

Brønsted Acid Catalysis – Structural Preferences and Mobility in Imine/Phosphoric Acid Complexes

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Experimental data

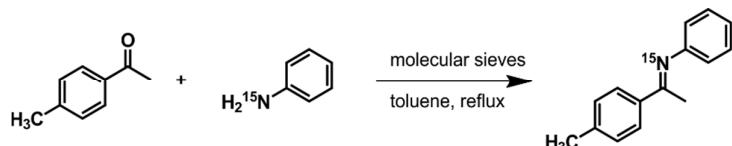
Deuterated solvents were purchased from Deutero or Sigma Aldrich Where dry solvents were essential, CD_2Cl_2 was freshly distilled over CaH_2 and Toluene-d8 was refluxed over Na/Benzophenone under Argon atmosphere. Freon mixtures were prepared from CDCl_3 and $\text{SbCl}_5/\text{SbF}_3$ according to literature procedures and stored in small lecture bottles.^[1,2] The catalysts were purchased from Sigma Aldrich or synthesized from the bisphenols according the procedure of Klussmann et al.^[3]

High resolution mass spectra were measured by the central analytics division in the Institute of Organic Chemistry. Gas chromatography coupled with a mass selective detector was performed on an Agilent 6890N Network GC-System.

Synthesis of Ketimines

Imines were synthesized by refluxing aniline and the corresponding ketone over activated molecular sieves 4 Å in toluene. The toluene was used either in p.A. quality or was dried by refluxing over sodium.

(E)-1-(4-methylphenyl)-N-phenylethan-1-imine [2a]



Molecular sieves 4 Å (1.6 g) were weighed in to a 25 ml Schlenk flask equipped with a reflux condenser. The setup dried at 350°C under reduced pressure. 4-Methylacetophenone (0.403 g, 3.00 mmol, 0.40 ml) and Aniline (98% ¹⁵N, 0.30 ml, 0.310 g, 3.30 mmol) were dissolved in 5 ml anhydrous Toluene under argon atmosphere. A drying tube filled with CaCl₂ was added to the setup and the solution was refluxed for 20 h. After cooling down to r.t., the yellow solution was filtered and the solvent was removed under reduced pressure. The obtained yellow solid was recrystallized in methanol and yielded as a yellow solid (0.123 g, 0.58 mmol, 20 %) predominantly as E-Isomer (>99 % via ¹H-NMR analysis).

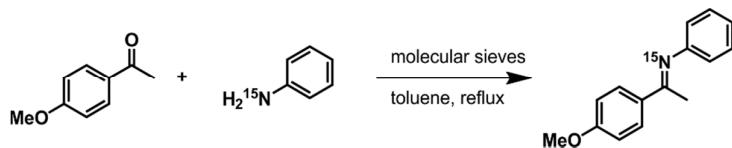
¹H-NMR (400.1 MHz, CD₂Cl₂) δ_H = 7.86 (m, 2H), 7.34 (m, 2H), 7.25 (m, 2H), 7.06 (m, 1H), 6.76 (m, 2H), 2.40 (s, 3H) 2.18 ppm (d, ³J_{HN} = 1.76 Hz, 3H)

¹³C-NMR {¹H} (100.6 MHz): δ_C = 165.3 (d, ¹J_{NC} = 7.0 Hz), 152.4 (d, ¹J_{NC} = 1.6 Hz), 137.3 (²J_{NC} = 8.3 Hz), 129.34, 129.29 (d, ³J_{NC} = 3.2 Hz), 127.5 (J_{NC} = 3.2), 123.3, 123.9, 119.7 (²J_{NC} = 2.3 Hz), 21.5, 17.4 ppm (d, ²J_{NC} = 2.8 Hz)

¹⁵N-NMR (40.5 MHz): δ_N = 328.9 ppm

HR-MS (ESI, m/z): found 211.1248 (M+H)⁺ (calculated for 211.1248 for C₁₅H₁₆[¹⁵N]O); Diff(ppm) = -0.37

(E)-1-(4-methoxyphenyl)-N-phenylethan-1-imine (98% ^{15}N) [2b]



Molecular sieves 4 Å (1.6 g) were weighed in to a 25 ml Schlenk flask equipped with a reflux condenser. The setup dried at 350°C under reduced pressure. 4-Methoxyacetophenone (0.450 g, 3.00 mmol) and Aniline (98% ^{15}N , 0.30 ml, 0.310 g, 3.30 mmol) were dissolved in 5 ml anhydrous Toluene under argon atmosphere. A drying tube filled with CaCl_2 was added to the setup and the solution was refluxed for 20 h. After cooling down to r.t., the yellow solution was filtered and the solvent was removed under reduced pressure. The obtained yellow solid was recrystallized in methanol and yielded as a yellow solid (0.223 g, 0.986 mmol, 33 %) predominantly as E-Isomer (>99 % via ^1H -NMR analysis).

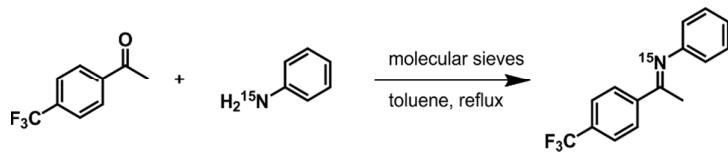
$^1\text{H-NMR}$ (400.1 MHz, CD_2Cl_2) $\delta_{\text{H}} = 7.95$ (m, 2H), 7.35 (m, 2H), 7.07 (m, 1H), 6.96 (m, 2H), 6.77 (m, 2H), 2.18 ppm (d, $^3J_{\text{HN}} = 1.76$ Hz)

$^{13}\text{C-NMR} \{^1\text{H}\}$ (100.6 MHz, CD_2Cl_2): $\delta_{\text{C}} = 164.5$ (d, $^1J_{\text{NC}} = 7.1$ Hz), 161.9, 152.5 (d, $^2J_{\text{NC}} = 1.7$ Hz), 132.5 (d, $^1J_{\text{NC}} = 8.4$ Hz), 129.2, 129.1 (d, $^3J_{\text{NC}} = 3.3$ Hz), 123.2, 119.8 (d, $^2J_{\text{NC}} = 2.3$ Hz), 113.8, 55.7, 17.2 ppm (d, $^2J_{\text{NC}} = 2.7$ Hz)

$^{15}\text{N-NMR}$ (40.5 MHz, CD_2Cl_2): $\delta_{\text{N}} = 325.5$ ppm

HR-MS (ESI, m/z): found 227.1198 ($\text{M}+\text{H})^+$ (calculated 227.1197 for $\text{C}_{15}\text{H}_{16}[^{15}\text{N}]O$); Diff(ppm) = 0.49

(E)-N-phenyl-1-(4-(trifluoromethyl)phenyl)ethan-1-imine (98% ^{15}N) [2c]



Molecular sieves 4 Å (1.6 g) were weighed in to a 25 ml Schlenk flask equipped with a reflux condenser. The setup dried at 350°C under reduced pressure. 4-Trifluoromethylacetophenone (0.376 g, 2.00 mmol) and Aniline (98% ^{15}N , 0.20 ml, 0.207 g, 2.20 mmol) were dissolved in 5 ml anhydrous Toluene under argon atmosphere. A drying tube filled with CaCl_2 was added to the setup and the solution was refluxed for 20 h. After cooling down to r.t., the yellow solution was filtered and the solvent was removed under reduced pressure. The obtained yellow solid was recrystallized in methanol and yielded as a yellow solid (0.340 g, 1.29 mmol, 64 %) predominantly as E-Isomer (>99 % via $^1\text{H-NMR}$ analysis).

$^1\text{H-NMR}$ (400.1 MHz, CD_2Cl_2): $\delta_{\text{H}} = 8.11$ (m, 2H), 7.73 (m, 2H), 7.38 (m, 2H), 7.12 (m, 1H), 6.80 (m, 2H), 2.25 ppm (d, $^3J_{\text{NH}} = 1.8$ Hz, 3H)

$^{13}\text{C-NMR} \{^1\text{H}\}$ (100.6 MHz): $\delta_{\text{C}} = 164.5$ (d, $^1J_{\text{NC}} = 7.1$ Hz), 151.7 (d, $^1\text{J}_{\text{NC}} = 1.5$ Hz), 143.2 ($^2J_{\text{NC}} = 7.3$ Hz), 132.1 (q, $^2J_{\text{FC}} = 32.4$ Hz) 129.4, 128.0 (d, $^3J_{\text{NC}} = 3.2$ Hz), 125.6 (q, $^4J_{\text{FC}} = 3.8$ Hz), 124.6 (q, $^1J_{\text{FC}} = 272.0$ Hz), 123.9, 119.5 ($^2J_{\text{NC}} = 2.3$ Hz), 17.5 ppm (d, $^2J_{\text{NC}} = 2.8$ Hz)

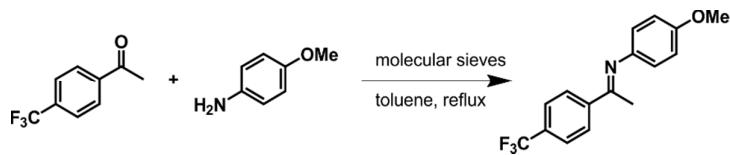
$^{19}\text{F-NMR} \{^1\text{H}\}$ (376 MHz, CD_2Cl_2): $\delta_{\text{F}} = -63.1$ ppm

$^{15}\text{N-NMR}$ (60.8 MHz, CD_2Cl_2 , 300 K): $\delta_{\text{N}} = 338.2$ ppm

GC-MS (EI, 70 EV): m/z (RT) = 264.1 [M+] (8.794 min)

HR-MS (ESI, m/z): found 265.097 (M+H)+ (calculated 265.0965 for $\text{C}_{15}\text{H}_{13}\text{F}_3[^{15}\text{N}]$); Diff(ppm) = 1.89

(E)-N-(4-methoxyphenyl)-1-(4-(trifluoromethyl)phenyl)ethan-1-imine **[3a]**



Molecular sieves 4 Å (1.6 g) were weighed in to a 25 ml Schlenk flask equipped with a reflux condenser. The setup dried at 350°C under reduced pressure. 4-Trifluoromethylacetophenone (0.565 g, 3.00 mmol) and Anisidine (0.406 g, 3.30 mmol) were dissolved in 5 ml anhydrous Toluene under argon atmosphere. A drying tube filled with CaCl₂ was added to the setup and the solution was refluxed for 20 h. After cooling down to r.t., the yellow solution was filtered and the solvent was removed under reduced pressure. The obtained yellow solid was recrystallized in methanol and yielded as a yellow solid (0.612 g, 2.09 mmol, 70 %) predominantly as E-Isomer (>99 % via ¹H-NMR analysis).

¹H-NMR (400.1 MHz, CDCl₃): δ_H = 8.00 (d, ³J_{HH} = 8.2 Hz, 2H), 7.63 (d, ³J_{HH} = 8.2 Hz, 2H), 6.86 (d, ³J_{HH} = 8.2 Hz, 2H), 6.70 (d, ³J_{HH} = 8.1 Hz, 2H), 3.76 (s, 3H), 2.22 ppm (s, 3H)

¹³C-NMR {¹H} (100.6 MHz): δ_C = 127.5, 125.3, 120.8, 114.3, 55.5, 17.4 ppm

Sample preparation

Preparation of binary complexes in CD₂Cl₂

Catalyst **1c** was dried for 30 min at 150°C under reduced pressure. Ketimine and **1c** were directly weighed into a 5 mm NMR tube under an inert argon atmosphere. CD₂Cl₂ (0.6 ml) and 1.0 ml of tetramethylsilane atmosphere were added to the tube. The sample was stored in an -80°C freezer. A 1:1 ratio of catalyst/ketamine was used for all samples. A concentration 50 mmol/L was used for samples **2a/1c** and **2b/1c**. For samples **2c/1c** and **3a/1c** a concentration of 25 mmol/L was used, due to the limited solubility at low temperatures.

Preparation of binary complexes in freonic solvent mixtures

Catalyst **1c** was dried for 30 min at 150°C under reduced pressure. Ketimine and **1c** were directly weighed into a heavy wall NMR tube equipped with a J. Young valve under an inert argon atmosphere. 1.0 ml of tetramethylsilane atmosphere were added and the sample was connected to a vacuum line. The NMR tube was evacuated and cooled down to 77 K. The freonic solvent mixture was condensed through column filled with P₂O₅ and KOH into the NMR-tube.

Solvent screening

Toluene, dichloromethane, and a freonic solvent mixture of CDF_2Cl and CDFCl_2 were chosen as solvents, because of their low melting points (toluene: 178 K, CD_2Cl_2 : 176.5 K, $\text{CDF}_2\text{Cl}/\text{CDFCl}_2$: <110 K). Vastly superior linewidths and signal dispersion was observed in CD_2Cl_2 and the freonic solvent mixture (see figure 1). The investigated reaction is reported to work in toluene, as well as dichloromethane, with toluene having superior yields.^[4,5]

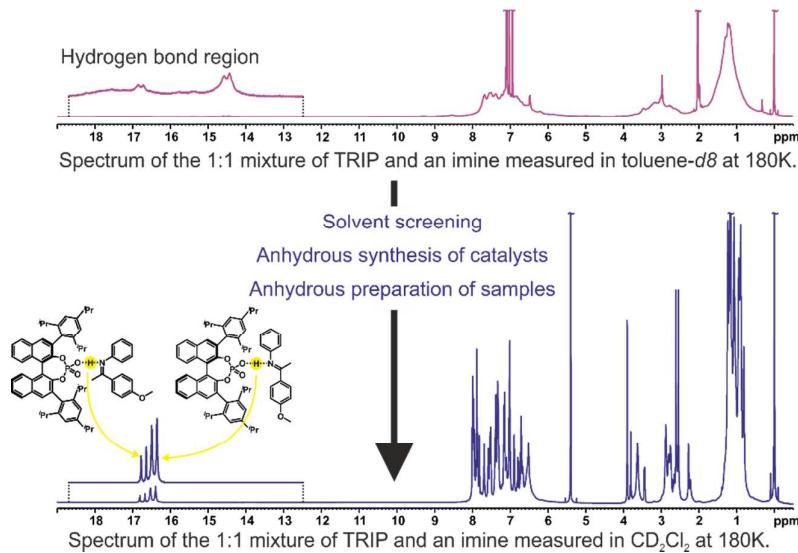


Figure S1: Comparison of ^1H spectra of an imine/catalyst complex at 180 K

The observed signal pattern in the freonic solvent mixture is similar to that observed in dichloromethane. Dichloromethane was used as a solvent for most NMR investigations, due to its better solubility.

Identification of the *E*- and *Z*-imines inside the complex

To identify the *E*- and the *Z*-imine inside the complex, standard 2D ^1H , ^1H -NOESY experiments were performed at 180 K.

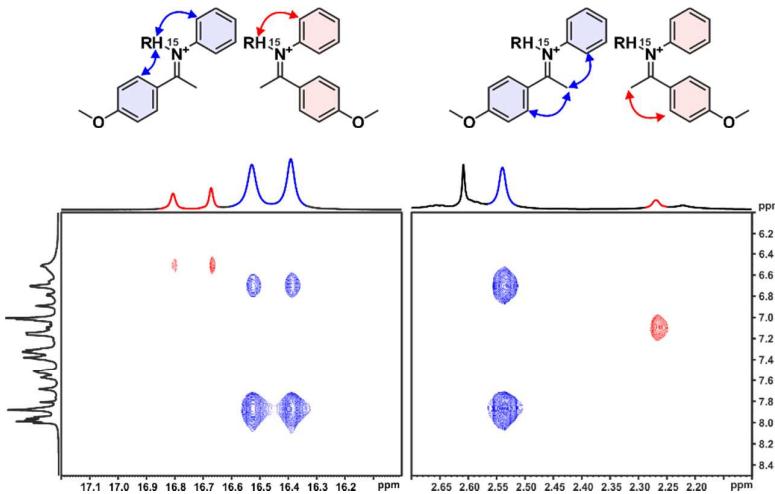


Figure S2: Details of the 2D ^1H , ^1H -NOESY spectrum at 180 K *in dichloromethane*, that was used to identify the *E*- and the *Z*-imine inside the imine/catalyst complex. The same pattern was found for every investigated imine.

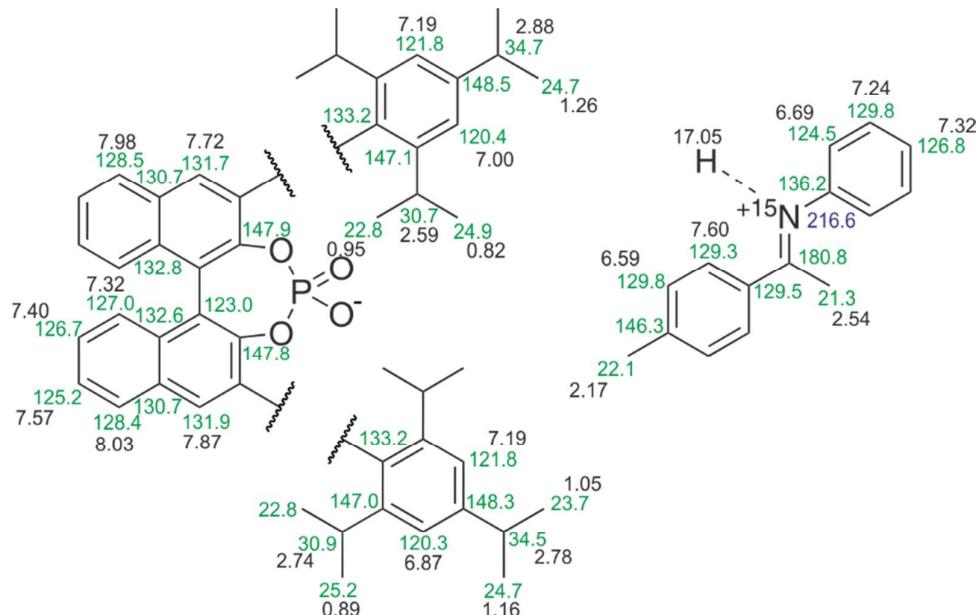
For the *Z*-imine, the proton inside the hydrogen bond shows only one strong NOE to the aniline part of the imine, whereas for the *E*-imine, an NOE to the aniline part of the imine, as well as an NOE to the acetophenone part of the imine can be found. The methyl group of the *Z*-imine shows only one strong NOE to the acetophenone part of the imine, whereas for the *E*-imine, NOEs to the aniline part and the acetophenone part can be observed (see figure 2). For every investigated imine, the same NOE pattern can be observed.

Assignment of the ^1H and ^{13}C chemical shifts

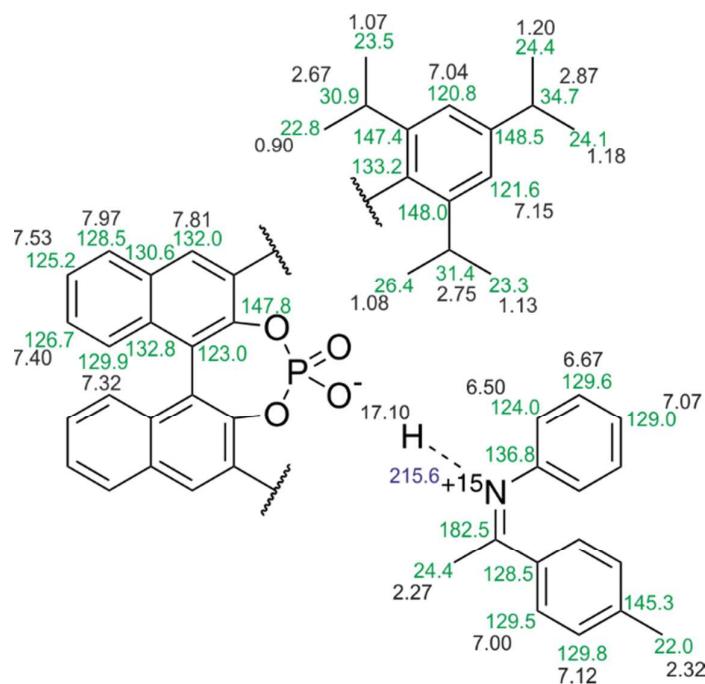
The ^1H (black) and ^{13}C (green) chemical shifts of all investigated complexes were assigned with standard 2D NMR experiments ($^1\text{H},^1\text{H}$ COSY, $^1\text{H},^1\text{H}$ TOCSY, $^1\text{H},^1\text{H}$ NOESY, $^1\text{H},^{13}\text{C}$ HSQC, $^1\text{H},^{13}\text{C}$ HMBC) at 180 K. Due to signal overlap, the 2,4,6-triisopropylphenyl groups could not be assigned in most cases. The ^{19}F (orange) and ^{15}N (blue) chemical shifts were assigned with $^1\text{H},^{19}\text{F}$ HMBC and $^1\text{H},^{15}\text{N}$ HMBC spectra respectively.

Complex 2a/1c

E-2a/1c

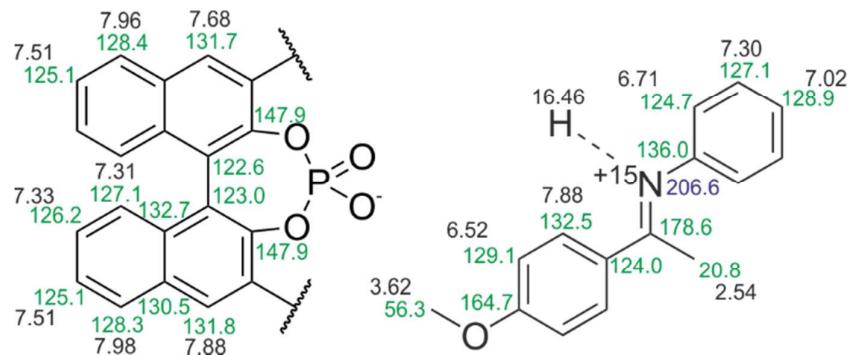


Z-2a/1c

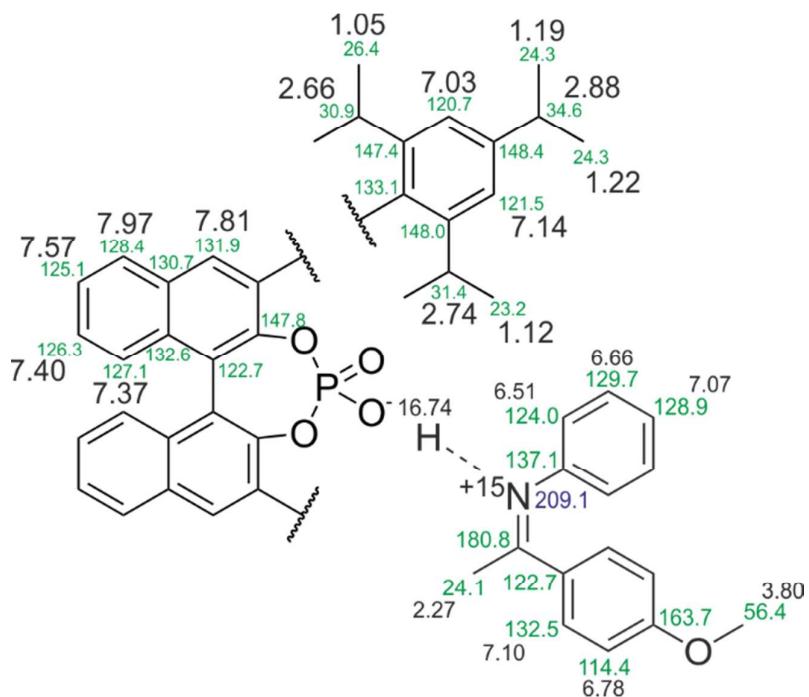


Complex 2b/1c

E-2b/1c

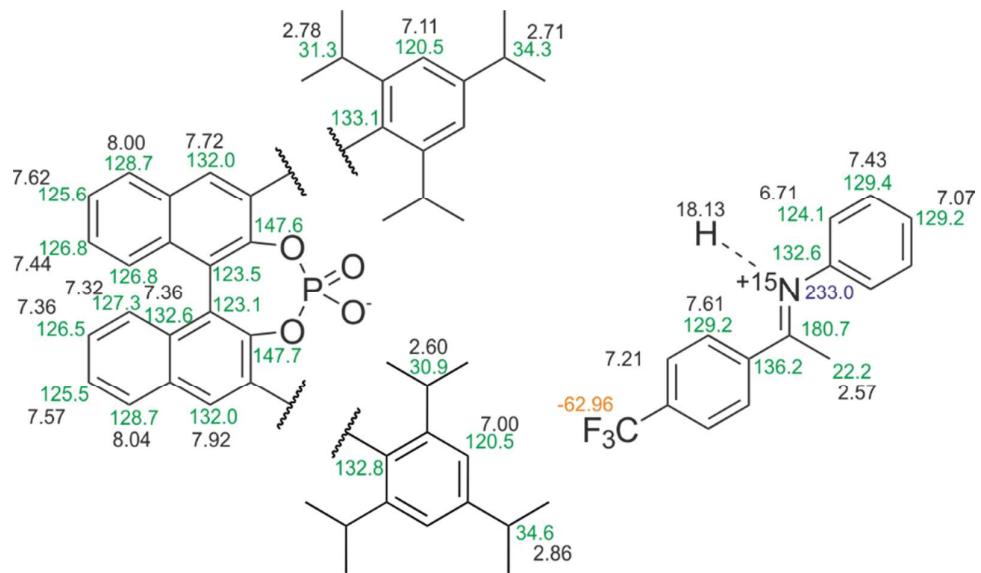


E-2b/1c

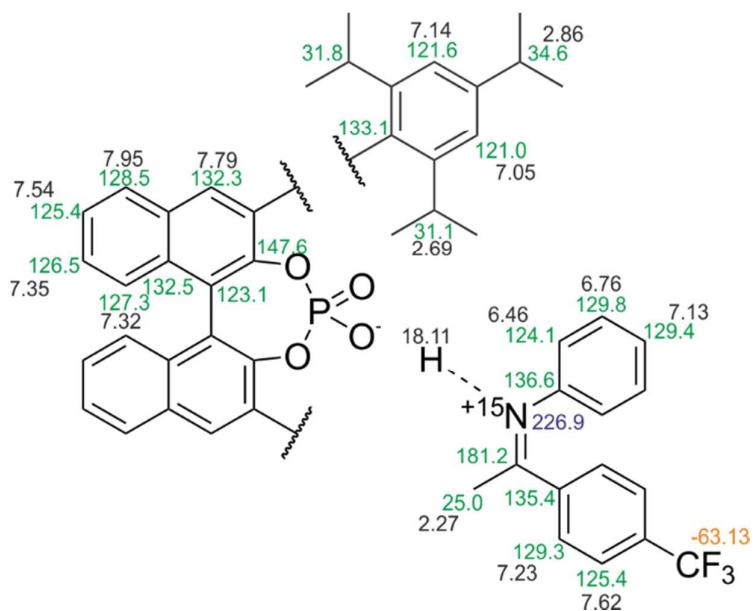


Complex 2c/1c

E-2c/1c

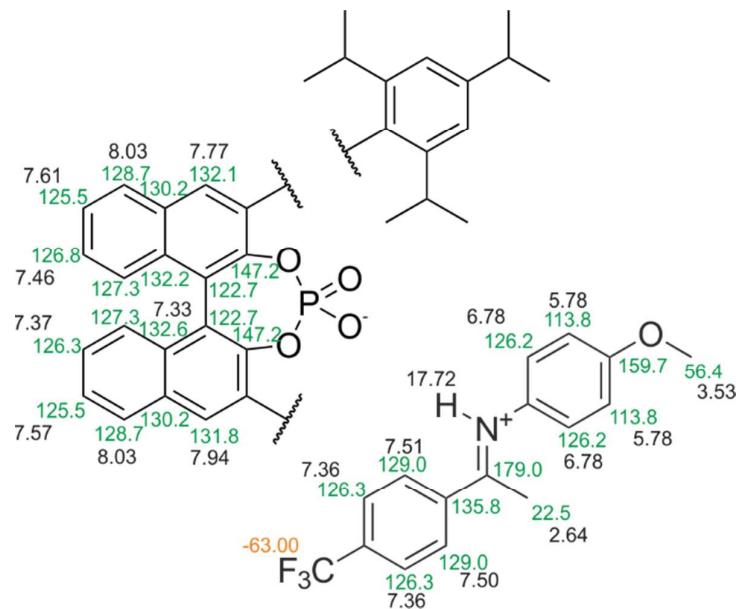


Z-2c/1c

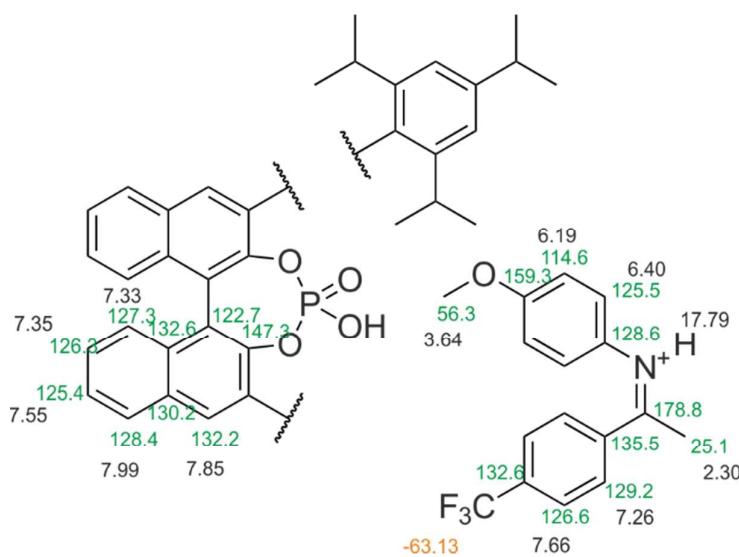


Complex 3a/1c

E-3a/1c

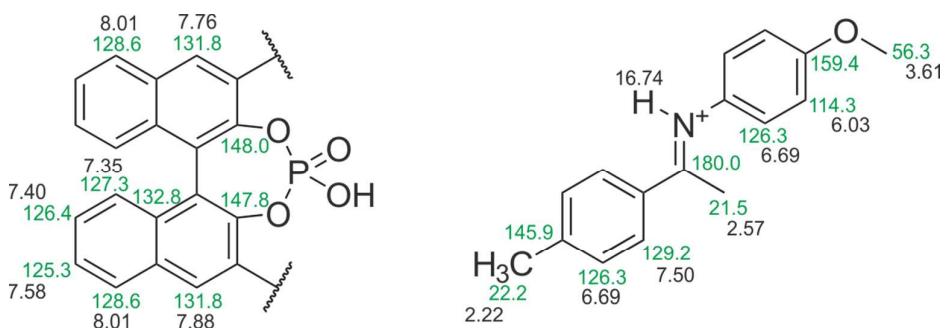


Z-3a/1c

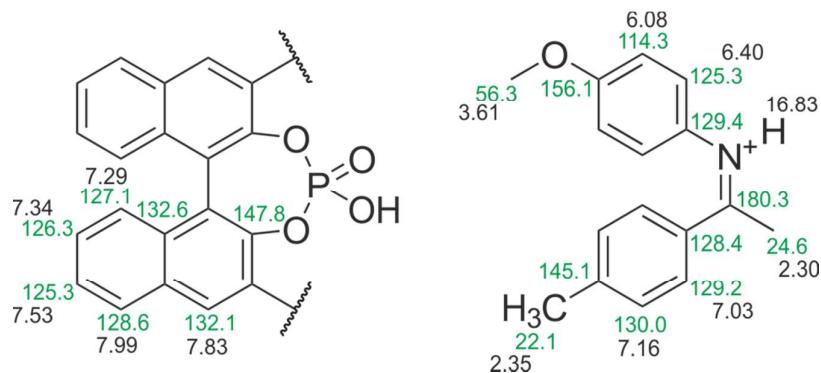


Complex 3b/1c

E-3b/1c



Z-3b/1c



Low temperature measurements in the freonic solvent mixture

The NOE pattern for the investigated Z-imine/**1c** complexes showed that a fast exchange on the NMR time scale between two structures takes place, even at 180 K. Therefore we carried out measurements at as low as 130 K, in order to reach the slow exchange regime. For these measurements a freonic solvent mixture of CDF₂Cl and CDFCl₂ was used.

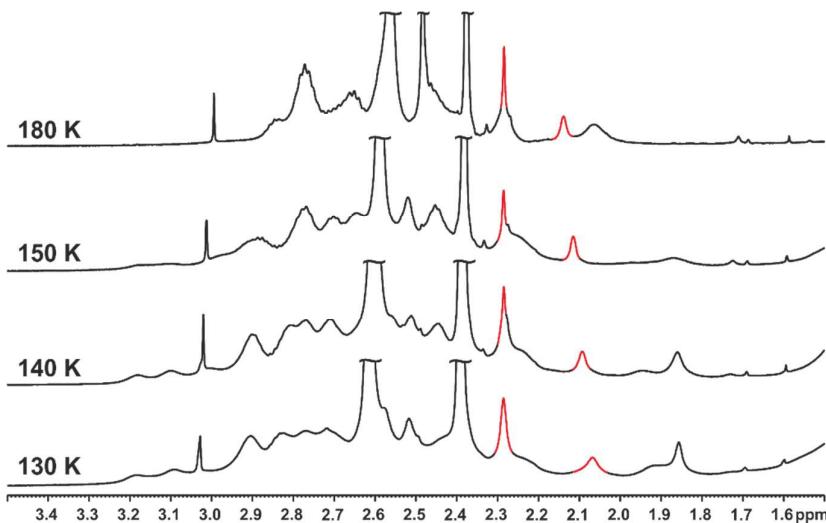


Figure S3: ¹H spectra of the **2a**/TRIP complex in a mixture of CDFCl₂ and CDF₂Cl at different temperatures. The signals labeled in red arise from the 4-methyl group and the methyl group of the imine. Compared to the other signal, no substantial line broadening was observed, even at 130 K.

By lowering the temperature, natural line broadening occurs. Even at 130 K, no substantial line broadening was observed for the Z-imine, when compared to the other signals.

Structure identification of all *E*-imine/TRIP complexes.

Selective ^1H NOESY spectra were used to identify the structures of complexes **E-2a-b/1c** in solution. For **E-2c/1c** and **E-3a/1c**, $^1\text{H}, ^{19}\text{F}$ HOESY spectra was used. The spectra were measured in CD_2Cl_2 at 180 K. In every investigated complex, the same orientations of the imine were observed. One orientation (**TYPE I E**) was identified by the NOE pattern between the varying functional groups on the ketone part of the imines and parts of the BINOL backbone of **1c**. In the complexes **E-2a-b/1c**, the functional groups, as well as signals of the BINOL backbone were excited in selective ^1H NOESY spectra. The other orientation (**TYPE II E**) was identified by 2D $^1\text{H}, ^1\text{H}$ NOESY spectra with a mixing time if 300 ms for imines **2a-c** and with selective 1D $^1\text{H}, ^1\text{H}$ NOESY spectra for imines **3a,b**. The methoxy group of the anisidine moiety of the imines was selectively excited in this case. In every investigated sample an exchange between the *E*-Isomer of the imine substrate inside the imine/**1c** complex and the free imine in solution was observed at 180 K. This chemical exchange leads to a variety of exchange peaks between the observed forms of the imine in the selective NOESY spectra. Additional signals are produced by spin diffusion effects inside the extended aromatic system. The exchange peaks and spin diffusion effects can be reduced by shortening the mixing time of the NOESY experiments, which also leads to a tremendous loss of signal intensity.

Additional 1D selective NOESY spectra where measured by exciting the ^1H signals of the BINOL backbone of the catalyst. Due to the large signal overlap in the aromatic region, these signals could not be excited selectively and therefor produced ambiguous NOEs. Nevertheless, these NOEs are in full agreement with the identified structure.

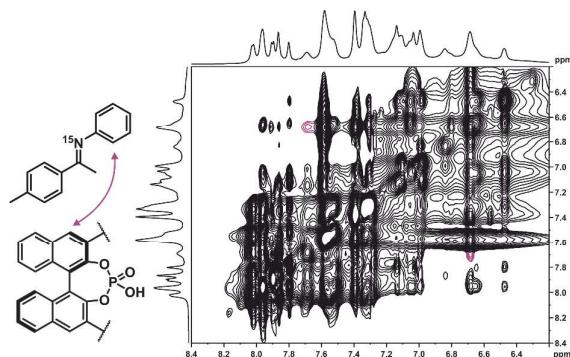
E-2a/1c complex

Structure of **TYPE I E**



Selective NOESY spectrum of complex **E-2a/1c**. The excited methyl group of imine **2a** is labeled yellow. Additional signals are observed, due to chemical exchange and spin diffusion effects.

Structure of **TYPE II E**



2D ^1H , ^1H NOESY spectrum of complex **E-2a/1c**. The NOE that reveals structure **TYPE II E** is labeled in purple.

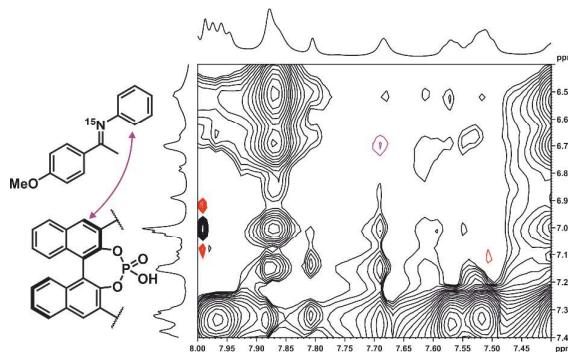
E-2b/1c complex

Structure of **TYPE I E**



Selective NOESY spectrum of complex **E-2b/1c**. The excited methoxy group of imine **2b** is labeled yellow. Additional signals are observed, due to chemical exchange and spin diffusion effects.

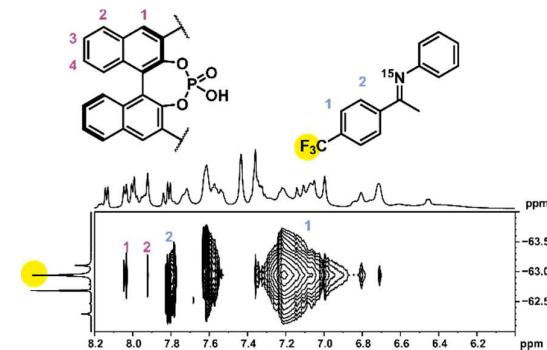
Structure of **TYPE II E**



2D ^1H , ^1H NOESY spectrum of complex **E-2b/1c**. The NOE that reveals structure **TYPE II E** is labeled in purple.

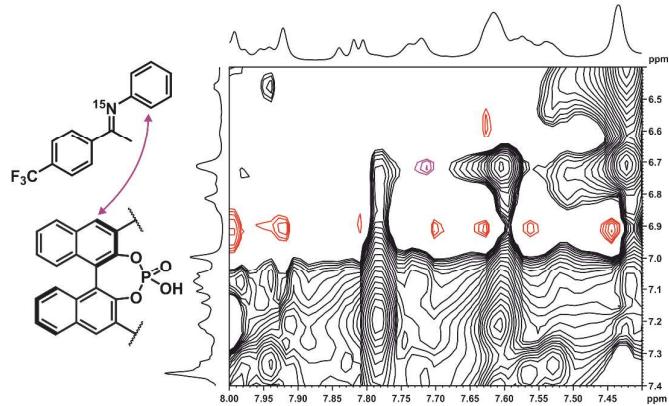
E-2c/1c complex

Structure of **TYPE I E**



^1H , ^{19}F HOESY spectrum of complex **E-2c/1c**. The trifluoromethyl group of **E-2c** inside the complex is labeled yellow. Additional signals are observed, due to chemical exchange and spin diffusion effects.

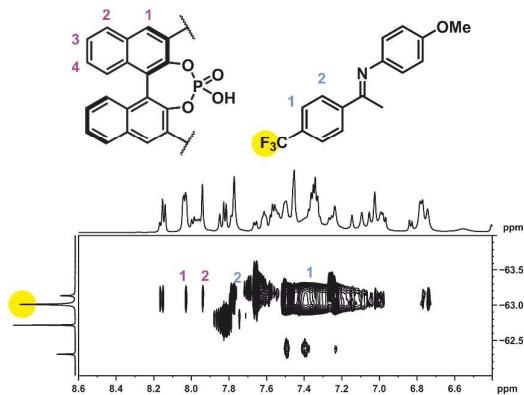
Structure of **TYPE II E**



2D ^1H , ^1H NOESY spectrum of complex **E-2c/1c**. The NOE that reveals structure **TYPE II E** is labeled in purple.

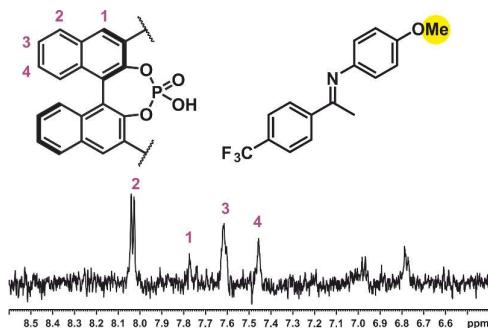
E-3a/1c complex

Structure of **TYPE I E**



^1H , ^{19}F HOESY spectrum of complex **E-3a/1c**. The trifluoromethyl group of **E-3a** inside the complex is labeled yellow. Additional signals are observed, due to chemical exchange and spin diffusion effects.

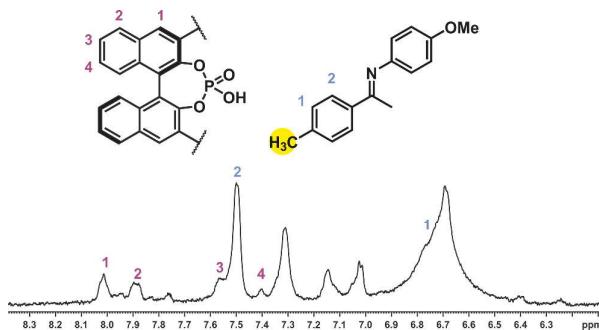
Structure of **TYPE II E**



Selective NOESY spectrum of complex **E-3a/1c**. The excited methoxy group of imine **3a** is labeled yellow. Additional signals are observed, due to chemical exchange and spin diffusion effects.

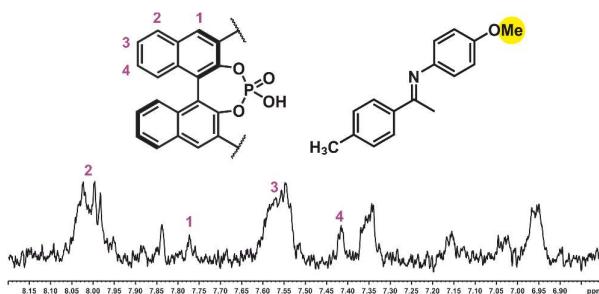
E-3b/1c complex

Structure of **TYPE I E**



Selective NOESY spectrum of complex **E-3b/1c**. The excited methyl group of imine **3b** is labeled yellow. Additional signals are observed, due to chemical exchange and spin diffusion effects.

Structure of **TYPE II E**



Selective NOESY spectrum of complex **E-3b/1c**. The excited methoxy group of imine **3b** is labeled yellow. Additional signals are observed, due to chemical exchange, chemical shift overlap and spin diffusion effects. Especially the overlap of the chemical shifts of the methoxy groups of both *E*- and *Z*-imine in complex **3b/1c** leads to many additional peaks in the selective NOESY.

Build-up curve

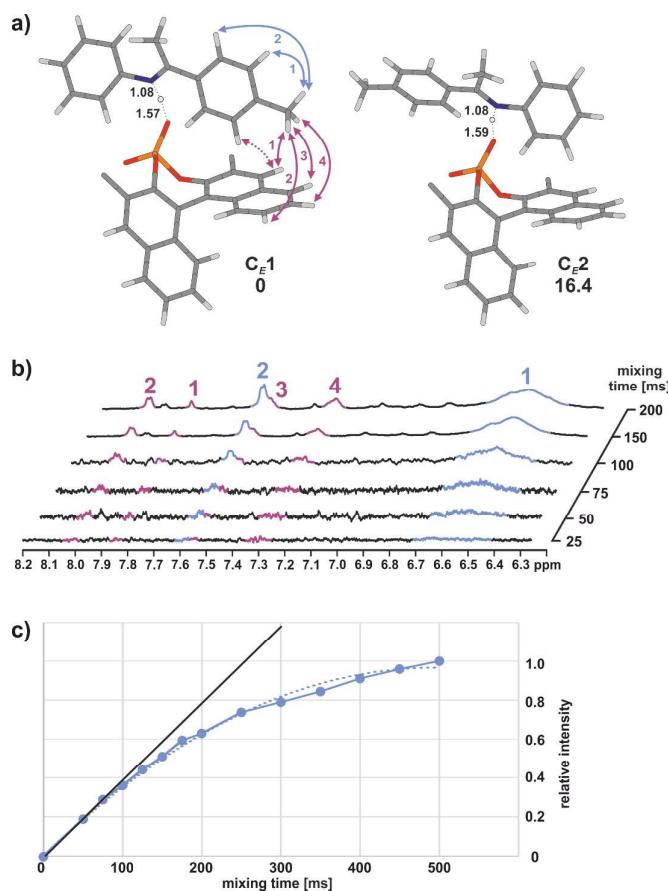
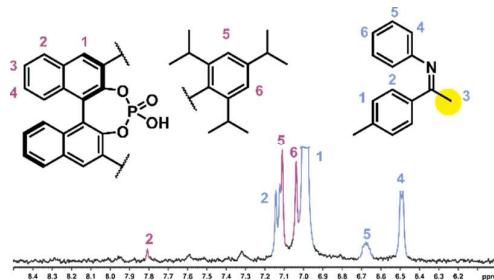


Figure S4; a) Complex structures **TYPE I E** and **TYPE II E** of complex **E-2a/1c**; b) Selective 1D NOESY build up curve; the α -methyl group of the imine was excited; c) Build-up of the intensity of intramolecular NOE 1 (blue arrow in a)), a deviation from a linear build is visible even at 100 ms mixing time, due to spin diffusion effects.

Structure identification of all Z-imine/TRIP complexes.

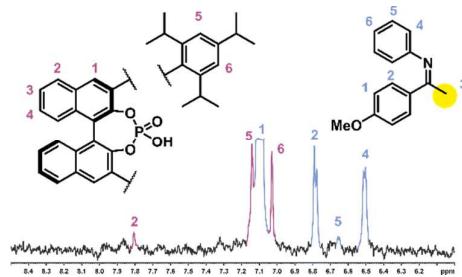
Selective ^1H NOESY spectra were used to identify the structures of complexes **Z-2a-c/1c** and **Z-3a/1c** in solution. In every investigated complex, the same NOE pattern was observed. The spectra were measured in CD_2Cl_2 at 180 K.

Z-2a/1c complex



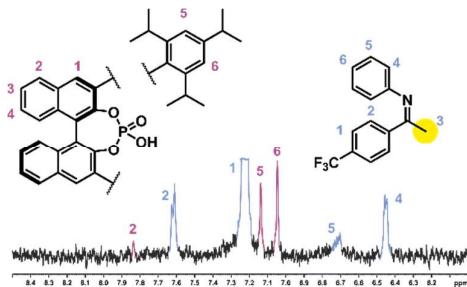
Selective NOESY spectrum of complex **Z-2a/1c**. The excited methyl group of imine **2a** is labeled yellow.

Z-2b/1c complex



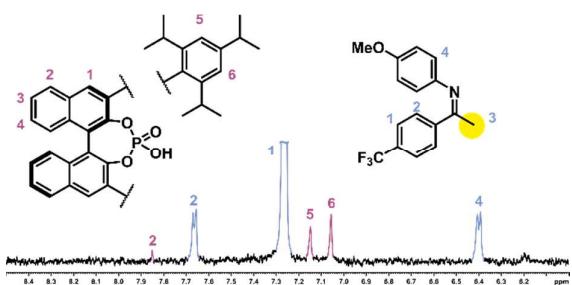
Selective NOESY spectrum of complex **Z-2b/1c**. The excited methyl group of imine **2b** is labeled yellow.

Z-2c/1c complex



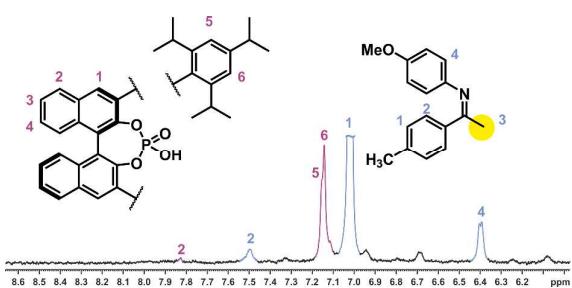
Selective NOESY spectrum of complex **Z-2c/1c**. The excited methyl group of imine **2c** is labeled yellow.

Z-3a/1c complex



Selective NOESY spectrum of complex Z-3a/1c. The excited methyl group of imine 3a is labeled yellow.

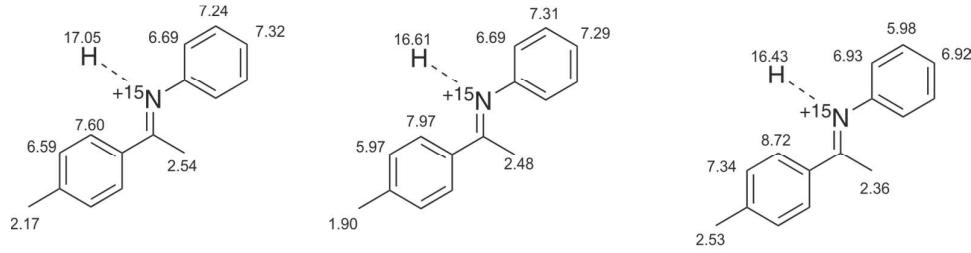
Z-3b/1c complex



Selective NOESY spectrum of complex Z-3b/1c. The excited methyl group of imine 3b is labeled yellow.

Chemical shift analysis of the 2a/1c complexes

The measured ^1H chemical shifts of the imine inside the complex are compared to the calculated chemical shifts.

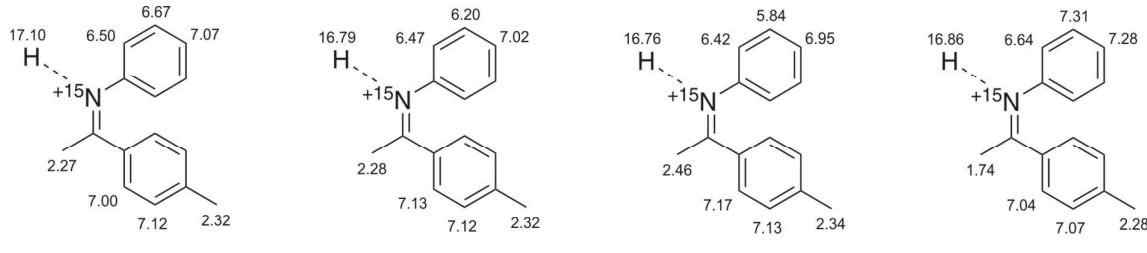


Measured

Type I E

Type II E

The calculated chemical shifts of complex **TYPE I E** show the same trend as the measured chemical shifts of the complex **E-2a/1c** in dichloromethane at 180 K. The strong high field shift of the *p*-methyl group and the nearby aromatic proton are a result of the strong deshielding due to the CH/ π interaction of these protons and the BINOL backbone of the catalyst.



Measured

Average

Type I Z
75.8 %

Type II Z
24.2 %

The weighted and averaged chemical shifts of the calculated structures **TYPE II Z** and **TYPE I Z** are in good agreement with the measured shifts of complex **E-2a/1c** in dichloromethane at 180 K.

Spectrometer data

NMR experiments were performed on Bruker Avance III HD 400 MHz spectrometer, equipped with 5 mm BBO BB-1H/D probe head with Z-Gradients and a Bruker Avance III HD 600 MHz spectrometer, equipped with a 5 mm TBI 1H/19. Temperature was controlled in the VT-experiments by BVT 3000 and BVTE 3900. For NMR measurements employing standard NMR solvents 5 mm NMR tubes were used, if not other noted. For samples in freonic mixtures as solvents, 5 mm heavy wall (1.4 mm wall thickness) NMR tubes equipped with J. Young valves from Wilmad were used. NMR Data were processed, evaluated and plotted with TopSpin 3.2 software. Further plotting of the spectra was performed with Corel Draw X14 – X17 software. ^1H , ^{13}C chemical shifts were referenced to TMS or the respective solvent signals. The heteronuclei ^{15}N , ^{19}F and were referenced, employing $\nu(\text{X}) = \nu(\text{TMS}) \times \Xi_{\text{reference}} / 100\%$ according to Harris et al.^[6] The following frequency ratios and reference compounds were used: $\Xi(^{15}\text{N}) = 10.132912$ (lq. NH_3) and $\Xi(^{19}\text{F}) = 94.094011$ (CCl_3F)

Pulse programs

All pulse programs used are standard Bruker NMR pulse programs.

Acquisition Parameters

^1H NMR: Pulse program: zg; Relaxation delay = 2 – 3 s, Acquisition time = 2.48 s, SW = 22.0 ppm, TD = 64k, NS = 8 – 64; zg30; Relaxation delay = 2 s, Acquisition time = 2.48 s, SW = 22.0 ppm, TD = 64k, NS = 8 – 64;

^2D - ^1H , ^1H NOESY: Pulse program: noesygpph; Relaxation delay = 5 - 8 s, NS = 8-32, mixing time (D8) = 300.00 ms; TD = 4096; increments = 512 - 1k;

^2D - ^1H , ^1H COSY: Pulse program: cosygpqf; Relaxation delay = 5 - 8 s, NS = 8-32, TD = 4096; increments = 512 - 1k;

^{13}C NMR: Pulse program: zgpg30; Relaxation delay = 2.00 s, Acquisition time = 0.80 s, SW = 270.0 ppm, TD = 64k, NS = 1k – 2k;

^2D - ^1H , ^{13}C HSQC: Pulse program: hsqcedetgpsisp2.3; Relaxation delay = 4 - 8 s, NS = 8-32, $^1\text{J}_{\text{CH}}$ = 145 Hz; TD = 4096; increments = 512 - 1k;

^2D - ^1H , ^{13}C HMBC: Pulse program: hmbcgpplndqf; Relaxation delay = 4 - 8 s, NS = 8-32, $^1\text{J}_{\text{CH}}$ = 145 Hz, J_{CH} (long range) = 10 Hz; TD = 4096; increments = 512 - 1k;

^{15}N NMR: Pulse program: zg; Relaxation delay = 10.00 s, Acquisition time = 0.54 s, SW = 502.8 ppm, TD = 32k, NS = 256 – 2048;

^2D - ^1H , ^{15}N HMBC: Pulse program: inv4gplrndqf; Relaxation delay = 5 - 8 s, NS = 16-32, delay for evolution of long range couplings (D6) = 20.00 ms; TD = 4096; increments = 128 - 512;

^{19}F -NMR: Pulse program: zg30; Relaxation delay = 2 – 3 s, Acquisition time = 11.60 s, SW = 10.0 ppm, TD = 128k, NS = 8 – 64;

^2D - ^1H , ^{19}F HOESY: Pulse program: hoesyph; Relaxation delay = 5 - 8 s, NS = 16-32, mixing time (D8) = 500.00 ms; TD = 4096; increments = 1k;

Selective 1D- ^1H , ^1H NOESY: Pulse program: selnogp; Relaxation delay = 5 - 8 s, NS = 128-2k, mixing time (D8) = 25 – 1000 ms (150 – 200 ms and NS = 1k-2k for structure identification); TD = 64k; 180° shaped pulse = 50 – 150 ms, shape = Gauss 180;

Data of the theoretical calculations

The CBS basis set extrapolation proceeds under the two point extrapolation procedure (eq.1 – 3) as in implemented in ORCA3.0.3[Neese, F. *Wiley Interdiscip. Rev. Comput. Mol. Sci.* **2012**, 2, 73.] with the basis set Def2-SVP and Def2-TZVP.

$$E_{\text{SCF}}^X = E_{\text{SCF}}^\infty + Ae^{-\alpha\sqrt{X}} \quad \text{eq. 1}$$

$$E_{\text{corr,MP2}}^\infty = \frac{X^\beta E_{\text{corr,MP2}}^X - (X-1)^\beta E_{\text{corr,MP2}}^{X-1}}{X^\beta - (X-1)^\beta} \quad \text{eq.2}$$

$$E_{\text{MP2}}^\infty = E_{\text{corr,MP2}}^\infty + E_{\text{SCF}}^\infty \quad \text{eq. 3}$$

Since low vibrations can cause significant error in the calculation of entropy, the harmonic approximation is corrected using the procedure by Grimme[Grimme, S. *Chem. - A Eur. J.* 2012, 18, 9955.], which employs a weighted partition function between harmonic and free rotor approximations.

NCI analysis

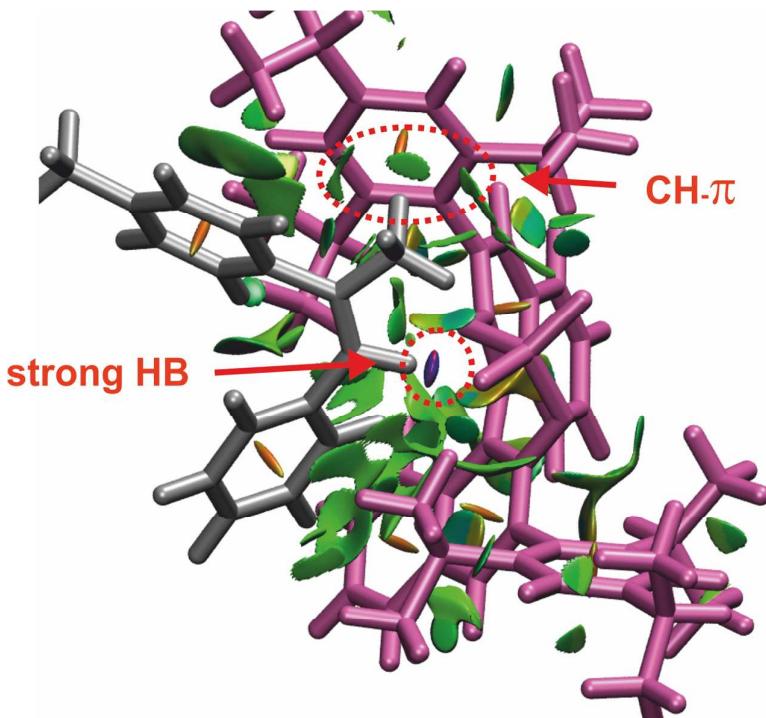


Figure S5. NCI analysis of Z-2a/1c Type II. Rotated view to highlight CH- π interaction between α -methyl group of the imine and 2,4,6-triisopropylphenyl group of the catalyst.

	Etot TPSS-D3	G180 TPSS-D3	Nimag	G180,solv. SCS-MP2
	Def2-SVP	Def2-SVP		CBS
me-ketimine/TRIP				
E-2a/1c conf0 (Type I)	-3216.1293034	-3214.9779909	0	-3210.8402178
E-2a/1c conf1 (Type I)	-3216.1292922	-3214.9783768	0	-3210.8405949
E-2a/1c conf2 (Type I)	-3216.1281091	-3214.9776036	0	-3210.8404332
E-2a/1c conf0 (Type II)	-3216.1288254	-3214.9770885	0	-3210.8379438
E-2a/1c conf1 (Type II)	-3216.1288923	-3214.9771949	0	-3210.8380750
E-2a/1c conf2 (Type II)	-3216.1281937	-3214.9763154	0	-3210.8371123
Z-2a/1c conf0 (Type II)	-3216.1239436	-3214.9742384	0	-3210.8370365
Z-2a/1c conf1 (Type II)	-3216.1239479	-3214.9737243	0	-3210.8365321
Z-2a/1c conf2 (Type II)	-3216.1230459	-3214.9719391	0	-3210.8358809
Z-2a/1c conf3 (Type II)	-3216.1243248	-3214.9733132	0	-3210.8352594
Z-2a/1c conf0 (Type I)	-3216.1216601	-3214.9718608	0	-3210.8346718
Z-2a/1c conf1 (Type I)	-3216.1216456	-3214.9716979	0	-3210.8346181
Z-2a/1c conf2 (Type I)	-3216.1212309	-3214.9701984	0	-3210.8321087
ome-ketimine/TRIP				
E-2b/1c conf0 (Type I)	-3291.2958062	-3290.143671	0	-3285.9698539
E-2b/1c conf1 (Type I)	-3291.2957223	-3290.143170	0	-3285.9693529
E-2b/1c conf2 (Type I)	-3291.2947169	-3290.142961	0	-3285.9689460
E-2b/1c conf0 (Type II)	-3291.2952666	-3290.143039	0	-3285.9678192
E-2b/1c conf1 (Type II)	-3291.2940632	-3290.142076	0	-3285.9676053
E-2b/1c conf2 (Type II)	-3291.2955281	-3290.141910	0	-3285.9676420
E-2b/1c conf3 (Type II)	-3291.2942653	-3290.141420	0	-3285.9668046
E-2b/1c conf4 (Type II)	-3291.2942222	-3290.141566	0	-3285.9673435
E-2b/1c conf5 (Type II)	-3291.2953907	-3290.142301	0	-3285.9680170
Z-2b/1c conf0 (Type II)	-3291.2881317	-3290.138687	0	-3285.9654871
Z-2b/1c conf1 (Type II)	-3291.2880073	-3290.138259	0	-3285.9657424
Z-2b/1c conf2 (Type II)	-3291.2873514	-3290.136991	0	-3285.9656882
Z-2b/1c conf3 (Type II)	-3291.2887209	-3290.139127	0	-3285.9655835
Z-2b/1c conf4 (Type II)	-3291.2881877	-3290.137369	0	-3285.9655633
Z-2b/1c conf5 (Type II)	-3291.2881191	-3290.138095	0	-3285.9654841
Z-2b/1c conf6 (Type II)	-3291.2873533	-3290.136156	0	-3285.9647129
Z-2b/1c conf7 (Type II)	-3291.2887316	-3290.138912	0	-3285.9650782
Z-2b/1c conf0 (Type I)	-3291.2861415	-3290.135660	0	-3285.9628199
Z-2b/1c conf1 (Type I)	-3291.2861924	-3290.135523	0	-3285.9628561
Z-2b/1c conf2 (Type I)	-3291.2858786	-3290.134948	0	-3285.9615452
Z-2b/1c conf3 (Type I)	-3291.2863205	-3290.137066	0	-3285.9639722
Z-2b/1c conf4 (Type I)	-3291.2864156	-3290.136289	0	-3285.9632361
Z-2b/1c conf5 (Type I)	-3291.2860152	-3290.137701	0	-3285.9634013
cf3-ketimine/TRIP				
E-2c/1c conf0 (Type I)	-3513.6465830	-3512.5205064	0	-3508.3958759
E-2c/1c conf1 (Type I)	-3513.6465235	-3512.5207007	0	-3508.3960729
E-2c/1c conf2 (Type I)	-3513.6457328	-3512.5204823	0	-3508.3959762

E-2c/1c conf0 (Type II)	-3513.6375353	-3512.5171876	0	-3508.3919597
E-2c/1c conf1 (Type II)	-3513.6375690	-3512.5187441	0	-3508.3936257
E-2c/1c conf2 (Type II)	-3513.6372055	-3512.5172824	0	-3508.3923135
Z-2c/1c conf0 (Type II)	-3513.6411194	-3512.5141016	0	-3508.3916784
Z-2c/1c conf1 (Type II)	-3513.6411936	-3512.5140964	0	-3508.3917285
Z-2c/1c conf2 (Type II)	-3513.6399301	-3512.5135202	0	-3508.3919537
Z-2c/1c conf3 (Type II)	-3513.6416873	-3512.5142537	0	-3508.3903968
Z-2c/1c conf0 (Type I)	-3513.6375353	-3512.5110397	0	-3508.3897986
Z-2c/1c conf1 (Type I)	-3513.6375690	-3512.5114201	0	-3508.3900476
Z-2c/1c conf2 (Type I)	-3513.6372055	-3512.5104673	0	-3508.3876702
ome-cf3-ketimine/TRIP				
E-3a/1c conf0 (Type I)	-3628.111866	-3626.9518503	0	-3622.7355951
E-3a/1c conf1 (Type I)	-3628.111719	-3626.9517008	0	-3622.7359474
E-3a/1c conf2 (Type I)	-3628.110813	-3626.9529548	0	-3622.7367638
E-3a/1c conf3 (Type I)	-3628.112400	-3626.9534522	0	-3622.7374813
E-3a/1c conf4 (Type I)	-3628.112112	-3626.9539513	0	-3622.7383783
E-3a/1c conf5 (Type I)	-3628.111580	-3626.9526340	0	-3622.7359897
E-3a/1c conf0 (Type II)	-3628.111930	-3626.9529648	0	-3622.7347878
E-3a/1c conf1 (Type II)	-3628.112139	-3626.9524390	0	-3622.7341516
E-3a/1c conf2 (Type II)	-3628.111372	-3626.9519985	0	-3622.7342329
Z-3a/1c conf0 (Type II)	-3628.106399	-3626.9475052	0	-3622.7332675
Z-3a/1c conf1 (Type II)	-3628.106393	-3626.9473794	0	-3622.7330704
Z-3a/1c conf2 (Type II)	-3628.104956	-3626.9463497	0	-3622.7331959
Z-3a/1c conf3 (Type II)	-3628.107676	-3626.9492683	0	-3622.7338728
Z-3a/1c conf0 (Type I)	-3628.101010	-3626.9434394	0	-3622.7305094
Z-3a/1c conf1 (Type I)	-3628.101616	-3626.9416407	0	-3622.7262811
Z-3a/1c conf2 (Type I)	-3628.101561	-3626.9436228	0	-3622.7309610
Z-3a/1c conf3 (Type I)	-3628.101626	-3626.9438736	0	-3622.7311135
Z-3a/1c conf4 (Type I)	-3628.101963	-3626.9422244	0	-3622.7264107
ome-ch3-ketimine/TRIP				
E-3b/1c conf0 (Type I)	-3330.592144	-3329.4088051	0	-3325.1805363
E-3b/1c conf1 (Type I)	-3330.592006	-3329.4089581	0	-3325.1810063
E-3b/1c conf2 (Type I)	-3330.591542	-3329.4093499	0	-3325.1804439
E-3b/1c conf3 (Type I)	-3330.593070	-3329.4106280	0	-3325.1822841
E-3b/1c conf4 (Type I)	-3330.592881	-3329.4105133	0	-3325.1823263
E-3b/1c conf0 (Type II)	-3330.594000	-3329.4103556	0	-3325.1787176
E-3b/1c conf1 (Type II)	-3330.593958	-3329.4105325	0	-3325.1790970
E-3b/1c conf2 (Type II)	-3330.593524	-3329.4096527	0	-3325.1785529
Z-3b/1c conf0 (Type II)	-3330.588810	-3329.4073733	0	-3325.1791460
Z-3b/1c conf1 (Type II)	-3330.588676	-3329.4071171	0	-3325.1788328
Z-3b/1c conf2 (Type II)	-3330.587739	-3329.4052449	0	-3325.1780921

Z-3b/1c conf3 (Type II)	-3330.589223	-3329.4070524	0	-3325.1776291
Z-3b/1c conf0 (Type I)	-3330.584634	-3329.4032057	0	-3325.1753078
Z-3b/1c conf1 (Type I)	-3330.584538	-3329.4035100	0	-3325.1754672
Z-3b/1c conf2 (Type I)	-3330.584521	-3329.4023288	0	-3325.1726030
Z-3b/1c conf3 (Type I)	-3330.585319	-3329.4033326	0	-3325.1751190
Z-3b/1c conf4 (Type I)	-3330.585216	-3329.4032161	0	-3325.1751941
Z-3b/1c conf5 (Type I)	-3330.584905	-3329.4038217	0	-3325.1740197
ome-no2-ketimine/TRIP				
E-3c/1c conf0 (Type I)	-3495.681803	-3494.5237310	0	-3490.2561506
E-3c/1c conf1 (Type I)	-3495.681937	-3494.5233009	0	-3490.2559409
E-3c/1c conf2 (Type I)	-3495.681214	-3494.5223690	0	-3490.2543048
E-3c/1c conf0 (Type II)	-3495.683907	-3494.5256113	0	-3490.2545437
E-3c/1c conf1 (Type II)	-3495.683703	-3494.5247775	0	-3490.2537381
E-3c/1c conf2 (Type II)	-3495.682741	-3494.5247566	0	-3490.2541695

Optimized geometry

Solution Phase 2a/1c

E-configuration

E-2a/1c (Type I; conf0)

```
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E-2a/1c (Type I; conf1)

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E-2a/1c (Type I; conf2)

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 -5.5752097532,-1.9585213962\|C,-2.9807652484,0.6889505446,5.2152582637\|
 H,-3.8523852892,0.7897225959,4.5421029066\|H,-3.3334141682,0.302087588,
 6.1852035995\|H,-2.5779181245,1.7067173385,5.3659887307\|C,-3.9761144291
 ,1.1812877432,-3.0771829641\|H,-3.4181959149,1.8754912235,-2.426730909\|
 C,-3.8397017648,-1.6035857213,1.274040925\|C,-6.027797513,-3.4580818717
 ,-2.9216667181\|H,-6.199041163,-3.1301281895,-3.9643023668\|C,-5.0573096
 246,-1.5039275096,2.2159529487\|H,-4.7465280191,-1.6326332026,3.2691156
 556\|H,-5.5614032629,-0.525889466,2.1244280781\|H,-5.8009086197,-2.28938
 76895,1.9845867314\|C,-7.4061053065,-3.73625317,-2.2870649018\|H,-7.3030
 552579,-4.0884071772,-1.2439260065\|H,-8.033629276,-2.8270687045,-2.277
 3440821\|H,-7.9443105409,-4.5183519813,-2.8536508218\|C,-5.1715974457,-4
 .7405333887,-2.9690032235\|H,-5.6872285086,-5.5328651928,-3.5423419997\|

H,-4.1940931546,-4.550506686,-3.4472752093\H,-4.9818806311,-5.13042140
 29,-1.951787543\C,-3.0799022367,0.8797346152,-4.2956311104\H,-3.592762
 8437,0.2263516711,-5.0254211686\H,-2.8131814825,1.8176692013,-4.816853
 5422\H,-2.1457840634,0.3857698358,-3.9797955545\C,-5.2758520638,1.9007
 497787,-3.4938684323\H,-5.0454069624,2.8401000453,-4.0295872938\H,-5.8
 880205038,1.2710255994,-4.1654530468\H,-5.8908445827,2.1520498244,-2.6
 108044567\C,7.0460374087,-1.6460791638,0.0359668846\H,7.2414101257,-1.
 6770685537,1.1245929312\C,3.8276826884,0.7935674175,-3.0736642026\H,2.
 8437018021,1.2874845027,-3.0000915047\C,3.2921067867,1.1494704644,2.03
 20695803\H,2.244892699,1.3493719544,1.7480555666\C,6.7958763383,-3.094
 4008396,-0.4307129855\H,7.6847569127,-3.7231428518,-0.2382643122\H,5.9
 379875657,-3.5419533173,0.100092452\H,6.5831030595,-3.1325587823,-1.51
 47268695\C,8.2952311346,-1.0519064096,-0.6455117936\H,8.1778234825,-1.
 0243885136,-1.7443629088\H,8.4880415412,-0.020818221,-0.2986955325\H,9.
 1886930631,-1.6624729884,-0.4197723981\C,3.2547104503,0.1573940422,3.
 2080309061\H,2.8897732262,-0.8327194261,2.8853159913\H,4.2513204727,0.
 020847958,3.6658367478\H,2.5789013883,0.5323333279,3.9969683557\C,3.91
 5985217,2.4926821044,2.4687069386\H,3.8891881812,3.2312216927,1.648588
 9312\H,3.3656860957,2.9158324172,3.3292710999\H,4.970974315,2.35332892
 56,2.7689643864\C,4.8111786757,1.780438928,-3.7369071596\H,4.912872197
 9,2.7084280509,-3.1470661714\H,5.8168832131,1.3304762482,-3.8344619808
 \H,4.4628060808,2.0561342056,-4.7494013493\C,3.6307431697,-0.463565517
 6,-3.9433325229\H,3.255743588,-0.1750515923,-4.942594271\H,4.577622586
 2,-1.0141212199,-4.0924571608\H,2.8863193815,-1.1344228953,-3.48514723
 92\C,-3.0873290834,-2.9324631439,1.4885074309\H,-3.7416297116,-3.80717
 44119,1.3173112868\H,-2.2218836374,-2.9984902929,0.8090768244\H,-2.718
 6654512,-2.9937493859,2.5284933069\H,-3.1421601782,-0.7937569529,1.542
 1042462\Version=ES64L-G09RevD.01\State=1-AHF=-3216.1281091\RMSD=5.46
 5e-09\RMSF=2.648e-06\Dipole=1.0586791,-2.1603543,5.3634226\Quadrupole=
 -9.2668891,12.0313059,-2.7644168,-13.8670923,-5.8524785,-15.7736362\PG
 =C01 [X(C65H72N1O4P1)]\@\n

E-2a/1c (Type II; conf0)

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 4,-0.9302185863\O,-1.6018888406,0.2874744117,-1.3143601289\O,0.6930495
 261,0.4542612082,-0.1579349648\O,0.2594490128,-1.1782931261,-2.2337877
 527\O,-0.6657889326,-1.6249329102,0.2208221121\C,-1.4820970387,2.24418
 26293,0.0503291888\C,-2.1561965746,1.0829116291,-0.3332797708\C,-3.435
 32709,0.7085286887,0.1844875998\C,-4.0039787045,1.5295318785,1.1489081
 417\H,-4.995094822,1.2890188414,1.5467128656\C,-3.3183544237,2.6656421
 827,1.6667890555\C,-2.0289359098,3.0266302485,1.1305441613\C,-1.327846
 704,4.1159732678,1.7308756597\H,-0.3308103668,4.3763687041,1.362866645
 5\C,-1.8813227194,4.8278048984,2.785564092\H,-1.3189792332,5.651530074
 6,3.238876558\C,-3.1673969086,4.492951287,3.2885940982\H,-3.5952172355
 ,5.0660916268,4.1183471088\C,-3.8682962725,3.431221167,2.7383781825\H,
 -4.8513534696,3.1478842377,3.1311289264\C,-0.2167944251,2.6225589485,-
 0.6416105747\C,0.8493991498,1.7176714266,-0.6908368825\C,2.1464733365,
 2.0800822962,-1.1736313432\C,2.3146457288,3.3498513133,-1.7079353154\H
 ,3.306333867,3.6608696071,-2.0529253527\C,1.2297812912,4.2677089415,-1
 .8168042786\C,-0.0586750488,3.9064599296,-1.2785038757\C,-1.1362462891
 ,4.8315978909,-1.4282335775\H,-2.1282292119,4.5600306426,-1.0558454281
 \C,-0.9470423664,6.0556274202,-2.0530367506\H,-1.7917181427,6.74449424
 73,-2.1643356523\C,0.3301675654,6.4207933869,-2.5568047837\H,0.4670479
 734,7.3923401763,-3.0441019298\C,1.3942540245,5.540089756,-2.442332586

2\H,2.3811260906,5.8032220262,-2.8400477517\|C,3.9277841498,-4.46662501
 82,-0.738169701\|C,4.6042785124,-4.234083963,0.4762758215\H,5.64205054
 42,-4.5651083937,0.5889858142\|C,3.9824377372,-3.5702481284,1.536357167
 6\H,4.5547716353,-3.4040684443,2.4519280599\|C,2.647205994,-3.107022389
 ,1.4238918123\|C,1.9524744662,-3.3831317826,0.2165941458\H,0.9119638746
 ,-3.0729360665,0.088361921\|C,2.5838548003,-4.0397362309,-0.8363392117\|
 H,2.0248721627,-4.2198188656,-1.7608834896\|C,2.0264051345,-2.375563956
 9,2.537570835\|C,2.7804145777,-2.2031655077,3.8234252713\H,2.3114438922
 ,-1.4569717878,4.4780801813\H,3.8094153374,-1.8807629816,3.600965469\H
 ,2.8431189956,-3.1645644182,4.3632569114\N,0.827733576,-1.8411916239,2
 .3939111322\H,0.330487947,-1.8202101875,1.4394499349\|C,0.052231336,-1.
 1720800112,3.3928465147\|C,-0.5068857016,0.0774120324,3.0654216138\H,-0
 .3160580942,0.515517004,2.0821876676\|C,-1.3016146711,0.7407182396,4.00
 91699946\H,-1.7261971677,1.7180462765,3.7607015267\|C,-1.5580413527,0.1
 5506103,5.2593614445\|C,-1.018393525,-1.1044042824,5.567054286\H,-1.231
 017002,-1.5755903593,6.5324334258\|C,-0.2135223956,-1.7747580861,4.6364
 276299\H,0.186142221,-2.7681808329,4.8592010092\|C,3.3111371708,1.15350
 96826,-0.9807999143\|C,3.7334143396,0.276033637,-2.0157830983\|C,4.00112
 14713,1.1786879638,0.2577131524\|C,4.8583939034,-0.5349543644,-1.791724
 3031\|C,5.1270609488,0.3487521785,0.4325419913\|C,5.5793603799,-0.509692
 3752,-0.5816577309\H,5.1907600978,-1.2148575758,-2.5845023177\H,5.6559
 402106,0.3836606552,1.3906252431\|C,-4.1356353286,-0.5132947242,-0.3254
 558956\|C,-4.342123228,-1.6309149124,0.52920607\|C,-4.6159568176,-0.5472
 578054,-1.6651788268\|C,-5.0617108349,-2.7369029115,0.0362047795\|C,-5.3
 159428535,-1.6815894879,-2.1109452732\|C,-5.5609235183,-2.785156778,-1.
 2748237529\H,-5.230467779,-3.5983791691,0.6937424736\H,-5.6861821653,-
 1.7005286229,-3.1427807995\H,-2.1867972214,0.6758780333,5.9892003207\|C
 ,4.6099180282,-5.1226303078,-1.9098218727\H,4.6926501515,-4.4059631329
 ,-2.7489103675\H,5.6229668677,-5.4711817651,-1.6511832536\H,4.02150671
 61,-5.9814176564,-2.280730091\|C,-4.4224581264,0.6218417879,-2.63324669
 38\H,-3.8389092044,1.4014215742,-2.116113424\|C,-3.7901846774,-1.680893
 6092,1.9559301066\|C,-6.3213485488,-4.0081420622,-1.77930585\H,-6.42409
 80743,-4.7015140074,-0.923404321\|C,-4.9080593861,-1.4984121263,3.00328
 40436\H,-4.4861161943,-1.4943785736,4.0252655307\H,-5.4511154088,-0.54
 88151523,2.8550577743\H,-5.6459396537,-2.3204824845,2.9448481424\|C,-5.
 5307781882,-4.7429363228,-2.8820441285\H,-5.402203024,-4.1023123807,-3
 .7739846125\H,-4.5260631979,-5.0319446517,-2.5252833941\H,-6.061295242
 4,-5.6603257203,-3.1972379615\|C,-7.7410148687,-3.645341838,-2.26087623
 78\H,-8.2919555994,-4.5534334428,-2.5673115042\H,-8.3185879593,-3.1471
 797743,-1.4615816587\H,-7.7077268014,-2.9632291772,-3.1303033906\|C,-3.
 6182139275,0.2006653222,-3.8801264321\H,-4.1653361057,-0.5505281524,-4
 .4794554542\H,-3.4317627406,1.0756211031,-4.5299997355\H,-2.6434684279
 ,-0.2254373002,-3.5890901288\|C,-5.7744110753,1.2565462521,-3.020145223
 3\H,-5.6162188245,2.1391953152,-3.6668600805\H,-6.4125392699,0.5434258
 493,-3.5741294827\H,-6.3309217843,1.5843846753,-2.1235664039\|C,6.83226
 14309,-1.3747954796,-0.4425700299\H,6.5886971656,-2.3576215788,-0.8909
 900334\|C,3.005044956,0.2398743592,-3.3599699745\H,1.967673219,0.567201
 9793,-3.1718651278\|C,3.5541271675,2.0839703039,1.4080653661\H,2.644184
 4927,2.6162293367,1.0831039039\|C,7.9911347044,-0.7694067889,-1.2672060
 571\H,8.8854907145,-1.4181450762,-1.2240915848\H,7.7098451102,-0.64591
 33799,-2.3279934363\H,8.2701604425,0.2252979071,-0.8726334887\|C,7.2746
 015547,-1.6177010875,1.0088617011\H,7.6517141329,-0.6914520731,1.47981
 23728\H,6.4463451398,-2.0013338409,1.6288814437\H,8.0928611179,-2.3593
 399445,1.0374115738\|C,3.1755601476,1.2665963507,2.6586643372\H,2.40738
 301,0.5158210664,2.4125018765\H,4.0506964915,0.7400665672,3.0807307396
 \H,2.7676537944,1.927035709,3.4456796654\|C,4.6158910445,3.154506484,1.

7318174161\H,4.843373081,3.7708828813,0.8434533937\H,4.2580554942,3.82
 75889194,2.5325879008\H,5.5603754619,2.6933932079,2.0755786212\C,3.651
 7845765,1.2263576326,-4.3563033328\H,3.6636260236,2.2553084275,-3.9577
 713293\H,4.6967640136,0.9350901383,-4.5731610548\H,3.0941016033,1.2369
 79519,-5.3111684644\C,2.921356181,-1.1715908075,-3.9680635049\H,2.2743
 783552,-1.1546207046,-4.863777614\H,3.9120880931,-1.5475425148,-4.2845
 65515\H,2.4794130915,-1.8780833287,-3.2479134767\C,-2.9935567482,-2.97
 39228812,2.2226451359\H,-3.6399267452,-3.8702843153,2.1923027989\H,-2.
 1909311782,-3.0893610858,1.4763679249\H,-2.5317781648,-2.9319525109,3.
 2253016541\H,-3.0838563418,-0.8417728122,2.0661828876\Version=ES64L-G
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E-2a/1c (Type II; conf1)

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 64\O,-0.6957637612,-1.5981534853,0.0438642701\C,-1.4408930409,2.298033
 2259,0.0694880858\C,-2.1235327275,1.1703936732,-0.3920369437\C,-3.4206
 929358,0.791807267,0.0752486622\C,-4.0016451502,1.5712080763,1.0669351
 501\H,-5.0061591326,1.3259980129,1.4265705143\C,-3.3138734393,2.670100
 3313,1.6570112351\C,-2.0051107643,3.0345187312,1.1726460019\C,-1.30239
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 81\C,-1.8721969241,4.7497304487,2.9180735105\H,-1.3082500691,5.5401702
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 5198,4.9552641769,4.2140070781\C,-3.8803316916,3.3931589443,2.74985654
 02\H,-4.8786704816,3.1095258545,3.1019632459\C,-0.147431271,2.68627279
 31,-0.5619745732\C,0.9028692306,1.7637587322,-0.6236788895\C,2.2232489
 206,2.1243263932,-1.0404498356\C,2.4354489163,3.41894835,-1.4937487849
 \H,3.4445803092,3.7283139289,-1.7856369978\C,1.3732088192,4.3645894719
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 46,4.9543103489,-1.2545164875\H,-2.0065495796,4.6808795333,-0.93852976
 03\C,-0.7586849291,6.2096287843,-1.7951674443\H,-1.5851955664,6.921557
 9418,-1.8975155204\C,0.5444852505,6.5777171026,-2.225055765\H,0.719165
 06,7.5745873278,-2.6444391357\C,1.5865383249,5.6694556766,-2.124376535
 7\H,2.5931383064,5.9353170113,-2.4669427153\C,3.9225744728,-4.48481318
 93,-0.8256743025\C,4.5001347385,-4.3980475686,0.4569075245\H,5.5024314
 78,-4.8054240722,0.6268106984\C,3.8282245835,-3.7793473319,1.513569372
 8\H,4.3259302561,-3.7275617957,2.4846230681\C,2.5385415214,-3.21917330
 89,1.3302633587\C,1.9388433299,-3.350761882,0.0496819669\H,0.932609681
 4,-2.9663935025,-0.1373458317\C,2.620012098,-3.9636866639,-0.99846472\
 \H,2.1355616755,-4.0305099515,-1.9785001475\C,1.8748246039,-2.529241920
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 1,-1.6903491142,4.4282068667\H,3.6184651266,-2.1729173216,3.6312853088
 \H,2.5340604071,-3.4200016454,4.2894375125\N,0.6970826641,-1.957253993
 8,2.2716835073\H,0.2444711661,-1.8782454266,1.2991313172\C,-0.10174962
 27,-1.3104393111,3.2673638007\C,-0.6061572591,-0.0286377764,2.97831107
 62\H,-0.3599835491,0.4492918672,2.0265128869\C,-1.4152948705,0.6176210
 124,3.9214725547\H,-1.7951533344,1.6202523243,3.7044792307\C,-1.741685
 9682,-0.015834654,5.1310543644\C,-1.2573537271,-1.3064261217,5.3989942
 159\H,-1.5242456356,-1.8141440868,6.3317919883\C,-0.4378035768,-1.9603
 978091,4.4696055734\H,-0.0813671279,-2.976498328,4.6609525941\C,3.3588
 144849,1.1587473434,-0.8678568691\C,3.8006250174,0.3429631015,-1.94456

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 98331,-1.7337727753\|C,5.0882376593,0.1977055742,0.5568264914\|C,5.55722
 62429,-0.6041297275,-0.4951473507\|H,5.2390341728,-1.1482719355,-2.5589
 189416\|H,5.5760057996,0.1479933767,1.5357140175\|C,-4.1296560618,-0.387
 176246,-0.5173297553\|C,-4.3626884464,-1.5535106091,0.2650609551\|C,-4.5
 944039551,-0.3308687641,-1.8592926219\|C,-5.0889593091,-2.6164292048,-0
 .3013270825\|C,-5.3101260011,-1.4257542536,-2.3798995859\|C,-5.577643163
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 \|H,-5.6765941914,-1.3804719063,-3.4130416494\|H,-2.3816181166,0.4926070
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 7677,-4.3168937225,-2.763218045\|H,5.6416218198,-5.4999562942,-1.678939
 7107\|H,4.0774344511,-5.8880716541,-2.4667099985\|C,-4.3640432102,0.8890
 873027,-2.7535724329\|H,-3.7792301411,1.6283292118,-2.1810428407\|C,-3.8
 344181243,-1.6946595897,1.6948436949\|C,-6.3621256179,-3.7428902288,-2.
 2097973495\|H,-6.6400260656,-3.457446054,-3.2420024662\|C,-4.9664850863,
 -1.5447101987,2.7324111944\|H,-4.5612699027,-1.6026452151,3.7594684556\|
 H,-5.4886697073,-0.5778053988,2.6263718594\|H,-5.7181809205,-2.34805292
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 93502883,-2.2925977486\|H,-6.0638043654,-5.8412795574,-2.77075362\|H,-4.
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 44,3.1769782115\|H,2.6510015174,1.6552928349,3.5711740628\|C,4.623335319
 3,2.919940203,2.0284407004\|H,4.918168605,3.5816042333,1.194185677\|H,4.
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 0455439729,2.9123679317\|H,-3.1123776141,-0.8788302257,1.8642763009\\Version=ES64L-G09RevD.01\\State=1-AHF=-3216.1288923\\RMSD=3.500e-09\\RMSF
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 O4P1)]\\@

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 @

Z-configuration

Z-2a/1c (Type II; conf0)
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Z-2a/1c (Type II; conf1)

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Z-2a/1c (Type II; conf2)

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Z-2a/1c (Type II; conf3)

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Z-2a/1c (Type I; conf0)

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 ipole=4.2404585,-2.8006632,4.6126408\Quadrupole=5.2311645,2.7992244,-8
 .0303888,-18.1847555,3.3166978,-8.1927265\PG=C01 [X(C65H72N1O4P1)]\\@
 Z-2a/1c (Type I; conf1)

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 scrf=(smd,solvent=ch2cl2,read)\title\0,1\P,-0.9603916882,-0.14192555
 16,-1.4145448894\O,-2.2937923313,0.734318966,-0.9079307935\O,0.2659287
 821,0.6562832469,-0.5481198525\O,-0.8688371361,0.061107523,-2.89709500
 66\O,-0.9585567758,-1.5205372345,-0.7546655317\C,-1.6727979144,1.95512
 93959,1.0400726571\C,-2.4637126007,0.9751343884,0.4394334874\C,-3.4865
 993364,0.2526748334,1.1303319784\C,-3.6601383198,0.5238729348,2.482266
 008\H,-4.4486756315,0.0058568749,3.0385120653\C,-2.8187311265,1.438835
 0964,3.1804065709\C,-1.7951316026,2.1585880225,2.4614381137\C,-0.92116
 50732,3.0122251903,3.2005502972\H,-0.115215161,3.5330793747,2.67560386
 8\C,-1.0692164709,3.1738760149,4.5704644424\H,-0.3807560553,3.82754964
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 \H,-3.7420505508,1.0966516627,5.1201498987\C,-0.6932513919,2.720689274
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 H,1.1883945855,6.7817879224,-1.0697325253\C,5.2004208155,-3.0250042411
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 ,-2.3908437003,1.7833045709\C,3.9880406618,-2.3089943062,1.6412879305\
 H,4.0145105629,-1.9286442732,0.6172667652\C,2.7468500902,-2.4940897831
 ,2.3011227884\C,2.7555882593,-2.9207610335,3.6479806191\H,1.8135834021
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 6,-2.998027661,-0.6205485917\C,2.2831414743,-2.3322848702,-1.837319491
 1\H,1.9180726799,-1.3112166929,-1.9780909738\C,3.0095326036,-2.9787775
 3,-2.8462444606\H,3.1956153973,-2.4582359001,-3.791120851\C,3.50133789
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 H,5.5118855366,0.6866550361,-0.0239581668\C,-4.3284943486,-0.747115530
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 ,-3.2108258066,-0.6159216899\|H,-8.5359189849,-2.3621281805,-2.18421592
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 ,1.6124501553\|H,5.3754140261,3.3284361323,0.9619797871\|H,4.6133094862,
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 44\\O,-0.9780117878,-1.5636955413,-0.542077618\\C,-1.7606525409,2.104992
 5544,0.7673429042\\C,-2.5070104591,1.0633139631,0.2171163662\\C,-3.58256
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 132\\H,-4.6923693633,0.379136014,2.7445002959\\C,-3.0745444495,1.8261627
 066,2.8541507963\\C,-1.9968056204,2.4691563871,2.1416597592\\C,-1.186875
 3773,3.4113350642,2.8454786668\\H,-0.341970981,3.877538427,2.3305104962
 \\C,-1.4464238813,3.7274205803,4.1712667741\\H,-0.8063887998,4.447714983

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 147,-2.7595112647\C,2.6164259544,1.5252583564,2.0775184946\H,1.7161850
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 656\H,1.8047826098,-0.9258105236,-4.068518974\C,-2.5566783942,-3.65096
 15014,1.440176736\H,-3.1713333221,-4.5599846864,1.305945828\H,-2.00945
 30371,-3.4515622957,0.5050766734\H,-1.8198041371,-3.868545605,2.235277
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Solution Phase pome-ketimine/TRIP

E-configuration

E-2b/1c (Type I; conf0)
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E-2b/1c (Type I; conf1)

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E-2b/1c (Type I; conf2)

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E-2b/1c (Type II; conf0)

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E-2b/1c (Type II; conf1)

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E-2b/1c (Type II; conf2)

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E-2b/1c (Type II; conf3)

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 9788849645,-4.6636819453,1.2646522594\H,-1.6310665974,-3.570010788,0.8
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Z-configuration

Z-2b/1c (Type II; conf0)
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 it opt empiricaldispersion=gd3\\title\\0,1\P,-0.9261223555,0.19609813,
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Z-2b/1c (Type II; conf1)

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Z-2b/1c (Type II; conf2)

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Z-2b/1c (Type II; conf3)
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Z-2b/1c (Type II; conf4)

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Z-2b/1c (Type II; conf5)

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.1814646536\H,-8.5203994418,-2.7513672886,-2.3722052521\C,-5.293981176
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 44157,-0.9104284074\H,-1.1442321143,-4.3915326722,0.6208612144\H,-2.25
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 2663442\C,7.9690763571,-3.1637477052,2.4702621252\H,8.9946115349,-3.55
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Z-2b/1c (Type II; conf6)

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 126\O,-0.9762490822,-1.1827563641,-1.3630971425\C,-1.7350015878,1.6392
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 486\|C,4.8741470537,-2.789209739,1.9849062942\|H,5.0733757111,-2.4546986
 226,3.0055853992\|C,3.6559530716,-2.4674920882,1.3890239073\|H,2.9376037
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 67420852,1.3465679661\|C,-0.1566727872,-1.7582257961,2.1026508965\|H,-0.
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 3934139503\|H,-1.1508350829,-1.3926930883,3.9852891287\|C,-0.263096482,-
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 3\|C,-5.3358681297,1.5874621207,-1.0902981102\|H,-4.6622342046,1.9610316
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 3454313,-2.3280176823\|H,-3.8660693508,1.9491947431,-2.6744972225\|C,-6.
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Z-2b/1c (Type II; conf7)

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Z-2b/1c (Type I; conf0)

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Z-2b/1c (Type I; conf1)

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 1.1238943379,1.8816775115\H,1.7262471448,0.7830018348,1.4235421628\H,3
 .3682342976,0.2710251972,1.8891659944\H,2.4601001966,1.4039913453,2.93
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 934447,1.9101417314,1.7645290865\C,1.6049281746,3.9968319275,-4.103279
 2149\H,1.6685002249,4.6890897563,-3.2457840475\H,2.5555583082,4.064880
 4152,-4.6648851903\H,0.7905353539,4.3465855129,-4.7644192259\C,1.15996
 49539,1.613800933,-4.848865957\H,0.2865745908,1.9408353243,-5.44101650
 5\H,2.0364184788,1.6242869717,-5.5232978918\H,0.9686296677,0.577983579
 6,-4.5241614528\C,-2.1946376231,-4.1116836918,0.4747305435\H,-2.742587
 6666,-4.9669787309,0.0387562549\H,-1.7274802364,-3.5363594967,-0.34111
 70052\H,-1.3934435845,-4.5254505226,1.1147073394\H,-2.4980423352,-2.40
 63651955,1.7365819372\O,6.7716829313,-2.9879005936,3.3395217074\C,6.95
 77435181,-3.5440878168,4.6518385781\H,6.5849511012,-4.5833634826,4.697
 3380076\H,8.0434152344,-3.5333363922,4.8263206362\H,6.4529743432,-2.92
 86655815,5.4184426823\\Version=ES64L-G09RevD.01\\State=1-A\\HF=-3291.286
 1924\\RMSD=3.580e-09\\RMSF=3.589e-06\\Dipole=5.0632006,-3.3271268,4.68515
 09\\Quadrupole=4.8044028,-1.2426958,-3.561707,-22.8188917,10.5345324,-1
 1.7862542\\PG=C01 [X(C65H72N1O5P1)]\\@

Z-2b/1c (Type I; conf2)

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 it opt empiricaldispersion=gd3\\title\\0,1\\P,-0.9953261815,-0.27124613
 21,-1.269401822\O,-2.3900855347,0.6178470092,-1.0126214089\O,0.1302576
 525,0.7120554573,-0.4659053444\O,-0.7762569991,-0.3100172907,-2.753714
 092\O,-1.0212352474,-1.5290896479,-0.402703081\C,-1.945465045,2.168106
 2973,0.7426279933\C,-2.6571832341,1.0665357685,0.2656882004\C,-3.69036
 20212,0.4138023866,1.0080561976\C,-3.9670108629,0.8961568066,2.2814294
 263\H,-4.7702257964,0.4378163534,2.8677736964\C,-3.2154013022,1.957851
 6335,2.8646091713\C,-2.1748607388,2.5994247086,2.0981281458\C,-1.39251
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 \C,-1.6457372151,3.9950604395,4.0417731881\H,-1.0275553417,4.769251078
 2,4.5096141347\C,-2.6958653259,3.3891521093,4.7824967629\H,-2.89078688
 6,3.7066343019,5.812695608\C,-3.4601264242,2.3878844923,4.2039195679\H
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 -0.1381595358\C,0.1130325882,2.0775801117,-0.6667010023\C,1.2380697628
 ,2.6796532485,-1.3157393412\C,1.1984021006,4.0471497783,-1.5530090907
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 -1.1787146693\C,-1.0092163207,4.2356387441,-0.450117293\C,-2.125424661
 8,5.0515773101,-0.0929919667\H,-2.9706199289,4.5972113479,0.4329407016
 \C,-2.1585280773,6.3994356812,-0.4193382957\H,-3.0298916794,7.00357138
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 9404\H,0.8533201065,6.6848177715,-2.0360815792\C,5.6181603069,-2.09764
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 6415,-1.7394095398,1.3095641509\C,4.146056727,-1.9078756124,1.40688288
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 \H,4.6172231058,-2.412683882,5.2536252035\C,1.6488964827,-1.9905645742,
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 .2269385021,-2.1801705031,3.2830841528\N,1.3076002622,-2.3547988626,0.

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 1320398419,-0.4842427758\C,1.8731061979,-2.7722282022,-1.8381726719\H,
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 -2.8248815661\H,2.3820536231,-3.2705374648,-3.8762312164\C,3.215112529
 4,-4.7009742218,-2.4692028431\C,3.3350357943,-5.0608436948,-1.11571728
 29\H,3.892325368,-5.9600822571,-0.8325578084\C,2.7316457811,-4.2853756
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 8435,1.8676130384,-1.562829432\C,2.6904151987,1.1890388334,-2.79255397
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 3,-2.9441095873\C,4.5934055029,1.0045431917,-0.7264671154\C,4.81703790
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 44\H,5.3415299311,0.9340439157,0.0708132023\C,-4.4490022305,-0.7313494
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 45881,-0.5057140517,-0.6999695551\C,-5.0882586078,-3.0837930645,0.3970
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 8\C,-6.7721029802,-4.0291101903,-1.2785732902\H,-7.3327809638,-3.61882
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 48814339,-2.7959303822,4.2616248083\H,-4.7952271478,-1.7486264789,3.68
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 77883,-5.9554548459,-2.2829568537\H,-5.1483121768,-4.7923805209,-2.548
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 8956033916,-2.8117594981\H,-5.7657371419,0.2541778323,-3.4158389233\H,
 -5.164639304,1.9226988859,-3.2158027367\H,-4.0614240123,0.5413950767,-
 2.9412361083\C,-6.9352830195,1.3952927084,-1.1153615159\H,-7.041773260
 1,2.4189341227,-1.5194560844\H,-7.6724993776,0.751304008,-1.6294030248
 \H,-7.1982147947,1.4225946104,-0.0423500127\C,6.0862477304,-0.52448069
 57,-2.107932031\H,6.6470627509,-0.468456965,-1.1555181174\C,1.70952767
 1,1.3596660188,-3.9529917597\H,0.7126328405,1.5310884663,-3.5116779344
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 .6233616239\C,5.775411059,-2.0093225991,-2.3792869973\H,6.7099797892,-
 2.5958300249,-2.4485542769\H,5.1584696454,-2.4441435591,-1.5744107824\
 \H,5.2273797791,-2.1370491566,-3.3300644377\C,6.9870292991,0.0635121938
 ,-3.2141501721\H,6.4882197811,0.0168695506,-4.1998078995\H,7.234853298
 6,1.1204342652,-3.0089717347\H,7.9335186327,-0.5031471701,-3.287965213
 3\C,2.5906841081,1.5910094451,1.8545969016\H,1.666921882,1.1377040511,
 1.4606446373\H,3.2800055348,0.773747201,2.1321411407\H,2.3355642128,2.
 1524457402,2.7724641697\C,4.5324018748,3.1528995434,1.3576776113\H,5.0
 150825732,3.8030637639,0.6058887253\H,4.3032809218,3.7692078946,2.2458
 797836\H,5.2671189867,2.3887392536,1.6708345372\C,2.089923255,2.600358
 1601,-4.7916056454\H,2.1168634064,3.5150626117,-4.1749058079\H,3.08833
 73585,2.4713978382,-5.2499919976\H,1.3575963642,2.7592644466,-5.604767
 9454\C,1.587132811,0.1203703021,-4.855266169\H,0.7810182202,0.27793177
 47,-5.593927704\H,2.516953761,-0.0774472207,-5.4201991706\H,1.32795631
 91,-0.7748405789,-4.2678142466\C,-2.4559217335,-3.5546294371,1.7903708
 527\H,-3.0243853051,-4.4970132976,1.6886496008\H,-1.9066146893,-3.3695
 994839,0.8535206013\H,-1.7215588356,-3.7012284372,2.603355762\H,-2.733
 6770565,-1.4824235809,2.271130904\O,6.8991757352,-2.0944247827,3.75468
 83511\C,7.1838406004,-2.2740494415,1.5121798153\H,6.8161025676,-3.25308
 16358,5.508752546\H,8.2795055973,-2.238653124,5.2374679774\H,6.7389274

856,-1.4619657842,5.7550943051\\Version=ES64L-G09RevD.01\\State=1-A\\HF=-3291.2858785\\RMSD=3.823e-09\\RMSF=3.597e-06\\Dipole=4.8038004,-2.239223\\5.1860918\\Quadrupole=4.9162314,-6.2732969,1.3570654,-20.5701109,19.41\\14827,-10.4712965\\PG=C01 [X(C65H72N1O5P1)]\\@\\

Z-2b/1c (Type I; conf3)

1\\1\\GINC-WORKER1\\FOpt\\RTPSSTPSS\\def2SVP/W06\\C65H72N1O5P1\\JHIOE\\12-Jan-2016\\0\\#p scrf=(smd,solvent=ch2cl2,read) rtpsstpss/def2svp/w06 densit
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 09,0.8416826571,-0.5475568589\\O,-1.0745289545,0.6684531513,-2.93866232
 32\\O,-1.0301213428,-1.3081059649,-1.1514398735\\C,-1.8212105922,1.74445
 41553,1.2968778755\\C,-2.5922475088,0.8523150411,0.550708706\\C,-3.55951
 37973,-0.0275524885,1.1306383713\\C,-3.6890262363,-0.0168715692,2.51405
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 7439559,3.3417560206\\C,-1.8981431131,1.6834276357,2.7347470031\\C,-1.03
 55516896,2.4339368864,3.5902969452\\H,-0.276935695,3.0843377993,3.14558
 88935\\C,-1.1354623736,2.3361585852,4.9705676945\\H,-0.4560509469,2.9149
 344301,5.6060038963\\C,-2.1068867854,1.4879629699,5.5667586443\\H,-2.180
 3078115,1.4250119476,6.6579643731\\C,-2.9476609995,0.7313987623,4.76550
 58335\\H,-3.6889183463,0.0597845373,5.2137031186\\C,-0.9018413343,2.6894
 993556,0.6006932164\\C,0.0978110291,2.1862979483,-0.2396022368\\C,1.1901
 661971,2.9923915654,-0.694335399\\C,1.1458093904,4.3567252977,-0.439913
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 139,0.2582141899\\C,-0.9778197404,4.1131803824,0.8049980648\\C,-2.055911
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 89\\C,-2.0998181072,6.1080803971,1.6793342815\\H,-2.9419946602,6.5618825
 996,2.2132832077\\C,-1.0664945014,6.934399128,1.161325687\\H,-1.11071597
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 0405649979,-2.720600214,2.4661722914\\N,1.2532913384,-2.2169227913,-0.2
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 347\\H,5.3723180037,1.001583945,-0.1268147036\\C,-4.4052057322,-0.902196
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 4435,-0.314034523,-0.6221389157\\C,-5.1028944056,-3.1103967154,-0.50673
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 13093146,-1.3771411746\\H,-4.9969026196,-4.2005015743,-0.4622474771\\H,-
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 433,-2.8336812459\|C,-3.9314801943,-3.7427246262,2.3776358578\|H,-3.1771
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 8975021,-2.1289377212\|H,-6.0912879209,1.3388216515,-2.8389380634\|H,-5.
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Z-2b/1c (Type I; conf4)

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Z-2b/1c (Type I; conf5)

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Solution Phase pcf3-ketimine/TRIP

E-configuration

E-2c/1c (Type I; conf0)
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E-2c/1c (Type I; conf1)

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E-2c/1c (Type I; conf2)

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E-2c/1c (Type II; conf0)

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E-2c/1c (Type II; conf1)

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Z-2c/1c (Type II; conf1)

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Z-2c/1c (Type II; conf2)

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Z-2c/1c (Type I; conf0)

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Z-2c/1c (Type I; conf1)

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Z-2c/1c (Type I; conf2)

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Solution Phase pcf3-pome-ketimine/TRIP

E-configuration

E-3a/1c (Type I; conf0)

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E-3a/1c (Type I; conf1)

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E-3a/1c (Type I; conf2)

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E-3a/1c (Type I; conf3)

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E-3a/1c (Type I; conf4)

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E-3a/1c (Type I; conf5)

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E-3a/1c (Type II; conf0)

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E-3a/1c (Type II; conf1)

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E-3a/1c (Type II; conf2)

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 Z-3a/1c (Type II; conf0)

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 ,-0.6898394033,-2.650004361,5.6022021977\H,-0.7070263875,-3.1821897417
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Z-3a/1c (Type II; conf1)

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 7019861\H,2.2170126027,2.7412292927,-5.2231574311\H,1.1906930065,1.480
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Z-3a/1c (Type II; conf2)

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Z-3a/1c (Type II; conf3)

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Z-3a/1c (Type I; conf0)

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Z-3a/1c (Type I; conf1)

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Z-3a/1c (Type I; conf2)

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Z-3a/1c (Type I; conf3)
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 pt scrf=(smd,solvent=ch2cl2,read)\\title\\0,1\\P,-0.9887272982,-0.26009
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Z-3a/1c (Type I; conf4)

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Solution Phase pch3-pome-ketimine/TRIP

E-configuration

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E-3b/1c (Type I; conf1)

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E-3b/1c (Type I; conf2)

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E-3b/1c (Type I; conf3)

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 462,-4.8065298242,-2.441481617\H,-5.2898120783,-5.5727596615,-1.644436
 3184\|C,-4.680007758,-2.4932930155,2.54533517\H,-4.3173922646,-2.501009
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 0262005\H,-4.4037870693,-4.5438762803,-4.417703531\H,-3.3557271788,-5.
 3677677702,-3.2284831685\H,-4.7227665913,-6.2455489734,-3.9790428388\|C
 ,-6.7914673362,-4.7124455655,-2.9260338238\H,-7.1353813507,-5.68757718
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 349129,-3.9693108319,-3.7379736713\|C,-3.4686066513,0.0102016019,-4.127
 2497242\H,-3.8197391376,-0.7904992127,-4.804491553\H,-3.4433413684,0.9
 512615056,-4.7072991061\H,-2.4391881924,-0.2256687605,-3.8102293344\|C,

-5.8323837831,0.5315213642,-3.3310009702\H,-5.8321736663,1.4674071847,
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 37,0.6805020427,-2.4512105252\C,6.7816685314,-0.17027876,0.0128761132\
 H,7.0643973245,-0.6150318677,-0.9603433363\C,3.3036699027,1.7049206744
 ,-3.1845420662\H,2.2500039727,2.0295924974,-3.1391200128\C,2.717285726
 ,2.2659182766,1.9000958089\H,1.6429252782,2.2080472667,1.6536811695\C,
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 9376838,1.3993337347\C,6.6359171379,-1.323082793,1.0265812805\H,6.4179
 160365,-0.9456749816,2.0424712558\H,5.8218755571,-2.009853926,0.736479
 2568\H,7.5731894235,-1.9059911431,1.0838267895\C,2.9278097238,1.443088
 8688,3.1830514131\H,2.781407404,0.3653988639,3.0004831676\H,3.94094473
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 6858,1.6512308235\H,-1.5784714714,-3.1805322865,1.0739561638\H,-2.0069
 675443,-3.2669389577,2.8102394155\H,-3.0545812738,-1.3042053392,1.7940
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 36130227,-3.1703638684\H,6.3743969451,-2.640340909,-2.8804323873\H,6.6
 302896442,-4.2370516801,-3.6738271265\H,5.0506168411,-3.3901381758,-3.
 8561792438\H,-2.9890986139,1.2254970268,5.4814147249\H,-3.3091250085,-
 0.326593462,6.3183058945\H,-3.9738742501,-0.0174055902,4.6849535248\V
 ersion=ES64L-G09RevD.01\State=1-AHF=-3330.5930698\RMSD=3.593e-09\RMSF
 =3.536e-06\Dipole=2.2998722,-1.2365404,4.4287694\Quadrupole=2.923212,-
 6.398238,3.4750259,-16.2848653,-9.5597335,-12.2631069\PG=C01 [X(C66H74
 N1O5P1)]\\@"

E-3b/1c (Type I; conf4)

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 9,-1.1815605641\O,-1.5852565687,0.3828448735,-1.5302889578\O,0.5399402
 35,0.7650948018,-0.1312304101\O,0.6019516429,-0.4837936417,-2.48297219
 11\O,-0.3651919429,-1.5687135004,-0.2444803586\C,-1.8820287632,2.20082
 28428,-0.0054302361\C,-2.325817833,0.9868730035,-0.5371655448\C,-3.564
 9599188,0.3762712019,-0.1661903441\C,-4.3400799634,1.0148437628,0.7932
 739973\H,-5.3042142637,0.5820932407,1.0805372374\C,-3.8986621282,2.201
 0969549,1.4473697411\C,-2.641188419,2.7976261622,1.0663212908\C,-2.178
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 867251,2.7970208084\|C,2.5572809528,-2.7765914707,3.6571164055\H,3.5261
 108462,-2.7468227165,3.133082769\H,2.3440268276,-3.8300154108,3.915795
 6003\H,2.6260304359,-2.2058373719,4.5951016912\N,1.5414933182,-2.23873
 87659,1.4838288878\H,0.7243093291,-1.8575204921,0.8958878957\|C,2.56461
 23033,-2.7917338749,0.6571444418\|C,2.9722000849,-2.0428898938,-0.46104
 72129\H,2.5778893183,-1.0368639701,-0.6264747146\|C,3.9159716176,-2.558
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 275,-0.8091336685\|C,-4.0737931391,-2.1005062728,-0.0406957161\|C,-4.366
 5225063,-0.9227356914,-2.1832411381\|C,-4.5366855545,-3.2777080403,-0.6
 557465011\|C,-4.8161340288,-2.1292282223,-2.7519922161\|C,-4.9145157304,
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 \H,-5.1033920554,-2.1450531368,-3.8107121145\|C,-3.2358922007,0.1800608
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 83441,1.1601586141,-2.4449837258\|C,-3.6393422655,-2.153856359,1.425158
 4347\|C,-5.3878176249,-4.6122458838,-2.6632002267\H,-5.6601311039,-4.36
 72241623,-3.7070592824\|C,-4.8468005231,-2.3247547411,2.3687434185\H,-4
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 ,-2.5005936301\|C,-4.2558241424,-5.6599674951,-2.7091070316\H,-4.590051
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 415523\H,-3.9443261405,-5.9524254314,-1.6893439449\|C,-3.3550664162,0.1
 559164899,-4.252898608\H,-3.7064832541,-0.6325532096,-4.9440429405\H,-
 3.2861697614,1.0975233364,-4.8283735702\H,-2.3428792372,-0.1089549215,
 -3.9050499077\|C,-5.7270080048,0.7420199398,-3.5289833071\H,-5.68077704
 38,1.6793175519,-4.1135875716\H,-6.1807384024,-0.0344182904,-4.1720259
 917\H,-6.4010869404,0.9077957171,-2.6692300516\|C,6.7865138478,-0.33904
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 156\|C,2.7354405306,2.1436905587,1.9826487144\H,1.6664783808,2.12779576
 02,1.7083500858\|C,7.9358748198,0.5982549624,0.5532367493\H,8.878979887
 ,0.0339989206,0.6742197527\H,8.1035338111,1.3914857364,-0.1970374187\H
 ,7.7056056504,1.0873442662,1.5180474146\|C,6.6041495095,-1.4883277646,1
 .1371924335\H,6.396820071,-1.1052853182,2.1531775243\H,5.7697925191,-2
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 02085\H,3.8952481349,1.3735547562,3.691393111\H,2.1577658208,1.5928248
 896,4.0105178163\|C,3.1109919742,3.6111503581,2.2865741203\H,2.94123865

48,4.2603880351,1.4104289379\H,2.5042857596,4.0023379712,3.1239570255\H,4.1773694058,3.6886944626,2.5683140647\C,4.2924326543,2.7997541229,-3.7457986238\H,4.2555295756,3.7359810881,-3.1610552311\H,5.3507579127,2.4846250625,-3.8101754387\H,3.9411422279,3.0212109196,-4.7705421148\C,3.4311625571,0.4133658763,-3.9536394112\H,3.0644640138,0.6404111285,-4.9717728657\H,4.445654711,-0.014037683,-4.0570838618\H,2.7596514109,-0.3405716155,-3.5118516624\C,-2.5810656099,-3.2474405444,1.6719864002\H,-2.9937736734,-4.2615224443,1.516941185\H,-1.7228041426,-3.105484438,0.9949568897\H,-2.2166788091,-3.1927237587,2.7139323324\H,-3.1626526683,-1.1901503682,1.6654246734\O,5.3916260486,-4.419861915,-1.9349324528\C,5.8669620134,-3.6925295332,-3.0761169882\H,6.3571866135,-2.7487702769,-2.7719864249\H,6.6042379563,-4.3484708347,-3.5620084554\H,5.0455479963,-3.4723813409,-3.7827406752\H,-3.0851323019,1.2568245466,5.4604236113\H,-3.506720154,-0.3160856863,6.2071986326\H,-4.091805375,0.1015578178,4.5658346003\\Version=ES64L-G09RevD.01\\State=1-A\\HF=-3330.5928812\\RMSD=6.957e-09\\RMSF=2.749e-06\\Dipole=2.1755134,-1.3253505,4.5411343\\Quadrupole=2.8335245,-5.2604859,2.4269613,-15.9182671,-10.4039154,-11.9699367\\PG=C01 [X(C66H74N1O5P1)]\\@

E-3b/1c (Type II; conf0)

1\\1\\GINC-WORKER1\\FOpt\\RTPSSTPSS\\def2SVP/W06\\C66H74N1O5P1\\JHIOE\\28-Jul-2016\\0\\#p tpsstpss/def2svp/w06 densityfit empiricaldispersion=gd3 opt
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 973,-0.7096320369,-0.1977872237\\O,-0.6294912544,1.0651623957,-2.188601
 9034\\O,0.4072649308,1.624421506,0.1952794647\\C,2.0346087658,-2.0285880
 527,-0.4764491697\\C,2.4314921966,-0.7209541621,-0.7715009928\\C,3.70168
 37976,-0.1887043852,-0.3818398443\\C,4.5357865336,-0.993722091,0.384014
 1203\\H,5.5207535273,-0.6183673957,0.681135802\\C,4.1353774819,-2.287345
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 44\\C,3.2637707938,-4.7987071677,1.787579915\\H,2.9206605335,-5.76140862
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 6,-4.8789625164,2.8372015454\\C,4.9611302342,-3.0634682151,1.6929576906
 \\H,5.9336098832,-2.6560970964,1.9914952575\\C,0.7820136087,-2.578524332
 7,-1.0675742409\\C,-0.4330785225,-1.9165767445,-0.8686531768\\C,-1.69201
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 423774\\H,-2.6391973942,-4.1705497366,-2.1770928623\\C,-0.4734959855,-4.
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 422,-3.0266965831\\H,-1.4450724183,-5.9833160244,-3.3336295969\\C,-4.851
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 26636,4.2136571564\\H,-2.6568170093,2.1231436874,4.9248577323\\N,-0.8096
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E-3b/1c (Type II; conf1)

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 [X(C66H74N1O5P1)]\|@

E-3b/1c (Type II; conf2)
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 241\\RMSD=3.008e-09\\RMSF=2.476e-06\\Dipole=1.7665572,0.6505968,4.8068416
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Z-configuration

Z-3b/1c (Type II; conf0)

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 C,-1.1845705347,2.4033718349,4.826205751\H,-0.5042810152,2.9138990836,
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 27,-0.4705479828,-3.1993061819\|C,2.1796671731,2.2573282093,-3.51826173
 31\|H,1.1730971937,2.3524460039,-3.0769481328\|C,3.5254085977,2.02492070
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 01 [X(C66H74N1O5P1)]\\@

Z-3b/1c (Type II; conf1)

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Z-3b/1c (Type II; conf2)

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Z-3b/1c (Type II; conf3)

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Z-3b/1c (Type I; conf0)
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Z-3b/1c (Type I; conf1)

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Z-3b/1c (Type I; conf2)

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 9,3.3580464401,-3.8274532824\|H,3.4388818635,2.3143887001,-4.8932283193
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Z-3b/1c (Type I; conf3)

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Z-3b/1c (Type I; conf4)

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Z-3b/1c (Type I; conf5)

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 8959315,-3.7835440393\|H,5.0669542939,-3.4993185297,-4.0698837951\|H,5.7
 466811036,-5.1624416502,-4.1951717707\|H,3.9612663036,-4.9248390907,-4.
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 .977e-09\RMSF=2.781e-06\|Dipole=4.4145081,-1.1633613,3.4989919\|Quadrupole=8.4952824,-11.4807671,2.9854848,-13.9893738,3.475207,1.8349872\|PG=C
 01 [X(C66H74N1O5P1)]\|@"

Solution Phase pno2-pome-ketimine/TRIP

E-configuration

E-3c/1c (Type I; conf0)

1\1\GINC-WORKER0\FOpt\RTPSSTPSS\def2SVP/W06\C65H71N2O7P1\JHIOE\31-Mar-
 2016\0\#p tpsstppss/def2svp/w06 densityfit empiricaldispersion=gd3 opt
 scrf=(smd,solvent=ch2cl2,read)\title\0,1\P,0.180814199,-0.435846976
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 427,0.7724668842,-0.1113152743\O,1.0466911089,-0.5369917775,-2.3982254
 563\O,-0.0674752589,-1.6150949646,-0.2379992198\C,-1.7649928484,2.1111
 295826,-0.2525893604\C,-2.1210087714,0.8750403463,-0.8018336492\C,-3.4
 002630388,0.2681845596,-0.5922012698\C,-4.2955400799,0.9157226086,0.24
 97923432\H,-5.2895668884,0.4854611252,0.410502659\C,-3.950574886,2.118
 169615,0.930864625\C,-2.6602259931,2.7186491077,0.7014681629\C,-2.3106
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 4567\C,-3.2015635029,4.4364740309,2.3635435605\H,-2.9067016622,5.32032
 40135,2.9400000079\C,-4.4896843314,3.8679156683,2.5545960865\H,-5.1861
 70057,4.3213609992,3.2683106632\C,-4.8506210774,2.7284819426,1.8544756
 539\H,-5.8269921314,2.2600350655,2.0171270548\C,-0.4926916379,2.771748
 127,-0.660740177\C,0.7185104458,2.0839523057,-0.548886763\C,1.98966585
 35,2.6950314865,-0.7862212809\C,2.0051145825,4.017902863,-1.2060391513
 \H,2.9642693747,4.5193671747,-1.3713555902\C,0.8021336226,4.7414263738
 ,-1.4506831214\C,-0.4705913631,4.1131588772,-1.192762152\C,-1.65758078
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 28046125\H,0.0427632823,-3.1867090664,4.9048407105\C,0.1970599638,-1.7
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 94494164,1.5640724449\H,0.9821526854,-1.9655653432,0.8794546124\C,2.91
 36834115,-2.7790575193,0.8912742286\C,3.2897778279,-2.1423770794,-0.31
 4061092\H,2.7354590312,-1.2795697793,-0.6911211231\C,4.3991618144,-2.5
 893995468,-1.0209596368\H,4.7066845664,-2.0879632695,-1.9419624098\C,5
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 94282,-2.2991447479,0.9273459511\C,-4.9585509355,-4.6456551252,-3.4016
 287691\H,-5.1386039275,-5.4138012397,-2.6260784819\C,-5.0549234467,-2.
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6,-4.4332096538,-5.1163583572\H,-2.8981226796,-5.3325306837,-3.7414434
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 133577\C,6.9121993651,-0.3373338857,0.2108150255\H,6.9971519264,-1.043
 3554199,-0.637607261\C,3.6642576405,1.7388494646,-3.0764277669\H,2.610
 62133,2.0663184728,-3.0827503284\C,2.8386987682,2.2006622042,1.9830037
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 5,0.1715384229\H,9.0817553702,-0.0003645333,0.2786339697\H,8.202811494
 8,1.1421659125,-0.7811221275\H,8.1127758343,1.3239437126,0.9939871803\
 C,6.8866676532,-1.1719829957,1.5024356977\H,6.9305207026,-0.5329796914
 ,2.4034013761\H,5.9727674567,-1.7886290589,1.5642460664\H,7.7580668703
 ,-1.8504631162,1.5364555356\C,2.8703507887,1.2986570262,3.2285196674\H
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 7110319649\H,2.1435992251,1.659947291,3.977705603\C,3.3080676456,3.631
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 377857,4.0561083185,3.1477375246\H,4.3653847737,3.6261194491,2.6520176
 727\C,4.5215779298,2.8792860217,-3.6662653435\H,4.4252428204,3.8063440
 607,-3.0740848636\H,5.5915530895,2.5991535789,-3.6821993229\H,4.213335
 5884,3.1033545861,-4.7042775452\C,3.7453767843,0.4751026483,-3.9548070
 887\H,3.3966452311,0.7059006413,-4.9784920392\H,4.7796372863,0.0941892
 01,-4.0393670571\H,3.0976756275,-0.3157001654,-3.5438564195\C,-2.66626
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 431\H,-1.7338453698,-3.1076420947,0.7108038769\H,-2.4519259073,-3.3483
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 e=4.7542558,-3.1727021,4.3601214\Quadrupole=-1.0565846,16.4672826,-15.
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E-3c/1c (Type I; conf1)

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 6105658,3.9299022567,1.4059351804\H,-1.2373205233,4.3572822889,1.29026
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 4807,2.904043082\C,-4.4238980778,3.942694276,2.4876802695\H,-5.1170155
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 \H,-5.7849412469,2.3656567422,1.9192658441\C,-0.4163353823,2.811654295
 7,-0.702745025\C,0.7763795803,2.0946935218,-0.5716237079\C,2.067005512

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 \|H,2.7560187182,-1.2196887763,-0.716042549\|C,4.3567112508,-2.591011993
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 \H,-1.755153019,-3.059883808,0.5782343905\H,-2.4741191077,-3.2832640545
 ,2.2035781806\H,-3.3644785223,-1.2438562147,1.1493211371\O,6.140462509
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 1159,-1.7646448186\H,7.3624159464,-5.0346067287,-0.020624123\N,-3.7436
 117568,-0.4679227515,4.3496777324\O,-4.3206247979,0.3348964875,3.61102
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E-3c/1c (Type I; conf2)

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 26594,-0.5735128972\C,-2.0755905601,0.792776748,-0.9850299241\C,-3.375
 9041953,0.2523677038,-0.7299087807\C,-4.2622285427,1.0211997279,0.0130
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 8606178,0.5525990428\C,-2.5762006809,2.8160303074,0.2818960953\C,-2.20
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 78443,-1.0092720774\C,0.807844238,1.9306525534,-0.754672016\C,2.105274
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 04,-1.879950463,1.4227857831\H,7.0978091701,-1.7894374153,-0.206675759
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E-3c/1c (Type II; conf0)

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E-3c/1c (Type II; conf1)

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