096850013.554359006.68564100C15.2344630014.711413005.60656800C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C17.1523080010.553247004.70714600C18.2473270010.102901003.71658400C19.152694008.550570001.64415900C19.152694006.493721003.26311500C19.142342006.493721003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	12.52616800	11.76896900	2.68998500
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C17.8660590014.582951003.16199800C17.1345090013.942194004.15413100C16.7640480014.482094005.53231200C17.2096850013.554359006.68564100C15.2344630014.711413005.60656800C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C16.1036100011.550368004.70714600C18.2473270010.102901003.71658400C19.152694008.550570001.64415900C19.152694006.493721003.26311500C19.142342006.493721003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	17.81384800	13.74849500	2.02468100
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C16.7640480014.482094005.53231200C17.2096850013.554359006.68564100C15.2344630014.711413005.60656800C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C17.1523080010.553247004.70714600C18.2473270010.102901003.71658400C19.152694008.550570001.64415900C19.959328007.621732002.58809200C19.142342006.493721003.26311500C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	17.13450900	13.94219400	4.15413100
C17.2096850013.554359006.68564100C15.2344630014.711413005.60656800C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C17.1523080010.553247004.70714600C18.2473270010.102901003.71658400C19.152694008.550570001.64415900C19.959328007.621732002.58809200C19.142342006.493721003.26311500C17.742696006.917264003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	16.76404800	14.48209400	5.53231200
C15.2344630014.711413005.60656800C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C17.1523080010.553247004.70714600C18.2473270010.102901003.71658400C19.152694008.550570001.64415900C19.959328007.621732002.58809200C19.142342006.493721003.26311500C17.742696006.917264003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	17.20968500	13.55435900	6.68564100
C17.4607460015.844691005.73712500C16.1036100011.550368004.18008400C17.1523080010.553247004.70714600C18.2473270010.102901003.71658400C19.152694008.550570001.64415900C19.959328007.621732002.58809200C19.142342006.493721003.26311500C17.742696006.917264003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	15.23446300	14.71141300	5.60656800
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C17.1523080010.553247004.70714600C18.2473270010.102901003.71658400C19.152694008.550570001.64415900C19.959328007.621732002.58809200C19.142342006.493721003.26311500C17.742696006.917264003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	16.10361000	11.55036800	4.18008400
C18.2473270010.102901003.71658400C19.152694008.550570001.64415900C19.959328007.621732002.58809200C19.142342006.493721003.26311500C17.742696006.917264003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	17.15230800	10.55324700	4.70714600
C19.152694008.550570001.64415900C19.959328007.621732002.58809200C19.142342006.493721003.26311500C17.742696006.917264003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	18.24732700	10.10290100	3.71658400
C19.959328007.621732002.58809200C19.142342006.493721003.26311500C17.742696006.917264003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	19.15269400	8.55057000	1.64415900
C19.142342006.493721003.26311500C17.742696006.917264003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	19.95932800	7.62173200	2.58809200
C17.742696006.917264003.76843000C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	19.14234200	6.49372100	3.26311500
C16.936855007.827261002.80450500C16.490936007.109167001.50967500C17.626975006.750590000.52335400	С	17.74269600	6.91726400	3.76843000
C 16.49093600 7.10916700 1.50967500 C 17.62697500 6.75059000 0.52335400	С	16.93685500	7.82726100	2.80450500
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N 17.98932000 12.77559900 -0.09260600 N 17.11147100 10.80236700 -1.28164700 N 16.69730700 9.76393500 -2.06159800 N 17.03066500 12.57464200 3.4555500 C 18.52024800 12.68267100 -1.36697800 C 19.68110100 14.77801900 -1.07536300 C 19.68110100 14.87967100 0.21635801 C 19.3336400 14.87967100 -2.01420100 C 18.01528200 1.49967400 -2.01420100 C 18.0158200 1.49967400 -2.01420100 C 18.0158200 1.87362500 -3.26251600 C 17.35016900 9.7741180 -3.27702500 C 17.7523900 7.3353500 -5.0191100 C 17.7523900 7.3535500 -2.06130100 C 14.8809200 9.75538500 -2.06130100 C 14.7763600 1.21463400 1.5996500 C 14.38770700	Fe	16.84706500	11.41971600	0.57291100
N17.1114710010.80236700-1.28164700N16.697307009.76393500-2.06159800N17.0306650012.565152002.16973700N16.5780830012.574642003.4555500C18.5202480012.68267100-1.36697800C19.6811010014.778019000.21635800C19.133640014.879671000.21635800C18.052820011.49967400-2.01420100C18.052820011.49967400-2.01420100C18.195133000.87362500-3.26251600C17.350169009.77411800-3.27702500C17.271988008.68422800-4.34399900C17.75239007.3353590-3.75491400C15.857692008.51369200-4.94536100C15.857692008.51369200-1.966500C14.0226280011.21463400-1.59965600C14.0226280011.21463400-0.2954700C13.371070010.806991000.05642100C12.0249500013.3116190-0.29549700C13.3834820013.257271001.89095000C13.834820013.257271001.8628000C12.6920210010.774692002.26289400C16.925850013.750174004.0835300C16.925850013.750174004.0835300C16.925850013.750174004.0835300C16.925870013.265247005.0931900C16.925	Ν	17.98932000	12.77559900	-0.09260600
N 16.69730700 9.76393500 -2.06159800 N 17.03066500 12.56515200 2.16973700 N 16.57808300 12.57464200 3.45555500 C 18.52024800 12.68267100 -1.36697800 C 19.36893700 13.6581100 -1.86730000 C 19.68110100 14.77801900 -1.07536300 C 19.1336400 14.87967100 -2.01420100 C 18.01528200 11.49967400 -2.01420100 C 18.015300 0.87362500 -3.26251600 C 17.35016900 9.77411800 -3.27702500 C 17.7198800 8.68422800 -4.34399000 C 17.7523900 7.3353590 -3.75491400 C 15.8769200 8.51369200 -1.9965600 C 15.8769200 8.51369200 -0.3661900 C 14.02262800 10.2146300 -15996500 C 14.92763000 13.3161900 -0.2649700 C 13.304079800 <td< td=""><td>Ν</td><td>17.11147100</td><td>10.80236700</td><td>-1.28164700</td></td<>	Ν	17.11147100	10.80236700	-1.28164700
N 17.03066500 12.56515200 2.16973700 N 16.57808300 12.57464200 3.45555500 C 19.36893700 13.65811100 -1.36697800 C 19.68110100 14.77801900 -1.07536300 C 19.68110100 14.77801900 -2.01420100 C 18.30702600 13.87191500 0.68930600 C 18.01528200 11.49967400 -2.01420100 C 18.01528200 1.49967400 -2.01420100 C 18.01528200 1.49967400 -2.01420100 C 18.19513300 0.8736200 -3.26251600 C 17.35016900 9.0794200 -5.50191100 C 17.7198800 8.68422800 -4.94536100 C 15.85769200 8.51369200 -4.94536100 C 15.48766500 9.06580100 -1.61962200 C 14.02262800 1.21463400 -1.59965600 C 14.02262800 1.31616100 -2.9249700 C 1.38717070	Ν	16.69730700	9.76393500	-2.06159800
N16.5780830012.574642003.4555500C18.5202480012.68267100-1.36697800C19.6811010014.77801900-1.07536300C19.133640014.879671000.21635800C18.3070260013.871915000.68930600C18.0152820011.49967400-2.01420100C18.0152820011.49967400-3.27702500C17.350169009.77411800-3.27702500C17.350169009.77411800-3.27702500C17.271988008.68422800-4.34390900C17.27198008.51369200-5.50191100C17.752399007.3353500-3.75491400C15.857692008.51369200-4.94536100C15.857692008.51369200-1.61962200C14.88092009.75538500-2.06130100C14.226280011.21463400-1.59965600C12.2249500013.311619000.02699700C13.3407980013.025917000.36207700C13.384820013.257271001.89095000C12.6920210010.774692002.26289400C17.6385670014.49959003.16489500C16.925850013.750174004.08835300C16.925850013.750174004.08835300C16.925850013.750174004.08835300C16.925850013.265247006.61089700C16.93396001.291061003.98723600C1	Ν	17.03066500	12.56515200	2.16973700
C 18.52024800 12.68267100 -1.36697800 C 19.36893700 13.65811100 -1.86730000 C 19.68110100 14.77801900 -1.07536300 C 19.13336400 14.87967100 0.21635800 C 18.0702600 13.87191500 0.68930600 C 18.01528200 11.49967400 -2.01420100 C 18.19513300 10.87362500 -3.26251600 C 17.35016900 9.77411800 -3.27702500 C 17.27198800 8.68422800 -4.34390900 C 18.22249000 9.05949200 -5.50191100 C 15.85769200 8.51369200 -4.94536100 C 15.48766500 9.0588100 -1.61962200 C 14.8809200 9.7538500 -2.06130100 C 14.2262800 11.21463400 -1.59965600 C 12.02495000 13.31161900 -0.29549700 C 13.8048200 13.2591700 0.36207700 C 12.69202100	Ν	16.57808300	12.57464200	3.45555500
C19.3689370013.65811100-1.86730000C19.6811010014.77801900-1.07536300C19.1333640014.879671000.21635800C18.3070260013.871915000.68930600C18.0152820011.49967400-2.01420100C18.1951330010.87362500-3.26251600C17.350169009.77411800-3.27702500C17.271988008.68422800-4.34390900C18.222490009.05949200-5.50191100C17.752399007.3353590-3.75491400C15.857692008.51369200-4.94536100C15.857692008.51369200-4.94536100C15.487665009.06580100-1.61962200C14.0226280011.21463400-1.59965600C12.7263600010.53934000.73661900C11.3571070010.806991000.05642100C12.0249500013.015917000.36207700C13.384820013.257271001.89095000C12.5376680012.248541002.70167500C12.6920210010.774692002.6289400C16.620980013.265247006.61089700C16.620980013.265247006.61089700C16.9530960013.265247005.0931900C16.9530960013.265247005.0931900C16.13945001.291061003.98723600C16.13945001.291061003.98723600C <td< td=""><td>С</td><td>18.52024800</td><td>12.68267100</td><td>-1.36697800</td></td<>	С	18.52024800	12.68267100	-1.36697800
C19.6811010014.77801900-1.07536300C19.1333640014.879671000.21635800C18.3070260013.871915000.68930600C18.0152820011.49967400-2.01420100C18.1951330010.87362500-3.26251600C17.350169009.77411800-3.27702500C17.271988008.68422800-4.34390900C18.222490009.05949200-5.50191100C17.752399007.3353590-3.75491400C15.857692008.51369200-4.94536100C15.857692008.51369200-4.94536100C14.0226280011.21463400-1.59965600C14.0226280011.21463400-1.59965600C12.7263600010.80991000.05642100C11.3571070010.806991000.05642100C12.0249500013.015917000.36207700C13.3834820013.25771001.89095000C12.5376680012.248541002.70167500C12.6920210010.774692002.26289400C16.625980013.750174004.08835300C16.625980013.265247006.61089700C16.9530960013.265247006.61089700C16.9530960013.265247005.0931900C17.0258470015.602182005.75610900C17.9258470013.86015002.32053800C17.925847001.386015003.98723600C <td>С</td> <td>19.36893700</td> <td>13.65811100</td> <td>-1.86730000</td>	С	19.36893700	13.65811100	-1.86730000
C 19.13336400 14.87967100 0.21635800 C 18.30702600 13.87191500 0.68930600 C 18.01528200 11.49967400 -2.01420100 C 18.19513300 10.87362500 -3.26251600 C 17.35016900 9.77411800 -3.27702500 C 17.27198800 8.68422800 -4.34390900 C 18.22249000 9.05949200 -5.50191100 C 17.75239900 7.33535900 -3.75491400 C 15.85769200 8.51369200 -4.94536100 C 15.48766500 9.06580100 -1.61962200 C 14.8809200 9.75538500 -2.06130100 C 14.02626800 11.21463400 -1.59965600 C 12.02495000 13.31161900 -0.2699700 C 13.84079800 13.02591700 0.36207700 C 13.40079800 13.25727100 1.89095000 C 12.69202100 10.77469200 2.26289400 C 17.69728700	С	19.68110100	14.77801900	-1.07536300
C 18.30702600 13.87191500 0.68930600 C 18.01528200 11.49967400 -2.01420100 C 18.19513300 10.87362500 -3.26251600 C 17.35016900 9.77411800 -3.27702500 C 17.27198800 8.68422800 -4.34390900 C 18.22249000 9.05949200 -5.50191100 C 17.75239900 7.33535900 -3.75491400 C 15.85769200 8.51369200 -4.94536100 C 15.48766500 9.06580100 -1.61962200 C 14.18809200 9.75538500 -2.06130100 C 14.02262800 11.21463400 -1.59965600 C 12.72636000 10.38099100 0.05642100 C 10.90774100 12.28818700 0.02699700 C 13.40079800 13.02591700 0.36207700 C 13.40079800 13.25727100 1.89095000 C 12.69202100 10.77469200 2.26289400 C 17.69728700	С	19.13336400	14.87967100	0.21635800
C 18.01528200 11.49967400 -2.01420100 C 18.19513300 10.87362500 -3.26251600 C 17.35016900 9.77411800 -3.27702500 C 17.27198800 8.68422800 -4.34390900 C 18.22249000 9.05949200 -5.50191100 C 17.75239900 7.33535900 -3.75491400 C 15.85769200 8.51369200 -4.94536100 C 15.48766500 9.06580100 -1.61962200 C 14.18809200 9.75538500 -2.06130100 C 14.02262800 11.21463400 -1.59965600 C 12.72636000 10.5393400 0.0269700 C 12.02495000 13.3161900 -0.29549700 C 13.40079800 13.25727100 1.89095000 C 12.69202100 10.77469200 2.26289400 C 12.69202100 10.7469200 2.66289400 C 17.69728700 13.75017400 4.0883500 C 16.92558500	С	18.30702600	13.87191500	0.68930600
C 18.19513300 10.87362500 -3.26251600 C 17.35016900 9.77411800 -3.27702500 C 17.27198800 8.68422800 -4.34390900 C 18.22249000 9.05949200 -5.50191100 C 17.75239900 7.33535900 -3.75491400 C 15.85769200 8.51369200 -4.94536100 C 15.48766500 9.06580100 -1.61962200 C 14.18809200 9.75538500 -2.06130100 C 14.02262800 11.21463400 -1.5995600 C 14.0976300 10.53993400 0.73661900 C 12.72636000 10.380699100 0.05642100 C 12.02495000 13.3161900 -0.29549700 C 13.40079800 13.25727100 1.89095000 C 12.53766800 12.24854100 2.76289400 C 17.69728700 13.75017400 4.0883500 C 17.69728700 13.75017400 4.0883500 C 16.4209800	С	18.01528200	11.49967400	-2.01420100
C 17.35016900 9.77411800 -3.27702500 C 17.27198800 8.68422800 -4.34390900 C 18.22249000 9.05949200 -5.50191100 C 17.75239900 7.33535900 -3.75491400 C 15.85769200 8.51369200 -4.94536100 C 15.48766500 9.06580100 -1.61962200 C 14.18809200 9.7538500 -2.06130100 C 14.02262800 11.21463400 -1.59965600 C 12.72636000 10.3993400 0.73661900 C 13.5710700 10.80699100 0.05642100 C 10.90774100 12.28818700 0.02699700 C 13.40079800 13.02591700 0.36207700 C 13.40079800 13.25727100 1.89095000 C 12.69202100 10.77469200 2.26289400 C 17.69728700 13.7303600 1.98628000 C 17.69728700 13.75017400 4.08835300 C 16.46209800	С	18.19513300	10.87362500	-3.26251600
C 17.27198800 8.68422800 -4.34390900 C 18.22249000 9.05949200 -5.50191100 C 17.75239900 7.33535900 -3.75491400 C 15.85769200 8.51369200 -4.94536100 C 15.48766500 9.06580100 -1.61962200 C 14.18809200 9.75538500 -2.06130100 C 14.02262800 11.21463400 -1.59965600 C 12.72636000 10.53993400 0.73661900 C 10.90774100 12.28818700 0.02699700 C 12.02495000 13.31161900 -0.29549700 C 13.40079800 13.02591700 0.36207700 C 12.69202100 10.77469200 2.26289400 C 17.69728700 13.73203600 1.98628000 C 17.69728700 13.75017400 4.08835300 C 16.92558500 13.75017400 4.08835300 C 16.9309600 13.26524700 6.61089700 C 16.46209800	С	17.35016900	9.77411800	-3.27702500
C 18.22249000 9.05949200 -5.50191100 C 17.75239900 7.33535900 -3.75491400 C 15.85769200 8.51369200 -4.94536100 C 15.48766500 9.06580100 -1.61962200 C 14.18809200 9.75538500 -2.06130100 C 14.02262800 11.21463400 -1.59965600 C 12.72636000 10.53993400 0.73661900 C 10.90774100 12.28818700 0.02699700 C 12.02495000 13.31161900 -0.29549700 C 13.40079800 13.02591700 0.36207700 C 13.38348200 13.25727100 1.89095000 C 12.69202100 10.77469200 2.26289400 C 17.69728700 13.73203600 1.98628000 C 17.69728700 13.75017400 4.08835300 C 16.92558500 13.75017400 4.0883500 C 16.95309600 13.26524700 6.61089700 C 16.91677800	С	17.27198800	8.68422800	-4.34390900
C 17.75239900 7.33535900 -3.75491400 C 15.85769200 8.51369200 -4.94536100 C 15.48766500 9.06580100 -1.61962200 C 14.18809200 9.75538500 -2.06130100 C 14.02262800 11.21463400 -1.59965600 C 12.72636000 10.53993400 0.73661900 C 10.90774100 12.28818700 0.02699700 C 12.02495000 13.31161900 -0.29549700 C 13.40079800 13.02591700 0.36207700 C 13.8348200 13.25727100 1.89095000 C 12.69202100 10.77469200 2.26289400 C 17.69728700 13.73203600 1.98628000 C 16.92558500 13.75017400 4.08835300 C 16.92558500 13.75017400 4.0883500 C 16.95309600 13.26524700 6.61089700 C 16.95309600 13.26524700 6.61089700 C 16.91394500	С	18.22249000	9.05949200	-5.50191100
C 15.85769200 8.51369200 -4.94536100 C 15.48766500 9.06580100 -1.61962200 C 14.18809200 9.75538500 -2.06130100 C 14.02262800 11.21463400 -1.59965600 C 12.72636000 10.53993400 0.73661900 C 11.35710700 10.80699100 0.02699700 C 10.90774100 12.28818700 0.02699700 C 12.02495000 13.31161900 -0.29549700 C 13.40079800 13.02591700 0.36207700 C 13.8348200 13.25727100 1.89095000 C 12.69202100 10.77469200 2.26289400 C 17.69728700 13.73203600 1.98628000 C 16.92558500 13.75017400 4.08835300 C 16.9258500 13.75017400 4.08835300 C 16.95309600 13.26524700 6.61089700 C 16.95309600 13.26524700 5.9031900 C 16.1394500	С	17.75239900	7.33535900	-3.75491400
C 15.48766500 9.06580100 -1.61962200 C 14.18809200 9.75538500 -2.06130100 C 14.02262800 11.21463400 -1.59965600 C 12.72636000 10.53993400 0.73661900 C 11.35710700 10.80699100 0.05642100 C 10.90774100 12.28818700 0.02699700 C 12.02495000 13.31161900 -0.29549700 C 13.40079800 13.02591700 0.36207700 C 13.8348200 13.25727100 1.89095000 C 12.69202100 10.77469200 2.26289400 C 17.69728700 13.73203600 1.98628000 C 17.69728700 13.75017400 4.08835300 C 16.92558500 13.75017400 4.08835300 C 16.95309600 13.26524700 6.61089700 C 16.91394500 11.29106100 3.98723600 C 16.11394500 11.29106100 3.98723600 C 17.24809100	С	15.85769200	8.51369200	-4.94536100
C 14.18809200 9.75538500 -2.06130100 C 14.02262800 11.21463400 -1.59965600 C 12.72636000 10.53993400 0.73661900 C 11.35710700 10.80699100 0.05642100 C 10.90774100 12.28818700 0.02699700 C 12.02495000 13.31161900 -0.29549700 C 13.40079800 13.02591700 0.36207700 C 13.8348200 13.25727100 1.89095000 C 12.69202100 10.77469200 2.26289400 C 17.69728700 13.73203600 1.98628000 C 17.63856700 14.49995900 3.16489500 C 16.92558500 13.75017400 4.08835300 C 16.95309600 13.26524700 6.61089700 C 16.1394500 11.29106100 3.98723600 C 16.11394500 11.29106100 3.98723600 C 19.25828900 8.58629300 1.38601500 C 19.25828900	С	15.48766500	9.06580100	-1.61962200
C 14.02262800 11.21463400 -1.59965600 C 12.72636000 10.53993400 0.73661900 C 11.35710700 10.80699100 0.05642100 C 10.90774100 12.28818700 0.02699700 C 12.02495000 13.31161900 -0.29549700 C 13.40079800 13.02591700 0.36207700 C 13.38348200 13.25727100 1.89095000 C 12.69202100 10.77469200 2.26289400 C 17.69728700 13.73203600 1.98628000 C 17.63856700 14.49995900 3.16489500 C 16.92558500 13.75017400 4.08835300 C 16.46209800 14.19209300 5.47470800 C 16.45209800 14.28391100 5.50931900 C 16.11394500 11.29106100 3.98723600 C 16.11394500 11.29106100 3.98723600 C 19.25828900 8.58629300 1.38601500 C 19.25828900 8.58629300 1.38601500 C 19.43726800 <td< td=""><td>С</td><td>14.18809200</td><td>9.75538500</td><td>-2.06130100</td></td<>	С	14.18809200	9.75538500	-2.06130100
C12.7263600010.539934000.73661900C11.3571070010.806991000.05642100C10.9077410012.288187000.02699700C12.0249500013.31161900-0.29549700C13.4007980013.025917000.36207700C13.8334820013.257271001.89095000C12.5376680012.248541002.70167500C12.6920210010.774692002.26289400C17.6972870013.732036001.98628000C16.955850013.750174004.08835300C16.4620980014.192093005.47470800C16.9530960013.265247006.61089700C16.9530960013.265247006.61089700C16.1139450011.291061003.98723600C17.2480910010.405451004.52442600C19.258289008.586293001.38601500C19.258289008.586293001.38601500C19.437268006.578135003.05852100C17.133661007.750823002.63629600C17.133661007.750823001.38298900C17.826801006.550119000.37071400C18.817613007.811211000.12307600	С	14.02262800	11.21463400	-1.59965600
C11.3571070010.806991000.05642100C10.9077410012.288187000.02699700C12.0249500013.31161900-0.29549700C13.4007980013.025917000.36207700C13.3834820013.257271001.89095000C12.5376680012.248541002.70167500C12.6920210010.774692002.26289400C17.6972870013.732036001.98628000C17.6385670014.499959003.16489500C16.9255850013.750174004.08835300C16.9255850013.750174004.08835300C16.9258470015.602182005.47470800C14.9167780014.283911005.50931900C16.1139450011.291061003.98723600C17.0258470015.602182005.75610900C17.2480910010.405451004.52442600C19.258289008.586293001.38601500C19.437268006.578135003.05852100C19.437268006.578135003.59514800C17.133661007.750823002.63629600C16.699955006.959092001.38298900C17.826801006.650119000.37071400C18.817613007.811211000.12307600	С	12.72636000	10.53993400	0.73661900
C10.9077410012.288187000.02699700C12.0249500013.31161900-0.29549700C13.4007980013.025917000.36207700C13.8334820013.257271001.89095000C12.5376680012.248541002.70167500C12.6920210010.774692002.26289400C17.6972870013.732036001.98628000C17.6385670014.499959003.16489500C16.9255850013.750174004.08835300C16.4620980014.192093005.47470800C16.9530960013.265247006.61089700C14.9167780014.283911005.50931900C17.0258470015.602182005.75610900C16.1139450011.291061003.98723600C17.2480910010.405451004.52442600C19.258289008.586293001.38601500C19.437268006.578135003.05852100C19.437268006.918778003.59514800C17.133661007.750823002.63629600C17.826801006.650119000.37071400C17.826801006.650119000.37071400C18.817613007.811211000.12307600	С	11.35710700	10.80699100	0.05642100
C12.0249500013.31161900-0.29549700C13.4007980013.025917000.36207700C13.3834820013.257271001.89095000C12.5376680012.248541002.70167500C12.6920210010.774692002.26289400C17.6972870013.732036001.98628000C17.6385670014.499959003.16489500C16.9255850013.750174004.08835300C16.92590013.265247006.61089700C16.9530960013.265247006.61089700C14.9167780014.283911005.50931900C17.0258470015.602182005.75610900C16.1139450011.291061003.98723600C17.2480910010.405451004.52442600C19.258289008.586293001.38601500C19.437268006.578135003.05852100C19.437268006.578135003.05852100C17.133661007.750823002.63629600C17.826801006.959092001.38298900C17.826801006.550119000.37071400C18.817613007.811211000.12307600	С	10.90774100	12.28818700	0.02699700
C13.4007980013.025917000.36207700C13.3834820013.257271001.89095000C12.5376680012.248541002.70167500C12.6920210010.774692002.26289400C17.6972870013.732036001.98628000C17.6385670014.499959003.16489500C16.9255850013.750174004.08835300C16.9530960013.265247006.61089700C16.9530960013.265247006.61089700C14.9167780014.283911005.50931900C17.0258470015.602182005.75610900C16.1139450011.291061003.98723600C17.2480910010.405451004.52442600C19.258289008.586293001.38601500C19.437268006.578135003.05852100C17.133661007.750823002.63629600C17.826801006.959092001.38298900C17.826801006.650119000.37071400C18.817613007.811211000.12307600	С	12.02495000	13.31161900	-0.29549700
C13.3834820013.257271001.89095000C12.5376680012.248541002.70167500C12.6920210010.774692002.26289400C17.6972870013.732036001.98628000C17.6385670014.499959003.16489500C16.9255850013.750174004.08835300C16.4620980014.192093005.47470800C16.9530960013.265247006.61089700C14.9167780014.283911005.50931900C17.0258470015.602182005.75610900C16.1139450011.291061003.98723600C17.2480910010.405451004.52442600C19.258289008.586293001.38601500C19.437268006.578135003.05852100C17.133661007.750823002.63629600C16.699955006.959092001.38298900C17.826801006.650119000.37071400C18.817613007.811211000.12307600	С	13.40079800	13.02591700	0.36207700
C12.5376680012.248541002.70167500C12.6920210010.774692002.26289400C17.6972870013.732036001.98628000C17.6385670014.499959003.16489500C16.9255850013.750174004.08835300C16.4620980014.192093005.47470800C16.9530960013.265247006.61089700C14.9167780014.283911005.50931900C17.0258470015.602182005.75610900C16.1139450011.291061003.98723600C17.2480910010.45451004.52442600C19.258289008.586293001.38601500C19.258289008.586293001.38601500C19.437268006.578135003.05852100C17.133661007.750823002.63629600C16.699955006.959092001.38298900C17.826801006.650119000.37071400C18.817613007.811211000.12307600	С	13.38348200	13.25727100	1.89095000
C12.6920210010.774692002.26289400C17.6972870013.732036001.98628000C17.6385670014.499959003.16489500C16.9255850013.750174004.08835300C16.4620980014.192093005.47470800C16.9530960013.265247006.61089700C14.9167780014.283911005.50931900C17.0258470015.602182005.75610900C16.1139450011.291061003.98723600C17.2480910010.405451004.52442600C19.258289008.586293001.38601500C19.437268006.578135003.05852100C19.437268006.918778003.59514800C17.133661007.750823002.63629600C16.699955006.959092001.38298900C17.826801006.650119000.37071400C18.817613007.811211000.12307600	С	12.53766800	12.24854100	2.70167500
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С	6.20562500	6.07500200	17.58157000
С	6.57543600	5.37666000	16.42132400
Н	6.19209200	4.43085000	16.07279100
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С	8.39890700	5.79445100	14.58400900
С	7.88849200	4.45401300	14.01105800
Н	8.48237900	4.18471000	13.13138500
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Н	7.98367900	3.64046600	14.73818900
С	9.88302400	5.60737700	14.98604000
Н	10.46772900	5.30334400	14.11000200
Н	9.98576500	4.83172600	15.75221500
Н	10.32962800	6.52451600	15.38097800
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Н	8.80807900	6.50392100	12.57321800
Н	8.71748700	7.81682500	13.74746500
Н	7.23234100	7.02805800	13.19378100
Ν	6.92989700	7.19349300	17.69322400
Ν	7.73925100	7.24269000	16.62454100
С	8.43557000	8.52285000	16.40730100
Н	9.32572600	8.32314200	15.80964500
Н	8.76870400	8.85316800	17.39231100
С	7.54582300	9.58669000	15.74231400
Н	7.33241700	9.25882200	14.71539700
Н	8.18112600	10.47803800	15.64968500
С	6.23419900	9.95691300	16.46582700
Н	5.58666800	9.06804500	16.51270700
Н	5.70772000	10.62816100	15.77038900
В	6.29199200	10.72390300	17.90926300
Н	6.53595400	9.80038400	18.88197500
С	7.44354500	11.85750500	18.09831900
Н	8.45083400	11.49063600	17.83763700
С	7.12955900	13.00609300	17.09904600
Н	7.86947800	13.81693100	17.19828800
Н	7.25484400	12.61456700	16.07881900
С	5.71397900	13.61662600	17.21615600
Н	5.50980700	14.21858900	16.31861200
Н	5.69682500	14.32998000	18.04666100
С	4.57541900	12.58617200	17.40046400
Н	4.32984400	12.15736700	16.41886700

Н	3.66713000	13.12164400	17.72243900
С	4.89028700	11.41731000	18.37369100
Н	4.03842900	10.71859500	18.30347200
С	4.97216600	11.87103500	19.85024000
Н	4.05141600	12.39874000	20.15127500
н	5.01389000	10.96576400	20.47191500
С	6.18327600	12.76633200	20.20076200
н	6.29812000	12.80459300	21.29542100
н	5.96636500	13.79845500	19.90709800
С	7.52437300	12.32836400	19.56824400
н	8.24839400	13.15183900	19.68070800
Н	7.93902700	11.49249400	20.15189700
С	4.31869800	6.72629100	20.59694600
С	3.30903300	5.75866700	20.62516800
н	2.58483000	5.74356500	21.43208400
С	4.54079400	7.74228500	21.62523400
С	3.84305700	8.11302400	22.78554800
Н	2.89691400	7.73072400	23.13432500
С	4.61009100	9.10716200	23.38953900
С	4.26308000	9.93643600	24.62241500
С	2.92224900	9.42749500	25.19575800
Н	2.65373600	10.02183500	26.07536600
Н	2.98850700	8.37923400	25.50802600
н	2.10864300	9.52335700	24.46878200
С	4.07741600	11.42065100	24.22010100
Н	3.77417800	12.00585500	25.09608000
Н	3.30169000	11.52400200	23.45408400
Н	4.99491100	11.86624100	23.82484400
С	5.32538800	9.81613800	25.73999300
Н	4.97337400	10.34530400	26.63297700
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Н	5.49579600	8.76891100	26.01262800
Ν	5.66001200	8.46538500	21.51323900
Ν	5.71024100	9.27488700	22.58176200
С	6.99117700	9.96987000	22.79871900
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Н	8.94612100	9.71349000	23.55629000
С	8.42304000	7.76706600	22.74024200
Н	7.53356100	7.12035500	22.69353100
Н	9.09389500	7.24000600	23.43561700
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Н	9.95818400	9.98235300	21.36779700
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Н	12.28416900	9.39938400	22.00676900
Н	11.08158900	8.78579800	23.12657900
С	12.08227900	7.24402900	21.98926700
Н	12.68429000	7.03955500	22.88671000
Н	12.79543600	7.22622000	21.15860700
С	11.05094300	6.10620400	21.80537000
Н	10.62216100	5.86112000	22.78710100
Н	11.58567000	5.19745900	21.48344200
С	9.88211000	6.42177200	20.83233400
Н	9.18277900	5.57044500	20.90284100
С	10.33557900	6.50307600	19.35567500
Н	10.86253600	5.58188900	19.05467200
Н	9.43019900	6.54537100	18.73418600
С	11.23170200	7.71346600	19.00477200
Н	11.26982100	7.82810900	17.91009000
Н	12.26372400	7.49583200	19.29825500
С	10.79486900	9.05499300	19.63716900
Н	11.61886500	9.77837600	19.52442400
Н	9.95919300	9.47019000	19.05362700

(^{BBN}PDP^{tBu})ZnH₂⁻S=1/2

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Ν	18.00050200	12.79257000	-0.10064000
Ν	17.12642300	10.79586300	-1.49228300
Ν	16.78188000	9.80729900	-2.35677300
Ν	17.11357200	12.67698000	2.32665400
Ν	16.72432200	12.78564800	3.62295000
В	13.84123200	11.30173500	-0.11090800
Н	15.03561500	11.23065100	0.45701900
В	17.85401800	9.15517400	2.42207800
Н	17.23287300	9.90458900	1.52349100
С	18.51894400	12.71994900	-1.38076800
С	19.36004300	13.69730400	-1.88463100
С	19.69318600	14.81329100	-1.09011200
С	19.15856700	14.89261700	0.21213000
С	18.33584700	13.88285400	0.68111100
С	18.04396400	11.56107000	-2.10887100
С	18.30562900	11.03223100	-3.39372500
С	17.49006800	9.91849000	-3.53385900
С	17.47197300	8.91020500	-4.67853800
С	18.47493900	9.36610800	-5.76023500
С	17.92697900	7.52250100	-4.16343800
С	16.08491800	8.79123100	-5.35274000
С	15.56422800	9.06603000	-2.01453800
С	14.25959200	9.79832000	-2.37639900
С	14.03146400	11.18437600	-1.73629300
С	12.92322500	10.14658100	0.59538700
С	11.48377600	10.26084400	0.02489600
С	10.82261200	11.65195400	0.16651900
С	11.75010700	12.84757500	-0.15652700
С	13.19838500	12.72624300	0.38508100
С	13.27518000	12.84365000	1.92506800
С	12.66455700	11.65994800	2.71098800
С	12.98692500	10.26165800	2.13510600
С	17.77739800	13.80406800	2.01562700
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С	17.12234600	13.99378000	4.15331300
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С	17.33092100	13.66595100	6.68335500
С	15.21025000	14.61044500	5.66921400
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С	18.41059200	10.13474700	3.61490900
С	19.02854100	8.36187200	1.59816800
С	19.74784500	7.37740600	2.55686100
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С	16.78974500	7.99763600	2.87430800
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С	17.22603700	6.73188900	0.63189200
С	18.43278400	7.65976700	0.35496500
Н	19.02295500	11.39961400	-4.11106000
н	19.74520900	13.60373300	-2.89701600
н	20.34546200	15.59258800	-1.47167000
н	19.39866100	15.73267600	0.85910800
н	18.21369300	15.65434400	3.19025300
н	18.41198100	15.95714400	5.60878700
н	16.91501000	16.62796300	4.92987000
Н	17.05059900	16.34937000	6.67501400
Н	18.41840300	13.57109000	6.58954300
Н	17.11192000	14.14248300	7.64754700
н	16,90835500	12,65900400	6,70933000
н	14 94076700	15 04846100	6 63907200
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н	14 73158300	13 62933200	5 60099300
н	19/1928/300	9 43062300	-5 36142900
н	18 48090900	8 64477200	-6 58596400
н	18 2038/800	10 3/1572000	-6 16952800
н	18 97/82000	7 58/35800	-3 71629300
н Ц	17 25065700	7.11078000	-3 10202300
н Ц	17.25005700	6 80504200	-3.40399300
н ц	16 151/2600	0.80394200 8 12016400	-6 21861200
	16 226 92200	8.12010400 9.29769600	4 67021600
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	15.65945500	11.05095500	5.51700000
п	13.04020900	11.79307000	5.10134000
	17.96595000	0.75570000	5.50729000
	18.95146000	9.75579900	5.18225900
н	18.92602900	11.00768400	3.18830300
н	19.20058500	9.59374000	4.16078200
н	19.80377100	9.05377700	1.22619900
н	18.1165//00	8.44480300	-0.34355300
н	19.20348900	7.07454800	-0.17811100
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н	16./1/0/800	6.51058100	-0.31984500
н	15.51218200	6.4/468500	1.92820400
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Н	15.93177200	8.40871800	3.43405000
Н	16.83835100	6.21389200	4.16610900
Н	17.75178800	7.58854900	4.76649200
Н	18.56923400	5.55736500	2.65753000
Н	19.37289500	5.95215700	4.15407400
Н	20.50724100	6.78621800	2.01517400
Н	20.30743100	7.96711700	3.29694500
Н	15.60881500	8.09180700	-2.50750900

Н	15.61292700	8.88741100	-0.93864800
Н	14.20473700	9.87379500	-3.47292300
Н	13.44840200	9.11635900	-2.08077800
Н	14.82164100	11.86727700	-2.08131600
Н	13.11503400	11.56870300	-2.21263600
Н	13.75424900	13.58761500	-0.02348500
Н	13.26787700	9.12698500	0.35137300
Н	11.52268600	10.00540300	-1.04445800
Н	10.81654000	9.51136200	0.48590200
Н	9.93715900	11.69581100	-0.48741600
Н	10.42983400	11.76163700	1.18361400
Н	11.80167900	12.96142200	-1.24857300
Н	11.26882800	13.77014900	0.21334200
Н	14.33519900	12.93243600	2.19496100
Н	12.79566700	13.77494500	2.27645500
Н	13.01070700	11.70546300	3.75596800
Н	11.57740300	11.78482200	2.77012600
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Н	14.00682100	9.98252900	2.43667700

(^{Me}PDP^{tBu})FeH₂S= 3/2

Fe	8.52906400	10.61564600	-0.71900400
Ν	10.04694600	12.13257700	-0.71936700
С	10.10692900	13.03904700	0.28664300
С	11.07843800	14.04296500	0.31274500
Н	11.10239000	14.75812200	1.12843900
С	12.01422100	14.09956600	-0.72009300
Н	12.78228000	14.86751800	-0.72038200
С	9.08596200	12.85360200	1.31399600
С	8.77115300	13.54446500	2.50210400
Н	9.26582100	14.41236700	2.90942000
С	7.68221000	12.88014100	3.05440900
С	6.92707100	13.19618900	4.33888600
С	7.66452200	14.32993900	5.08327000
Н	7.13819000	14.56032100	6.01598500
Н	7.70043100	15.24743700	4.48598300
Н	8.69061400	14.04225700	5.33683500
С	5.49348500	13.69004900	4.02419200
Н	4.98120100	13.96408000	4.95416100
Н	4.88471400	12.93002600	3.52552400
Н	5.52076200	14.57274300	3.37633300
С	6.87840100	11.96657700	5.27678500
Н	6.39484200	12.24120800	6.22159000
Н	7.88866900	11.60892100	5.50443900
Н	6.31412300	11.13296600	4.85027400
Ν	8.24075600	11.82900300	1.14443500
Ν	7.39397500	11.85088400	2.18800000
С	6.39025400	10.79340000	2.21821300
Н	6.19905100	10.51517000	1.17880700
Н	5.47170500	11.15266100	2.68031100
Н	8.84610000	9.05454800	-0.15160000
С	10.95305500	12.19205300	-1.72572600
С	11.95710200	13.16339600	-1.75256500
Н	12.67196000	13.18694000	-2.56853300
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Н	12.32551400	11.34962200	-4.34850800
С	10.79288600	9.76630700	-4.49251500
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С	11.60219100	7.57712100	-5.46175700
Н	11.87576300	7.06442700	-6.39163600
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Н	9.04480700	8.39788700	-6.28709000
Ν	9.74233400	10.32583000	-2.58250000
Ν	9.76378400	9.47864200	-3.62574700
С	8.70609000	8.47512000	-3.65539900
Н	8.42787100	8.28454100	-2.61587300
Н	9.06515200	7.55626400	-4.11704400
Н	6.96843900	10.93486400	-1.28643200
Н	7.83197900	8.84852400	-4.19793500
Н	6.76377600	9.91923800	2.76056700

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С	11.27164500	14.30823100	0.29179300
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С	12.18710700	14.38353500	-0.76307400
Н	12.92880400	15.17621300	-0.78370700
С	9.27400900	13.00762400	1.24804700
С	8.81747800	13.56252500	2.45801400
Н	9.22517700	14.41583100	2.97667900
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С	7.45975400	14.07322900	4.97712800
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Н	7.84058200	11.34558600	5.21796100
Н	6.34963200	10.82668200	4.41615400
Ν	8.49991600	11.94869900	0.90767700
Ν	7.56995600	11.82355300	1.88755200
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Н	6.61747300	10.42075000	0.73749400
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С	11.17686200	12.43467000	-1.74872600
С	12.13426300	13.44664000	-1.80034200
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С	12.11574800	9.42383800	-6.31134500
Н	12.24425900	8.80842800	-7.20849900
Н	13.01171400	9.30921500	-5.69176100
Н	12.04866600	10.46931400	-6.63095300
С	11.01122400	7.48267900	-5.19581400
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H	10.12153400	7.06196700	-4.72015300
H	11.85888200	7.33660900	-4.51713900
С	9.63832600	9.17047700	-6.50673700

9.78864700	8.58785500	-7.42362700
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8.70640100	8.65018700	-3.15441900
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H-BBN(CH₃)⁻

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8.26387100	8.08758400	20.39056400
10.34600800	8.96242400	21.11495900
9.97621700	9.96850700	21.38958100
11.49648000	8.64538100	22.09956600
12.33062800	9.36971000	22.01138100
11.10261900	8.77029500	23.11938100
12.08980500	7.22086600	21.98606300
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10.59087300	5.88540200	22.77955300
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9.43453500	6.57743300	18.72893600
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11.61905400	9.79241800	19.49999800
9.94348700	9.44442700	19.06657400
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	8.41526900 7.61810900 9.08560500 9.14063200 8.26387100 10.34600800 9.97621700 11.49648000 12.33062800 12.69433200 12.69433200 12.69433200 12.69433200 12.69433200 11.04424700 10.59087300 11.58582800 9.89476300 9.89476300 9.19484600 10.34698300 10.87363400 9.43453500 11.28224900 11.28224900 12.27697200 10.79944100 11.61905400 9.94348700 7.92711100	8.415269007.786970007.618109007.023539009.085605007.566456009.140632007.832199008.263871008.0875840010.346008008.962424009.976217009.9685070011.496480008.6453810012.330628009.3697100011.102619008.7702950012.694332007.0077520012.694332007.0077520012.694332007.0077520011.044247006.0957210010.590873005.8854020011.585828005.170978009.894763006.418477009.194846005.5632330010.346983006.5093020010.873634005.592873009.434535006.5774330011.282249007.8454830012.276972007.5050530010.799441009.0589310011.619054009.792418009.943487009.444427007.927111008.74686400

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Ν	6.21760100	3.79343500	-1.03601100
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В	7.84238800	3.94738000	-0.75665900
С	1.13967300	1.13970000	0.00002500
Н	0.37161600	0.37164900	0.00002600
С	2.07306000	1.19220700	1.03254500
Н	2.04640800	0.47655200	1.84645400
С	3.05218100	2.19254400	1.00125200
С	4.09316000	2.32721000	2.02407000
С	4.39884300	1.51860800	3.13162200
Н	3.88667400	0.62774500	3.45843200
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С	5.50250300	0.42031600	5.57387600
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Н	6.02754600	0.06940400	6.46848500
Н	5.43335800	-0.42332400	4.87858800
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Н	7.61915500	0.28480100	3.84113600
Н	8.19205300	0.70731900	5.46629900
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С	8.01093900	3.63177100	0.85023100
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С	8.65213700	2.86707500	-1.70141100
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Н	10.34064600	2.57454700	-0.38831600
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С	10.77749800	4.38126500	-1.49631300
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С	9.89466100	5.51305500	-0.91890300
Н	10.30620000	6.47895400	-1.25558900
Н	9.99994800	5.51369200	0.17561000
С	8.38356800	5.41261600	-1.25117300
Н	7.89470000	6.24426100	-0.71325200
С	8.08148800	5.63892900	-2.75521900
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Н	6.99073700	5.74629200	-2.87131500
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н	9.62901000	4.66223000	-3.91879400
С	8.32752000	3.08563500	-3.20040400
н	7.27148300	2.81894700	-3.37375900
н	8.90205400	2.39041900	-3.83453800
N	3.34472600	4.96422000	-1.93701100
N	3.19145400	5.82583800	-2.95996200
N	3.79343400	6.21762200	1.03603000
Н	2.78218200	6.06160600	0.97087600
Н	3.99497100	6.05270700	2.02336200
В	3.94737700	7.84240600	0.75665900
C	1.19218500	2.07308300	-1.03250000
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C	1.51862500	4.39884500	-3.13160000
Н	0.62775700	3.88668600	-3.45841200
C	2.09111900	5.52009700	-3.72309900
C	1.60715700	6.27588100	-4.95713400
C	0.42036700	5.50249500	-5.57387400
Н	0.70997700	4.48869400	-5.87154700
н	0.06947200	6.02753200	-6.46849200
н	-0.42327900	5.43337800	-4.87858900
С	2.71372700	6.36673000	-6.03568400
Н	3.57560600	6.95624900	-5.71458000
н	2.30798300	6.84177100	-6.93615800
н	3.07147900	5.36880800	-6.31300100
С	1.09584800	7.68719000	-4.57419600
Н	0.28488800	7.61917500	-3.84116600
Н	0.70742700	8.19204100	-5.46633400
н	1.87424400	8.32448200	-4.14642000
С	4.19431700	6.90154300	-3.12360700
Н	3.70962600	7.70301700	-3.67920100
н	5.01281500	6.50666000	-3.73796100
С	4.70892800	7.42743400	-1.78200200
н	5.47104100	8.18069600	-2.01792100
н	5.26297900	6.61760200	-1.29497000
С	3.63179700	8.01093400	-0.85023900
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Н	3.47562300	9.06188900	-1.12774900
С	2.86705100	8.65216600	1.70137700
Н	1.82665800	8.35453500	1.46706700
С	2.96028900	10.17043900	1.40261000
Н	2.57453700	10.34064900	0.38824700
Н	2.29387000	10.74265200	2.06977900
С	4.38123300	10.77753100	1.49626800
Н	4.38871800	11.74953700	0.98125700
Н	4.60663800	11.01142500	2.54226900
С	5.51303800	9.89468900	0.91889300
Н	6.47893000	10.30624000	1.25558900
Н	5.51369400	9.99995600	-0.17562100
С	5.41260100	8.38360200	1.25119000
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Ν	5.19660900	5.20342100	-0.00548700
Ν	3.30520500	4.98788400	1.91680800
Ν	2.43120600	5.16631700	2.92605200
С	5.22636500	6.12439100	0.97866900
С	6.20311700	7.12716200	1.00839800
С	7.15169100	7.16528200	-0.01029000
С	4.17482400	6.00766600	1.99158600
С	3.85684500	6.84138200	3.07666000
С	2.72834700	6.28334200	3.66738800
С	1.95704300	6.79662400	4.87984500
С	2.72459200	7.99597000	5.47941000
С	0.55212900	7.30134500	4.46595500
С	1.84883000	5.71574000	5.98254000
С	1.35665400	4.16669700	3.10575500
С	0.86448300	3.59769700	1.77516300
С	0.27599700	4.62476500	0.79284700
В	0.43833900	4.21664900	-0.79770600
Ν	2.05496400	4.44810200	-1.15648500
Н	2.18266500	3.99907900	-2.06465800
С	2.38748400	5.87919900	-1.38040700
С	0.01617500	2.66401600	-1.14717900
С	-1.45422200	2.43839000	-0.70828100
С	-2.48487600	3.41603700	-1.31814800
С	-2.02012800	4.88963600	-1.39717200
С	-0.53543700	5.11227100	-1.79224000
С	-0.27337300	4.78411200	-3.28454100
С	-0.41124100	3.29251900	-3.65691800
С	0.24103500	2.32610600	-2.64417200
Ν	4.98270400	3.30676800	-1.92272900
Ν	5.16168500	2.43091700	-2.93026700
С	6.11504500	5.23394800	-0.99196200
С	7.11435600	6.21409500	-1.02655100
С	5.99945300	4.17953900	-2.00200000
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С	6.78923900	1.95712700	-4.88643200
С	7.98458400	2.72722600	-5.49067300
С	7.29961500	0.55500800	-4.47002600
С	5.70622500	1.84234600	-5.98639100
С	4.16524600	1.35259000	-3.10505000
С	3.60082300	0.86191300	-1.77196900
С	4.63200600	0.27923900	-0.79051300
В	4.22634200	0.44361000	0.80044500
Ν	4.45277100	2.06185900	1.15514000
С	5.88309800	2.39985300	1.37587000
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С	2.45472300	-1.45547100	0.71835700
С	3.43710400	-2.48129300	1.32874800
С	4.90916000	-2.01112800	1.40408700
С	5.12718100	-0.52478700	1.79553800
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Н	0.61381400	1.92952500	-0.58091700
Н	1.32565500	2.31062900	-2.83934100
н	-0.09688300	1.30059400	-2.86684500
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н	0.02710800	3.12398500	-4.65246900
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Н	0.74553100	5.11127000	-3.54898700
н	-0.36969600	6.19770400	-1.67768100
н	-2.68659400	5.42615700	-2.09319900
н	-2.18394400	5.35995500	-0.41837700
н	-2.76188500	3.06806600	-2.31885400
Н	-3.41573900	3.36549300	-0.73410900
н	-1.77392500	1.40851900	-0.93753900
н	-1.50007100	2.52222000	0.38650200
н	-0.77631300	4.78234200	1.06375800
н	0.75361700	5.60370500	0.96143600
н	1.69144900	3.04142000	1.32205700
н	0.12402300	2.82820100	2.02524000
н	1.74068500	3.37479100	3.76096400
н	0.54040000	4.66807800	3.62405300
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н	1.36471100	6.14426000	6.86748000
н	1.25936200	4.84911500	5.67451800
н	0.63170500	8.09514100	3.71549500
н	-0.08078900	6.51418600	4.04776400
н	0.03588800	7.71101100	5.34191400
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Н	4.84235000	1.25067700	-5.67487500
Н	5.34708100	2.83334800	-6.28587900
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Н	4.79283800	-0.77308200	-1.05948800
Н	5.60885900	0.76006300	-0.96208500
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Н	2.32077100	1.32860900	2.84352500
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Н	3.06482500	-1.46320400	3.77607800
Н	3.14190500	0.03691600	4.65805200
Н	5.39072100	-0.92418200	3.94155400
Н	5.12469000	0.75991800	3.54957100
Н	6.21181600	-0.35542400	1.67873800
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Н	5.37829700	-2.17537400	0.42479500
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Fe	5.57854700	7.73066400	5.70169500
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Ν	2.55413600	7.84263900	7.39106200
С	4.55665100	10.53981600	6.27297000
С	4.52536900	11.93773400	6.29391300
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С	3.50837400	9.69552400	6.85134800
С	2.28931600	10.03134800	7.46012600
С	1.68769200	8.82463100	7.80324500
С	0.33836400	8.61214600	8.48335500
С	-0.24147000	9.99162100	8.86770100
С	0.48277200	7.78914500	9.78655000
С	-0.66558000	7.93661400	7.51622800
С	2.47621300	6.37624100	7.55795500
С	3.12888000	5.62234000	6.39989900
С	2.50318000	5.88922000	5.02103100
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С	2.77994800	5.72763000	2.28826600
С	1.76693200	4.55051200	2.27076700
С	2.35095700	3.16355600	2.63617600
С	3.39480700	3.16411100	3.77937300
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С	3.78196300	5.63850400	1.10851200
С	4.33127500	8.25645000	3.14676900
Ν	4.65186100	7.04868100	3.85684300
С	3.14171200	8.96353600	3.39322700
С	2.86084500	10.15020000	2.71538100
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Ν	7.49671800	8.36490300	4.58522400
Ν	8.60287600	7.84662700	4.01241200
С	6.59799700	10.54115800	5.13265200
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2-PHPh

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C -7.88062500 5.75382200 5.90587300 C -7.14207200 6.49830000 4.99035600 C -5.03604100 4.24768900 7.86475600 C -5.42670300 3.36447500 8.88456300 C -4.25120000 2.94727000 9.49699400 C -4.10311400 1.97725800 10.66636500 C -3.41063800 2.65043200 11.87706400 C -3.4325900 0.69799000 10.23531000 C -3.51343600 1.54405700 11.12590000 C -1.09140300 2.33809500 6.96564200 C -0.56212700 1.18446600 4.50171600 C -0.56212700 1.8443600 5.15336200 C 1.90934900 2.15483800 5.96458800 C 0.94594200 3.16390300 5.2799400 C 1.0389000 2.28769300 2.81434100 C -0.20670300 1.4960300 3.02735200 C -3.43894600 3.11138200<	С	-7.22328000	4.99411500	6.86956000
C -7.14207200 6.49830000 4.99035600 C -5.74603000 6.46175700 5.06493600 C -5.03604100 4.24768900 7.86475600 C -4.25120000 2.94727000 9.49699400 C -4.10311400 1.97725800 10.66636500 C -3.41063800 2.65043200 11.87706400 C -3.34325900 0.69799000 10.23531000 C -3.34325900 0.69799000 10.23531000 C -1.78360300 3.60383200 9.1232600 C -1.09140300 2.33809500 6.96564200 C -0.90544400 3.56432500 7.87194900 C -0.9054400 3.16390300 5.27909400 C -0.41905100 0.17132600 3.80755200 C 1.9034900 2.15483800 5.96458800 C 1.93597500 3.45062200 3.80755200 C 1.33597500 3.45062200 3.81434100 C -2.0670300 1.49600300	С	-7.88062500	5.75382200	5.90587300
C -5.74603000 6.46175700 5.06493600 C -5.03604100 4.24768900 7.86475600 C -4.25120000 2.94727000 9.49699400 C -4.10311400 1.97725800 10.66636500 C -3.41063800 2.65043200 11.87706400 C -3.34325900 0.69799000 10.23531000 C -5.51343600 1.54405700 11.12590000 C -1.78360300 3.60383200 9.12322600 C -0.90544400 3.56432500 7.87194900 C -1.09140300 2.33809500 6.96564200 C -0.56212700 1.18446600 4.50171600 C -0.41905100 0.17132600 5.15336200 C 1.8937500 3.45062200 3.80755200 C 1.90934900 2.28769300 2.81434100 C -0.20670300 1.4960300 3.02735200 C -3.43894600 3.11138200 3.94869001 C -5.7552100 1.877414	С	-7.14207200	6.49830000	4.99035600
C -5.03604100 4.24768900 7.86475600 C -5.42670300 3.36447500 8.88456300 C -4.25120000 2.94727000 9.49699400 C -4.10311400 1.97725800 10.66636500 C -3.41063800 2.65043200 11.87706400 C -3.34325900 0.69799000 10.23531000 C -5.51343600 3.60383200 9.12322600 C -1.78360300 3.60383200 9.12322600 C -0.90544400 3.56432500 7.87194900 C -1.09140300 2.33809500 6.96564200 C -0.56212700 1.18446600 4.50171600 C -0.56212700 1.1848060 5.9645880 C 0.44905100 0.17132600 5.15336200 C 1.84537800 0.70735400 2.8434100 C 1.3899400 3.16390300 5.27909400 C 1.33597500 3.45062200 3.80755200 C 1.33597500 3.45062200 <td>С</td> <td>-5.74603000</td> <td>6.46175700</td> <td>5.06493600</td>	С	-5.74603000	6.46175700	5.06493600
C -5.42670300 3.36447500 8.88456300 C -4.25120000 2.94727000 9.49699400 C -4.10311400 1.97725800 10.66636500 C -3.41063800 2.65043200 11.87706400 C -3.34325900 0.69799000 10.23531000 C -5.51343600 1.54405700 11.12590000 C -1.78360300 3.60383200 9.12322600 C -0.90544400 3.56432500 7.87194900 C -1.09140300 2.33809500 6.96564200 C -0.56212700 1.18446600 4.50171600 C -0.56212700 1.84537800 5.7423500 C 1.9934900 2.1543800 5.96458800 C 1.9934900 2.1543800 5.9645800 C 1.9934900 2.8769300 2.81434100 C -0.20670300 1.4960303 3.02735200 C 1.10389000 2.8769300 2.81434100 C -5.75522100 1.87741400	С	-5.03604100	4.24768900	7.86475600
C -4.25120000 2.94727000 9.49699400 C -4.10311400 1.97725800 10.66636500 C -3.41063800 2.65043200 11.87706400 C -3.34325900 0.69799000 10.23531000 C -5.51343600 1.54405700 11.12590000 C -1.78360300 3.60383200 9.12322600 C -0.90544400 3.56432500 7.87194900 C -1.09140300 2.33809500 6.96564200 C -0.56212700 1.18446600 4.50171600 C -0.41905100 0.17132600 5.15336200 C 1.90934900 2.15483800 5.96458800 C 0.94594200 3.16390300 5.27909400 C 1.33597500 3.45062200 3.80755200 C 1.0389000 2.28769300 2.81434100 C -0.20670300 1.49600303 3.02735200 C -3.43894600 3.11138200 3.94869000 C -5.7252100 1.8774140	С	-5.42670300	3.36447500	8.88456300
C -4.10311400 1.97725800 10.66636500 C -3.41063800 2.65043200 11.87706400 C -3.34325900 0.69799000 10.23531000 C -5.51343600 1.54405700 11.12590000 C -1.78360300 3.60383200 9.12322600 C -0.90544400 3.56432500 7.87194900 C -1.09140300 2.33809500 6.96564200 C -0.56212700 1.18446600 4.50171600 C 0.41905100 0.17132600 5.15336200 C 1.90934900 2.15483800 5.96458800 C 0.94594200 3.16390300 5.27909400 C 1.33597500 3.45062200 3.80755200 C 1.0389000 2.28769300 2.81434100 C -0.20670300 1.49600300 3.02735200 C -3.43894600 3.11138200 3.94869000 C -5.7252100 1.87741400 2.83108500 C -5.77522100 1.87741400	С	-4.25120000	2.94727000	9.49699400
C -3.41063800 2.65043200 11.87706400 C -3.34325900 0.69799000 10.23531000 C -5.51343600 1.54405700 11.12590000 C -1.78360300 3.60383200 9.12322600 C -0.90544400 3.56432500 7.87194900 C -1.09140300 2.33809500 6.96564200 C -0.56212700 1.18446600 4.50171600 C 0.41905100 0.17132600 5.15336200 C 1.84537800 0.70735400 5.42359000 C 1.90934900 2.15483800 5.06458800 C 0.94594200 3.16390300 5.27909400 C 1.33597500 3.45062200 3.80755200 C 1.33597500 3.45062200 3.80755200 C 1.0389000 2.28769300 2.81434100 C -6.20670300 1.49600300 3.02735200 C -3.43894600 3.11138200 3.94869000 C -5.72522100 1.87741400 </td <td>С</td> <td>-4.10311400</td> <td>1.97725800</td> <td>10.66636500</td>	С	-4.10311400	1.97725800	10.66636500
C -3.34325900 0.69799000 10.23531000 C -5.51343600 1.54405700 11.12590000 C -1.78360300 3.60383200 9.12322600 C -0.90544400 3.56432500 7.87194900 C -1.09140300 2.33809500 6.96564200 C -0.56212700 1.18446600 4.50171600 C 0.41905100 0.17132600 5.15336200 C 1.84537800 0.70735400 5.42359000 C 1.90934900 2.15483800 5.96458800 C 0.94594200 3.16390300 5.27909400 C 1.33597500 3.45062200 3.80755200 C 1.33597500 3.45062200 3.80755200 C -0.20670300 1.4960300 3.02735200 C -3.43894600 3.11138200 3.94869000 C -5.33169500 1.58343400 4.1380800 C -5.7252100 1.87741400 2.83108500 C -5.17679000 8.08909700 <td>С</td> <td>-3.41063800</td> <td>2.65043200</td> <td>11.87706400</td>	С	-3.41063800	2.65043200	11.87706400
C -5.51343600 1.54405700 11.12590000 C -1.78360300 3.60383200 9.12322600 C -0.90544400 3.56432500 7.87194900 C -1.09140300 2.33809500 6.96564200 C -0.56212700 1.18446600 4.50171600 C 0.41905100 0.17132600 5.15336200 C 1.84537800 0.70735400 5.42359000 C 1.90934900 2.15483800 5.96458800 C 0.94594200 3.16390300 5.27909400 C 1.33597500 3.45062200 3.80755200 C 1.0389000 2.28769300 2.81434100 C -0.20670300 1.49600300 3.02735200 C -3.43894600 3.11138200 3.94869000 C -5.33169500 1.58343400 4.13808000 C -5.72522100 1.87741400 2.83108500 C -5.17679000 8.08909700 3.10701200 C -5.07135900 9.91437700 <td>С</td> <td>-3.34325900</td> <td>0.69799000</td> <td>10.23531000</td>	С	-3.34325900	0.69799000	10.23531000
C -1.78360300 3.60383200 9.12322600 C -0.90544400 3.56432500 7.87194900 C -1.09140300 2.33809500 6.96564200 C -0.56212700 1.18446600 4.50171600 C 0.41905100 0.17132600 5.15336200 C 1.84537800 0.70735400 5.42359000 C 1.90934900 2.15483800 5.96458800 C 0.94594200 3.16390300 5.27909400 C 1.33597500 3.45062200 3.80755200 C 1.0389000 2.28769300 2.81434100 C -0.20670300 1.49600300 3.02735200 C -3.43894600 3.11138200 3.94869000 C -4.20452800 2.19331500 4.69128400 C -5.33169500 1.87741400 2.83108500 C -5.72522100 1.87741400 2.83108500 C -3.84912700 3.9608800 2.63338400 C -5.17679000 8.08909700	С	-5.51343600	1.54405700	11.12590000
C -0.90544400 3.56432500 7.87194900 C -1.09140300 2.33809500 6.96564200 C -0.56212700 1.18446600 4.50171600 C 0.41905100 0.17132600 5.15336200 C 1.84537800 0.70735400 5.42359000 C 1.90934900 2.15483800 5.96458800 C 0.94594200 3.16390300 5.27909400 C 1.33597500 3.45062200 3.80755200 C 1.10389000 2.28769300 2.81434100 C -0.20670300 1.49600300 3.02735200 C -3.43894600 3.11138200 3.94869000 C -4.20452800 2.19331500 4.69128400 C -5.33169500 1.58343400 4.13808000 C -5.72522100 1.87741400 2.83108500 C -4.97721600 2.78730300 2.08138500 C -5.17679000 8.08909700 3.10701200 C -5.07135900 9.91437700 <td>С</td> <td>-1.78360300</td> <td>3.60383200</td> <td>9.12322600</td>	С	-1.78360300	3.60383200	9.12322600
C -1.09140300 2.33809500 6.96564200 C -0.56212700 1.18446600 4.50171600 C 0.41905100 0.17132600 5.15336200 C 1.84537800 0.70735400 5.42359000 C 1.90934900 2.15483800 5.96458800 C 0.94594200 3.16390300 5.27909400 C 1.33597500 3.45062200 3.80755200 C 1.0389000 2.28769300 2.81434100 C -0.20670300 1.49600300 3.02735200 C -3.43894600 3.11138200 3.94869000 C -4.20452800 2.19331500 4.69128400 C -5.3169500 1.58343400 4.13808000 C -5.7252100 1.87741400 2.83108500 C -4.97721600 2.78730300 2.08138500 C -5.17679000 8.08909700 3.10701200 C -5.17679000 8.08909700 1.0701200 C -5.07135900 9.91437700	С	-0.90544400	3.56432500	7.87194900
C -0.56212700 1.18446600 4.50171600 C 0.41905100 0.17132600 5.15336200 C 1.84537800 0.70735400 5.42359000 C 1.90934900 2.15483800 5.96458800 C 0.94594200 3.16390300 5.27909400 C 1.33597500 3.45062200 3.80755200 C 1.0389000 2.28769300 2.81434100 C -0.20670300 1.49600300 3.02735200 C -3.43894600 3.11138200 3.94869000 C -4.20452800 2.19331500 4.69128400 C -5.33169500 1.58343400 4.13808000 C -5.72522100 1.87741400 2.83108500 C -4.87593400 7.19643200 4.14878900 C -5.17679000 8.08909700 3.10701200 C -5.07135900 9.91437700 0.87088300 C -2.9478200 1.070999600 1.90860500 C -2.94784700 8.76258500 <td>С</td> <td>-1.09140300</td> <td>2.33809500</td> <td>6.96564200</td>	С	-1.09140300	2.33809500	6.96564200
C 0.41905100 0.17132600 5.15336200 C 1.84537800 0.70735400 5.42359000 C 0.94594200 3.16390300 5.27909400 C 0.34597500 3.45062200 3.80755200 C 1.10389000 2.28769300 2.81434100 C -0.20670300 1.49600300 3.02735200 C -3.43894600 3.11138200 3.94869000 C -4.20452800 2.19331500 4.69128400 C -5.33169500 1.58343400 4.13808000 C -5.72522100 1.87741400 2.83108500 C -4.97721600 2.78730300 2.08138400 C -5.17679000 8.08909700 3.10701200 C -3.95351300 8.48043900 2.57663100 C -3.70524400 9.44886200 1.42307000 C -5.07135900 9.91437700 0.87088300 C -2.94792200 10.70999600 1.90860500 C -2.94784700 8.76258500<	С	-0.56212700	1.18446600	4.50171600
C 1.84537800 0.70735400 5.42359000 C 1.90934900 2.15483800 5.96458800 C 0.94594200 3.16390300 5.27909400 C 1.33597500 3.45062200 3.80755200 C 1.10389000 2.28769300 2.81434100 C -0.20670300 1.49600300 3.02735200 C -3.43894600 3.11138200 3.94869000 C -4.20452800 2.19331500 4.69128400 C -5.33169500 1.58343400 4.13808000 C -5.72522100 1.87741400 2.83108500 C -4.97721600 2.78730300 2.08138500 C -4.87593400 7.19643200 4.14878900 C -5.17679000 8.08909700 3.10701200 C -3.95351300 8.48043900 2.57663100 C -3.70524400 9.44886200 1.42307000 C -2.94792200 10.7099600 1.90860500 C -2.94784700 8.76258500 </td <td>С</td> <td>0.41905100</td> <td>0.17132600</td> <td>5.15336200</td>	С	0.41905100	0.17132600	5.15336200
C 1.90934900 2.15483800 5.96458800 C 0.94594200 3.16390300 5.27909400 C 1.33597500 3.45062200 3.80755200 C 1.10389000 2.28769300 2.81434100 C -0.20670300 1.49600300 3.02735200 C -3.43894600 3.11138200 3.94869000 C -3.43894600 3.11138200 3.94869000 C -4.20452800 2.19331500 4.69128400 C -5.33169500 1.58343400 4.13808000 C -5.72522100 1.87741400 2.83108500 C -4.97721600 2.78730300 2.08138500 C -3.84912700 3.39608800 2.63338400 C -3.84912700 3.39608800 2.57663100 C -3.70524400 9.44886200 1.42307000 C -5.07135900 9.91437700 0.87088300 C -2.94784700 8.76258500 0.25951700 C -0.73965300 7.78346100 4.42168400 C -0.73965300 7.78346100	С	1.84537800	0.70735400	5.42359000
C 0.94594200 3.16390300 5.27909400 C 1.33597500 3.45062200 3.80755200 C 1.10389000 2.28769300 2.81434100 C -0.20670300 1.49600300 3.02735200 C -3.43894600 3.11138200 3.94869000 C -3.43894600 2.19331500 4.69128400 C -5.33169500 1.58343400 4.13808000 C -5.72522100 1.87741400 2.83108500 C -3.84912700 3.39608800 2.63338400 C -3.84912700 3.39608800 2.63338400 C -3.70524400 9.44886200 1.42307000 C -3.70524400 9.44886200 1.42307000 C -2.94792200 10.70999600 1.90860500 C -2.94784700 8.76258500 0.25951700 C -0.73965300 7.78346100 4.42168400 C -0.95435000 9.01318000 5.31685400 C 0.96354700 8.92260000	С	1.90934900	2.15483800	5.96458800
C 1.33597500 3.45062200 3.80755200 C 1.10389000 2.28769300 2.81434100 C -0.20670300 1.49600300 3.02735200 C -3.43894600 3.11138200 3.94869000 C -3.43894600 2.19331500 4.69128400 C -4.20452800 2.19331500 4.69128400 C -5.33169500 1.58343400 4.13808000 C -5.72522100 1.87741400 2.83108500 C -4.97721600 2.78730300 2.08138500 C -3.84912700 3.39608800 2.63338400 C -3.84912700 3.39608800 2.63338400 C -3.70524400 9.44886200 1.42307000 C -3.70524400 9.44886200 1.42307000 C -3.70524400 9.44886200 1.90860500 C -2.9479200 10.70999600 1.90860500 C -2.94784700 8.76258500 0.25951700 C -0.73965300 7.78346100 4.42168400 C -0.95435000 9.01318000	С	0.94594200	3.16390300	5.27909400
C1.103890002.287693002.81434100C-0.206703001.496003003.02735200C-3.438946003.111382003.94869000C-4.204528002.193315004.69128400C-5.331695001.583434004.13808000C-5.725221001.877414002.83108500C-4.977216002.787303002.08138500C-4.977216002.787303002.08138500C-3.849127003.396088002.63338400C-4.875934007.196432004.14878900C-5.176790008.089097003.10701200C-5.071359009.914377000.87088300C-2.9479220010.709996001.90860500C-2.947847008.762585000.25951700C-0.739653007.783461004.42168400C-0.954350009.013180005.31685400C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	1.33597500	3.45062200	3.80755200
C-0.206703001.496003003.02735200C-3.438946003.111382003.94869000C-4.204528002.193315004.69128400C-5.331695001.583434004.13808000C-5.725221001.877414002.83108500C-4.977216002.787303002.08138500C-3.849127003.396088002.63338400C-4.875934007.196432004.14878900C-5.176790008.089097003.10701200C-5.176790008.089097003.10701200C-3.953513008.480439002.57663100C-3.705244009.448862001.42307000C-5.071359009.914377000.87088300C-2.9479220010.709996001.90860500C-2.947847008.762585000.25951700C-1.532312007.767411003.11412200C-0.954350009.013180005.31685400C0.943780008.127800007.13034200C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	1.10389000	2.28769300	2.81434100
C -3.43894600 3.11138200 3.94869000 C -4.20452800 2.19331500 4.69128400 C -5.33169500 1.58343400 4.13808000 C -5.72522100 1.87741400 2.83108500 C -4.97721600 2.78730300 2.08138500 C -3.84912700 3.39608800 2.63338400 C -3.84912700 3.39608800 2.63338400 C -4.87593400 7.19643200 4.14878900 C -5.17679000 8.08909700 3.10701200 C -3.95351300 8.48043900 2.57663100 C -3.70524400 9.44886200 1.42307000 C -3.70524400 9.44886200 1.90860500 C -2.94792200 10.70999600 1.90860500 C -2.94784700 8.76258500 0.25951700 C -1.53231200 7.76741100 3.11412200 C -0.73965300 7.78346100 4.42168400 C 0.94378000 8.12780000 7.13034200 C 0.96354700 8.99260000	С	-0.20670300	1.49600300	3.02735200
C-4.204528002.193315004.69128400C-5.331695001.583434004.13808000C-5.725221001.877414002.83108500C-4.977216002.787303002.08138500C-3.849127003.396088002.63338400C-4.875934007.196432004.14878900C-5.176790008.089097003.10701200C-5.176790008.089097003.10701200C-3.953513008.480439002.57663100C-3.705244009.448862001.42307000C-5.071359009.914377000.87088300C-2.9479220010.709996001.90860500C-2.947847008.762585000.25951700C-1.532312007.767411003.11412200C-0.739653007.783461004.42168400C0.943780008.127800007.13034200C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-3.43894600	3.11138200	3.94869000
C-5.331695001.583434004.13808000C-5.725221001.877414002.83108500C-4.977216002.787303002.08138500C-3.849127003.396088002.63338400C-4.875934007.196432004.14878900C-5.176790008.089097003.10701200C-3.953513008.480439002.57663100C-3.705244009.448862001.42307000C-3.705244009.448862001.42307000C-5.071359009.914377000.87088300C-2.9479220010.709996001.90860500C-2.947847008.762585000.25951700C-1.532312007.767411003.11412200C-0.739653007.783461004.42168400C0.943780008.127800007.13034200C0.963547008.992600009.60408100C0.306370009.823354009.30820200C0.5553700010.147875007.81481900C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-4.20452800	2.19331500	4.69128400
C-5.725221001.877414002.83108500C-4.977216002.787303002.08138500C-3.849127003.396088002.63338400C-4.875934007.196432004.14878900C-5.176790008.089097003.10701200C-3.953513008.480439002.57663100C-3.705244009.448862001.42307000C-3.705244009.914377000.87088300C-2.9479220010.709996001.90860500C-2.947847008.762585000.25951700C-1.532312007.767411003.11412200C-0.739653007.783461004.42168400C-0.954350009.013180005.31685400C0.943780008.127800007.13034200C0.963547008.992600009.60408100C0.306370009.823354009.30820200C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-5.33169500	1.58343400	4.13808000
C-4.977216002.787303002.08138500C-3.849127003.396088002.63338400C-4.875934007.196432004.14878900C-5.176790008.089097003.10701200C-3.953513008.480439002.57663100C-3.705244009.448862001.42307000C-5.071359009.914377000.87088300C-2.9479220010.709996001.90860500C-2.947847008.762585000.25951700C-1.532312007.767411003.11412200C-0.739653007.783461004.42168400C-0.954350009.013180005.31685400C0.963547008.127800007.13034200C0.306370009.823354009.30820200C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-5.72522100	1.87741400	2.83108500
C -3.84912700 3.39608800 2.63338400 C -4.87593400 7.19643200 4.14878900 C -5.17679000 8.08909700 3.10701200 C -3.95351300 8.48043900 2.57663100 C -3.70524400 9.44886200 1.42307000 C -5.07135900 9.91437700 0.87088300 C -2.94792200 10.70999600 1.90860500 C -2.94784700 8.76258500 0.25951700 C -1.53231200 7.76741100 3.11412200 C -0.73965300 7.78346100 4.42168400 C -0.95435000 9.01318000 5.31685400 C 0.94378000 8.12780000 7.13034200 C 0.96354700 8.99260000 9.60408100 C -0.30637000 9.82335400 9.30820200 C -0.55537000 10.14787500 7.81481900 C 0.49492500 11.13375900 7.23302300 C 1.92029000 10.55775	С	-4.97721600	2.78730300	2.08138500
C-4.875934007.196432004.14878900C-5.176790008.089097003.10701200C-3.953513008.480439002.57663100C-3.705244009.448862001.42307000C-5.071359009.914377000.87088300C-2.9479220010.709996001.90860500C-2.947847008.762585000.25951700C-1.532312007.767411003.11412200C-0.739653007.783461004.42168400C-0.954350009.013180005.31685400C0.943780008.127800007.13034200C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-3.84912700	3.39608800	2.63338400
C-5.176790008.089097003.10701200C-3.953513008.480439002.57663100C-3.705244009.448862001.42307000C-5.071359009.914377000.87088300C-2.9479220010.709996001.90860500C-2.947847008.762585000.25951700C-1.532312007.767411003.11412200C-0.739653007.783461004.42168400C-0.954350009.013180005.31685400C0.943780008.127800007.13034200C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-4.87593400	7.19643200	4.14878900
C-3.953513008.480439002.57663100C-3.705244009.448862001.42307000C-5.071359009.914377000.87088300C-2.9479220010.709996001.90860500C-2.947847008.762585000.25951700C-1.532312007.767411003.11412200C-0.739653007.783461004.42168400C-0.954350009.013180005.31685400C0.943780008.127800007.13034200C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-5.17679000	8.08909700	3.10701200
C-3.705244009.448862001.42307000C-5.071359009.914377000.87088300C-2.9479220010.709996001.90860500C-2.947847008.762585000.25951700C-1.532312007.767411003.11412200C-0.739653007.783461004.42168400C-0.954350009.013180005.31685400C0.943780008.127800007.13034200C0.963547008.992600009.60408100C0.306370009.823354009.30820200C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-3.95351300	8.48043900	2.57663100
C-5.071359009.914377000.87088300C-2.9479220010.709996001.90860500C-2.947847008.762585000.25951700C-1.532312007.767411003.11412200C-0.739653007.783461004.42168400C-0.954350009.013180005.31685400C0.943780008.127800007.13034200C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-3.70524400	9.44886200	1.42307000
C-2.9479220010.709996001.90860500C-2.947847008.762585000.25951700C-1.532312007.767411003.11412200C-0.739653007.783461004.42168400C-0.954350009.013180005.31685400C0.943780008.127800007.13034200C1.227967007.826242008.62300600C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-5.07135900	9.91437700	0.87088300
C-2.947847008.762585000.25951700C-1.532312007.767411003.11412200C-0.739653007.783461004.42168400C-0.954350009.013180005.31685400C0.943780008.127800007.13034200C1.227967007.826242008.62300600C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C-0.5553700010.147875007.81481900C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-2.94792200	10.70999600	1.90860500
C-1.532312007.767411003.11412200C-0.739653007.783461004.42168400C-0.954350009.013180005.31685400C0.943780008.127800007.13034200C1.227967007.826242008.62300600C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C-0.5553700010.147875007.81481900C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-2.94784700	8.76258500	0.25951700
C-0.739653007.783461004.42168400C-0.954350009.013180005.31685400C0.943780008.127800007.13034200C1.227967007.826242008.62300600C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C-0.5553700010.147875007.81481900C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-1.53231200	7.76741100	3.11412200
C-0.954350009.013180005.31685400C0.943780008.127800007.13034200C1.227967007.826242008.62300600C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C-0.5553700010.147875007.81481900C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-0.73965300	7.78346100	4.42168400
C0.943780008.127800007.13034200C1.227967007.826242008.62300600C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C-0.5553700010.147875007.81481900C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-0.95435000	9.01318000	5.31685400
C1.227967007.826242008.62300600C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C-0.5553700010.147875007.81481900C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	0.94378000	8.12780000	7.13034200
C0.963547008.992600009.60408100C-0.306370009.823354009.30820200C-0.5553700010.147875007.81481900C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	1.22796700	7.82624200	8.62300600
C-0.306370009.823354009.30820200C-0.5553700010.147875007.81481900C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	0.96354700	8.99260000	9.60408100
C-0.5553700010.147875007.81481900C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-0.30637000	9.82335400	9.30820200
C0.4949250011.133759007.23302300C1.9202900010.557759007.05694800C1.978658009.110677006.51449800	С	-0.55537000	10.14787500	7.81481900
C 1.92029000 10.55775900 7.05694800 C 1.97865800 9.11067700 6.51449800	С	0.49492500	11.13375900	7.23302300
C 1.97865800 9.11067700 6.51449800	С	1.92029000	10.55775900	7.05694800
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C 10.42011300 13.03030900 0.36856800 C 11.46495400 13.95315600 0.48151400 H 11.52202300 14.61606500 1.33805700 C 12.43126000 13.98690200 -0.52298800 H 13.25739100 14.68922500 -0.45780200 C 9.34249500 12.85838700 1.34290500 C 8.94420200 13.56714900 2.48873300 H 9.38953700 14.46012300 2.89817900 C 7.81901700 12.9039200 2.97659000 C 7.84901700 12.9039200 2.9765900 C 7.54786200 14.5440500 4.83595600 H 6.91229400 14.3174020 5.2574020 H 8.54249900 14.06843200 4.43977700 H 5.065900 12.89765500 3.11921900 H 5.61058100 14.98892800 14.06843200 4.81831300 H 5.61058100 1.8225400 1.1401000 C 6.77920500<	Ν	10.33638600	12.19412800	-0.68763500
C 11.46495400 13.95315600 0.48151400 H 11.52202300 14.61606500 1.33805700 C 12.43126000 13.98690200 -0.52298800 H 13.25739100 14.68922500 -0.45780200 C 9.34249500 12.85838700 1.34290500 C 8.94420200 13.56714900 2.48873300 H 9.38953700 14.46012300 2.89817900 C 7.81901700 12.90392000 2.97659000 C 6.92269400 13.31529100 4.14014600 C 7.54786200 14.5405000 4.83595600 H 6.91229400 14.8522200 5.67293200 H 8.54249900 14.1740200 5.23574600 C 5.52701200 13.72612700 3.60884300 H 4.89892800 14.06843200 4.43977700 H 5.61058100 14.54347900 2.88440100 C 6.77920500 12.19835500 5.1986800 H 5.610581000 1.452	С	10.42011300	13.03030900	0.36856800
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C 12.43126000 13.98690200 -0.52298800 H 13.25739100 14.68922500 -0.45780200 C 9.34249500 12.85838700 1.34290500 C 8.94420200 13.56714900 2.48873300 H 9.38953700 14.46012300 2.89817900 C 7.81901700 12.90392000 2.97659000 C 6.92269400 13.31529100 4.14014600 C 7.54786200 14.54405000 4.83595600 H 6.91229400 14.85222000 5.67293200 H 6.91229400 14.31740200 5.23574600 C 5.52701200 13.72612700 3.60884300 H 4.89892800 14.06843200 4.43977700 H 5.61058100 14.54347900 2.88440100 C 6.77920500 12.19835500 5.19968900 H 6.25006600 11.32231400 4.81831300 N 8.51812700 1.84562800 2.12441600 C 6.70149800 1.684	Н	11.52202300	14.61606500	1.33805700
H13.2573910014.68922500-0.45780200C9.3424950012.858387001.34290500C8.9442020013.567149002.48873300H9.3895370014.460123002.89817900C7.8190170012.903920002.97659000C6.9226940013.315291004.14014600C7.5478620014.544050004.83595600H6.9122940014.852220005.67293200H7.6342750015.396067004.15300500H8.5424990014.317402005.23574600C5.5270120013.726127003.60884300H4.8989280014.068432004.43977700H5.0065990012.897655003.11921900H5.6105810014.543479002.88440100C6.7792050012.198355005.19968900H6.2111930012.579566006.05632300H6.2500660011.322314004.81831300N8.5181270011.82054001.14011000N7.6083950011.845628002.12441600C6.7014980010.68478002.16504200H6.4712410010.466872001.11899100H5.7777090010.995072002.65661800C7.319509009.459780002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.36483600H9.411941009.7	С	12.43126000	13.98690200	-0.52298800
C 9.34249500 12.85838700 1.34290500 C 8.94420200 13.56714900 2.48873300 H 9.38953700 14.46012300 2.89817900 C 7.81901700 12.90392000 2.97659000 C 6.92269400 13.31529100 4.14014600 C 7.54786200 14.54405000 4.83595600 H 6.91229400 14.85222000 5.67293200 H 6.91229400 14.31740200 5.23574600 H 8.54249900 14.31740200 5.3574600 C 5.52701200 13.72612700 3.60884300 H 4.8982800 14.06843200 4.43977700 H 5.00659900 12.8976500 5.19968900 C 6.77920500 12.19835500 5.6189700 H 5.61058100 11.8205400 1.14011000 C 6.70149800 11.84562800 2.12441600 N 8.51812700 11.84562800 2.12441600 C 6.70149800 10.68497800 </td <td>Н</td> <td>13.25739100</td> <td>14.68922500</td> <td>-0.45780200</td>	Н	13.25739100	14.68922500	-0.45780200
C 8.94420200 13.56714900 2.48873300 H 9.38953700 14.46012300 2.89817900 C 7.81901700 12.90392000 2.97659000 C 6.92269400 13.31529100 4.14014600 C 7.54786200 14.54405000 4.83595600 H 6.91229400 14.85222000 5.67293200 H 7.63427500 15.39606700 4.15300500 H 8.54249900 14.31740200 5.23574600 C 5.52701200 13.72612700 3.60884300 H 4.8982800 14.06843200 4.43977700 H 5.00659900 12.89765500 3.11921900 H 5.61058100 14.54347900 2.88440100 C 6.77920500 12.19835500 5.19968900 H 6.21119300 12.57956600 6.05632300 H 6.25006600 11.32231400 4.81831300 N 8.51812700 1.84562800 2.12441600 C 6.70149800 1.64574890	С	9.34249500	12.85838700	1.34290500
H9.3895370014.460123002.89817900C7.8190170012.903920002.97659000C6.9226940013.315291004.14014600C7.5478620014.544050004.83595600H6.9122940014.852220005.67293200H7.6342750015.396067004.15300500H8.5424990014.317402005.23574600C5.5270120013.726127003.60884300H4.8989280014.068432004.43977700H5.0065990012.897655003.11921900H5.6105810014.543479002.88440100C6.7792050012.198355005.19968900H6.2111930012.579566006.05632300H7.7593930011.869859005.56189700N8.5181270011.822054001.14011000N7.6083950011.845628002.12441600C6.7014980010.684978002.16504200H6.4712410010.466872001.11899100H5.777709009.99370003.92687300C7.319509008.674089002.79757300H9.459780003.00375400H8.672526008.242826000.79404600H8.630329009.174074000.14400500C7.43845007.220838000.46843600H8.630329009.174074000.14400500C7.43845007.60178000.61996000C7.51331806.036103001.46854600 </td <td>С</td> <td>8.94420200</td> <td>13.56714900</td> <td>2.48873300</td>	С	8.94420200	13.56714900	2.48873300
C 7.81901700 12.90392000 2.97659000 C 6.92269400 13.31529100 4.14014600 C 7.54786200 14.54405000 4.83595600 H 6.91229400 14.85222000 5.67293200 H 7.63427500 15.39606700 4.15300500 H 8.54249900 14.31740200 5.23574600 C 5.52701200 13.72612700 3.60884300 H 4.89892800 14.06843200 4.43977700 H 5.00659900 12.89765500 3.11921900 H 5.61058100 14.54347900 2.88440100 C 6.77920500 12.19835500 5.6189700 H 6.21119300 12.57956600 6.05632300 H 6.25006600 11.32231400 4.81831300 N 8.51812700 11.84562800 2.12441600 C 6.70149800 10.68497800 2.16504200 H 6.47124100 10.46687200 1.11899100 H 5.77770900 9.9937000	Н	9.38953700	14.46012300	2.89817900
C 6.92269400 13.31529100 4.14014600 C 7.54786200 14.54405000 4.83595600 H 6.91229400 14.85222000 5.67293200 H 7.63427500 15.39606700 4.15300500 H 8.54249900 14.31740200 5.23574600 C 5.52701200 13.72612700 3.60884300 H 4.89892800 14.06843200 4.43977700 H 5.00659900 12.89765500 3.11921900 H 5.61058100 14.54347900 2.88440100 C 6.77920500 12.19835500 5.019968900 H 6.21119300 12.57956600 6.05632300 H 6.25006600 11.32231400 4.81831300 N 8.51812700 11.8205400 1.14011000 N 7.60839500 11.84562800 2.16504200 H 6.47124100 10.4687200 1.11899100 H 5.7777090 10.99507200 2.65661800 C 7.31950900 9.45978000	С	7.81901700	12.90392000	2.97659000
C 7.54786200 14.54405000 4.83595600 H 6.91229400 14.85222000 5.67293200 H 7.63427500 15.39606700 4.15300500 H 8.54249900 14.31740200 5.23574600 C 5.52701200 13.72612700 3.60884300 H 4.89892800 14.06843200 4.43977700 H 5.00659900 12.89765500 3.11921900 H 5.61058100 14.54347900 2.88440100 C 6.77920500 12.19835500 5.019968900 H 6.21119300 12.57956600 6.05632300 H 6.25006600 11.32231400 4.81831300 N 8.51812700 11.8205400 1.14011000 N 7.60839500 11.84562800 2.12441600 C 6.70149800 10.68497800 2.65661800 C 7.31950900 9.45978000 2.85820600 H 6.55389000 8.67408900 2.79757300 H 7.43007500 9.69337000 3.92687300 C 8.65070900 8.93356200	С	6.92269400	13.31529100	4.14014600
H6.9122940014.852220005.67293200H7.6342750015.396067004.15300500H8.5424990014.317402005.23574600C5.5270120013.726127003.60884300H4.8989280014.068432004.43977700H5.0065990012.897655003.11921900H5.6105810014.543479002.88440100C6.7792050012.198355005.19968900H6.2111930012.579566006.05632300H7.7593930011.869859005.56189700H6.2500660011.322314004.81831300N8.5181270011.82054001.14011000N7.6083950011.845628002.12441600C6.7014980010.684978002.16504200H6.4712410010.466872001.11899100H5.777709009.095072002.65661800C7.319509009.459780002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.43845007.20838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H6.711982005.28154100 </td <td>С</td> <td>7.54786200</td> <td>14.54405000</td> <td>4.83595600</td>	С	7.54786200	14.54405000	4.83595600
H7.6342750015.396067004.15300500H8.5424990014.317402005.23574600C5.5270120013.726127003.60884300H4.8989280014.068432004.43977700H5.0065990012.897655003.11921900H5.6105810014.543479002.88440100C6.7792050012.198355005.19968900H6.2111930012.579566006.05632300H7.7593930011.869859005.56189700H6.2500660011.322314004.81831300N8.5181270011.82054001.14011000N7.6083950011.845628002.12441600C6.7014980010.684978002.16504200H6.4712410010.466872001.11899100H5.777709009.693370003.92687300C7.319509009.459780002.85820600H6.553890008.674089002.79757300H9.411941009.725295002.36483600H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.513318006.036103001.46854600H6.471982005.304620001.26960300C7.513318006.36103001.46854600H6.711982005.281541001.50253500H6.711982005.281541001.50253500H6.744747006.42839200 </td <td>Н</td> <td>6.91229400</td> <td>14.85222000</td> <td>5.67293200</td>	Н	6.91229400	14.85222000	5.67293200
H8.5424990014.317402005.23574600C5.5270120013.726127003.60884300H4.8989280014.068432004.43977700H5.0065990012.897655003.11921900H5.6105810014.543479002.88440100C6.7792050012.198355005.19968900H6.2111930012.579566006.05632300H7.7593930011.869859005.56189700H6.2500660011.322314004.81831300N8.5181270011.822054001.14011000N7.6083950011.845628002.12441600C6.7014980010.684978002.16504200H6.4712410010.466872001.11899100H5.777709009.95972002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.36483600H9.411941009.725295002.36483600H9.45126608.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	Н	7.63427500	15.39606700	4.15300500
C5.5270120013.726127003.60884300H4.8989280014.068432004.43977700H5.0065990012.897655003.11921900H5.6105810014.543479002.88440100C6.7792050012.198355005.19968900H6.2111930012.579566006.05632300H7.7593930011.869859005.56189700H6.2500660011.322314004.81831300N8.5181270011.822054001.14011000N7.6083950011.845628002.12441600C6.7014980010.684978002.16504200H6.4712410010.466872001.11899100H5.7777090010.995072002.65661800C7.319509009.459780002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H9.411941009.725295002.36483600H9.451266008.172179003.00375400H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H6.711982005.304620001.26960300C8.863270005.281541001.50253500H6.711982005.304620001.26960300C8.863270005.281541001.50253500H6.711982005.28154100<	Н	8.54249900	14.31740200	5.23574600
H4.8989280014.068432004.43977700H5.0065990012.897655003.11921900H5.6105810014.543479002.88440100C6.7792050012.198355005.19968900H6.2111930012.579566006.05632300H7.7593930011.869859005.56189700H6.2500660011.322314004.81831300N8.5181270011.822054001.14011000N7.6083950011.845628002.12441600C6.7014980010.684978002.16504200H6.4712410010.466872001.11899100H5.7777090010.995072002.65661800C7.319509009.459780002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H9.411941009.725295002.36483600B8.672526008.242826000.79404600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H6.711982005.304620001.26960300C8.863270005.281541001.50253500H6.711982005.281541001.202441000	С	5.52701200	13.72612700	3.60884300
H5.0065990012.897655003.11921900H5.6105810014.543479002.88440100C6.7792050012.198355005.19968900H6.2111930012.579566006.05632300H7.7593930011.869859005.56189700H6.2500660011.322314004.81831300N8.5181270011.822054001.14011000N7.6083950011.845628002.12441600C6.7014980010.684978002.16504200H6.4712410010.466872001.11899100H5.777709009.459780002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H9.411941009.725295002.36483600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.98324004.570584000.67005400	Н	4.89892800	14.06843200	4.43977700
H5.6105810014.543479002.88440100C6.7792050012.198355005.19968900H6.2111930012.579566006.05632300H7.7593930011.869859005.56189700H6.2500660011.322314004.81831300N8.5181270011.822054001.14011000N7.6083950011.845628002.12441600C6.7014980010.684978002.16504200H6.4712410010.466872001.11899100H5.7777090010.995072002.65661800C7.319509009.459780002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H9.411941009.725295002.36483600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	Н	5.00659900	12.89765500	3.11921900
C6.7792050012.198355005.19968900H6.2111930012.579566006.05632300H7.7593930011.869859005.56189700H6.2500660011.322314004.81831300N8.5181270011.822054001.14011000N7.6083950011.845628002.12441600C6.7014980010.684978002.16504200H6.4712410010.466872001.11899100H5.7777090010.995072002.65661800C7.319509009.459780002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	Н	5.61058100	14.54347900	2.88440100
H6.2111930012.579566006.05632300H7.7593930011.869859005.56189700H6.2500660011.322314004.81831300N8.5181270011.822054001.14011000N7.6083950011.845628002.12441600C6.7014980010.684978002.16504200H6.4712410010.466872001.11899100H5.7777090010.995072002.65661800C7.319509009.459780002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	С	6.77920500	12.19835500	5.19968900
H7.7593930011.869859005.56189700H6.2500660011.322314004.81831300N8.5181270011.822054001.14011000N7.6083950011.845628002.12441600C6.7014980010.684978002.16504200H6.4712410010.466872001.11899100H5.7777090010.995072002.65661800C7.319509009.459780002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	н	6.21119300	12.57956600	6.05632300
H6.2500660011.322314004.81831300N8.5181270011.822054001.14011000N7.6083950011.845628002.12441600C6.7014980010.684978002.16504200H6.4712410010.466872001.11899100H5.7777090010.995072002.65661800C7.319509009.459780002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H9.85406008.172179003.00375400H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	Н	7.75939300	11.86985900	5.56189700
N 8.51812700 11.82205400 1.14011000 N 7.60839500 11.84562800 2.12441600 C 6.70149800 10.68497800 2.16504200 H 6.47124100 10.46687200 1.11899100 H 5.77770900 10.99507200 2.65661800 C 7.31950900 9.45978000 2.85820600 H 6.55389000 8.67408900 2.79757300 H 7.43007500 9.69337000 3.92687300 C 8.65070900 8.93356200 2.28317900 H 9.41194100 9.72529500 2.36483600 B 8.67252600 8.24282600 0.79404600 H 9.41194100 9.72529500 2.36483600 B 8.67252600 8.24282600 0.79404600 H 9.41194100 9.72083800 0.46843600 H 6.45086500 7.69017800 0.61996000 C 7.51331800 6.03610300 1.46854600 H 7.31074400 6.42839200	Н	6.25006600	11.32231400	4.81831300
N 7.60839500 11.84562800 2.12441600 C 6.70149800 10.68497800 2.16504200 H 6.47124100 10.46687200 1.11899100 H 5.77770900 10.99507200 2.65661800 C 7.31950900 9.45978000 2.85820600 H 6.55389000 8.67408900 2.79757300 H 7.43007500 9.69337000 3.92687300 C 8.65070900 8.93356200 2.28317900 H 9.41194100 9.72529500 2.36483600 B 8.67252600 8.24282600 0.79404600 H 9.41194100 9.72529500 2.36483600 B 8.67252600 8.24282600 0.79404600 H 8.63032900 9.17407400 -0.14400500 C 7.43884500 7.22083800 0.46843600 H 6.45086500 7.69017800 0.61996000 C 7.51331800 6.03610300 1.46854600 H 7.31074400 6.42839200	Ν	8.51812700	11.82205400	1.14011000
C6.7014980010.684978002.16504200H6.4712410010.466872001.11899100H5.7777090010.995072002.65661800C7.319509009.459780002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	Ν	7.60839500	11.84562800	2.12441600
H6.4712410010.466872001.11899100H5.7777090010.995072002.65661800C7.319509009.459780002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H9.8985406008.172179003.00375400H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	С	6.70149800	10.68497800	2.16504200
H5.7777090010.995072002.65661800C7.319509009.459780002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H8.985406008.172179003.00375400H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	Н	6.47124100	10.46687200	1.11899100
C7.319509009.459780002.85820600H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H8.985406008.172179003.00375400H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.99324004.570584000.67005400	н	5.77770900	10.99507200	2.65661800
H6.553890008.674089002.79757300H7.430075009.693370003.92687300C8.650709008.933562002.28317900H8.985406008.172179003.00375400H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	С	7.31950900	9.45978000	2.85820600
H7.430075009.693370003.92687300C8.650709008.933562002.28317900H8.985406008.172179003.00375400H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	Н	6.55389000	8.67408900	2.79757300
C8.650709008.933562002.28317900H8.985406008.172179003.00375400H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	н	7.43007500	9.69337000	3.92687300
H8.985406008.172179003.00375400H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	С	8.65070900	8.93356200	2.28317900
H9.411941009.725295002.36483600B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	Н	8.98540600	8.17217900	3.00375400
B8.672526008.242826000.79404600H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	Н	9.41194100	9.72529500	2.36483600
H8.630329009.17407400-0.14400500C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	В	8.67252600	8.24282600	0.79404600
C7.438845007.220838000.46843600H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	Н	8.63032900	9.17407400	-0.14400500
H6.450865007.690178000.61996000C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	С	7.43884500	7.22083800	0.46843600
C7.513318006.036103001.46854600H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	Н	6.45086500	7.69017800	0.61996000
H7.310744006.428392002.47595100H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400	С	7.51331800	6.03610300	1.46854600
H6.711982005.304620001.26960300C8.863270005.281541001.50253500H8.898324004.570584000.67005400H8.021477004.650406002.40001100	н	7.31074400	6.42839200	2.47595100
C 8.86327000 5.28154100 1.50253500 H 8.89832400 4.57058400 0.67005400	н	6.71198200	5.30462000	1.26960300
H 8.89832400 4.57058400 0.67005400	С	8.86327000	5.28154100	1.50253500
	н	8.89832400	4.57058400	0.67005400
H 8.90147700 4.65919600 2.40901100	н	8.90147700	4.65919600	2.40901100
C 10.11923400 6.18472500 1.45881500	С	10.11923400	6.18472500	1.45881500
H 10.99294600 5.55354500 1.22413300	Н	10.99294600	5.55354500	1.22413300

Н	10.30378600	6.57353900 2.46987600
С	10.03770800	7.39123100 0.48604700
н	10.94668300	7.99317400 0.66424200
С	10.07676700	6.96550300 -1.00013600
н	10.96736700	6.35023800 -1.21528000
Н	10.19296600	7.87987100 -1.60032800
С	8.82821500	6.19985400 -1.49608700
Н	8.83436000	6.16991500 -2.59752700
Н	8.90341500	5.15131000 -1.19051500
С	7.47674200	6.77455400 -1.01116500
н	7.22681200	7.65842000 -1.61909300
н	6.68794300	6.03346300 -1.22614700
С	11.26237500	12.22722900 -1.66348000
С	12.33959800	13.11944300 -1.61052300
Н	13.08088100	13.13483500 -2.40185600
С	11.01858700	11.29261400 -2.76422400
C	11,73212800	11 04564900 -3 94949800
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Н	13.77365600	12.32365500 12.82616500
Н	13.48199800	10.29015300 15.07481800
Н	14.28970500	10.08066100 13.53202400
Н	12.14940200	8.81121800 13.71665200
н	11.09449300	9.32127400 11.62484100
Н	12.82999100	9.49324600 11.41966500
Н	11.38091600	11.27452200 10.28972300
Н	12.68982100	11.89478900 11.26147100
Н	9.70582300	11.87332300 11.87365700
Н	10.77359600	13.26390900 11.78055900
н	8.74951200	10.30816900 14.46074500
н	9.70074600	10.52317000 15.89839000
н	10.62295300	8.15707000 15.63329000
Н	9.68382500	7.97771100 14.15495300
Н	8.49722600	8.41457300 16.95100400
Н	7.55753800	8.35016600 15.46121800
Н	11.37911000	6.40731300 17.65424000
Н	10.42339900	7.88319500 17.86528000
Н	11.04135100	7.03017900 19.27938000
н	10.13560000	4.95432600 20.09023200
н	8.85389800	4.06787600 19.25560000
н	10.48437500	4.15132600 18.55085700
н	8.66003400	6.93059000 20.23267000

Н	7.96451300	7.70212300	18.80117400
Н	7.36452400	6.12899300	19.31512300
Н	8.66737200	3.45834200	17.00535900
Н	7.95266700	1.81728000	15.22028100
Н	6.94833000	0.40346900	13.42343600
Н	5.82685500	1.50187200	11.48116300
Н	4.98426600	2.85396200	9.51742100
Н	4.76150100	3.18378500	7.21307400
Н	3.12317700	3.19139600	7.90441900
Н	3.41064900	3.84445500	6.28362300
Н	2.82419100	6.96551500	8.16157600
Н	2.30538600	5.90389100	6.85278700
Н	2.00998300	5.43856100	8.53781200
Н	6.05068100	5.35582400	6.91950200
Н	4.69563800	5.92357700	5.91731300
Н	5.30089500	6.91335800	7.25237800
Н	5.60845000	7.97278700	10.49203100
Н	4.67929400	7.77619400	9.00674500
Н	2.57756100	7.46213900	10.35631500
Н	3.51914600	7.56317700	11.84014800
Н	4.21881100	9.92010700	11.23740000
Н	3.25890500	9.85623700	9.79146600
Н	2.68657400	12.21552500	11.26841400
Н	3.10470000	11.73485500	13.58582600
Н	1.89096000	13.00054700	13.50253300
Н	1.50896500	11.18698600	15.26708000
Н	0.13783300	11.51910600	14.24175400
Н	0.26102700	9.11829800	14.42289000
Н	2.00414600	9.10716200	14.21291100
Н	1.00735400	8.19704500	12.23201700
Н	-0.48259000	9.31708500	10.70415300
Н	-1.25891100	9.24084400	12.27513100
Н	-1.52965200	11.43965800	11.00139700
Н	-0.99005600	11.60332400	12.65149900
Н	0.61228000	11.95014800	10.08410400
Н	0.35705100	13.12633300	11.35974100
Н	4.85485000	9.25613600	16.50994700
Н	4.49892200	8.77473800	18.91298100
Н	4.20659600	6.42464400	19.69135400
Н	4.27457200	4.57083800	18.02627100
Н	4.60235200	5.06151000	15.62669800

(^{Me}PDP^{tBu})Fe(NH₂)₂

Fe	4.40235100	4.40215800	-0.00004300
Ν	2.92701700	2.92703000	0.00001400
Ν	4.80776700	3.10262300	1.75323900
Ν	5.71472200	3.05436900	2.75540800
Ν	6.20351000	4.15934400	-0.65187100
Н	6.67458000	3.26632000	-0.77450700
Н	6.64317400	4.82839100	-1.28017000
С	0.93351200	0.93373400	0.00008800
Н	0.16604400	0.16634200	0.00011200
С	1.92206800	0.95678600	0.99098300
Н	1.93816400	0.20905000	1.77840700
С	2.89301400	1.95168100	0.96996400
С	3.95421800	2.08723700	1.94996800
С	4.32041900	1.37857300	3.11478600
Н	3.83097000	0.51431600	3.53570200
С	5.44474900	2.01846800	3.61965000
С	6.25534000	1.67060400	4.86170800
С	5.53670000	0.53724200	5.62488700
Н	4.52837700	0.83668400	5.93029500
Н	6.10305900	0.28507400	6.52823800
Н	5.45731300	-0.37020400	5.01673500
С	6.36903100	2.88399200	5.81505400
Н	6.92438900	3.71608200	5.37405700
Н	6.89288800	2.58772300	6.73160300
Н	5.37620300	3.25242900	6.09613900
С	7.66410400	1.15855400	4.47267400
Н	7.59040000	0.28633200	3.81418800
Н	8.21569300	0.86140600	5.37274600
Н	8.26141800	1.91610400	3.95651400
С	6.73681700	4.09248000	2.75408900
Н	7.66536500	3.71277000	3.17938500
Н	6.40557700	4.96750600	3.32552000
Ν	3.10268500	4.80775800	-1.75324200
Ν	3.05443300	5.71472400	-2.75540000
N	4.16021200	6.20348500	0.65158500
Н	3.26735000	6.67476900	0.77458600
Н	4.82968500	6.64314800	1.27942800
С	0.95662600	1.92226700	-0.99084000
Н	0.20886300	1.93841400	-1.77823800
С	1.95161800	2.89310400	-0.96988200
С	2.08723400	3.95428100	-1.94991700
С	1.37859100	4.32047000	-3.11474900
Н	0.51432400	3.83103500	-3.53565900
С	2.01849500	5.44479800	-3.61961100
С	1.67061700	6.25540100	-4.86165700
С	0.53728800	5.53673200	-5.62485400
Н	0.83677000	4.52842400	-5.93027500

Н	0.28510400	6.10309500	-6.52819800
Н	-0.37015900	5.45730000	-5.01670900
С	2.88400500	6.36915200	-5.81499500
Н	3.71606200	6.92455600	-5.37399500
Н	2.58771300	6.89299200	-6.73154700
Н	3.25249600	5.37634300	-6.09607800
С	1.15850900	7.66414100	-4.47260600
Н	0.28629100	7.59039300	-3.81412000
Н	0.86133500	8.21572800	-5.37267100
Н	1.91603600	8.26147900	-3.95644200
С	4.09258300	6.73678400	-2.75411000
Н	3.71284500	7.66541000	-3.17921500
Н	4.96750400	6.40559300	-3.32572900
Н	6.89326100	4.37259200	1.70608300
Н	4.37286600	6.89306100	-1.70612200

(^{Me}PDP^{tBu})Fe(NHMe)₂

Fe	4.30792000	4.31141700	-0.00283200
Ν	5.58742200	5.60060100	-0.00989400
Ν	3.73747600	5.31774400	1.56221800
Ν	2.73451700	5.26414200	2.47441000
С	5.60530800	6.58051500	0.96851900
С	6.57843500	7.57211200	0.97656700
С	7.56136900	7.58927800	-0.02063300
С	4.50542800	6.38101800	1.87997500
С	3.98045600	7.01127500	3.02892500
С	2.85789200	6.28493500	3.39630700
С	1.90468400	6.53880600	4.55684000
С	2.46576000	7.69053200	5.41821800
С	0.51162900	6.97200200	4.03709100
С	1.77287300	5.29207400	5.46386700
С	1.80251500	4.14966300	2.36943300
Ν	2.78020300	4.67769400	-1.01831500
Н	2.90013200	4.49978100	-2.01500200
С	1.80820800	5.75150700	-0.88846000
Ν	5.30997700	3.73992600	-1.57029500
Ν	5.25905200	2.73157300	-2.47668700
С	6.56189600	5.62039700	-0.99366300
С	7.54616500	6.60080200	-1.01236000
С	6.36576700	4.51403400	-1.89796700
С	6.99386300	3.98740300	-3.04734200
С	6.27401400	2.85744700	-3.40466900
С	6.52897000	1.89967000	-4.56119200
С	7.67218300	2.46431100	-5.43153600
С	6.97499100	0.51274500	-4.03593000
С	5.27866300	1.75372400	-5.46110400
С	4.15182400	1.79222700	-2.36101500
Ν	4.69030200	2.79181200	1.01886200
С	5.76967800	1.82606100	0.88862300
Н	2.09910700	3.31951300	3.01941000
Н	0.79362700	4.47088800	2.62844800
Н	2.75406900	4.97146700	5.83144600
Н	1.14730700	5.53020700	6.33226300
Н	1.31043700	4.44443300	4.95106900
Н	0.59326000	7.86708400	3.41118600
Н	0.02192300	6.19382100	3.44390300
Н	-0.14739100	7.20452900	4.88227600
Н	3.45474500	7.44525700	5.82002800
Н	2.54770600	8.61948800	4.84396400
H	1.79430900	/.87861700	6.26319900
H	4.36796900	/.88815800	3.52313800
H	6.56516200	8.32686200	1.75759700
H	8.32580700	8.35943200	-0.02480100
Н	8.29679400	6.58885500	-1.79737200

Н	7.86522100	4.37867400	-3.54832100
Н	7.86090900	1.78953200	-6.27371800
Н	7.41763100	3.44921200	-5.83758500
Н	8.60340400	2.55625600	-4.86248800
Н	7.87256700	0.60443300	-3.41500800
Н	6.20342000	0.02065600	-3.43611700
Н	7.20813600	-0.14925500	-4.87861400
Н	5.51690300	1.12490100	-6.32711300
Н	4.43696300	1.28820400	-4.94136400
Н	4.94917300	2.73047800	-5.83264100
Н	4.47893800	0.78424700	-2.61617500
Н	3.31633300	2.07934100	-3.00840800
Н	5.96273100	1.59636900	-0.16507500
Н	6.73132500	2.16751500	1.31687300
Н	5.52334600	0.87000600	1.38322800
Н	2.14106200	6.71305900	-1.32365300
Н	0.85105600	5.49639400	-1.37645200
Н	1.58310700	5.94868300	0.16546500
Н	4.51710400	2.91609200	2.01584300
Н	3.81995300	1.81767400	-1.32119000
Н	1.82469400	3.81273100	1.33116500

(^{Me}PDP^{tBu})Fe(NHPh)₂

Fe	5.63977700	8.63906300	5.91898400
Ν	5.50007800	10.83564100	5.84500200
Ν	3.47704300	9.30674500	6.64304600
Ν	2.30756200	8.75299100	7.00501300
С	4.42769000	11.49045400	6.33294100
С	4.40340200	12.88746900	6.41451500
С	5.51661900	13.60117700	5.97280800
С	3.31161800	10.63038900	6.73744700
С	2.00824700	10.92764200	7.18282800
С	1.37375600	9.70230300	7.34971700
С	-0.05921500	9.42588900	7.78708200
С	-0.70496200	10.75425600	8.23683000
С	-0.10573600	8.44724500	8.98433400
С	-0.89027100	8.86850400	6.60523300
С	2.24604300	7.29396500	6.98571600
С	4.20641900	7.27453600	3.55186400
Ν	4.99964700	7.22785800	4.67738200
С	3.67295500	8.50626000	3.09102800
С	2.86845600	8.57034300	1.95820700
С	2.55043800	7.41886600	1.22936000
С	3.06278200	6.19445500	1.66896200
С	3.86975000	6.11870900	2.80077900
Ν	7.47695400	9.35684500	4.93230300
Ν	8.57114900	8.80464100	4.37926000
С	6.57529400	11.52327100	5.40745500
С	6.61841800	12.92145100	5.45850300
С	7.65350400	10.68511900	4.88206000
С	8.89719600	10.98367200	4.29508400
С	9.47611800	9.75862600	3.97991300
С	10.81976400	9.48711700	3.31550900
С	11.55502000	10.83031100	3.11748800
С	10.62250500	8.84604400	1.91975800
С	11.71068800	8.58741800	4.20584800
С	7.34236300	7.67214900	8.36958900
Ν	6.17847900	7.95072800	7.68997100
С	8.59161900	8.22253500	7.97617400
С	9.76839200	7.91825600	8.65554200
С	9.76954400	7.06297700	9.76204400
С	8.54761900	6.52439900	10.17918000
С	7.36688900	6.81843300	9.50573000
С	8.63044300	7.34512400	4.39488000
Н	5.39228400	7.57145900	8.21599900
H	5.26876600	6.26884700	4.88995800
H	4.25911200	5.15355600	3.12376200
Н	2.83165900	5.28194600	1.12216800
Н	1.92264000	7.47489900	0.34452700
Н	2.48159300	9.53664300	1.63900000

Н	3.89777600	9.41221300	3.64999800
Н	8.61166000	8.92393200	7.14826200
Н	10.70155700	8.37080400	8.32241600
Н	10.69089000	6.83195000	10.28926800
Н	8.51351900	5.86175800	11.04232800
Н	6.42895900	6.38035000	9.84648800
Н	2.41109500	6.88516500	7.98779900
Н	1.28051000	6.95785100	6.60880900
Н	0.49261800	8.82263000	9.82198600
Н	-1.14016700	8.33777800	9.32982700
Н	0.25879900	7.44921300	8.72730900
Н	-0.51920200	7.90437100	6.24539000
Н	-1.93114500	8.72468800	6.91827200
Н	-0.88053900	9.56497000	5.76019100
Н	-0.15780800	11.20446300	9.07231800
Н	-0.74575300	11.48068700	7.41805700
Н	-1.73264800	10.56887700	8.56725300
Н	1.57440900	11.90122300	7.34892700
Н	3.53531200	13.39838500	6.81647200
Н	5.52408000	14.68600500	6.02849800
Н	7.49336600	13.45700000	5.10639500
Н	9.32050400	11.95831600	4.11018500
Н	12.52826000	10.64898800	2.64900100
Н	10.99208100	11.50641700	2.46479100
Н	11.73105200	11.33684000	4.07267400
Н	11.59607500	8.70656500	1.43550700
Н	10.13602600	7.86741000	1.96609300
Н	10.01199100	9.49095300	1.27859800
Н	12.69516300	8.46689500	3.73905100
Н	11.85632700	9.03802500	5.19366500
Н	11.29243700	7.58838100	4.35295300
Н	7.61121100	6.98369000	4.24059000
Н	9.27356600	6.98453900	3.59523100
Н	8.99814700	6.99967600	5.36673200
Н	3.03759200	6.95794200	6.31170300

(MePDP^{tBu})Fe(PHPh)₂

Fe	-3.22893900	5.71963100	6.05932000
Ν	-5.35775900	5.74618500	5.97696000
Ν	-3.92238300	4.29407000	7.66040300
Ν	-3.40853700	3.48878000	8.61107100
Ν	-3.77733500	7.17691900	4.40672700
Ν	-3.18220300	7.96616000	3.49098600
Р	-1.95920100	3.98470800	4.83442000
Р	-1.98584100	7.43500000	7.34831400
С	-6.06837900	4.98468800	6.83508000
С	-7.46603000	4.97119400	6.80900100
С	-8.12324400	5.77186800	5.87637200
С	-7.38502900	6.55977500	4.99466100
С	-5.98971900	6.52057000	5.07042200
С	-5.25566400	4.20402600	7.76920500
С	-5.59791200	3.33045700	8.81734300
С	-4.39506600	2.88471000	9.35354000
С	-4.17665400	1.92301400	10.51553600
С	-3.31898300	2.57445800	11.62719700
С	-3.52536600	0.60569300	10.02643100
С	-5.54890500	1.56811500	11.12843500
С	-1.95324300	3.45721500	8.72935500
С	-3.28158100	2.94331800	4.08528500
С	-3.92106800	1.95866200	4.86828800
С	-4.90946000	1.13090100	4.33676100
С	-5.28770600	1.24785200	2.99672800
С	-4.66072500	2.20950700	2.20078700
С	-3.67955200	3.04460100	2.73606000
С	-5.09709200	7.28469200	4.19726500
С	-5.34719400	8.15447900	3.12018700
С	-4.10101500	8.57860700	2.67250400
С	-3.78167900	9.52851300	1.52420600
С	-5.09864100	9.89865600	0.80766000
С	-3.14952000	10.83980800	2.05289900
С	-2.85273800	8.85689900	0.48412400
С	-1.72171600	7.97556900	3.48170100
С	-3.34488400	8.43962000	8.08260000
С	-3.77859700	8.30481900	9.41773700
С	-4.78756200	9.11366400	9.94164300
С	-5.40738300	10.08147400	9.14762200
С	-4.99375700	10.23160800	7.82139100
С	-3.97777600	9.43023100	7.30156900
Н	-1.59355200	4.67183500	3.63806200
Н	-1.64514900	6.72332500	8.53767400
Н	-1.60219500	4.30583500	9.32457800
Н	-1.63629500	2.52479700	9.19057200
Н	-2.52524500	0.75279900	9.60863500
Н	-3.43088100	-0.09406400	10.86496400

Н	-4.14163600	0.13137900	9.25510900
Н	-2.30348600	2.80960500	11.29798100
Н	-3.78111500	3.50209500	11.98242600
Н	-3.23755700	1.88896200	12.47862100
Н	-5.40670600	0.88427600	11.97204500
Н	-6.06551500	2.45920800	11.50110100
Н	-6.19875500	1.06909800	10.40144800
Н	-6.58724700	3.05540000	9.14696900
Н	-8.02180900	4.35003200	7.50285500
Н	-9.20855500	5.78186400	5.83670100
Н	-7.87729400	7.19053700	4.26253500
Н	-6.30485900	8.44006300	2.71465200
Н	-4.88350700	10.57496400	-0.02651500
Н	-5.59863700	9.01253400	0.40189500
Н	-5.79408600	10.41143500	1.48090300
Н	-1.86833400	8.60971900	0.89003300
Н	-3.30053600	7.93336200	0.10094800
Н	-2.69774700	9.53497100	-0.36303200
Н	-2.18657800	10.68107800	2.54681000
Н	-2.98073700	11.53161800	1.21944100
Н	-3.81541900	11.32908700	2.77185800
Н	-3.20723800	3.78664100	2.09663800
Н	-4.93791300	2.31284100	1.15354800
Н	-6.05198500	0.59751100	2.57919300
Н	-5.37969000	0.38182000	4.97080800
Н	-3.62598400	1.83169600	5.90779300
Н	-3.65545000	9.58302700	6.27368300
Н	-5.45797300	10.98613600	7.18940100
Н	-6.19333100	10.71128500	9.55629600
Н	-5.09201200	8.98496800	10.97845300
Н	-3.31217200	7.55771700	10.05560700
Н	-1.35717700	8.89855800	3.03699500
Н	-1.34079600	7.11606200	2.92142400
Н	-1.53395400	3.52288000	7.72307400
Н	-1.37989400	7.91385900	4.51715600

(MePDP^{tBu})Fe(OH)₂

Fe	1.88528500	10.95376400	7.61283300
0	2.69136100	12.62839100	7.95361900
Н	3.58139800	12.61148300	8.33647600
0	0.18789500	11.15091200	6.88353200
Н	-0.35828900	10.38772100	6.65072800
Ν	2.26139200	8.90948300	7.78040500
Ν	3.16149700	10.41854100	5.91399000
Ν	3.56662600	11.05880000	4.79362900
Ν	1.53306000	10.43018700	9.71121800
Ν	1.00159200	11.07709600	10.77344300
С	2.89147900	8.22916800	6.77008400
С	3.13050700	6.86054600	6.84623200
С	2.75127200	6.16190000	7.99877600
С	2.17974900	6.86736100	9.06459900
С	1.96270900	8.23581200	8.93693400
С	3.29305200	9.10056900	5.68031400
С	3.80818700	8.89923800	4.38340300
С	3.96938300	10.16351400	3.83018100
С	4.51336800	10.53134800	2.45530400
С	5.87993100	11.24721100	2.58705100
С	3.52003700	11.42072000	1.67078500
С	4.73190200	9.23662500	1.64351000
С	1.45193800	9.11371600	9.97455600
С	0.86678500	8.92022700	11.24264400
С	0.57931500	10.18767300	11.73395400
С	-0.04102700	10.56386700	13.07376000
С	0.99821600	11.28189200	13.96914900
С	-1.29206100	11.45526400	12.89045100
С	-0.48163500	9.27394000	13.79834500
С	3.42791000	12.51258600	4.78248100
С	0.89882800	12.53035400	10.67188200
Н	3.89833100	11.58878300	0.65556100
Н	2.53981900	10.93776800	1.59171600
Н	3.37816700	12.40079400	2.13314900
Н	5.45975600	8.57577900	2.12646200
Н	3.79608400	8.68252600	1.51291300
Н	5.11743600	9.48721700	0.64918900
Н	6.28731900	11.46021000	1.59148000
Н	5.80433900	12.19885000	3.12164400
Н	6.59882100	10.61733700	3.12219400
Н	4.02404900	7.95666600	3.90526700
Н	3.62096900	6.35143800	6.02203400
Н	2.92821600	5.09389400	8.07789700
Н	1.92005800	6.36360100	9.99078800
Н	0.66739400	7.98064900	11.73366200
Н	0.36832200	8.61194100	13.99599100
Н	-0.93542900	9.53066400	14.76181500

Н	-1.22280500	8.71871200	13.21334600
Н	1.87951100	10.65026900	14.12500200
Н	1.33641200	12.22995900	13.54030700
Н	0.55817700	11.50204700	14.94914700
Н	-1.05263400	12.43317600	12.46523200
Н	-2.02567600	10.97126600	12.23633000
Н	-1.76700300	11.62827900	13.86334500
Н	1.20642700	13.00401500	11.60587100
Н	-0.12545500	12.82852900	10.42725300
Н	4.31981000	12.98087800	4.36223400
Н	2.54769100	12.81195800	4.20505100
Н	3.28916200	12.82532800	5.82280200
Н	1.55928900	12.83814700	9.85433300

(^{Me}PDP^{tBu})Fe(SPh)₂

Fe	7.00928300	5.92557200	13.66261500
Ν	7.35287100	3.78784900	13.54571300
Ν	5.67908500	5.16003500	12.04149400
Ν	4.75846700	5.64590800	11.19181100
S	5.51483200	6.73304000	15.27499000
S	8.21029400	7.59436200	12.46421800
С	7.79317100	1.06912800	13.37160900
С	6.86113900	1.67783100	12.53293600
С	6.66403300	3.05875000	12.64695600
С	5.72022800	3.83460600	11.83979100
С	4.79528600	3.46848200	10.84674200
С	4.18088700	4.65033000	10.44373300
С	3.09509700	4.84134900	9.39162700
С	3.65192300	5.59807200	8.16053100
С	2.62040200	3.45120100	8.91516500
С	1.87024000	5.58435800	9.97729800
С	4.51021500	7.08682900	11.23996600
С	3.80706100	6.60903200	14.78425800
С	3.01274800	7.76817300	14.68459000
С	1.66449500	7.68937600	14.33116500
С	1.07101200	6.45169500	14.06668400
С	1.84567200	5.29269700	14.16829700
С	3.19321400	5.36895400	14.52482600
С	8.50181300	1.83084400	14.30020100
С	8.25226900	3.20567300	14.36224600
С	8.89993600	4.12958600	15.29704600
С	9.82527400	3.94027500	16.33872300
С	10.04137200	5.19984400	16.89055900
С	10.94796000	5.58016400	18.05483300
С	10.14177100	6.25848100	19.18906000
С	11.57878300	4.29400600	18.63145000
С	12.10179700	6.49754200	17.58023200
С	9.00694500	7.49990400	16.29129300
С	9.28571400	6.52375200	11.51265300
С	10.54436600	6.13488700	12.00791900
С	11.39549700	5.32634400	11.25287500
С	11.01411300	4.88729800	9.98290000
С	9.76984000	5.27006000	9.47656600
С	8.91677200	6.07829300	10.22968500
Ν	8.56820700	5.42416100	15.20729900
Ν	9.25928900	6.06428100	16.16381200
Н	7.95618600	6.38210800	9.82391400
Н	9.46151900	4.94249200	8.48600700
Н	11.67929000	4.26106600	9.39396800
Н	12.36468700	5.04331900	11.65805100
Н	10.85352800	6.48390300	12.98891300
Н	9.81489700	7.97302200	16.84328900

Н	8.05173400	7.66361800	16.79850800
Н	12.68837100	6.00836300	16.79498800
Н	11.75101300	7.45517000	17.18522800
Н	12.77168900	6.71424800	18.42048300
Н	12.22777300	4.55163500	19.47523300
Н	10.81416700	3.59951400	18.99602000
Н	12.19154400	3.77540100	17.88601700
Н	10.80259200	6.46249300	20.03955700
Н	9.69521100	7.20843000	18.88421800
Н	9.33377000	5.60518600	19.53589300
Н	10.27906400	3.01492300	16.65662900
Н	9.22854600	1.37302800	14.96234800
Н	7.96737100	-0.00085400	13.30237900
Н	6.30036900	1.10038500	11.80613100
Н	4.59389500	2.47915900	10.46732100
Н	3.43434800	2.88124900	8.45378500
Н	2.20973100	2.86202300	9.74232700
Н	1.83246000	3.57166700	8.16406500
Н	2.09307700	6.61815800	10.25171800
Н	1.06584900	5.60706200	9.23285100
Н	1.49540400	5.07939500	10.87365200
Н	4.49964300	5.05934700	7.72324300
Н	2.87191700	5.68517300	7.39508700
Н	3.98902300	6.61037400	8.40208200
Н	5.45519500	7.56989200	11.49850600
Н	4.18022100	7.43829900	10.26442800
Н	3.78179600	4.46085200	14.61911100
Н	1.39581300	4.31956400	13.98145500
Н	0.01974700	6.39085500	13.79712800
Н	1.07429200	8.60087300	14.26451200
Н	3.46788200	8.73268800	14.89117000
Н	8.95340000	7.91672000	15.28232600
Н	3.75911600	7.31486500	12.00061600

(^{BBN}PDP^{tBu})Fe(NH₂)₂⁻

Fe	-2.29031000	4.87538400	5.31056600
Ν	-0.51064300	3.86114600	5.30437700
Ν	-2.08356500	4.01100200	3.18251600
Ν	-2.78500700	3.86530800	2.02494000
С	1.95432400	2.45667300	5.29541100
С	1.13770400	2.49475100	4.15136900
С	-0.06475300	3.18388500	4.17564700
С	-0.97170500	3.26264200	3.04870000
С	-0.95737500	2.64919700	1.77534900
С	-2.12127500	3.04761700	1.13818000
С	-2.60359300	2.65773700	-0.25533400
С	-1.51291500	1.80219200	-0.93696700

С	-2.83517200	3.90200100	-1.14705000
С	-3.88782100	1.79509600	-0.18053700
С	-4.02580500	4.63362400	1.86064900
С	-4.84343400	4.73315100	3.15243900
С	-5.25421000	3.39251000	3.78327700
В	-5.43599800	3.45471400	5.42103200
N	-3.92792900	3.69167100	5.99007900
н	-3.47816700	2.77423300	5.90973400
Н	-3.97248100	3.83750200	6.99904100
С	-6.46603500	4.61766600	5.96467800
С	-7.86014200	4.38805600	5.33172100
С	-8.47160800	2.98682000	5.57160300
С	-7.47811800	1.80681600	5.43659000
С	-6.06877000	2.05142900	6.03162600
С	-6.06938100	2.07947700	7.57956200
C	-6.79351800	3.29274000	8.20746100
C	-6.51025800	4,64684700	7,51384500
N	-1.42985100	5.13141200	7,43580800
N	-1.65061200	5.81491700	8.59206700
C	1.51169500	3.13690400	6.44378000
C	0.30580000	3.82006100	6.42831900
C C	-0 21610900	4 56029100	7 55919500
C C	0 33153300	4 86784000	8 82537900
C C	-0 59908900	5 66832300	9 46806200
C C	-0.49213100	6 29479600	10 85457900
C C	0.80581700	5 79483300	11 52638000
C C	-1 67189500	5 87424200	11 76481000
C C	-0 39917900	7 83821000	10 76159500
C C	-2 9/097700	6 49497800	8 76238400
C C	-2.94097700	7 15874400	7 47505000
C C	-3.44038000	2 12025100	6 8/607200
	-2.400/1300	0.10923100	0.84097300 E 20082700
N	2.03323000	6 99009200	1 62759000
	1 07970600	6 05550400	4.03736900
н Ц	2 25220600	6 96011000	4.71224500
п С	-2.25350000	0.80011900 9.64721500	4 66627000
C C	4.13440700	0.04731300	4.00037900 E 206E4900
	-4.05224500	9.97956000	5.29054600
	-3.70888700	11.19589200	5.05091400
	-2.19457500	10.90567700	5.16/55/00
	-1.72102000	9.55476100	4.59562400
	-1.74724900	9.53977800	3.04/81/00
	-3.16025600	9.57493300	2.42096600
C	-4.201/4300	8.66591200	3.11/09900
	2.89/51000	1.91925100	5.29210500
н	-1.52326200	0.2/3/1500	12.77605000
н	-2.63655400	6.23920000	11.40429800
H	-1./329/200	4.78236100	11.8366/500
Н	0.46422400	8.13220600	10.15495600

Н	-1.28485400	8.29205100	10.30949100
Н	-0.27677300	8.26820000	11.76417000
Н	1.69204300	6.08753700	10.95332400
Н	0.89441700	6.23146900	12.52818900
Н	0.80863800	4.70428600	11.62979900
Н	1.29288300	4.56277500	9.20815700
Н	2.10806100	3.13248800	7.35260700
н	1.44120100	1.98755300	3.23905700
Н	-0.20340600	1.98430300	1.38394000
н	-1.31806200	0.88090400	-0.37770500
н	-1.84136400	1.52066100	-1.94443600
н	-0.57091300	2.35366800	-1.02871100
н	-3.70660300	0.89092400	0.41064300
н	-4.72844400	2.32200300	0.27825100
н	-4.19389100	1.49016800	-1.18965000
н	-1.92269600	4.50570400	-1.21118900
н	-3.10632100	3.58752900	-2.16293900
н	-3.63563700	4.54676200	-0.77616300
н	-3.77125300	5.63578100	1.48501500
н	-4.61505200	4.13312400	1.09176800
н	-4.28278200	5.34766600	3.86436900
н	-5.73078800	5.33412100	2.91011500
н	-4.47814900	2.64049200	3.56347500
н	-6.15547100	3.03167600	3.26564600
н	-5.45413700	1.17886600	5.73726100
н	-7.94692100	0.90938100	5.87953600
н	-7.35736900	1.57733300	4.36892000
н	-8.93102100	2.96115600	6.56655500
н	-9.30695800	2.83385300	4.87003200
н	-8.58468400	5.14383100	5.68312900
н	-7.77013000	4.54662200	4.24742500
н	-6.14720800	5.62681900	5.65071700
н	-5.54090600	5.02329400	7.87464000
н	-7.25071400	5.38201100	7.87490600
н	-7.87296000	3.10554000	8.20658200
н	-6.51879500	3.36817800	9.27168200
н	-6.51058300	1.15731400	7.99773600
н	-5.02329800	2.08032400	7.92396900
Н	-3.67582900	5.76551100	9.13383100
н	-2.80733200	7.25131900	9.53624200
Н	-3.69094100	6.36939400	6.75877900
Н	-4.40573600	7.62259700	7.72243300
Н	-1.44825600	7.89355800	7.06198500
Н	-2.62533400	9.14835700	7.36864000
н	-4.88132800	7.87905800	4.98242000
Н	-5.64678700	10.24198900	4.94815500
Н	-4.72271900	9.82571400	6.38156500
н	-3.91097600	11.60385800	4.05385400
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Н	-3.98381300	12.00305100	5.74834900
Н	-1.63963600	11.75154200	4.74218300
Н	-1.93554200	10.91480100	6.25530100
Н	-0.65908300	9.44470200	4.88889000
Н	-1.16076200	10.37647200	2.62836500
Н	-1.23429200	8.62800700	2.70330000
Н	-3.52620500	10.60762600	2.41970400
Н	-3.09194000	9.29625600	1.35728200
Н	-4.05421300	7.63527200	2.75968300
Н	-5.20533200	8.94940400	2.75454700

(^{BBN}PDP^{tBu})Fe(OH)₂⁻

Fe	2.17120000	11.11730000	7.73660000
0	3.58620000	12.38650000	8.48700000
Н	3.57880000	12.31030000	9.44990000
0	0.57040000	12.06340000	6.88450000
Н	0.59340000	11.89770000	5.93320000
Ν	2.35150000	9.10300000	7.82730000
Ν	2.94960000	10.52600000	5.68640000
Ν	3.45510000	11.06990000	4.54350000
Ν	1.49030000	10.57770000	9.84150000
Ν	0.87700000	11.11730000	10.93270000
С	2.81440000	8.37520000	6.74160000
С	2.94380000	6.99580000	6.78260000
С	2.61230000	6.29170000	7.95410000
С	2.14800000	7.02470000	9.06090000
С	2.02190000	8.40250000	8.97750000
С	3.16310000	9.19660000	5.60020000
С	3.78150000	8.89100000	4.36820000
С	3.96060000	10.09730000	3.71090000
С	4.59780000	10.32630000	2.34390000
С	5.94710000	11.07590000	2.47400000
С	3.64250000	11.08330000	1.38950000
С	4.89530000	8.95390000	1.69940000
С	1.51790000	9.24400000	10.04380000
С	0.94580000	8.93890000	11.29810000
С	0.54160000	10.14490000	11.84730000
С	-0.15500000	10.37120000	13.18550000
С	0.62820000	11.36510000	14.07730000
С	-1.61300000	10.85400000	12.98120000
С	-0.21850000	9.02750000	13.94510000
С	3.38140000	12.52630000	4.36180000
С	3.61570000	13.31490000	5.65800000
С	4.91480000	12.98190000	6.41550000
В	4.82910000	13.24810000	8.03110000
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С	5.93750000	12.83730000	10.37820000
С	5.45600000	14.21220000	10.89940000

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С	4.62060000	14.81360000	8.49190000
С	5.83620000	15.64770000	8.01620000
С	7.21940000	15.11800000	8.46500000
С	7.38870000	13.58210000	8.37580000
С	0.34800000	13.19880000	9.63320000
С	-0.85960000	12.58340000	8.90160000
В	-0.79440000	12.75630000	7.27310000
С	-2.02950000	12.01920000	6.47530000
C	-1.78970000	12.05100000	4.94450000
C	-1.50950000	13.45000000	4.34650000
C	-0.56650000	14.33750000	5.19300000
C	-0 81540000	14 30570000	6 72110000
C	-2 14990000	14 97240000	7 13880000
C	-3 43030000	14 21490000	6 71210000
C C	-3 36810000	12 67870000	6 89000000
C C	-5.50810000	12.07870000	10 00150000
с u	4 00970000	11 16700000	0 20400000
п u	4.09870000	10 54250000	1 29400000
п u	2.09310000	12.00440000	1.28400000
	5.41220000	12.09440000	1.75540000
	5.60320000	8.37320000	2.30020000
н	3.98150000	8.36210000	1.57820000
H	5.33900000	9.10110000	0.70770000
н	6.41360000	11.18210000	1.48620000
н	5.84030000	12.07650000	2.90100000
H	6.63320000	10.51680000	3.11930000
Н	4.07850000	7.91520000	4.01/20000
Н	3.30510000	6.46750000	5.90400000
Н	2.71250000	5.21190000	8.00280000
Н	1.88320000	6.51980000	9.98640000
Н	0.82160000	7.95900000	11.73170000
Н	0.78300000	8.62280000	14.12690000
Н	-0.70680000	9.17570000	14.91550000
Н	-0.79540000	8.28000000	13.39030000
Н	1.65360000	11.01320000	14.23810000
Н	0.68340000	12.36830000	13.64830000
Н	0.14050000	11.45000000	15.05670000
Н	-1.67590000	11.81440000	12.46300000
Н	-2.17650000	10.12550000	12.38830000
Н	-2.11080000	10.96550000	13.95310000
Н	1.60520000	13.03040000	11.40340000
Н	-0.11520000	12.76170000	11.69890000
Н	0.17840000	14.26770000	9.82560000
н	1.24560000	13.16970000	9.01000000
Н	-0.89770000	11.50430000	9.11400000
Н	-1.78230000	12.99960000	9.33310000
н	-0.00800000	14.90520000	7.17560000
н	-2.15130000	15.06150000	8.23500000
Н	-2.21710000	16.00670000	6.75660000
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Н	-4.28740000	14.60780000	7.28160000
Н	-3.65560000	14.44850000	5.66510000
Н	-4.21850000	12.23280000	6.34350000
Н	-3.54240000	12.44470000	7.94970000
Н	-2.10100000	10.95420000	6.75850000
Н	-0.93390000	11.39300000	4.71500000
Н	-2.63680000	11.60070000	4.39800000
Н	-1.08710000	13.33320000	3.33570000
Н	-2.46020000	13.97320000	4.19710000
Н	0.47060000	14.01040000	5.01930000
Н	-0.61400000	15.36760000	4.79870000
Н	4.14060000	12.79150000	3.62600000
Н	2.40100000	12.78030000	3.93170000
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