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Rapid Intramolecular Heterolytic Dihydrogen Activation by a Fourmembered Heterocyclic Phosphane-Borane Adduct

Patrick Spies,^a Gerhard Erker,^{*a} Gerald Kehr^a, Klaus Bergander^a, Roland Fröhlich^{§a}, Stefan Grimme^{§§a}, Douglas W. Stephan^b

Supporting Informations

Experimental Section:

All reactions involving air or moisture-sensitive compounds were ¹⁰ carried out under an inert gas using Schlenk-type glassware or in a glovebox. Solvents were dried and distilled prior to use. Unless otherwise noted, all starting materials were commercially available and were used without further purification. The following instruments were used for physical characterisation of the

- ¹⁵ compounds: melting points: DSC 2010 TA-instruments; elemental analyses: Foss–Heraeus CHNO-Rapid; NMR spectrometer: Bruker AV 300 (¹H: 300.1 MHz; ¹³C: 75.5 MHz; ³¹P: 121.5 MHz; ¹⁹F: 282.4 MHz), Varian INOVA (¹H: 499.8 MHz; ¹³C: 125.7 MHz; ³¹P: 202.3 MHz; ¹⁹F: 470.3 MHz; ²H: 76.7 MHz), Varian UNITY ²⁰ plus (¹H: 599.9 MHz; ¹³C: 150.8 MHz; ¹⁹F: 564.2 MHz).
- Data sets were collected with a Nonius KappaCCD diffractometer. Programs used: data collection COLLECT (Nonius B.V., 1998), data reduction Denzo-SMN (Z. Otwinowski, W. Minor, *Methods in Enzymology*, **1997**, *276*, 307-326), absorption correction Denzo (Z.
- ²⁵ Otwinowski, D. Borek, W. Majewski, W. Minor, *Acta Cryst.* 2003, *A59*, 228-234), structure solution SHELXS-97 (G.M. Sheldrick, *Acta Cryst.* 1990, *A46*, 467-473), structure refinement SHELXL-97 (G.M. Sheldrick, Universität Göttingen, 1997), graphics SCHAKAL (E. Keller, Universität Freiburg, 1997).
- ³⁰ Crystallographic data for this paper can be obtained free of charge at www.ccdc.cam.ac.uk/conts/retrieving.html [or from the Cambridge Crystallographic Data Centre, 12 Union Road, Cambridge CB2 1EZ, UK; fax: (internat.) +44(1223)336-033, Email: deposit@ccdc.cam.ac.uk].

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Preparation of 2.

5.13 g (16.8 mmol) chlorodimesitylphosphine was dissolved in 60 ml thf (60 cm³). 0.7 M vinylmagnesiumbromide in thf (24 cm³) was added. The solution was stirred for 1h at room temperature, the

- ⁴⁰ solvent was removed on the rotary evaporator and the residue was extracted with pentane (100 cm³). The pentane was removed in the oil pump vacuum and a brown oil could be obtained (3.93 g, 79%). The crude product was cleaned *via* column-chromatography (silica gel; CH₂Cl₂ Cyclohexane 2 : 8). A colorless oil (2.37 g, 48 %)
- ⁴⁵ could be obtained. [Compound **2** contained two minor impurities (\geq 5%) as judged from the ³¹P spectrum (δ -36.4, δ -93.2)]. (Found: C, 80.6; H, 8.6. C₂₀H₂₅P requires C, 81.1; H, 8.5%); $\delta_{\rm H}(500 \text{ MHz}; d_6$ -benzene; Me₄Si) 6.98 (1H, J_{PH} 26.4, $J_{HH, cis}$ 11.7,
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- $\begin{array}{l} J_{HH, trans} 18, \text{ ddd, CH=}), 6.69 \ (2H, m, J_{PH} 2.6, m-Mes), 5.35 \ (1H, 50) \\ J_{PH, trans} 26.6, J_{HH, cis} 11.7, {}^2J_{HH} 2.3, \text{ ddd, =CH}_2), 5.29 \ (1H, J_{HH, trans} 18.0, J_{PH, cis} 11.9, {}^2J_{HH} 2.3, \text{ ddd, =CH}_2), 2.34 \ (12H, s, o-CH_3^{Mes}), 2.07 \ (6H, s, p-CH_3^{Mes}); \\ \delta_{C\{H\}} (126 \text{ MHz; } d_6\text{-benzene; Me4Si}) 142.4 \ (d, J_{PC} 14.9, i\text{-Mes}), 137.9 \ (p\text{-Mes}), 131.4 \ (d, J_{PC} 17.2, i\text{-Mes}), 130.2 \ (d, J_{PC} 3.6, m\text{-Mes}), 129.4 \ (d, J_{PC} 12.9, P-C=), 121.8 \ (d, J_{PC} 517.3, =CH_2), 23.2 \ (d, J_{PC} 14.4 \text{ Hz}, o-CH_3^{Mes}), 20.9 \ (p\text{-CH}_3^{Mes}); \end{array}$
 - $\delta_{P\{H\}}(202 \text{ MHz}; d_6\text{-benzene}; H_3PO_4) 22.0 (v_{1/2} = 2 \text{ Hz}).$

Preparation of 4.

Dimesitylvinylphosphane (2) (200 mg, 0.67 mmol) and HB(C₆F₅)₂ $_{60}$ (3) (233 mg, 0.67 mmol) were suspended in pentane (20 cm³) and stirred for 1 h at ambient temperature. The resulting clowdy solution was filtered and the clear filtrate evaporated to dryness in vacuo to yield 4 (322 mg, 75%) as a yellow solid (Found: C, 58.8; H, 3.9. C₃₂H₂₆BF₁₀P requires C, 59.8; H, 4.1%); δ_H(600 MHz; 65 C₆D₆; Me₄Si) 1.91 (6H, s, p-CH₃^{Mes}), 2.03 (12H, s, o-CH₃^{Mes}), 2.29 (2H, dt, J_{PH} 42 and J_{HH} 8, CH₂-B), 2.87 (2H, q, $J_{HH} = J_{PH}$ 8, P-CH₂), 6.44 (4H, d, J_{PH} 2.0, m-Mes); δ_{C{H}}(151 MHz; C₆D₆ MHz; Me₄Si) 18.2 (br., CH₂-B), 20.5 (*p*-CH₃^{Mes}), 22.5 (d, J_{PC} 6.5, o-CH₃^{Mes}), 29.4 (d, J_{PC} 37, P-CH₂), 119.4 (*i*-C₆F₅), 126.8 (d, J_{PC} 23, *i*-⁷⁰ Mes), 130.9 (d, J_{PC} 7.5, m-Mes), 137.5 (dm, J_{FC} 245, C₆F₅), 140.3 $(dm, J_{FC} 252, p-C_6F_5)$, 141.0 $(d, J_{PC} 2.6, p-Mes)$, 142.1 $(d, J_{PC} 8.0, p-Mes)$ *o*-Mes), 148.3 (dm, J_{FC} 243, C₆F₅); δ_{P{H}}(121 MHz; C₆D₆; H₃PO₄) 20.6 ($v_{1/2}$ = 30 Hz); δ_F (282 MHz, C₆D₆, CFCl₃) -128.8 (4F), -157.0 $(2F, p-C_6F_5)$, -163.6 (4F); $\delta_{B_{\{H\}}}(96 \text{ MHz}, C_6D_6, BF_3OEt_2)$ 8.5 ($v_{1/2}$ $_{75} = 460 \text{ Hz}$). ESI MS: m/z 643.17 ((M + H)⁺, 100 %).

Reaction of 4 with dihydrogen, preparation of 5.

Compound 4 (1.00 g, 1.6 mmol) was dissolved in pentane (15 cm³). Dihydrogen gas was introduced to the solution with vigorous stirring through a capillary (1.5 bar) for 15 min at room temperature. The product precipitated during this time as a white solid. It was collected by filtration, washed with pentane (10 cm³) and dried in vacuo to yield **5** as a white solid (616 mg, 60%) (Found: C, 59.3; H, 4.3. $C_{32}H_{28}BF_{10}P$ requires C, 59.7; H, 4.4%); smp 81°C; $\delta_{H}(500 \text{ MHz}; d_8\text{-thf}; Me_4\text{Si})$ 1.25 (2H, br. m, CH₂-B), 2.32 (6H, s, *p*-CH₃^{Mes}), 2.45 (12H, s, *o*-CH₃^{Mes}), 2.80 (2H, m, P-CH₂), 2.91 (1H, br., B-H), 7.11 (4H, *J_{PH}* 4.2, *m*-Mes), 7.87 (1H, dt, *J_{PH}* 486 and *J_{HH}* 7.3, P-H); $\delta_{C\{H\}}(126 \text{ MHz}; d_8\text{-thf}; Me_4\text{Si})$ 17.8 (br. m, CH₂-B), 21.0 (d, *J_{PC}* 1.3, *p*-CH₃^{Mes}), 21.9 (d, *J_{PC}* 6.8, *o*-CH₃^{Mes})

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- ⁹⁰ 26.9 (d, J_{PC} 34.4, P-CH₂), 114.8 (d, J_{PC} 76.2, *i*-Mes), 128.1 (br., *i*-C₆F₅), 132.2 (d, J_{PC} 10.8, *m*-Mes), 137.1 (dm, J_{FC} 247, C₆F₅), 138.3 (dm, J_{FC} 243, C₆F₅), 144.2 (d, J_{PC} 9.5, *o*-Mes), 145.8 (d, J_{PC} 2.7, *p*-Mes), 149.0 (dm, J_{FC} 237, C₆F₅); $\delta_{P\{H\}}$ (121 MHz; d₈-thf; H₃PO₄) -6.5 ($v_{1/2}$ = 55 Hz); δ_{P} (121 MHz; d₈-thf; H₃PO₄) -6.5 (dm, J_{PH} 486);
- ⁹⁵ δ_F(282 MHz; d₈-thf; CFCl₃) -133.4 (4F), -165.8 (2F, *p*-C₆F₅), 168.0 (4F); δ_{B{H}}(96 MHz; d₈-thf; BF₃OEt₂) -20.1 (v_{1/2} = 67 Hz); δ_B(96 MHz; d₈-thf; BF₃OEt₂) -20.1 (d, *J*_{BH} 88). Crystal data for C₃₂H₂₈BF₁₀P, *M* = 644.32, monoclinic, space group *P*2₁/c (No. 14), 12.3680(3), *b* = 18.5413(5), *c* = 13.1716(1) Å, β = 96.361(2)°, *V* =
- ¹⁰⁰ 3001.90(13) Å³, $D_c = 1.426 \text{ g cm}^3$, $\mu = 1.572 \text{ mm}^{-1}$, Z = 4, $\lambda = 1.54178$ Å, T = 223(2) K, 21035 reflections collected (±h, ±k, ±l), $[(sin\theta)/\lambda] = 0.60$ Å⁻¹, 5312 independent ($R_{int} = 0.060$) and 4566 observed reflections [$I \ge 2\sigma(I)$], 411 refined parameters, R = 0.050, $wR^2 = 0.144$, CCDC 650365.
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Reaction of 4 with deuterium, formation of 5-D₂.

Compound 4 (535 mg, 0.8 mmol) was dissolved in pentane (10 cm³). Under vigorous stirring, deuterium (1.5 bar) was pressed on the flask for 30 min. The product precipitated during this time as a ¹¹⁰ white solid. It was collected by filtration, washed with pentane (5

cm³) and dried in vacuo to yield **5-D**₂ as a white solid (296 mg, 55 %). $\delta_{\rm D}(76.7 \text{ MHz}; \text{th}f; \text{Me}_{4}\text{Si}) 2.94 (1D, \text{ br. B-D}), 7.87 (1D, J_{PD} 75, d, P-D). (J_{\rm PD(calc)} = \gamma(^{2}\text{H}) / \gamma(^{1}\text{H}) \times J_{\rm PH(exp)} = 74.6 \text{ Hz})^{1}.$

[5-D₂ contains about 30% of 5, judged from ³¹P spectra (see ¹¹⁵ below); origin as yet unexplained]. ¹ E. Fluck and H. Binder, Z. Naturforsch., 1967, 22, 805; A. A. Borisenko, N. M. Sergeyev, and Yu. A. Ustynyuk, Molec. Phys., 1971, 22, 715.

Reaction of 5 with benzaldehyde, formation of 6.

120 Compound 5 (542 mg, 0.8 mmol) was added to a solution of benzaldehyde (114 mg; 1.1 mmol) in thf (10 cm³). The reaction mixture was stirred for 1 h at room temperature and then evaporated to dryness. The residue was suspended in pentane (10 cm³) and the product collected by filtration and dried in vacuo to 125 yield 6 as a white solid (230 mg; 36%) (Found: C, 62.1; H, 4.4. $C_{39}H_{34}BF_{10}OP$ requires 62.4; H, 4.6%); $\delta_{H}(600 \text{ MHz}; d_8-\text{thf};$ Me₄Si) 1.37 (2H, br. m, CH₂-B), 2.31 (6H, s, *p*-CH₃^{Mes}), 2.32 (12H, s, o-CH3^{Mes}), 2.76 (2H, m, P-CH2), 4.09 (2H, s, CH2Ph), 7.06 (5H, m, p-Ph + m-Mes), 7.17 (2H, m, m-Ph), 7.32 (2H, m, o-Ph), 7.86 ¹³⁰ (1H, dt, J_{PH} 492, J_{HH} 7.6, H-P); $\delta_{C\{H\}}$ (151 MHz; d₈-thf; Me₄Si) 18.7 (br., CH₂-B), 21.0 (*p*-CH₃^{Mes}), 21.8 (d, *J*_{PC} 6.9, *o*-CH₃^{Mes}), 23.2 (d, J_{PC} 37.6, P-CH₂), 65.6 (CH₂Ph), 114.8 (d, J_{PC} 76.3, *i*-Mes), 126.1 (p-Ph), 126.8 (o-Ph), 128.1 (m-Ph), 132.1 (d, J_{PC} 10.7, m-Mes), 137.3 (dm, J_{FC} 247, C₆F₅), 138.9 (dm, J_{FC} 235, p-C₆F₅), 144.1 (d, 135 J_{PC} 9.7, o-Mes), 145.70 (*i*-Ph), 145.73 (d, J_{PC} 2.7, p-Mes), 148.9 (dm, J_{FC} 238, C₆F₅); $\delta_{P\{H\}}$ (121 MHz; d₈-thf; H₃PO₄) -4.8 (v_{1/2} = 24 Hz); $\delta_P(121 \text{ MHz}; d_8\text{-thf}; H_3PO_4)$ -4.8 (d, J_{PH} 492); $\delta_F(282 \text{ MHz},$ d₈-thf, CFCl₃) -133.7 (4F, o-C₆F₅), -164.3 (2F, p-C₆F₅), -167.4 (4F, m-C₆F₅); $\delta_{B{H}}(96$ MHz; d₈-thf; BF₃OEt₂) -0.3 (v_{1/2} = 95 Hz). ¹⁴⁰ Crystal data for C₃₉H₃₄BF₁₀OP, M = 750.44, triclinic, space group *P*1bar (No. 2), 12.1089(8), b = 12.7662(10), c = 12.8752(8) Å, a =104.669(3), $\beta = 100.577(5)$, $\gamma = 100.279(3)^\circ$, V = 1839.0(2) Å³, D_c = 1.355 g cm⁻³, μ = 1.385 mm⁻¹, Z = 2, λ = 1.54178 Å, T = 223(2) K, 20114 reflections collected $(\pm h, \pm k, \pm l)$, $[(sin\theta)/\lambda] = 0.60 \text{ Å}^{-1}$, 145 6171 independent ($R_{int} = 0.078$) and 4081 observed reflections [$I \ge$

 $2\sigma(I)$], 479 refined parameters, R = 0.077, wR^2 = 0.227, CCDC 650366.

150 Reaction of 4 with Oxygen.

A solution of **4** in cyclohexane was left in a schlenk flask (which was leaky) connected *via* a condensation bridge with a schlenk flask filled with toluene for 4 weeks. White crystals could be obtained which were isolated and dried *in vacuo*.

¹⁵⁵ $\delta_{H}(300 \text{ MHz}; C_6D_6; Me_4Si)$ 1.85 (6H, s, *p*-CH₃^{Mes}), 2.09 (12H, s, *o*-CH₃^{Mes}), 2.42 (2H, m, CH₂), only one CH₂ signal can be observed, 6.39 (4H, d, *J_{PH}* 4.4, *m*-Mes); $\delta_{P_{\{H\}}}(121 \text{ MHz}; C_6D_6; H_3PO_4)$ 80.0 ($v_{1/2} = 3.8 \text{ Hz}$); $\delta_{P}(121 \text{ MHz}; C_6D_6; H_3PO_4)$ 80.0 (t, *J_{PH}* 20); $\delta_{F}(282 \text{ MHz}, C_6D_6, CFCl_3)$ -133.7 (4F), -159.3 (2F, *p*-C₆F₅), -164.4 (4F); ¹⁶⁰ $\delta_{B_{\{H\}}}(96 \text{ MHz}, C_6D_6, BF_3OEt_2)$ 4.5 ($v_{1/2} = 600 \text{ Hz}$).



(top and center) and 5 (bottom).

Theoretical Methods and Technical Details of the Computations

¹⁷⁵ The quantum chemical calculations have been performed with slightly modified versions of the TURBOMOLE suite of programs.^[1] As Gaussian AO basis, large triple-zeta (def2-TZVP) sets of Ahlrichs et al.^[2] have been employed. In standard notation these are [5s3p2d1f] for B, [5s5p2d1f] for P, [5s3p2d] for C and F and [3s1p] for H. For the hydrogen atoms of the added H we employ a larger [3s2p1d] basis in order to avoid basis set superposition error (BSSE). This basis set is abbreviated in ¹⁸⁰ the following as def2-TZVP'. In calculations on model compounds without the phenyl rings, this AO basis has been tested in comparison with a much larger QZVP set^[3] and small differences on the order of ±1 kcal mol for relative energies have been observed. All geometries have been fully optimized at the DFT level using the B97-D density functional^[4] that also includes an empirical correction for intramolecular dispersion (van der Waals) interactions[5, 4]. For a detailed description of this ¹⁸⁵ dispersion correction including many illustrative examples see Ref.^[6]. All energies are corrected by zero-point vibrational energies (ZPVE) employing unscaled harmonic frequencies as obtained from LDA/SV computations. The B97-D relative energies are checked by improved (spin-component scaled) Møller-Plesset perturbation theory (SCS-MP2) using the same AO basis set. In the SCS-MP2 treatments for the correlation energy (frozen-core approximation) and for the Coulomb integrals in the $_{190}$ DFT treatments, the RI-approximation has been used^[7].

References

- [1] Ahlrichs, R.; Bär, M.; Häser, M.; Horn, H.; Kölmel, C. *Chem. Phys. Lett.* 1989, 162, 165–169.TURBOMOLE, version 5.7: R. Ahlrichs et al., Universität Karlsruhe 2003. See http://www.turbomole.com.
- [2] Schäfer, A.; Huber, C.; Ahlrichs, R. J. Chem. Phys. **1994**, 100, 5829–5835. The basis sets are available from the TURBOMOLE homepage via the FTP Server Button (in the subdirectories basen, jbasen, and cbasen). See http://www.turbomole.com.
- [3] Weigend, F.; Furche, F.; Ahlrichs, R. J. Chem. Phys. 2003, 119, 12753-12762.
- [4] Grimme, S. J. Comput. Chem. 2006, 27, 1787-1799.
 - [5] Grimme, S. J. Comput. Chem. 2004, 25, 1463-1473.
 - [6] Grimme, S.; Antony, J.; Schwabe, T.; Mück-Lichtenfeld, C. Org. Biomol. Chem. 2007, 5, 741-758.
 - [7] Weigend, F.; Häser, M. *Theor. Chem. Acc.* 1997, 97, 331-340. Weigend, F.; Köhn, A.; Hättig, C. J. Chem. Phys. 2002, 116, 3175-3183. Eichkorn, K.; Treutler, O.; Öhm, H.; Häser, M.; Ahlrichs, R. *Chem. Phys. Lett.* 1995, 240, 283–289. Eichkorn, K.; Weigend, F.; Treutler, O.; Ahlrichs, R. *Theor. Chem. Acc.* 1997, 97, 119–124.

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Figure S1: Optimized Structures



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Table S1. Reaction Energies (in kcal/mol)

reaction		ΔE	$\Delta H(0 \text{ K})$
	B97-D	SCS-MP2	SCS-MP2
4→gauche-4'	6.8	11.3	10.9
4→trans-4'	7.0	10.4	9.7
gauche-4'+H gauche-5	-12.1	-10.3	-4.9
gauche-5→trans-5	0.3	-2.2	-2.3
gauche-5 \rightarrow ethene+PH(mes)+BH(CF)	32.1	33.1	27.8
$7 \rightarrow PH(mes)+BH(CF)$	31.6	30.9	28.7

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	4	gauche-4'	trans-4'	gauche-5	trans-5	7
P–B	2.214	3.261	3.996	3.171	4.119	1.990
P–C3	1.845	1.863	1.859	1.821	1.808	1.833
P–C4	1.842	1.855	1.865	1.800	1.818	1.830
PC1	1.842	1.880	1.906	1.823	1.811	
C1–C2	1.555	1.543	1.571	1.545	1.546	
B–C2	1.662	1.581	1.571	1.659	1.661	
B–C5	1.628	1.589	1.576	1.654	1.646	1.628
B–C6	1.627	1.583	1.588	1.641	1.663	1.635
P–H				1.393	1.399	1.399
В–Н				1.224	1.218	1.205
H–H				2.160	5.109	3.705
< PC1C2	96.2	108.5	111.8	110.7	109.3	
< BC2C1	103.4	115.5	102.7	114.2	108.3	
< H–P–C1/B				104.0	105.1	109.1
< H–B–C2/P				107.2	108.9	104.4
< PC1C2B	17.4	-60.2	131.5	-49.3	-145.4	
< C3–P–B–C5	21.6	40.5	5.3	12.0	70.0	56.9
<h–p–c3–c4< td=""><td></td><td></td><td></td><td>-114.8</td><td>-112.1</td><td>-107.3</td></h–p–c3–c4<>				-114.8	-112.1	-107.3
<h–b–c5–c6< td=""><td></td><td></td><td></td><td>116.1</td><td>118.7</td><td>-122.9</td></h–b–c5–c6<>				116.1	118.7	-122.9
< C3–P–C1–C2	88.3	-178.6	143.1	174.7	55.6	
< C5–B–C2–C1	-111.8	-31.7	97.4	-49.3	-171.8	

225 Table S2. Important Structural Parameters (Angstroem or degree)

Table S3. Dipole Moments

230			
	molecule	dipole moment [Debye]	
	4	7.0	
	gauche-4'	3.5	
	trans-4'	1.9	
	gauche-5	14.7	
	trans-5	17.6	
	B97-D/def2-7	CZVP'.	

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Discussion

In general we find good agreement between the reaction energies from DFT and wave function theory (SCS-MP2). The P-B bond is intrinsically strong (about 29 kcal/mol) but weakened in 4 by the 4-²⁴⁰ membered ring (as also indicated by the increase of R(P-B) by 22 pm). In the gas phase (and this very likely holds also for the condensed phase due to the higher dipole moment), 4 is more stable than the open forms 4' by 7-10 kcal mol depending on the method used. This value is the minimum effective reaction barrier for the hydrogen addition process. The gauche and trans conformers of 4' have almost the same energy and the reaction can therefore proceed from gauche-4' (where the P and B atoms are ²⁴⁵ spatially more close) and molecular hydrogen to the adduct gauche-5 which then yields the slightly more stable form trans-5 that is observed in the crystal. The actual hydrogen addition reaction is exothermic by about 5 kcal/mol. The products 5 have the expected electronic structure with strong charge separation (zwitter-ionic, i.e. -0.78 charge on the CHBHCF fragment for gauche-5) leading to large dipole moments between 14.7 and 17.6 Debye. The also considered fragmentation reaction ²⁵⁰ releasing ethene is very unfavourable (entry 5 in Table S1) and even close to thermoneutral when 7 is formed. Note, that some structures are significantly stabilized by intramolecular stacking interactions between the mesityl and the CF fragments (the B97-D computed benzene-CF complex dissociation energy is about 6 kcal/mol).

Cartesian Coordinates (in Bohr)

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4				
	0.18526918552200	2.56723976843407	-1.40122965554050	р
	-0.95577516692137	-1.40990878960997	-2.02291068172259	b
	-0.76472558457380	2.50413790053560	-4.74911264731790	с
260	-0.84826710958847	-0.42266268643172	-5.00254771884773	с
	-1.04230453588900	5.43321386949555	0.14448872407257	c
	-0.20448959991383	7.83524944220173	-0.72551865636576	c
	-1.18645457557537	10.01654797026878	0.38237360595240	c
	-2.97901115751714	9.92144370723601	2.32701434897594	с
265	-3.76162462993068	7.55330954790742	3.16256973870451	c
	-2.82889778854202	5.29905566726231	2.12338514204136	c
	3.62773494325652	2.48617222245631	-0.85692062775398	c
	5.51157010904883	2.35140659667658	-2.76657934757984	c
	8.00559854312767	1.80262902315294	-2.07034940513775	c
270	8.73701739802163	1.40120727513243	0.42783626532372	c
	6.89243034219743	1.66674984933095	2.28948794000946	c
	4.37229214823062	2.20021940262082	1.71187131783367	c
	-3.78188754578985	-2.32054037335943	-1.22798103715215	c
	-5.90217903340929	-0.74131615067361	-1.29160165315623	c
275	-8.35302715578364	-1.51911795992372	-0.71046083078521	c
	-8.79031096881549	-4.04585888836010	-0.10151718753503	c
	-6.76122089504954	-5.72923518183082	-0.08812003150887	c
	-4.33597268401611	-4.85115573576755	-0.65518746675026	c
	1.36883692223097	-2.91634495341896	-0.68635155332006	c
280	3.65163736013849	-3.56969098835903	-1.85681478717854	c
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	2.64876562814199	-8.06618832865319	5.33020302100402	h
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	-0.25057617995135	-12.30361008409802	-4.40847354525976	h
	-2.90456965261446	-11.51991953877352	-2.52293379492439	h
	-0.39065366003705	-13.28369145712985	-1.18450447596944	h
	2.41070310977430	-4.08930564572962	-6.70416679923904	h
535	1.23656880190230	-1.63987941544253	-4.74026393996979	h
	4.50096759313717	-2.43048753549179	-4.67713893588160	h
	6.82814402126013	5.53134539115758	0.00635845529902	h
	5.25881209036363	4.30697283464391	2.67973427505893	h
	4.15304763145946	3.57461591379934	-0.37536969492085	h
540	16.00516217358665	-0.51359709546798	-0.10286392378955	h
	15.22533331877590	2.76517005064591	-0.11405997030625	h
	15.51541400355691	1.11296488619970	2.78249503817416	h
	9.90549899823970	-6.78810458396671	0.55477949686602	h
	7.06886970772772	-6.18817722701905	-1.13203998345682	h
545	7.02275220858615	-6.34001106668833	2.18597355440725	h
	-1.34726448876235	-0.93900238529922	-1.16881807517367	h
	2.61763752673340	0.02477124867488	-1.25311313543715	h

550

tı	cans-5			
	-4.33079838594122	-2.78334377096158	-0.47581756752530	р
	2.95952704465916	-1.00100939549339	-2.53677959815801	b
	-4.11109932556386	-5.32321241555506	0.22657038226956	h
555	2.84510281240894	-0.94222799292003	-4.83473496535818	h
	-2.15118611188513	-3.36258444321408	-4.41634824951341	h
	-1.85053611224491	-0.25793959706066	-3.24272049279642	h
	1.16427011449089	-4.95208296352360	-1.86948890161573	h
	0.65562524796642	-2.77237686609326	0.59795617917244	h
560	-7.50757274893925	0.69770833811720	-7.24746199019344	h
	-5.21319563508730	-1.61306499879006	-6.49425179347358	h
	-5.27723051246619	1.27330374477291	-4.82943224235666	h
	-11.43933724993924	-0.26702588751292	-6.15874213122484	h
	-16.45709025057225	-3.77621167362206	-3.34881939124207	h
565	-15.77177662822672	-1.20398872872012	-5.40824330728700	h
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	-10 55741302175703	-5 42045785632448	3 54383226609792	h
	-7 80073784887165	-3 53066950639566	3 87574213377232	h
	-7 63781360348528	-6 46623858310587	2 28903473796538	h
570	-13 42978271354512	-4 08566587357913	0.69836934008055	h
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	-2 35246304409405	2 14990559746822	10 86068766912095	h
	-3 08448583732697	5 01069350736745	9 22750705984941	h
	-1 42002167728539	-1 79933832540963	8 34714316522130	h
575	-1 30871194556310	-5 58702093416399	6 45949659956467	h
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	-3 78643738059065	-6.25241175579295	4 30890085333114	h
	-5 36016011859774	5 04840357041970	0.65498023660438	h
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	-7.02387127882081	2.34207404014277	-0.43347433031013 -1.383186090680/11	h
580	4 01/30//14/30302	<i>1</i> 05128805707123	-1.36316007008041 1 70611288567538	h
	-1.780851138/580/	-2 25216987300104	-2 7073//0/0/1862	II C
	7 50274513035887	2.25210787500104	1 51350181865134	C
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	8 3077/236363338	1 3106678/311657	3 81300627508156	C
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	-0.4/102321//3013	1 17170700726060	-3.08837123037332	C
	-10.88380832728323	-1.1/1/9/99/20909 -1.1/1/9/99/20909	-4.39033632000130	C
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	-2.0/04408810/013	1./4470/4777/4U/ 2.0440557020(001	0.01213118//4009	C
	-2.00094/09203363	3.24483370526891	7.13334322937181	С

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685	4.98739130667458	-1.42454337579676	-2.90294436822896	h
	-0.03248700356151	-12 70004211149278	-3 68259684935284	h
	3 11351078829694	-12 11805981055225	-2 66708665365054	h
	2 35609843361838	-11 90346576444918	-5 91661332597343	h
	-5 46519227303927	-6 52965183856389	-0.80582291190456	h
	-1 26354638760031	-3.72967945950655	0.571022/11/0450	h
690	5 5 4 2 5 7 5 0 5 7 2 5 8 6 5	-3.72907943930033	0.57192240551540	n h
	-3.3433/303/33803	-3.0407004101009/	-2.31002043331134	11
т	$\mathbf{D}\mathbf{U}(\mathbf{m}_{\mathrm{OS}})$			
1	0.00100700550507	2 25074240776020	0 17561404000127	n
	-0.00170/7033030/	-3.337/4340//0039	-0.1/30148499813/	ր հ
695	-0.23780023/93/08	-4.00033/37224143	2.372320382301/1	11
	-2./4322040190232	-1.1//20392300190	-0.2/0382432003/0	C

	2 92422747620141	0 74766277506407	2 12199561502040	0
	-2.03433747039141	0.74700377300407 0.24211409756204	-2.13100301303040	C
	-4.95/9405/001100	2.34311490/30294	-2.23191393126040	C
	-0.99433100298333	2.08425774750280	-0.0143///1443130	C
700	-0.908/4/39832003	0.13/02209953024	1.10290807871300	C
	-4.83862851/66680	-1.50123612383795	1.304//803652640	c
	2.75734232044400	-1.219/2/52921461	0.266/4331/00952	c
	4.813382/55169/2	-1.4399651/886099	-1.43640011//55/0	c
	6.88821854160219	0.1/8669015285/1	-1.1831230985810/	c
705	7.00624008547731	2.01788349568785	0./100/313/99494	c
	4.98421779144321	2.18812401561379	2.39561599661290	c
	2.86547415786286	0.60860849356455	2.21833176207529	c
	-0.72317319248199	1.14142992062071	-4.01685398026817	c
	-9.25563338089467	3.81499601486349	-0.81438495585916	c
710	-4.93471991350141	-3.55391696790121	3.35109315097092	c
	4.85528683511991	-3.36642529640327	-3.55420531454967	c
	9.25278980755936	3.76665790725648	0.90921398121782	c
	0.78186383047764	0.92915626757870	4.14250853275869	c
	-4.96863388667033	3.82319899046133	-3.68434389943698	h
715	-8.50172801887917	-0.12394135890502	2.44180942162975	h
	8.45789781089027	-0.01057041649387	-2.50270959582376	h
	5.05261770151230	3.58648395906488	3.90556627283247	h
	-1.33524147064231	2.41166738729706	-5.53399349927032	h
	0.96242727164282	1.94889993240263	-3.12112228492322	h
720	-0.14362545053723	-0.65907111618124	-4.87392836180371	h
	-10.50408846189587	3.60518177494783	0.82611515991956	h
	-10.36662034642967	3.39227499087809	-2.51892476905239	h
	-8.66783689775684	5.80102712608012	-0.94064811421602	h
	-6.78081034491571	-3.56924759407223	4.28884427965537	h
725	-4.60873333447786	-5.43191751825651	2.53023347024960	h
	-3.47539083281116	-3.26788546143758	4.80215838237071	h
	6.65781253840953	-3.27787163646532	-4.57115280291665	h
	3.32544104033915	-3.02858085115505	-4.91419856496181	h
	4.59497295321361	-5.29392858025265	-2.83812228608341	h
730	9 21277021171412	4 83765959947725	2 68209891706924	h
,50	11 03395240970316	2 70571026515225	0 82233365654117	h
	9 27065137630923	5 12745674280011	-0 66074726989757	h
	1 37050599190651	2 23389219226129	5 63916535538398	h
	0.28190305787177	-0 88666034474736	5 01141841158915	h
725	-0.94722279059690	1 66207975576746	3 26696732712480	h
/33	0.9 1722279039090	1.00207975570710	5.20070752712100	
BH	$(C_{\epsilon}E_{\epsilon})_{\epsilon}$			
511	-0 00080899878435	-2 60526380109292	-0.00500853596712	h
	-0.00153541177486	-4 86265000023084	-0.00588827876682	h
740	2 61644468596188	-1 25377098309490	-0 10167728347746	C
/40	<i>4</i> 76727380067016	-2 45275021686236	0 01008057848630	C
	4 53127825272588	- <u>4</u> 69005565602616	2 10/05/05/06/05/0	C f
	7 1770800/817057	-1 202166861/2/77	0.8120/55827/017	I C
	0 17707002401/33/	-1.373100004434/2	1 84611258400281	C f
	7.50500707770705	-2.303000+3007240	0 20220170047000	1
745	1.30390101110183	0.93/40333321/00	-0.372201/774/099	C

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0.000000000000000

h

h

	9.80188238494306	1.97651124511653	-0.52031312227416	f
	5.43512916090014	2.18008101130957	-1.47201584724641	с
	5.78132700235144	4.39303670999603	-2.65683824963656	f
	3.04792673283968	1.08160704558523	-1.30111752357898	c
750	1.12857015669578	2.31491566610463	-2.42557828028764	f
	-2.61669986507925	-1.25148647583642	0.09434619422590	с
	-4.77001254980157	-2.45052845859286	-0.91360245048387	с
	-4.53766322412159	-4.68924884354331	-2.09520779468496	f
	-7.18032478737413	-1.39066068695295	-0.80882019572563	c
755	-9.17836327455937	-2.56160465116245	-1.83660091825089	f
	-7.50545803814346	0.93985261061326	0.39666751720411	c
	-9.80134759034066	1.97798219802665	0.53165258341280	f
	-5.43213301314942	2.18215138415255	1.47184830057288	c
	-5.77525285729153	4.39485690515006	2.65778295223071	f
760	-3.04509966665722	1.08457016370860	1.29316023622665	c
	-1.12340897312877	2.31750780569591	2.41413888296486	f
et	hene			
	1.25887246888114	0.000000000000000	0.000000000000000	c
765	-1.25887246888114	0.000000000000000	0.000000000000000	c
	2.33618465716233	1.75434910236273	0.000000000000000	h
	2.33618465716233	-1.75434910236273	0.0000000000000000	h

-2.33618465716233 -1.75434910236273

-2.33618465716233 1.75434910236273

770