Supporting Information

Understanding the Regioselectivity in Scholl Reactions for the Synthesis of Oligoarenes

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1) Synthetic details

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1) Synthetic details

Representative procedure

Representative procedure for the FeCl₃ mediated Scholl reaction (**8a**): Quinquephenyl **6a** (100 mg, 129 µmol, 1.0 eq) was dissolved in anhydrous CH_2Cl_2 (50 mL). While maintaining a constant flow of argon through the solution anhydrous FeCl₃ (167 mg, 1.03 mmol, 8 eq) dissolved in nitromethane (0.6 mL) was added drop wise. After 30 min methanol (20 mL) was added and the solution was stirred additional 5 minutes. After the solution was washed with water (2 x 20 mL) the organic layer was filtered through a short pad of silica gel (eluent: dichloromethane). Recrystallization of the crude product with dichloromethane/methanol afforded the product **8a** (71 mg, 96 µmol, 74%) as a yellowish solid. ¹H NMR (CDCl₃, 300 MHz): $\delta = 9.52$ (s, 1H), 8.84-8.76 (m, 3H), 8.71 (d, J = 7.9 Hz, 1H), 8.51 (s, 1H), 8.38 (s, 1H), 8.37 (s,

¹**H NMR** (CDCl₃, 300 MHz): $\delta = 9.52$ (s, 1H), 8.84-8.76 (m, 3H), 8.71 (d, J = 7.9 Hz, 1H), 8.51 (s, 1H), 8.38 (s, 1H), 8.37 (s, 1H), 8.27 (s, 1H), 7.92 (t, J = 7.9 Hz, 1H), 7.85 (t, J = 7.9 Hz, 1H), 4.26 (s, 3H), 2.89 (t, J = 7.8 Hz, 4H), 2.81 (t, J = 7.9 Hz, 4H), 1.90-1.70 (m, 8H), 1.64-1.38 (m, 24H), 1.03-0.94 (m, 12H). ¹³C NMR (CDCl₃, 75 MHz): $\delta = 156.4$, 140.4, 140.2, 139.6, 139.5, 130.5, 130.5, 129.3, 129.1, 128.8, 128.5, 128.2, 127.8, 127.8, 127.6, 126.3, 126.1, 125.2, 124.6, 124.3, 123.5, 123.3, 123.0, 121.0, 120.9, 120.7, 118.2, 118.0, 104.3, 56.3, 33.3, 33.2, 33.2, 32.0, 31.9, 31.5, 31.4, 31.2, 29.7, 29.6, 22.8, 14.2. IR: 2953, 2922, 2855, 1604, 1455, 1383, 1228, 801, 753 cm⁻¹. MS (APCI): m/z = 744 (M+H⁺, 100), 660 (72), 575 (23). HRMS (APCI): calculated for C₅₅H₆₇O (M + H⁺): m/z = 743.5186; found: m/z = 743.5183.

Synthesis of starting materials

2-[(Phenyl)ethinyl]-4,4,5,5-tetramethyl-1,3,2-dioxaborolane was prepared according to a procedure reported by Brown^[1] and purified by filtration over celites and recrystallization from pentane.

¹**H NMR** (CDCl₃, 300 MHz): δ = 7.54-7.51 (m, 2H), 7.39-7.28 (m, 3H), 1.32 (s, 12H). ¹³**C NMR** (CDCl₃, 75 MHz): δ = 132.5, 129.4, 128.3, 121.9, 84.4, 24.7.

The analytical data are in accordance with the literature, see H. C. Brown, N.G. Bhat, M. Srebnik, *Tetrahedron Lett.* **1988**, *29*, 2681.

Enyne metathesis

2-[4,5-Dihexyl(1,1'-biphenyl)-2-yl]-4,4,5,5-tetramethyl-1,3,2-dioxaborolane (2)

In a glass autoclave 7-tetradecyne (1.17 g, 6.00 mmol, 1.0 equiv) and Grubbs II catalyst(153 mg, 0.18 mmol, 3 mol%) were dissolved in 15 mL CH_2Cl_2 and reacted 5 h at 60 °C with ethene (7.5 bar). The solution was filtered through a short pad of silica gel (pentane/diethyl ether). The solvent was removed and the crude 1,3-diene was used without further purification in the Diels-Alder reaction.

Diels-Alder reaction: $CoBr_2(dppe)$ (370 mg, 0.60 mmol, 15 mol%), zinc dust (78 mg, 1.20 mmol, 30 mol%) and anhydrous zinc iodide (383 mg, 1.20 mmol, 30 mol%) were dissolved in 5 mL CH₂Cl₂. 2-[(Phenyl)ethinyl]-4,4,5,5-tetramethyl-1,3,2-dioxaborolan (912 mg, 4.00 mmol, 1.0 equiv) and the crude 1,3-diene (approx. 6.0 mmol, 1.5 equiv) were added subsequent. The mixture was stirred over night at room temperature followed by filtration through a short pad of silica gel (pentane/diethyl

ether). The solvent was removed and the residual dihydroaromatic intermediate was oxidized with DDQ (1.14 g, 5.00 mmol, 1.25 equiv) in toluene (20 mL) to give the corresponding aromatic product. After filtration through a short pad of deactivated silica gel (pentane/diethyl ether) the solvent was removed and the residue was purified by column chromatography (silica gel, eluent pentane/diethyl ether 15:1). The product **2** was isolated as yellowish oil (1.60 g, 3.57 mmol, 89%).

¹**H NMR** (CDCl₃, 300 MHz): $\delta = 7.50$ (s, 1H), 7.41-7.29 (m, 5H), 7.16 (s, 1H), 2.67-2.59 (m, 4H), 1.66-1.53 (m, 4H), 1.45-1.27 (m, 12H), 1.21 (s, 12H), 0.94-0.86 (m, 6H). ¹³**C NMR** (CDCl₃, 75 MHz): $\delta = 145.2$, 143.4, 142.8, 138.7, 135.7, 130.1, 129.2, 127.6, 126.4, 83.4, 32.8, 32.5, 31.8, 31.6, 31.2, 29.6, 29.4, 24.6, 22.7, 22.6, 14.1. **IR (cm⁻¹)**: 2656, 2928, 2858, 1602, 1545, 1486, 1466, 1397, 1341, 1309, 1270, 1142, 1077, 969, 859, 700. **MS (EI)**: m/z = 448 (M⁺, 100), 347(9), 333 (11), 308 (42), 277 (9), 202 (15), 191 (24), 181 (12), 101 (10), 83 (14). **HRMS (EI)**: calculated for C₃₀H₄₅BO₂: m/z = 448.3513; found: m/z = 448.3504.

Suzuki reactions

Arylboronic ester **2** (1.2 equiv per coupling), an aryl bromide (1.0 equiv), $Pd(OAc)_2$ (2.5-5 mol% per coupling), S-Phos (2-dicyclohexylphosphino-2',6'-dimethoxybiphenyl) (5-10 mol% per coupling), K_3PO_4 ·H₂O (3 equiv per coupling) were added to a sealed tube and shortly evacuated. Toluene and water (10:1) were added and after 3 min at room temperature the sealed tube was heated to 100 °C for 16 h-3 d. After filtration through a short pad of deactivated silica gel the solvent was removed and the residue was purified by column chromatography.

4',5',4''',5'''-Tetrahexyl-1,1':2',1'':4'',1''':2''',1''''-quinquephenyl (3): yield: 98%, yellowish oil, eluent: pentane/CH₂Cl₂ 10:1.

¹**H NMR** (CDCl₃, 300 MHz): δ = 7.24-7.16 (m, 10H), 7.15-7.09 (m, 4H), 6.97 (s, 4H), 2.66 (t, *J* = 7.9 Hz, 8H), 1.70-1.57 (m, 8H), 1.49-1.29 (m, 24H), 0.94-0.87 (m, 12H). ¹³**C NMR** (CDCl₃, 75 MHz): δ = 141.7, 139.9, 139.8, 139.5, 137.8, 137.6, 131.3, 131.2, 129.9, 129.4, 127.7, 126.1, 32.5, 31.8, 31.4, 31.4, 29.6, 29.6, 22.6, 14.1. **IR** (cm⁻¹): 3005, 2956, 2924, 2855, 1599, 1480, 1465, 1377, 892, 843, 769, 700, 589. **MS** (**EI**): m/z = 718 (M⁺, 2), 346 (98), 322 (66), 302 (19), 181 (100), 167 (13), 144 (11). **HRMS** (**EI**): calculated for C₅₄H₇₀: m/z = 718.5478; found: m/z = 718.5475.

4',5',4''',5'''-Tetrahexyl-2'',5''-dimethoxy-1,1':2',1'':4'',1''':2''',1''''-quinquephenyl (6a): yield: 97%, colorless oil, eluent: pentane/CH₂Cl₂ 4:1.

¹**H** NMR (CDCl₃, 300 MHz): δ = 7.25-7.20 (m, 6H), 7.20-7.13 (m, 8H), 6.56 (s, 2H), 3.13 (s, 6H), 2.70-2.62 (m, 8H), 1.65 (quin, *J* = 7.5 Hz, 8H), 1.49-1.29 (m, 24H), 0.95-0.87 (m, 12H). ¹³**C** NMR (CDCl₃, 75 MHz): δ = 150.1, 142.4, 140.0, 139.5, 138.7, 134.2, 131.6, 130.5, 129.9, 128.9, 127.4, 125.9, 115.2, 55.4, 32.6, 32.4, 31.8, 31.2, 31.2, 29.6, 29.6, 22.7, 14.1. **IR (cm**⁻¹): 3011, 2955, 2927, 2853, 1500, 1484, 1463, 1393, 1212, 1040, 896, 780, 756, 695. **HRMS (APCI)**: calculated for C₅₆H₇₅O₂ (M + H⁺): m/z = 779.5762; found: m/z = 779.5751.

2'',5''-Difluoro-4',5',4''',5'''-tetrahexyl-1,1':2',1'':4'',1''':2''',1''''-quinquephenyl (6b): yield: 98%, white solid, eluent: pentane/CH₂Cl₂ 20:1.

¹**H** NMR (CDCl₃, 300 MHz): δ = 7.25-7.20 (m, 8H), 7.16-7.11 (m, 6H), 6.71 (t, *J* = 8.0 Hz, 2H), 2.70-2.61 (m, 8H), 1.69-1.56 (m, 8H), 1.48-1.28 (m, 24H), 0.94-0.86 (m, 12H). ¹³**C** NMR (CDCl₃, 75 MHz): δ = 155.1 (dd, *J* = 244, 3 Hz), 141.3, 141.0, 139.7, 138.9, 131.5, 130.9, 130.6, 129.3 (dd, *J* = 18, 12 Hz), 129.1, 127.8, 126.5, 118.3 (dd, *J* = 18, 12 Hz), 32.6, 32.4, 31.8, 31.2, 29.6, 29.5, 22.6, 14.1. ¹⁹**F** NMR (CDCl₃, 282 MHz): δ = -122.0. IR (cm⁻¹): 2956, 2924, 2855, 1499, 1483, 1466, 1407, 1269, 1172, 1154, 884, 794, 771, 702. HRMS (APCI): calculated for C₅₄H₆₉F₂ (M + H⁺): m/z = 755.5362; found: m/z = 755.5355.

2,5-Dimethoxy-4',5'-dihexyl-1,1':2',1''-terphenyl (11):

yield: 99%, colorless oil, eluent: pentane/CH₂Cl₂ 3:1.

¹**H NMR** (CDCl₃, 300 MHz): δ = 7.26 (s, 1H), 7.22 (s, 1H), 7.19-7.13 (m, 5H), 6.80-6.72 (m, 2H), 6.62 (d, *J* = 8.8 Hz, 1H), 3.72 (s, 3H), 3.25 (s, 3H), 2.71-2.62 (m, 4H), 1.72-1.59 (m, 4H), 1.51-1.28 (m, 12H), 0.95-0.88 (m, 6H). ¹³**C NMR** (CDCl₃, 75 MHz): δ = 153.3, 150.7, 142.4, 140.0, 139.5, 138.8, 134.2, 131.8, 131.5, 130.4, 128.9, 127.4, 125.9, 117.5, 113.0, 111.9, 55.7, 55.5, 32.6, 32.4, 31.8, 31.2, 31.1, 29.6, 29.6, 22.6, 14.1. **IR** (cm⁻¹): 2954, 2928, 2857, 1603, 1586, 1498, 1485, 1464, 1417, 1273, 1220, 1178, 1049, 1028, 700. **MS** (**EI**): m/z = 458 (M⁺, 100), 317 (57), 287 (11), 215 (5), 143 (4). **HRMS** (**EI**): calculated for C₃₂H₄₂O₂: m/z = 458.3185; found: m/z = 458.3168.

Scholl reactions

2,3,12,13-Tetrahexyltribenzo[fg,ij,rst]pentaphene (4)

Quinquephenyl **3** (100 mg, 139 μ mol, 1.0 equiv) was dissolved in anhydrous CH₂Cl₂ (50 mL). While maintaining a constant flow of argon through the solution anhydrous FeCl₃ (271 mg, 1.67 mmol, 12 equiv) dissolved in MeNO₂ (1.0 mL) was added drop wise. After 1 h methanol (20 mL) was added and the solution was stirred additional 5 min. After the solution was washed with water (2x20 mL) the organic layer was filtered through a short pad of silica gel (eluent: CH₂Cl₂). Recrystallization of the crude product with CH₂Cl₂/methanol afforded the product **4** (94 mg, 132 μ mol, 95%) as a white solid.

¹**H NMR** (CDCl₃, 300 MHz): $\delta = 8.85$ (s, 2H), 8.81 (d, J = 7.9 Hz, 2H), 8.72 (d, J = 8.0 Hz, 2H), 8.39 (d, J = 9.3 Hz, 4H), 7.90 (t, J = 7.9 Hz, 2H), 2.87-2.76 (m, 8H), 1.85-1.71 (m, 8H), 1.60-1.38 (m, 24H), 1.03-0.94 (m, 12H). ¹³**C NMR** (CDCl₃, 75 MHz): $\delta = 140.5$, 140.4, 130.2, 129.9, 128.2, 127.9, 127.1, 126.1, 124.4, 123.6, 123.5, 123.2, 121.1, 121.0, 120.5, 33.2, 31.9, 31.5, 31.4, 29.7, 22.7, 14.2. **IR** (**cm**⁻¹): 2950, 2923, 2853, 1466, 1436, 1377, 874, 791, 751. **HRMS** (**APCI**): calculated for C₅₄H₆₅ (M + H⁺): m/z = 713.5081; found: m/z = 713.5071.

15-Methoxy-2,3,12,13-tetrahexyltribenzo-[fg,ij,rst]pentaphene (8a)

Method A (FeCl₃):Quinquephenyl **6a** (100 mg, 129 μ mol, 1.0 equiv) was dissolved in anhydrous CH₂Cl₂ (50 mL). While maintaining a constant flow of argon through the solution anhydrous FeCl₃ (167 mg, 1.03 mmol, 8 equiv) dissolved in MeNO₂ (0.6 mL) was added drop wise. After 30 min methanol (20 mL) was added and the solution was stirred additional 5 min. After the solution was washed with water (2x20 mL) the organic layer was filtered through a short pad of silica gel (eluent: CH₂Cl₂). Recrystallization of the crude product with CH₂Cl₂/methanol afforded the product **8a** (71 mg, 96 μ mol, 74%) as a yellowish solid.

Method B (DDQ/MeSO₃H): Quinquephenyl **6a** (116 mg, 150 μ mol, 1.0 equiv) was dissolved in anhydrous CH₂Cl₂ (45 mL). MeSO₃H (5 mL) and DDQ (103 mg, 450 μ mol, 3.0 equiv) were added sequentially at 0 °C. After 30 min the reaction was quenched with saturated NaHCO₃ (60 mL). After separation of the organic layer the aqueous phase was extracted with CH₂Cl₂ (20 mL). The combined organic layers were filtered through a short pad of silica gel (eluent: CH₂Cl₂). Recrystallization of the crude product with CH₂Cl₂/methanol afforded the product **8a** (85 mg, 114 μ mol, 76%) as a yellowish solid.

Method C (MoCl₅/TiCl₄): Quinquephenyl **6a** (58 mg, 75 μ mol, 1.0 equiv) was dissolved in anhydrous CH₂Cl₂ (25 mL). MoCl₅ (41 mg, 150 μ mol, 1 equiv) and TiCl₄ (17 μ L, 150 μ mol, 1 equiv) were added at 0 °C. After 30 min the reaction was quenched with saturated NaHCO₃ (20 mL). After separation of the organic layer the aqueous phase was extracted with CH₂Cl₂ (10 mL). The combined organic layers were filtered through a short pad of deactivated silica gel (eluent: CH₂Cl₂). Recrystallization of the crude product with CH₂Cl₂/methanol afforded the product **8a** (34 mg, 46 μ mol, 61%) as a yellowish solid.

¹**H** NMR (CDCl₃, 300 MHz): $\delta = 9.52$ (s, 1H), 8.84-8.76 (m, 3H), 8.71 (d, J = 7.9 Hz, 1H), 8.51 (s, 1H), 8.38 (s, 1H), 8.37 (s, 1H), 8.27 (s, 1H), 7.92 (t, J = 7.9 Hz, 1H), 7.85 (t, J = 7.9 Hz, 1H), 4.26 (s, 3H), 2.89 (t, J = 7.8 Hz, 4H), 2.81 (t, J = 7.9 Hz, 4H), 1.90-1.70 (m, 8H), 1.64-1.38 (m, 24H), 1.03-0.94 (m, 12H). ¹³C NMR (CDCl₃, 75 MHz): $\delta = 156.4$, 140.4, 140.2, 139.6, 139.5, 130.5, 129.3, 129.1, 128.8, 128.5, 128.2, 127.8, 127.8, 127.6, 126.3, 126.1, 125.2, 124.6, 124.3, 123.5, 123.3, 123.0, 121.0, 120.9, 120.9, 120.7, 118.2, 118.0, 104.3, 56.3, 33.3, 33.2, 33.2, 32.0, 31.9, 31.5, 31.4, 31.2, 29.7, 29.6, 22.8, 14.2. **IR (cm⁻¹)**: 2953, 2922, 2855, 1604, 1455, 1383, 1228, 801, 753. **MS (APCI)**: m/z = 744 (M+H⁺, 100), 660 (72), 575 (23). **HRMS (APCI)**: calculated for C₅₅H₆₇O (M + H⁺): m/z = 743.5186; found: m/z = 743.5183.

15-Fluoro-2,3,12,13-tetrahexyltribenzo[fg,ij,rst]pentaphene (8b)

Quinquephenyl **6b** (100 mg, 132 μ mol, 1.0 equiv) was dissolved in anhydrous CH₂Cl₂ (100 mL). While maintaining a constant flow of argon through the solution anhydrous FeCl₃ (344 mg, 1.03 mmol, 16 equiv) dissolved in MeNO₂ (1.2 mL) was added drop wise. After 2.5 h methanol (50 mL) was added and the solution was stirred additional 5 min. After the solution was washed with water (2x20 mL) the organic layer was filtered through a short pad of silica gel (eluent: CH₂Cl₂). Recrystallization of the crude product with CH₂Cl₂/hexane afforded the product **8b** (53 mg, 72.5 μ mol, 55%) as a white solid. Additionally 24 mg (31.8 μ mol, 24%) of the starting material (**6b**) were recovered.

¹**H** NMR (CDCl₃, 500 MHz): $\delta = 9.00$ (d, J = 3.6 Hz, 1H), 8.80 (d, J = 8.3 Hz, 1H), 8.77 (d, J = 8.0 Hz, 1H), 8.73 (d, J = 7.8 Hz, 1H), 8.66 (d, J = 8.1 Hz, 1H), 8.49 (d, J = 17.0 Hz, 1H), 8.44 (s, 1H), 8.33 (s, 1H), 8.24 (s, 1H), 7.91 (t, J = 7.8 Hz, 1H), 7.86 (t, J = 7.8 Hz, 1H), 2.90-2.84 (m, 4H), 2.84-2.78 (m, 4H), 1.85-1.73 (m, 8H), 1.60-1.50 (m, 8H), 1.49-1.38 (m, 16H), 1.00-0.95 (m, 12H). ¹³**C** NMR (CDCl₃, 125 MHz): $\delta = 159.5$ (d, J = 250 Hz), 140.9, 140.6 (d, J = 2 Hz), 140.5, 140.4, 130.3, 130.2, 129.2 (d, J = 23 Hz), 128.6, 128.3, 128.1, 128.1, 128.0, 127.1 (d, J = 3 Hz), 126.5, 126.1 (d, J = 8 Hz), 126.1 (d, J = 8 Hz), 125.8, 124.0 (d, J = 3 Hz), 123.7, 123.5, 123.3, 123.1, 121.1, 121.1, 121.0, 120.8, 119.7, 116.1 (d, J = 8 Hz), 33.3, 33.2, 33.2, 31.9, 31.4, 31.4, 31.3, 29.7, 29.7, 29.6, 22.8, 22.7, 14.2. ¹⁹F NMR (CDCl₃, 282 MHz): $\delta = -113.1$. IR (cm⁻¹): 2951, 2927, 2854, 1614, 1466, 1387, 851, 801, 754. HRMS (APCI): calculated for C₅₄H₆₄F (M + H⁺): m/z = 731.4987; found: m/z = 731.2978.

3,3'-Dimethoxy-6,6',7,7'-tetrahexyl-2,2'-bistriphenylene (14')

Method A (FeCl₃): Terphenyl **11** (115 mg, 250 μ mol, 1.0 equiv) was dissolved in anhydrous CH₂Cl₂ (50 mL). While maintaining a constant flow of argon through the solution anhydrous FeCl₃ (81 mg, 500 μ mol, 2 equiv) dissolved in MeNO₂ (0.3 mL) was added drop wise at 0 °C. After 15 min methanol (15 mL) was added and the solution was stirred additional 5 min. After the solution was washed with water (2x10 mL) the organic layer was filtered through a short pad of silica gel (eluent: CH₂Cl₂). The residue was purified by column chromatography (silica gel, eluent: pentane/CH₂Cl₂ 3:1). The product **14**' (54 mg, 63 μ mol, 51%) was isolated as a white solid. Additionally 21 mg (45 μ mol, 18%) of the starting material (**11**) and 8 mg (16 μ mol, 7%) of the monomeric cyclisation product **14** could be isolated.

Method B (DDQ/MeSO₃H): Terphenyl **11** (115 mg, 250 μ mol, 1.0 equiv) was dissolved in anhydrous CH₂Cl₂ (45 mL). MeSO₃H (5 mL) and DDQ (57 mg, 250 μ mol, 1.0 equiv) were added sequentially at 0 °C. After 15 min the reaction was quenched with saturated Na₂CO₃ (25 mL). After separation of the organic layer the aqueous phase was extracted with CH₂Cl₂ (20 mL). The combined organic layers were filtered through a short pad of deactivated silica gel (eluent: CH₂Cl₂). The residue was purified by column chromatography (silica gel, eluent: pentane/CH₂Cl₂ 3:1). The product **14'** (41 mg, 48 μ mol, 39%) was isolated as a white solid. Additionally 23 mg (50 μ mol, 20%) of the starting material (**11**) were recovered.

¹**H NMR** (CDCl₃, 300 MHz): $\delta = 8.67-8.63$ (m, 4H), 8.62-8.57 (m, 2H), 8.46 (s, 2H), 8.38 (s, 2H), 8.14 (s, 2H), 7.63-7.55 (m, 4H), 4.09 (s, 6H), 2.96-2.86 (m, 8H), 1.86-1.74 (m, 8H), 1.60-1.36 (m, 24H), 0.96 (t, *J* = 7.0 Hz, 12H). ¹³**C NMR** (CDCl₃, 75 MHz): $\delta = 157.1$, 140.3, 140.1, 130.8, 129.7, 129.0, 128.4, 128.2, 127.6, 126.7, 126.6, 126.0, 123.6, 123.4, 123.0, 103.7, 56.1, 33.3, 33.2, 31.9, 31.7, 31.5, 29.6, 29.5, 22.7, 22.7, 14.1. **IR** (cm⁻¹): 2953, 2924, 2853, 1613, 1497, 1465, 1401, 1235, 1202, 1052, 836, 758. **HRMS(APCI)**: calculated for C₆₂H₇₅O₂ (M + H⁺): m/z = 851.5762; found: m/z = 851.5738.

2) Further computational details

Computational Details

Quantum chemical computations have been carried out with the long-range corrected hybrid functional LC-wPBE^[1] which has been found to successfully locate all transition states in conjunction with the def2-SVP basis set.^[2] Improved energies were obtained with B3LYP^[3] in the implementation by *Frisch*^[4] in combination with the def2-TZVPP basis set.^[2] Standard convergence criteria and an ultrafine integration grid were used. The standard state for all thermodynamic data is 298.15 K and 1 atm. Stationary points have been characterized by calculation of the analytic hessian matrix. Intrinsic reaction coordinate calculations confirmed the nature of the transition states found. All computations were carried out with the program suite Gaussian09.^[5]

Cartesian coordinates and SCF-energies of all structures investigated can be found further down.

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Antara- and suprafacial pathway

As mentioned in the manuscript, in addition to the described pathway via an antarafacial arrangement of the rings (transition states discussed in the manuscript is given in Figure S1), a suprafacial arrangement is possible as well. A plot of the transition states **TSA-B1_H-supra** and **TSA-B2_H-supra** is shown in Figure S2. The energies of this pathway are included in Tables S1a-c and show that this pathway is always less favorable.



Figure S1. Optimized structures and central bond lengths in Å (LC- ω PBE/def2-SVP) for transition states **TSA-B1_H** (left) and **TSA-B2_H** (right).



Figure S2. Optimized structures and central bond lengths in Å (LC- ω PBE/def2-SVP) for transition states **TSA-B1_H-supra** (left) and **TSA-B2_H-supra** (right).

Methodological discussion

In our attempt to elucidate the reaction mechanism of the regioselective Scholl reaction, we employed several density functionals as stated in the manuscript. A full investigation of the reaction path from A_x to D1 and D2_x was possible with BP86/def2-TZVP but neither the crucial transition state TSA-B1_x nor the intermediate B1_x could be located as stationary point on the potential energy surface (PES). Instead, the optimization oscillated and forces and displacement stayed constant. In an attempt to investigate this behavior, we reoptimized the complete PES with the hybrid functional B3LYP and the same basis set since B3LYP is widely used for computational investigations of organic compounds and excellent agreement with higher level calculations for radical cation reactions was found^[6] although the robustness in comparison to other modern functionals has been found to be below average.^[7] Again, we found the same oscillations regarding the optimization of intermediates B1_x and transition state TSA-B1_x for X = H, F and OMe. Attempts with increased integration accuracy, tighter convergence criteria, larger basis set and other usual computational parameters tested in such cases have not been successful.

Only the reinvestigation of the complete PES with the recently developed long-range corrected hybrid functional LC- ω PBE lead to the successful identification of stationary points **B1**_x and **TSA-B1**_x for X = H, F and OMe.

The relative energies of the stationary points computed with B3LYP and LC- ω PBE with different basis sets can be found in Tables S1a-c and show, that the trend is the same for all methods.

The nearly converged structures of $TSA-B1_x$ which has been found for B3LYP/def2-SVP (Table S1c) is energetically lower lying than $TSA-B2_x$ for all substituents X. Although these energies cannot strictly be interpreted, since they do not correspond to well-converged stationary points on the PES, the trend is obvious and can be found in Tables S1a-c. This leads us to the conclusion that the results reported in the manuscript are not artefacts of an arbitrary choice of a specific functional and basis set combination.

Further tests with BP86, B97D, TPSS, M06-2X and def2-SVP basis set also could not locate a transition state. In preliminary tests with dispersion correction (PBE-D2) at least the intermediate $B1_{\rm H}$ could be located. A further methodological investigation is under way. A discussion of the method dependence of the PES in radical cation reactions can be found in Reference 7.

[6] U. Haberl, O. Wiest, E. Steckhan J. Am. Chem. Soc. 1999, 121, 6730.

[7] L. Goerigk, S. Grimme Phys. Chem. Chem. Phys., 2011, 13, 6670.

		н		F	(OMe
	antara	supra	antara	supra	antara	supra
D2	-]	165.9		-182.8	-1	81.7
B2 _x	17.2	22.0	20.6	24.1	20.7	32.5
TSA-B2 _x	22.1	29.8	25.5	32.2	24.8	35.1
Ax	0.	.0	0.	0	0.	0
TSA-B1 _X	19.3	27.0	20.6	26.9	18.7	24.3
B1 _X	17.3	21.3	16.4	19.8	18.0	18.0
C1 _X		12.3		12.0		5.3
D1 _x	-1	166.4		-167.6	-1	64.6

Table S1a. LC- ω PBE/def2-SVP energies relative to A_x (ΔE) for X = H, F, OMe in kcal mol⁻¹. Shown are pathways via supraand antarafacial arrangement of rings.

Table S1b. B3LYP/def2-TZVPP//LC- ω PBE/def2-SVP energies relative to A_x (ΔE) for X = H, F, OMe in kcal mol⁻¹. Shown are pathways via supra- and antarafacial arrangement of rings.

			Г	(Jivie
antara	supra	antara	supra	antara	supra
-1	53.2		-176.9	-1	75.4
31.8	36.6	33.2	35.6	35.0	43.8
30.2	27.3	33.4	39.5	33.5	43.3
0.0	0	0.	0	0	.0
29.5	35.8	30.8	35.5	28.2	31.9
32.6	34.0	32.2	34.1	32.2	30.5
1	3.0		14.1		7.9
-1	52.9		-153.7	-1	51.8
	antara -1 31.8 30.2 0.0 29.5 32.6 1 -1	antara supra -153.2 31.8 36.6 30.2 27.3 0.0 29.5 35.8 32.6 34.0 13.0 -152.9 -152.9	antara supra antara -153.2 -153.2 -153.2 31.8 36.6 33.2 30.2 27.3 33.4 0.0 0. 0. 29.5 35.8 30.8 32.6 34.0 32.2 13.0 -152.9	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	antarasupraantarasupraantara -153.2 -176.9 -176.9 -176.9 31.8 36.6 33.2 35.6 35.0 30.2 27.3 33.4 39.5 33.5 0.0 0.0 0.0 0 29.5 35.8 30.8 35.5 28.2 32.6 34.0 32.2 34.1 32.2 13.0 14.1 -152.9 -153.7 -1

Table S1c. B3LYP/def2-SVP energies relative to A_x (ΔE) for X = H, F, OMe in kcal mol⁻¹. Shown are pathways via supraand antarafacial arrangement of rings.

		Н		F	C	Me
	antara	supra	antara	supra	antara	supra
D2	-1	53.1		-168.3	-1	69.8
B2 _x	28.5	33.3	31.3	34.1	32.0	41.4
TSA-B2 _x	30.3	36.0	33.9	38.5	33.9	42.1
Ax	0.0	0	0.0)	0.	0
TSA-B1 _x	28.1[a]	34.3	28.9[a]	34.3	26.4[a]	30.4
B1 _x	-	31.0	-	30.9	-	27.4
$C1_{x}$	1	3.0		13.6	,	7.2
$D1_x$	-1	53.5		-154.3	-1	52.6

[a] Not fully converged structure. See text for discussion.

3) NMR spectra













¹³C NMR (75 MHz, CDCl₃)





¹³C NMR (125 MHz, CDCl₃)

4) Cartesian coordinates and SCF

energies of computed compounds

Table S2a. Cartesian coordinates and SCF energies (LC- ω PBE/def2-SVP) for compounds investigated with X = H.

	A		
62		1010 1055	
SCF-energy	=	-1310.4066	0 5682310
C	-4 0657819	-0.8874305	-0.3767974
č	-3.8387233	0.46552194	-0.233624
Н	-4.6834028	1.14405328	-0.153298
С	-2.5462668	1.03755214	-0.2361622
C	-1.4378811	0.16036101	-0.4080164
C	-1.6333909	-1.1751569	-0.5549/68
С	-0.7390073	3.06062773	-0.867088
č	-1.0916022	4.42531946	-0.9230618
C	-1.9453017	5.26618161	-0.176945
С	-2.9558866	4.69252356	0.59167384
Н	-3.5814822	5.34441912	1.20601144
C	-3.1796029	3.32076415	0.64904638
н	-0.6643821	4.99994021	-1.7028371
C	-2.345978	2.4740332	-0.1226091
C	-6.5008056	2.8569268	2.39363271
С	-6.1795309	1.91321651	3.36283037
H	-6.9425796	1.56325284	4.06142941
C	-4.8799866	1.42648293	3.44843462
C	-3.9074228	2 81522616	2.56409343
Н	-4.6179691	0.69925761	4.21996971
Н	-7.5178273	3.24986951	2.32710064
С	-5.5278879	3.3094083	1.51055859
Н	-5.785564	4.0490294	0.74815349
C	-1.7575304	6.75089619	-0.193/9/4
н	0.5/6/8/08	4.21205485	-2.2/52180
Н	-0.385741	5.68285018	-2.5280872
Н	-0.755698	7.0256937	0.16739427
Н	-2.4981219	7.25938568	0.43460366
Н	-1.8458701	7.14623591	-1.2163178
H	-3.2643691	-7.9670202	-0.85111
C	-4 4636007	-3 6784143	-0.8426278
č	-2.0471189	-4.0320356	-1.0110769
Н	-0.9982418	-7.0760596	-0.743111
H	-1.0293876	-3.6469787	-0.9741701
C	-4.6072241	-5.0401855	-1.1116943
C	-2.2050925	-5.3081483	-1.20010/9
c	-3.7568172	-7.3386871	-1.6077269
C	-1.0233473	-6.2635456	-1.4833339
Н	-0.0813275	-5.7075866	-1.405267
Н	-5.603025	-5.4774688	-1.1629235
H U	-3.325159	-7.6184228	-2.5799365
н	-4.8238505	-6 7333802	-2 4767503
C	-5.4270646	-1.441487	-0.3529141
С	-6.5380995	-0.6352187	-0.0711766
С	-5.6211744	-2.8121601	-0.5990277
Н	-6.411679	0.42169193	0.16279579
C	-7.8103872	-1.15/0032	-0.058/800
c	-8.0136961	-2.5108057	-0.3240054
Н	-8.6662034	-0.5095903	0.16384578
Н	-7.1094387	-4.3797398	-0.7723585
Н	-9.020217	-2.9334537	-0.3175495
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п	-2.0024482 D2	1.30408125	2.03084/33
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Н	2.2697542	3.07233843	1.70510845
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C	1.00231804	3.0000/214 2.89653222	-0.008/118
č	2.14813293	2.63023732	-2.0788694
Н	2.11415991	2.50417698	-3.1566852
С	3.38159839	2.51645902	-1.4428669
С	3.42687218	2.68003169	-0.0429306

C	7.09842199	2.19786257	0.66000243
U u	7.15666512	2.355/518/	2.02/45537
п С	5.9870981	2.62331248	2.73958036
Ĉ	4.79042663	2.72596734	2.06473636
C	4.709034	2.56844927	0.67026312
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n ~	8.02428384 5.88778063	2 29849245	0.12541088
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u u	-2./14491	3.3/8/02/0	-2.1115920
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2	5.75657644	1.79720528	-4.3133146
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Н	-1.9370543	3.21124062	4.86909287
H	-1.6679664	4.94526602	4.65702116
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C	1.04169682	3.21305561	-0.0240649
2	1.0850811	3.09846932	-1.451301
H	0.20745213	3.34995395	-2.0433755
H	2.22330403	2.74202144	-2.0800444
2	3.36974629	2.31327369	-1.332448
2	3.27659345	2.25573956	0.09382454
2	6.37920013	0.26359042	0.85388068
2	6.09082075	-0.2418858	2.10576766
	4 86221111	-0.8903148	2.00932170
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Ĉ	4.26250117	1.43315786	0.80988361
Н	4.60454147	-0.3959278	3.66784349
H	7.31743846	-0.020298	0.37770558
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2	2.30616211	3.47735504	2.09544758
n u	4.5/6/2521	4.36060457	4.39/99199
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C	5.70140397	1.51752331	-1.2039679
C	4.61686887	2.02555634	-1.9667522
	4.83508975	2.3153452	-3.3392508
	0.03033214	2.13902483	-3.1658362
H	4.01705526	2.70562694	-3.9438147
C	6.9404886	1.38135839	-1.8277566

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С	-0.1613857	3.68709811	2.07698998	С
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п	8.80303137	0.82262728	-4.1043141	п
п	8.47024185	0.82202728	-4.010310	п
н	9.23585065	1.16863334	-3.0503456	Č
Н	2.99242153	1.05640702	2.518/1949	С
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С	1.00842554	3.0756579	-0.0671519	С
Ċ	1.10743257	3.08620748	-1.4653338	Ĥ
н	0 24496983	3 34900031	-2 0755475	C
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C	1.95192935	2.00883482	4.91951521	н
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Н	3.99933474	2.08590643	4.88095334	Н
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Н	-0.0849103	3.2554311	4.71305414	Η
С	0.87092259	3.03597973	2.78751067	Η
С	5.81554683	1.74027856	-1.3351276	Н
С	4.68023894	2.08484564	-2.0766576	Н
Č	4 77820598	2.09643992	-3 4800132	н
ć	5 93909012	1 78445565	-4 155953	н
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U U	2.00600105	2 261917	4 0704005	c
 C	6.00502247	2.30101/	2 020000	c
U U	0.7737324/	1.4232/30/	-2.050808	U U
п С	1.092/0454	1.1319653	-1.4/39333	п
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С	-1.4042413	3.76466536	-0.1130436	С
Н	-1.3746399	3.78621489	-1.202277	Н
Н	-1.6144983	3.71951668	3.70404119	С
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11 11	-4.2//91/	3.43483332	2.30938226	п
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H	9 15993462	0.84366943	-3 3714443	č
н	8 73452403	1 9227105	-4 7163072	й
	B1	1.722/103		ч
~~	D4			11 17
62				п

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	1.36477528	3.02580762	0.75472644
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I	2.45931887	1.36114316	-1.5751448
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2	4.51723618	-1.3774058	-1.9613794
j I	3.61566178	-2.3924639	-1.6298159
1	2 66257962	-2 1839213	-0.5916389
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I	5.21373053	-1.5479466	-2.7839785
	4.52014564	-0.1556895	-1.312/553
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I	3.54697863	8.47184141	1.38303181
ł	1.4401279	8.89749902	2.65782966
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	5 4248862	0.93048742	-1 6619513
1	5.11908741	2.26334511	-1.2948998
2	6.02773826	3.28326823	-1.633151
2	7.20762494	3.04112737	-2.3069005
2	7.51621666	1.70653116	-2.6677498
I	5.79509879	4.31937635	-1.3839624
ī	6 808/1/18	0.09534204	-2.3422707
2	-2.2818121	3.83209237	2.86722942
2	-1.3089759	4.80074198	2.70909846
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2	0.10896038	3.30147555	1.47368238
	-0.8802449	2.32235406	1.6300107
1 I	-0.7404639	1.32/44998	1.20574477
2	-3.5472118	4.1326309	3.61405703
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2	-3.0911659	1.47273049	2.44730232
2	8.14196352	4.16247704	-2.6517957
; T	8.7928162	1.39286804	-3.3855947
ı I	-4.4298204	5 1652765	3 98320462
I	-3.6673068	3.46315801	4.47806751
I	-2.7704826	0.54507898	1.95756762
I	-4.0491274	1.77692068	2.00133726
Í ,	-3.288963	1.2466058	3.50508169
l T	7.75335323	5.12898817	-2.3082614
I	9 12960474	4.01370761	-2.1917545
I	9.66542752	1.70735089	-2.7949462
I	8.84700808	1.92856524	-4.3444642
I	8.88839261	0.31980644	-3.5893636
I	1.89338215	-0.8939911	0.90087392
1 I	3.93832811	0.2/10//05	0.433/149
2	2.1008856	5.3793428	1.14239172
2	2.35660964	4.0671706	0.5898526
2	3.56002216	3.78660796	-0.0872877
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62	BI		
CF-energy	=	-1310.379	
2	1.016738	3.177133	0.090091
2	1.080185	3.038229	-1.317279
I	0.153064	3.13467	-1.885158
2	2.238646	2.829463	-2.043996
1	2.177825	2.74013	-3.128575
1	3.466555	2.698657	0.104874
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2	6.112498	0.305596	2.221982
I	6.912204	-0.05771	2.869
	4.773347	0.367239	2.708596
, ,	3.08/659	0.851384	1.93983
Í	4.555559	0.017905	3.720211
I	7.438597	0.67998	0.583032
2	5.419633	1.17643	0.05743
2	1.128238	4.357184	4.156004
	2.334166	4.495472	4.800577
	3.332/13	4.190238 3.743655	4.138492
Í	4.49044	4.316562	4.646336
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0.218789

4.620511

4.693266

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Н	-1.532777	3.062026	-0.937065
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C C	3 95031	1 135348	2 878822
C	-3.95051	4.155540	2.070022
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С	-3.98636	3.434813	0.025805
С	6.26324	2.64369	-5.483227
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Н	-4.599147	3.248096	2.848351
Н	-3.830495	3.167118	-1.026445
Н	-4.550233	4.378345	0.055116
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u u	6 475520	1 756144	6.006623
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Н	5.376488	3.136495	-5.900012
Н	8.87786	2.19362	-4.356821
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н	9.075992	0 791326	-3 281956
u u	2 748005	0.871150	2 222014
11	2.740003	2.521409	2.323014
н	4.432814	3.521408	2.342307
Н	4.274574	3.39939	0.368581
Н	3.38767	0.556892	-0.094743
С	2.260717	3.583746	2.158099
С	2 21735	3 146822	0 790802
e	TSA-B2	0.11.0022	0.770002
(2)	13A-D2		
CCE		1210 2714	
SCF-energy	=	-1310.3714	
С	1.36523653	-0.2529206	0.24122363
С	0.46029614	-1.2666387	0.43838401
Н	0.81552919	-2.283035	0.6099645
H C	0.81552919	-2.283035	0.6099645
H C	0.81552919 -0.9630568	-2.283035 -1.0851018	0.6099645 0.42299418
H C H	0.81552919 -0.9630568 -1.4831728	-2.283035 -1.0851018 -1.721644	0.6099645 0.42299418 1.14863225
H C H C	0.81552919 -0.9630568 -1.4831728 -1.4510347	-2.283035 -1.0851018 -1.721644 0.28156182	0.6099645 0.42299418 1.14863225 0.32029782
H C H C C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623
H C H C C C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941
H C H C C C H	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553
H C H C C C H C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1 7989308	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571
H C H C C C C H C C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 1.080414	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 2.07232890	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 1.4001945
H C H C C C C H C C C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945
H C H C C C C H C C C C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431
H C H C C C C H C C C H C C C H C C C H C C C C H C C C H C C C C H C C C H C C C C H C C C C H C C C C H C C C C H C C C C C H C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468	$\begin{array}{c} 0.6099645\\ 0.42299418\\ 1.14863225\\ 0.32029782\\ -0.6082623\\ -0.8738941\\ -0.7688553\\ -1.2878571\\ -1.4091945\\ -1.0721431\\ -1.5432675 \end{array}$
H C H C C C C H H C C C H H H	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -1.7815349 -5.1862468 -2.983469	$\begin{array}{c} 0.6099645\\ 0.42299418\\ 1.14863225\\ 0.32029782\\ -0.6082623\\ -0.8738941\\ -0.7688553\\ -1.2878571\\ -1.4091945\\ -1.0721431\\ -1.5432675\\ -0.274249 \end{array}$
H C H C C C C H C C C H C C C H C C C C	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847
H C C C C C C C C H H C C C C C C C C C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646	$\begin{array}{c} 0.6099645\\ 0.42299418\\ 1.14863225\\ 0.32029782\\ -0.6082623\\ -0.8738941\\ -0.7688553\\ -1.2878571\\ -1.4091945\\ -1.0721431\\ -1.5432675\\ -0.274249\\ -0.7295847\\ -0.3515336\end{array}$
H C H C C C C C H C C C C H H C C C C C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3063383	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269
H C H C C C C C H C C C C H C C C C C C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 0.502545
H C H C C C C H H C C C C H H C C C C C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.214222
H C H C C C C C H H C C C C C H C C C C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268	$\begin{array}{c} 0.6099645\\ 0.42299418\\ 1.14863225\\ 0.32029782\\ -0.6082623\\ -0.8738941\\ -0.7688553\\ -1.2878571\\ -1.4091945\\ -1.0721431\\ -1.5432675\\ -0.274249\\ -0.7295847\\ -0.3515336\\ -0.5253269\\ -0.5061254\\ -0.3110432\end{array}$
H C H C C C C C H C C C C H C C C C H C C C C H C C C C C H C C C C C H C C C C C C C C H C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.33901228 2.16180298 2.16180298 2.16180298	$\begin{array}{r} -2.283035\\ -1.0851018\\ -1.721644\\ 0.28156182\\ -2.9833643\\ -4.2032487\\ -5.1357511\\ -4.2324299\\ -3.0723889\\ -1.7815349\\ -5.1862468\\ -2.983469\\ -1.7815349\\ -1.7812646\\ 3.02810805\\ 4.3062383\\ 4.54709595\\ 3.49655268\\ 5.55778944\end{array}$	$\begin{array}{c} 0.6099645\\ 0.42299418\\ 1.14863225\\ 0.32029782\\ -0.6082623\\ -0.8738941\\ -0.7688553\\ -1.2878571\\ -1.4091945\\ -1.0721431\\ -1.5432675\\ -0.274249\\ -0.7295847\\ -0.3515336\\ -0.5253269\\ -0.5061254\\ -0.3110432\\ -0.6458444\\ \end{array}$
H C H C C C C C H H C C C C C H C C C C	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29947366 1.27459945 4.23693448	$\begin{array}{r} -2.283035\\ -1.0851018\\ -1.721644\\ 0.28156182\\ -2.9833643\\ -4.2032487\\ -5.1357511\\ -4.2324299\\ -3.0723889\\ -1.7815349\\ -5.1862468\\ -2.983469\\ -1.7812646\\ 3.02810805\\ 4.3062383\\ 4.54709595\\ 3.49655268\\ 5.55778944\\ 5.13194549\end{array}$	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.5110432 -0.6458444 -0.6797421
H C H C C C C H H C C C C C H H H H H H	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.77459945 4.23693448 5.10073655	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268 5.55778944 2.87825605	$\begin{array}{c} 0.6099645\\ 0.42299418\\ 1.14863225\\ 0.32029782\\ -0.6082623\\ -0.8738941\\ -0.7688553\\ -1.2878571\\ -1.4091945\\ -1.0721431\\ -1.5432675\\ -0.274249\\ -0.7295847\\ -0.3515336\\ -0.5253269\\ -0.5061254\\ -0.3110432\\ -0.6458444\\ -0.6797421\\ -0.3739165\end{array}$
H C H C C C C C C C C C C C C C C C C C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 2.16180298 1.29987366 1.77459945 4.23693448 5.10073655	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605	$\begin{array}{c} 0.6099645\\ 0.42299418\\ 1.14863225\\ 0.32029782\\ -0.6082623\\ -0.8738941\\ -0.7688553\\ -1.2878571\\ -1.4091945\\ -1.0721431\\ -1.5432675\\ -0.274249\\ -0.7295847\\ -0.3515336\\ -0.5253269\\ -0.5061254\\ -0.3110432\\ -0.6458444\\ -0.6797421\\ -0.3739165\\ -0.1506183\\ \end{array}$
H C H C C C C C C C C C C C C C C C C C	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.77459945 4.23693448 5.10073655 3.16486927 -3.7134012	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1337511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.331119
H C H C C C C C H H C C C C C H H H C C C C C H C C C C H C C C C H C C C C C H C C C C C C H C	0.81552919 -0.9630568 -1.4831728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.77459945 3.16486927 -3.7134012 -3.7134012 -3.0239265 -3.023428 -3.02448	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268 5.55778944 2.37825605 1.33194549 2.87825605 1.93522018 -0.5004666	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.64584444 -0.6797421 -0.3739165 -0.1506183 -0.3331119
H C H C C C C C C H H C C C C C H C C C C H C C C C C H C C C C C C H C	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 2.16180298 1.29987366 1.77459945 4.23693448 5.10073655 -3.316486927 -3.7134012 -2.9038982 -2.003892	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 3.02810805 4.3062383 4.54709595 4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004666 0.50087744	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.3331119 0.23345725
H C H C C C C C H H C C C C C H H C C C C C C H C	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.77459945 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.4942222	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825005 1.93522018 0.50087744 1.68613963	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.3331119 0.23345725 0.66884207
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H C H C C C C C C H H C C C C C C H C C C C C C H C	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 2.16180298 2.16180298 5.16346927 -3.7134012 -2.9038982 -3.7134012 -2.9038982 -3.7134012 -2.9038982 -3.7134012 -2.9038982 -3.7134012 -2.9038982 -3.7134012 -2.9038982 -3.7134012 -2.9038982 -3.7134012 -2.9038982 -3.7134012 -2.9038982 -3.714012 -3.71401	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 3.02810805 4.3062383 4.54709595 4.3062383 4.54709595 1.93522018 -0.5004666 0.50087744 1.68613963 1.92184924 0.93465201	$\begin{array}{c} 0.6099645\\ 0.42299418\\ 1.14863225\\ 0.32029782\\ -0.6082623\\ -0.8738941\\ -0.7688553\\ -1.2878571\\ -1.4091945\\ -1.0721431\\ -1.5432675\\ -0.274249\\ -0.7295847\\ -0.3515336\\ -0.5253269\\ -0.5061254\\ -0.3110432\\ -0.6458444\\ -0.6797421\\ -0.3739165\\ -0.1506183\\ -0.3331119\\ 0.23345725\\ 0.66884207\\ 0.54691896\\ -0.0493648\\ \end{array}$
Н С Н С С С С С Н Н С С С С С С С С Н Н Н Н С	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.77459945 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -5.6660001 -2.8734566	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 0.5004666 0.50087744 1.68613963 1.92184924 0.93465201 2.44589231	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.273249 -0.273249 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.333119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553
Н С Н С С С С С Н Н Н С С С С С С С Н Н Н С	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.77459945 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -5.6660001 -2.8734566 -5.0780942	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.50087744 1.68613963 1.92184924 0.93465201 2.44589231 2.44589231	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.5110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.473497
Н С Н С С С С Н Н С С С С С С С С Н С Н	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 2.16180298 1.29987366 1.27945945 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -5.6660001 -2.8734566 -5.0780942 -5.7083942	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 -4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825005 1.93522018 -0.5004666 0.50087744 1.68613963 1.92184924 0.93465201 2.44589231 -0.2529803 -0.2529803	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.546618966 -0.0493648 1.15008553 -0.4723497
Н С Н С С С С Н Н С С С С С С Н Н Н Н С С С С С С Н С Н С Н С	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.77459945 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -5.6660001 -2.8734566 -5.0780942 -5.7083085	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 -4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 0.5004666 0.50087744 1.68613963 1.92184924 0.93465201 2.44589231 -0.2529803 -1.0063181	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.273249 -0.273249 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.333119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504451
Н С Н С С С С Н Н С С С С С С Н Н Н С С С С С С С Н С	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.77459945 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -5.6660001 -2.8734566 5.0780942 -5.7083085 5.59514263	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268 1.93522018 -0.50087764 1.68613963 1.92184924 0.93465201 2.44589231 2.44589231 -0.2529803 -1.0063181 -0.9358113	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.423497
Н С Н С С С С Н Н С С С С С С С Н Н Н Н	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.324604 4.8180641 -3.107484 4.02309265 3.33901228 2.16180298 2.16180298 2.16180298 5.16073655 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -5.6660001 -2.8734566 -5.0780942 -5.7083085 5.59514263 5.0710934	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 -4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 0.5004666 0.50087744 1.68613963 1.92184924 0.93465201 2.44589231 -0.2529803 -1.00631811 0.31332882	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476
Н С Н С С С С Н Н С С С С С С Н Н Н Н С С С С С С С Н С Н С	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.77459945 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -3.6660001 -2.8734566 -5.0780942 -5.7083085 5.59514263 5.0710934 3.69213095	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 -4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004666 0.50087744 1.68613963 1.92184924 0.93465201 2.44589231 -0.2529803 -1.0063181 -0.9538113 0.31332882 0.57734659	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.274249 -0.2732847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.15061833 -0.331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.03256167
Н С Н С С С С Н Н С С С С С С Н Н Н С	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.279459945 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -5.6660001 -2.8734566 5.0780942 -5.7083085 5.59514263 5.0710934 3.69213095 2.81408172	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004666 0.50087744 1.68613963 1.92184924 0.30046501 2.44589231 -0.2529803 -1.0063181 -0.9538113 0.3132282 0.57734659 -0.4971256	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.23256167 0.21979214
Н С Н С С С С Н Н С С С С С С С Н Н Н Н	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 4.8180641 -3.107484 4.02309265 3.33901228 2.16180298 2.16180298 2.16180298 2.3693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.7459052 -3.7134012 -2.9038982 -3.745062 -5.6660001 -2.8734566 -5.0780942 -5.7083085 5.0710934 3.69213095 2.81408172 3.34911773	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 3.02810805 -4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004666 0.50087744 1.88613963 1.92184924 0.93465201 2.44589231 -0.2529803 -1.0063181 0.93538113 0.31332882 0.57734659 -0.4971256 -0.4971256	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.03256167 0.21979214 0.38325053
Н С Н С С С С Н Н С С С С С С Н Н Н Н С С С С С С С Н С Н С С С С С С Н Н Н Н С С С С С С С Н С Н С С С С С С Н	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.398308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.77459945 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -5.6660001 -2.8734566 -5.0780942 -5.7083085 5.59514263 5.0710934 3.69213095 2.81408172 3.34911773 3.494173 3.494173	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 -4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004666 0.50087744 1.68613963 1.92184924 0.93465201 2.44589231 -0.2529803 -1.0063181 -0.9538113 0.31332882 0.57734659 -0.4971256 -1.7836134 -2.6382467	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.274249 -0.2732847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.8690044 0.02217476 0.03256167 0.21979214 0.332302
Н С Н С С С С Н Н С С С С С С Н Н Н С С С С С С С С Н Н Н С	0.81552919 -0.9630568 -1.481728 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.279459945 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -5.6660001 -2.8734566 5.0770934 -5.0780942 -5.7083085 5.59514263 5.0710934 3.69213095 2.81408172 3.34911773 2.88773677 -3.7732677	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004766 0.50087744 1.68613963 1.92184924 0.930465201 2.44589231 -0.2529803 -1.0063181 -0.9538113 0.3132282 0.57734659 -0.4971256 -1.7836134 -2.6383467	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6488444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.23256167 0.21979214 0.38325053 0.5293339 0.106521
Н С Н С С С С Н Н С С С С С С С Н Н Н С С С С С С С С Н Н Н С С С С С С С И Н Н Н С С С С	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 4.8180641 -3.107484 4.02309265 3.33901228 2.16180298 2.16180298 2.16180298 2.3693448 5.10073655 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -5.6660001 -2.8734566 -5.0780942 -5.7083085 5.59514263 5.0710934 3.69213095 2.81408172 3.34911773 2.68773677 5.77755888	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 -4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004666 0.50087744 1.68613963 1.92184924 0.93465201 2.44589231 -0.2529803 -1.0063181 0.9358113 0.31332882 0.57734659 -0.4971256 -1.7836134 -2.6383467 1.3023284	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.03256167 0.21979214 0.38325053 0.5293339 -0.1194591
Н С Н С С С С Н Н С С С С С С Н Н Н Н С С С С С С С Н Н С С С С С С Н Н Н Н С С С С С С С Н Н Н Н С	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.77459945 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -5.6660001 -2.8734566 -5.0780942 -5.7083085 5.59514263 5.0710934 3.69213095 2.81408172 3.34911773 3.69213095 2.81408172 3.34911773 3.69213095 2.81408172 3.74911773 -2.68773677 5.77755888 7.07812647	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 -4.3062383 4.54709595 1.93522018 -0.5004566 0.50087744 1.68613963 1.92184924 0.93465201 2.44589231 -0.2529803 -1.0063181 -0.9538113 -0.2529803 -1.0063181 -0.9538113 -0.2529803 -1.0063181 -0.9538113 -0.2529803 -1.0063181 -0.9538113 -0.2529803 -1.0063181 -0.9538113 -0.2529803 -1.0063181 -0.9538113 -0.2529803 -1.0734659 -0.4971256 -1.7836134 -1.13023284 -1.17071764	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.274249 -0.273249 -0.25253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.03256167 0.21979214 0.38325033 -0.293339 -0.1194591 0.16942333
Н С Н С С С С Н Н С С С С С С Н Н Н С С С С С С С С Н Н Н С С С С С С С Н Н Н С С С С С С С И Н Н С С С С	0.81552919 -0.9630568 -1.481728 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.29987366 3.16480927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -5.6660001 -2.8734566 -5.0780942 -5.7083085 5.59514263 5.0710934 2.8734576 2.8713457 2.7755888 7.07812647 4.70705825	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004764 0.50047744 1.68613963 1.92184924 0.93045201 2.44589231 -0.2529803 -1.0063181 0.9538113 0.31332882 0.4971256 -1.7836134 -2.6383467 1.13023284 -1.171764 -2.0364212	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.02256167 0.21979214 0.38325053 0.5293339 -0.1194591 0.16942333 0.37258558
Н С Н С С С С Н Н С С С С С С Н С Н С С С С С С Н Н Н С С С С С С С Н Н Н С С С С С С С С С С С С С С С И Н Н С С С С	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.324604 4.8180641 -3.107484 4.02309265 3.33901228 2.16180298 2.16180298 2.16180298 2.3693448 5.10073655 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -5.6660001 -2.8734566 5.0710934 3.69213095 2.81408172 3.34911773 2.68773677 5.77755888 7.07812647 4.70705825 5.22935088	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 3.02810805 -4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004666 0.50087744 1.68613963 1.92184924 0.93465201 2.44589231 -0.2529803 -1.0063181 0.31332882 0.57734659 -0.4971256 -0.4971256 -0.4971256 -0.4971256 -1.7836134 -2.6383467 1.13023284 -1.1771764 -2.0364212 -3.4302685	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.3225053 0.5293339 -0.1194591 0.6942333 0.3728558 0.57619129
Н С Н С С С С Н Н С С С С С С Н Н Н Н С С С С С С С Н Н Н С С С С С С С Н Н Н С С С С С С С Н Н Н С С С С С С С С Н Н Н С	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7389308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 2.16180298 1.29987366 1.27459945 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -3.745945 5.59514263 5.59514263 5.0710934 3.69213095 2.81408172 3.34911773 3.34911773 2.88773677 5.77755888 7.07812647 4.70705825 5.22935088	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 -4.3062383 4.54709595 1.93522018 -0.5004666 0.50087744 1.68613963 1.92184924 0.934652018 -0.2529803 -1.0063181 -0.9538113 -0.2529803 -1.0063181 -0.9538113 -0.2529803 -1.0063181 -0.9538113 -0.2529803 -1.0063181 -0.9538113 -0.2529803 -1.0063181 -0.9538113 -0.2529803 -1.0063181 -0.9538113 -0.2529803 -1.0063181 -0.9538113 -2.6383467 -1.13023284 -1.1771764 -2.0364212 -3.4302685	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.310432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.03256167 0.21979214 0.38325053 -0.293339 -0.1194591 0.16942333 0.37258558 0.55619129 1.04001246
Н С Н С С С С Н Н С С С С С С Н С Н С С С С С С Н Н Н С С С С С С С С Н Н Н С	0.81552919 -0.9630568 -1.481728 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 1.77459945 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -5.6660001 -2.8734566 -5.0780942 -5.7083085 5.59514263 5.0710934 5.59514263 5.0710934 2.81408172 3.34911773 2.68773677 5.77755888 7.07812647 4.70705825 5.29235088 -5.4574746 -5.4574746 -7.1385011	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004764 0.50087744 1.68613963 1.92184924 0.930465201 2.44589231 -0.250803 -1.0063181 0.9538113 0.31332882 -0.4971256 -1.7836134 -2.6383467 1.13023284 -1.1771764 -2.0364212 -3.43026855 3.20568051	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.03256167 0.21979214 0.38325053 0.5293339 -0.1194591 0.16942333 0.37258558 0.55619129 1.04001246 -0.2248318
Н С Н С С С С Н Н С С С С С С Н С Н С С С С С С Н Н Н С С С С С С С Н Н Н С С С С С С С Н Н Н С С С С С С С Н Н Н С С С С С С С Н Н Н С С С С С С С Н Н Н С С С С С С С Н Н Н С С С С С С С Н Н Н С С С С С С С И Н Н С С С С	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.324604 4.8180641 -3.107484 4.02309265 3.33901228 2.16180298 2.16180298 2.16180298 2.16180298 2.3693448 5.10073655 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -5.6660001 -2.8734566 5.0710934 3.69213095 2.81408172 3.34911773 2.68773677 5.77755888 7.07812647 5.72755888 7.07812647 5.22935088 -5.4574746 -7.1385911	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 3.02810805 -4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004666 0.50087744 1.68613963 1.92184924 0.93465201 2.44589231 -0.2529803 -1.0063181 0.31332882 0.57734659 -0.4971256 -0.4971256 -0.4971256 -0.4971256 -0.4971256 -0.4971256 -0.4971256 -0.4971256 -0.4971256 -0.4971256 -0.4971256 -0.4971256 -1.7836134 -2.6383467 1.13023284 -1.1771744 -2.0364212 -3.4302685 3.20568051 1.15624522	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.3225053 0.5293339 -0.1194591 0.6942333 0.3728558 0.5248318 -0.5248318 -0.2248318 -0.2248318
Н С Н С С С С Н Н С С С С С С Н Н Н Н С С С С С С С Н Н С С С С С С Н Н Н С С С С С С С Н Н Н С С С С С С Н Н Н С С С С С С Н Н Н С С С С С С Н Н Н С С С С С С Н Н И С С С С	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 2.16180298 2.16180298 2.3693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -3.74566 -5.0780942 -5.7660001 -2.8734566 -5.0780942 -5.7083085 5.59514263 5.0710934 3.69213095 2.81408172 3.34911773 3.34911773 3.4911773 5.77755888 7.07812647 4.70705825 5.2293508 7.62404918 -5.4574746 -5.457476 -5.457476 -5.457476 -5.457476	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 -4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004666 0.50087744 1.68613963 1.92184924 0.93465201 2.44589231 -0.2529803 -1.0063181 -0.938113 -0.938113 -0.938113 -0.3332882 0.57734659 -0.4971256 -1.7836134 -2.6383467 1.13023284 -1.1771764 -2.6383467 1.13023284 -1.1771764 -2.0364212 -3.43026851 1.15624522 -1.6182707	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.310432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.03256167 0.21979214 0.38325053 0.5293339 -0.1194591 0.16942333 0.37258558 0.55619129 1.04001246 -0.2248318 1.1152407
Н С Н С С С С Н Н С С С С С Н Н Н С С С С С С С С Н Н Н С С С С С С Н Н Н С С С С С С Н Н Н С С С С С С Н Н Н Н Н С С С С С С С И Н Н Н Н	0.81552919 -0.9630568 -1.481728 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 -4.8180641 -3.107484 4.02309265 3.53901228 2.16180298 1.29987366 3.16480927 -3.7134012 -2.9038982 -3.494222 -4.8590622 -5.6660001 -2.8734566 -5.0780942 -5.7083085 5.59514263 5.0710934 -5.7785888 -0.7185911 7.07812647 4.70705825 5.2935088 -5.474746 -7.1385911 7.42464918 7.62403027 	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004764 0.50087744 1.68613963 1.92184924 0.930465201 2.44589231 -0.2509803 -1.0063181 0.9538113 0.31332882 0.4971256 -1.7836134 -2.6383467 1.13023284 -1.1771764 -2.0364212 -3.4302685 3.20568051 1.15624522 -1.6182707 -0.2385542	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.02256167 0.21979214 0.38325053 0.5293339 -0.1194591 0.16942333 0.37258558 0.55619129 1.04001246 -0.2248318 1.1152407 0.01520241
Н С Н С С С С Н Н С С С С С С Н С Н С С С С С С Н Н Н Н С С С С С С С С Н Н Н Н С С С С С С С С С И Н Н Н Н	0.81552919 -0.9630568 -1.481728 -1.4510347 -3.778816 -3.1482373 -3.705854 -1.7989308 -1.089414 -1.6778836 -1.3324604 4.8180641 -3.107484 4.02309265 3.33901228 2.16180298 2.16180298 2.16180298 2.33901228 2.36893448 5.10073655 4.23693448 5.10073655 3.16486927 -3.7134012 -2.9038982 -3.494222 -5.6660001 -2.8734566 5.0710934 3.69213095 2.81408172 3.34911773 2.68773677 5.77755888 7.07812647 4.70705825 5.22935088 -5.4574746 -7.1385911 7.42464918 7.42464918	-2.283035 -1.0851018 -1.721644 0.28156182 -2.9833643 -4.2032487 -5.1357511 -4.2324299 -3.0723889 -1.7815349 -5.1862468 -2.983469 -1.7812646 3.02810805 -4.3062383 4.54709595 3.49655268 5.55778944 5.13194549 2.87825605 1.93522018 -0.5004666 0.50087744 1.68613963 1.92184924 0.93465201 2.44589231 -0.2529803 -1.0063181 0.31332882 0.57734659 -0.4971256 -0.498542 -1.780124 -1.1802085 -1.5624522 -1.6182707 -0.2385542 -1.8718002	0.6099645 0.42299418 1.14863225 0.32029782 -0.6082623 -0.8738941 -0.7688553 -1.2878571 -1.4091945 -1.0721431 -1.5432675 -0.274249 -0.7295847 -0.3515336 -0.5253269 -0.5061254 -0.3110432 -0.6458444 -0.6797421 -0.3739165 -0.1506183 -0.3331119 0.23345725 0.66884207 0.54691896 -0.0493648 1.15008553 -0.4723497 -0.9504851 0.18690044 0.02217476 0.03256167 0.21979214 0.3822553 0.5293339 -0.1194591 0.16942333 0.5728558 0.55619129 1.04001246 -0.2248318 1.1152407 0.01520241 -0.6328203

TT	E 00275502	2 4059005	1 42742052
	5.005/3305	-3.4938903	1.43743833
	3.82770323	-5.7461054	-0.3099219
H	-4.696849	3.86126264	1.48115325
H	-6.2258481	3.01836919	1.80398575
H	-5.9466158	3.75582997	0.22307166
Н	-7.3354799	2.04629804	-0.8398172
Н	-7.632399	1.32141149	0.74377043
H	-7.6204766	0.29796189	-0.708269
Н	-0.0618664	-3.0898736	-1.7800511
Н	0.23206834	3.7074726	-0.3037702
Н	-0.9367096	2.29336692	-0.0229074
С	1.77089572	2.17620739	-0.1283591
С	0.85329654	1.07631991	0.08292886
С	-0.5480846	1.29004839	0.1322536
н	-1.3818044	-0.989168	-1.7726807
	TSA-B1		
62			
SCF-energy	=	-1310.3758	
с	1 034458	3 207919	0.067907
c	1.080731	3.000015	-1 321695
ч	0.146070	3.007656	1 88/068
C	0.140979	2 800651	-1.884908
	2.255770	2.600031	2 119762
п	2.203521	2.030787	-5.116/05
C	3.462279	2.737215	-1.38138
	3.478004	2.862199	0.068871
C	6.336686	0.88/189	0.93/3/3
C	6.045387	0.591447	2.276589
Н	6.858395	0.380593	2.973739
С	4.708774	0.555805	2.720509
С	3.684119	0.837153	1.860307
С	3.930534	1.186033	0.46391
H	4.487161	0.280326	3.753648
Н	7.379804	0.93035	0.618795
С	5.338275	1.138535	0.020005
С	1.143972	4.301168	4.173069
С	2.349006	4.439178	4.824915
С	3.549379	4.188454	4.151324
С	3.513802	3.800564	2.834504
н	4.505724	4.310832	4.662884
Н	2.36469	4.755526	5.870094
н	0.230194	4 516222	4 72419
C	1.075901	3 905597	2 825929
C C	5 61865	1 523257	-1 371825
c	4 704458	2 345807	-2 055272
C C	4 078/31	2.345007	3 365874
C C	6 122564	2.755554	4 027022
C C	7 02990	2.334633	-4.027023
	7.03889	1.491158	-3.355300
H C	4.281385	3.400034	-3.882011
C	6.762224	1.102944	-2.047887
H ~	7.457376	0.424797	-1.548218
C	-2.649427	3.842802	2.15343
C	-1.43144	3.95868	2.790042
С	-0.204008	3.764922	2.131829
С	-0.227684	3.436012	0.768506
С	-1.471635	3.318246	0.124068
Н	-1.518745	3.051932	-0.932377
Н	-1.44215	4.20918	3.850313
С	-3.929542	4.060203	2.904001
С	-2.670793	3.512215	0.777214
С	-3.973266	3.371922	0.047117
С	6.404412	2.787699	-5.430777
С	8.283777	1.011883	-4.039425
Н	-4.513228	4.881659	2.463909
н	-3.741497	4.305935	3.95618
н	-4.56548	3.163623	2.874069
н	-3.81852	3,110986	-1.007004
н	-4.550589	4.307096	0.082728
н	-4 601196	2 591345	0 50043
н	6 4909	1 931099	-6 11/187
н ц	7 251051	2 2/2604	5 /0222
и и	1.331031	2 420209	-3.49323
	3.005404	3.439308	-3.604/92
	0.91/504	1.85/184	-4.3444/3
	8.042434	0.448185	-4.952199
п	8.877885	0.361134	-3.386722
Н	2.648482	0.766514	2.199004
н	4.460726	3.62758	2.323689
Н	4.36705	3.383009	0.433807
Н	3.238135	0.654383	-0.204747
С	2.288978	3.647636	2.143596
С	2.253042	3.250286	0.758934

Table S2b. Cartesian coordinates and SCF energies (LC- ω PBE/def2-SVP) for compounds investigated with X = F.

62			
SCF-energy	=	-1409.5096	
С	-2.9379334	-1.7639663	-0.5483432
С	-4.0569426	-0.8784767	-0.3891562

С	-3 8154029	0 47098508	-0 2351474
н	-4 6523857	1 16089974	-0 1745905
C	-2.5250805	1 0418591	-0 2079668
č	-1.4353809	0.12305708	-0.3340094
C	-1.6275597	-1.2088025	-0.4899121
Н	-0.7375844	-1.8300657	-0.5595
С	-1.3038861	3.0763438	-0.8798747
С	-1.1381844	4.4444207	-0.9600921
С	-2.0026866	5.27365818	-0.2106815
С	-2.9839969	4.68562809	0.58613888
Н	-3.6142246	5.33004751	1.20337055
С	-3.1678369	3.31087677	0.66739147
С	-0.0676626	5.03689939	-1.8276232
Н	-0.6503081	2.44304459	-1.4796725
C	-2.3219263	2.4/3653/1	-0.107704
C	-0.4330149	2.79220023	2.4901031
L L	6 8116522	1.65059555	4 17057622
n C	4 7640537	1.48708078	4.17037022
C	-3 8222264	1.84719152	2 59515963
č	-4.1772681	2.78654839	1.62223687
Н	-4.470685	0.6591124	4.26660953
Н	-7.4579665	3.16943753	2.45771544
С	-5.491462	3.26213329	1.58972344
Н	-5.7805554	4.00017587	0.83707915
С	-1.854648	6.76137316	-0.2518427
Н	0.51164259	4.25707892	-2.3363939
Н	0.63188493	5.64423323	-1.2353763
H	-0.4957915	5.69651819	-2.5961211
H U	-0.8546823	7.06608506	0.09017936
н	-2.5990289	7.20054919	0.3/941015
п	-1.9001313	7 0703618	-1.2/92301
Ċ	-3.3211178	-3 1539106	-0.7816678
č	-4.4714553	-3.6681622	-0.8611703
č	-2.0585546	-4.0489549	-0.961836
Н	-1.0469522	-7.1034523	-0.6564628
Н	-1.038469	-3.6726526	-0.8993021
С	-4.6234176	-5.0287897	-1.1282259
С	-2.223958	-5.3858977	-1.2170364
С	-3.5501903	-5.8915733	-1.3073256
С	-3.7861187	-7.3396968	-1.5913113
C	-1.0449048	-6.2934814	-1.3998943
Н	-0.0998858	-5.7463004	-1.2989675
H	-5.6222699	-5.4554534	-1.2049448
п	-5.5520185	-7.028/791	-2.3307430
н	-1.0566906	-6 7666259	-2 3922439
C	-5 4241988	-1 4158094	-0.4096178
č	-6.5340851	-0.5940607	-0.1707856
C	-5.6269847	-2.7850697	-0.6559512
Н	-6.4027957	0.46311682	0.05906672
С	-7.8189038	-1.1001849	-0.197616
С	-6.9389631	-3.2786438	-0.6806456
С	-8.0231127	-2.4519174	-0.4607163
Н	-8.6675513	-0.4402622	-0.0079932
Н	-7.1267263	-4.334486	-0.8695839
Н	-9.0341728	-2.8629511	-0.4852827
F	-0.19/5//5	0.58404449	-0.2553382
п	-2.7695555	1.49525742	2.03380238
60	CI		
SCF-energy	=	-1408.3172	
С	2.17391484	2.90716221	0.72187583
С	0.95556968	3.10606367	-0.0043801
С	1.03425645	3.06286646	-1.3792386
Н	0.18211995	3.28546793	-2.0206861
С	2.25331146	2.81354797	-2.0125681
F	2.22309419	2.87197856	-3.3236256
C	3.43392126	2.42862782	-1.3450842
C	5.2777/408 6.28201122	2.27040009	0.04444124
C	0.20394433 5 97 <u>4</u> 70710	-0 341071	2.03043984
H	6.66158837	-1.0275391	2.53022221
C	4.76370491	0.01045723	2.64675316
С	3.90846466	0.87140221	2.01189365
С	4.22662379	1.42166793	0.74210197
Н	4.49439102	-0.416236	3.61453619
Н	7.20643232	-0.1909302	0.30672665
С	5.41758789	1.01232755	0.09302899
C	1.23144848	4.49177416	3.96399237
C	2.4780141	4.71418271	4.52515485
C	3.04639145	4.5/648287	5.82/5/849
C	3.343/1001 2.27550407	3.10104049	2.3977362
Н	4 62639017	4 6024777A	2.01333994
H	2.54788764	5.18641438	5.50763292
H	0.34802189	4.81000769	4.51585686
С	1.092001	3.9087226	2.70284254

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С	5./00610/1	1.46616699	-1.2614355
C	4.69638028	2.11195794	-2.0060492
С	4.98654573	2.49560455	-3.3292934
С	6.21505215	2.26451087	-3.915343
С	7.22744867	1.62062435	-3.1645519
Н	4.23952641	3.01771952	-3.9210826
С	6.94854594	1.24215985	-1.8686717
H	7.74433068	0.76261235	-1.2989636
C	-2 6576707	3 85053414	2 14280826
C	1 /107301	3 051338	2.14200020
c	-1.+197391	2 72002026	2.73840320
C	-0.219136	3./3903926	2.0/1/986/
C	-0.2810108	3.40195056	0./13/1456
С	-1.5288471	3.30922317	0.08834172
Н	-1.5888303	3.02591107	-0.9639434
Н	-1.4014156	4.19794272	3.82042061
С	-3.9166253	4.07892298	2.92414917
С	-2.7148346	3.52653993	0.77055929
С	-4.033482	3.40431119	0.06787029
С	6 47742014	2 70451602	-5 3246128
Č	8 57720474	1 36444522	-3 765014
н	-4 5006664	4 90868329	2 50046543
и и	2 7027217	4.21670712	2.07207224
п	-3.7027317	4.310/9/12	2.00225786
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C C C C H	-3.9350337 -2.6256853 -3.8443649 6.09144534 8.43001382 -4.2718777	4.47092116 4.0509191 4.37774317 1.95413879 1.14145702 5.47883976	2.64436418 0.51866456 -0.2955772 -5.654615 -4.0579929 2.36006847
C C C C H H	-3.9350337 -2.6256853 -3.8443649 6.09144534 8.43001382 -4.2718777 -3.7981703	4.47092116 4.0509191 4.37774317 1.95413879 1.14145702 5.47883976 4.45682	2.04430418 0.51866456 -0.2955772 -5.654615 -4.0579929 2.36006847 3.73320873
С С С С С С С Н Н Н	-3.9350337 -2.6256853 -3.8443649 6.09144534 8.43001382 -4.2718777 -3.7981703 -4.7540336	4.47092116 4.0509191 4.37774317 1.95413879 1.14145702 5.47883976 4.45682 3.77877743	2.64436418 0.51866456 -0.2955772 -5.654615 -4.0579929 2.36006847 3.73320873 2.39865416
C C C C C H H H H	-3.9350337 -2.6256853 -3.8443649 6.09144534 8.43001382 -4.2718777 -3.7981703 -4.7540336 -3.6394536	4.47092116 4.0509191 4.37774317 1.95413879 1.14145702 5.47883976 4.45682 3.77877743 4.29521803	2.64436418 0.51866456 -0.2955772 -5.654615 -4.0579929 2.36006847 3.73320873 2.39865416 -1.3704222
С С С С С С С Н Н Н Н Н Н	-1.9350337 -3.9350337 -2.6256853 -3.8443649 6.09144534 8.43001382 -4.2718777 -3.7981703 -4.7540336 -4.1966195	$\begin{array}{r} 4.47092116\\ 4.0509191\\ 4.37774317\\ 1.95413879\\ 1.14145702\\ 5.47883976\\ 4.45682\\ 3.77877743\\ 4.29521803\\ 5.40090481 \end{array}$	2.64436416 0.51866456 -0.2955772 -5.654615 -4.0579929 2.36006847 3.73320873 2.39865416 -1.3704222 -0.0972124

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C H H C C C C	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768	H C C SCF-energy	3.429478 2.239385 2.175593 TSA-B1 =	0.568401 3.636077 3.127217 -1409.4767	0.020661 2.114841 0.764841
C H H C C C C C	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 1.2436492	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 3.8293504	H C C SCF-energy C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333	0.020661 2.114841 0.764841 0.062503
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C H H C C C C C C C H H	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 5.96433167 -7.1406059 -6.2566997	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257	H C C SCF-energy C C H C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912	0.020661 2.114841 0.764841 0.062503 -1.318185 -1.907498 -2.033994
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С Н Н С С С С С С С С Н Н Н Н Н Н Н Н С С С С С С С С С Н Н С С С С С С С С С С	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 5.96433167 -7.1406059 -6.2566997 -6.5735956 -5.7332481	-0.2422165 -1.1713319 3.0126246 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257 3.9906298 1.13452076	H C C SCF-energy C C H C F C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.970333 2.943675 2.794912 2.624337 2.737095	0.020661 2.114841 0.764841 0.062503 -1.318185 -1.907498 -2.033994 -3.346983 -1.407854
С Н Н С С С С С С С Н Н Н Н Н Н Н	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 5.96433167 -7.1406059 -6.2535956 -5.7332481 -6.8881804	-0.2422165 -1.1713319 3.0126246 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257 3.9906298 1.13452076 1.26426222	H C C SCF-energy C C H C F C C C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935 3.462369	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.970333 2.943675 2.794912 2.624337 2.737095 2.849958	0.020661 2.114841 0.764841 0.062503 -1.318185 -1.907498 -2.033994 -3.346983 -1.407854 0.051771
С Н Н С С С С С С С И Н Н Н Н Н Н Н Н Н	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 5.09413167 -7.1406059 -6.2566997 -6.5735956 -5.7332481 -6.8881804 -6.3249342	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 -1.3125668	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257 3.9906298 1.13452076 1.26426222 2.72561026	H C C SCF-energy C C H C F C C C C C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935 3.462369 6.336877 (2011)22	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 2.849958 0.908547	0.020661 2.114841 0.764841 0.062503 -1.318185 -1.907498 -2.033994 -3.346983 -1.407854 0.051771 0.934761
С Н Н С С С С С С С Н Н Н Н Н Н Н Н Н Н	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 5.09414125 5.09413167 -7.1406059 -6.2566997 -6.5735956 -5.7332481 -6.8881804 -6.3249342 4.64827783 5.16397802	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 -1.3125668 2.49743319 -1.4517398	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257 3.9906298 1.13452076 1.26426222 2.72561026 -3.1548952 4.4937416	H C C SCF-energy C C H C F C C C C C H	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935 3.462369 6.336877 6.051132 6.85654	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 2.849958 0.908547 0.607864 0.333938	0.020661 2.114841 0.764841 0.764841 0.062503 -1.318185 -1.907498 -2.033994 -3.346983 -1.407854 0.051771 0.934761 2.275329 2.966355
С Н Н С С С С С С И Н Н Н Н Н Н Н Н Н Н	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 5.09414125 5.0943167 -7.1406059 -6.2566997 -6.5735956 -5.7332481 -6.8881804 -6.3249342 4.64827783 5.16397802 6.12416626	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 -1.3125668 2.49743319 1.44517398 1.51191483	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257 3.9906298 1.13452076 1.26426222 2.72561026 -3.1548952 -4.4937416 -3.0143101	H C C SCF-energy C C H C F C C C C C C C C C C C C C C C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935 3.462369 6.336877 6.051132 6.865654 4.714913	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 2.849958 0.908547 0.607864 0.383938 0.583506	0.020661 2.114841 0.764841 0.764841 0.062503 -1.318185 -1.907498 -2.033994 -3.346983 -1.407854 0.051771 0.934761 2.275329 2.966355 2.725079
С Н Н С С С С С С И Н Н Н Н Н Н Н Н Н Н	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 5.09414125 5.09431167 -7.1406059 -6.2566997 -6.5735956 -5.7332481 -6.8881804 -6.3249342 4.64827783 5.16397802 6.12416626 6.12416626	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 -1.3125668 2.49743319 1.44517398 1.51191483 -0.7823923	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257 3.9906298 1.13452076 1.26426222 2.72561026 -3.1548952 -4.4937416 -3.0143101 -3.3636313	H C C SCF-energy C C H C F C C C C C H C C C C C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935 3.462369 6.336877 6.051132 6.865654 4.714913 3.685585	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 2.84958 0.908547 0.607864 0.383938 0.583506 0.887247	0.020661 2.114841 0.764841 0.764841 0.062503 -1.318185 -1.907498 -2.033994 -3.346983 -1.407854 0.051771 0.934761 2.275329 2.966355 2.725079 1.875824
С Н Н С С С С С С И Н Н Н Н Н Н Н Н Н Н	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.00847655 5.094141255 5.094141255 -5.2566997 -6.2566997 -6.57359566 -5.7332481 -6.8881804 -6.32493422 4.6482778335 5.16397802 -6.124166266 -6.124166265 -6.8469726335 -5.89532762	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.592642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 -1.3125668 2.49743319 1.44517398 1.51191483 -0.7823923 -0.8472752	$\begin{array}{l} 1.22135808\\ 0.65662801\\ 3.18137938\\ 3.24800146\\ 1.83777557\\ 1.73315768\\ -3.3992583\\ -3.8293504\\ 2.52858539\\ 3.76532257\\ 3.9906298\\ 1.13452076\\ 1.26426222\\ 2.72561026\\ -3.1548952\\ -4.4937416\\ -3.0143101\\ -3.3636313\\ -4.8525556\end{array}$	H C C SCF-energy C C H C F C C C C C C C C C C C C C C C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935 3.462369 6.336877 6.051132 6.865654 4.714913 3.689585 3.925756	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 0.84958 0.908547 0.607864 0.383938 0.583506 0.887247 1.237131	0.020661 2.114841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.77498 -2.033994 -3.346983 -1.407854 0.051771 0.934761 2.275329 2.966355 2.725079 1.875824 0.469834
С Н Н С С С С С И Н Н Н Н Н Н Н Н Н Н Н	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 -5.0943167 -7.1406059 -6.2566997 -6.57332481 -6.8881804 -6.3249342 4.64827783 5.16397802 6.12416626 6.84697263 5.89532762 6.14613789	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 -1.3125668 2.49743319 1.44517398 1.51191483 -0.7823923 -0.8472752 -2.3228595	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257 3.9906298 1.13452076 1.26426222 2.72561026 -3.1548952 -4.4937416 -3.0143101 -3.3636313 -4.8525556 -3.899244	H C C SCF-energy C C H C F C C C C C C C H C C H C C H C C H C C H C C H C C H H C C C H H C C H H C C C H H C C C H H C C C H H H C C C H	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.462369 6.336877 6.051132 6.865654 4.714913 3.689585 3.925756 4.49523	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 2.849958 0.908547 0.607864 0.383938 0.583506 0.887247 1.237131 0.301311	0.020661 2.114841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.76484 0.76484 0.771 0.934761 2.275329 2.966355 2.725079 1.875824 0.469834 3.75689
СННСССССНННННННННННН	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 -5.09414125 -6.2566997 -6.2566997 -6.5735956 -5.7332481 -6.88481804 -6.3249342 4.64827783 5.16397802 6.12416626 6.84697263 5.89532762 6.14613789 -0.8852691	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 -1.3125668 2.49743319 1.44517398 1.51191483 0.7823923 -0.8472752 -2.3228595 -3.3837783	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257 3.9906298 1.13452076 1.26426222 2.72561026 -3.1548952 -4.4937416 -3.0143101 -3.3636313 -4.825556 -3.899244 0.67215761	H C C SCF-energy C C H C C C C C C C C H C C C H H C C C C H H C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.462369 6.336877 6.051132 6.865654 4.714913 3.689585 3.925756 4.49523 7.379059 5.202020	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 2.849958 0.908547 0.607864 0.383938 0.583506 0.887247 1.237131 0.301311 0.942438	0.020661 2.114841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.76484 0.7547 0.934761 2.275329 2.966355 2.725079 1.875824 0.469834 3.75689 0.612409
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СННССССНННННННННННННН	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765 5.09643167 -7.1406059 -6.2566997 -6.5735956 -5.7332481 -6.8881804 -6.8249342 4.64827783 5.16397802 6.12416626 6.84697263 5.89532762 6.14613789 -0.8852691 1.59945063 1.7167526 -0.3925146	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 1.3125668 2.49743319 1.44517398 1.51191483 -0.7823923 -0.8472752 -2.3228595 -3.3837783 3.30732804 1.79885894 2.53608907	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257 3.9906298 1.13452076 1.26426222 2.72561026 -3.1548952 -4.4937416 -3.0143101 -3.3636313 -4.8525556 -3.899244 0.67215761 0.96724269 -0.1464059 1.3892558	H C C SCF-energy C C H C F C C C C H C C C H H C C C C H C C C C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935 3.462369 6.336877 6.051132 6.865654 4.714913 3.689585 3.925756 4.49523 7.379059 5.339309 1.136386 2.344842	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 2.849958 0.908547 0.607864 0.383938 0.583506 0.887247 1.237131 0.301311 0.942438 1.173958 4.29607 4.448511	0.020661 2.114841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764844 0.3346983 1.407854 0.61771 0.934761 2.275329 2.966355 2.725079 1.875824 0.469834 3.75689 0.612409 0.02237 4.159201 4.802837
СННССССНННННННННННННННСС	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 5.96433167 -7.1406059 -6.2566997 -6.5735956 -6.5735956 -5.7332481 -6.8881804 -6.3249342 4.64827783 5.16397802 6.12416626 6.84697263 5.89532762 -0.8852691 1.59945063 1.7167526 -0.3925146 -0.2493872	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 -1.3125668 2.49743319 1.44517398 1.51191483 -0.7823923 -0.8472752 -3.3837783 3.30732804 1.31776048	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257 3.9906298 1.13452076 1.26426222 2.72561026 -3.1548952 -4.4937416 -3.0143101 -3.3636313 -4.852556 -3.899244 0.67215761 0.96724269 -0.1464059 1.3892258 0.62345873	H C C SCF-energy C H C H C C C C C H H C C C C H H H C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935 3.462369 6.336877 6.051132 6.865654 4.714913 3.689585 3.925756 4.49523 7.379059 5.339309 1.136386 2.344842 3.544468	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 2.849958 0.908547 0.607864 0.383938 0.583506 0.887247 1.237131 0.301311 0.942438 1.173958 4.29607 4.448511 4.211731	0.020661 2.114841 0.764841 0.764841 0.062503 -1.318185 -1.907498 -2.033994 -3.346983 -1.407854 0.051771 0.934761 2.966355 2.725079 1.875824 0.469834 3.75689 0.612409 0.02237 4.159201 4.802837 4.129288
СННСССССННННННННННННННСССС	-3.6617832 -3.5791627 -4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 5.09414125 5.96433167 -7.1406059 -6.2566997 -6.5735956 -5.7332481 -6.8881804 -6.3249342 4.64827783 5.16397802 6.12416626 6.84697263 5.89532762 6.14613789 0.8852691 1.59945063 1.7167526 -0.3925146 -0.2493872 0.9225111	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 -1.3125668 2.49743319 1.44517398 2.49743319 1.44517398 -0.8472752 -2.3228595 -3.3837783 3.30732804 1.79885894 2.53608907 1.31776048 1.052358	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 3.76532257 3.9906298 1.13452076 1.26426222 2.72561026 -3.1548952 -4.4937416 -3.0143101 -3.3636313 -4.8525556 -3.899244 0.67215761 0.96724269 -0.1464059 1.3892258 0.622348573 -0.1384404	H C C SCF-energy C H C F C C C C C H H C C C C H H C C C C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935 3.462369 6.336877 6.051132 6.865654 4.714913 3.689585 3.925756 4.49523 7.379059 5.339309 1.136386 2.344842 3.544468 3.505729	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 2.849958 0.908547 0.607864 0.883506 0.887247 1.237131 0.90242438 1.173958 4.29607 4.448511 4.211731 3.821311	0.020661 2.114841 0.764841 0.764841 0.764841 0.764841 0.764841 0.07498 -2.033994 -3.346983 -1.407854 0.051771 0.934761 2.966355 2.725079 1.875824 0.469834 3.75689 0.612409 0.612409 0.62237 4.159201 4.802837 4.122928 2.8072
СННССССИНННННННННННННСССИ	-3.6617832 -3.5791627 4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 5.09414125 5.96433167 -7.1406059 -6.2566997 -6.5735956 -5.7332481 -6.8881804 -6.3249342 4.64827783 5.16397802 6.12416626 6.12416626 6.12416626 6.14613789 -0.88532762 6.14613789 -0.88522691 1.59945063 1.7167526 -0.32925146 -0.2493872 0.9250111 1.35162342	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 -1.3125668 2.49743319 1.44517398 2.49743319 1.44517398 -0.8472752 -2.3228595 -2.3228595 -3.3837783 3.30732804 1.79885894 2.53608907 1.31776048 1.052358 -2.1813494	$\begin{array}{l} 1.22135808\\ 0.65662801\\ 3.18137938\\ 3.24800146\\ 1.83777557\\ 1.73315768\\ -3.3992583\\ -3.8293504\\ 2.52858539\\ 3.76532257\\ 3.9906298\\ 1.13452076\\ 1.26426222\\ 2.72561026\\ -3.1548952\\ -4.4937416\\ -3.0143101\\ -3.3636313\\ -4.8525556\\ -3.899244\\ 0.67215761\\ 0.96724269\\ -0.1464059\\ 1.3892258\\ 0.62345873\\ -0.1384404\\ 0.63016639\\ \end{array}$	H C C SCF-energy C C H C C C C C C C H H C C C C H H C C C H H H C C C H H H H	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935 3.462369 6.336877 6.051132 6.865654 4.714913 3.689585 3.925756 4.49523 7.379059 5.339309 1.136386 2.344842 3.5045729 4.502103	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 2.849958 0.908547 0.607864 0.383938 0.583506 0.887247 1.237131 0.9042438 1.173958 4.29607 4.448511 4.211731 3.821311 4.347617	0.020661 2.114841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.0237 -1.318185 -1.907498 -2.033994 -3.346983 -1.407854 0.051771 0.934761 2.275329 2.966355 2.725079 1.875824 0.469834 3.75689 0.612409 0.02237 4.159201 4.802837 4.122928 2.8072 4.628461
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С Н Н С С С С С С С С С С С С С	-3.6617832 -3.5791627 4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 5.096413167 -7.1406059 -6.2566997 -6.5735956 -5.7332481 -6.8881804 -6.3249342 4.64827783 5.16397802 6.12416626 6.34697263 5.89532762 6.12416626 6.34697263 5.89532762 6.12416626 6.34697263 5.89532762 6.12416626 6.34697263 5.89532762 6.12416626 6.34697263 5.89532762 6.124528 1.7167526 -0.3925146 -0.2493872 0.9250111 1.35162342 B1 = 0.964886 0.960173 0.038926 2.143797 2.034055 6.327538 6.014955 6.772552 4.753671 3.818003	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 -1.3125668 2.49743319 1.3125668 2.49743319 1.3125668 2.49743319 1.3125668 2.49743319 1.3125668 2.49743319 1.3125668 2.49743319 1.3125668 2.49743319 1.31776048 1.052358 -2.1813494 -1409.4834 3.078078 2.772173 2.734764 2.579313 2.365496 2.551069 3.551069 3.551069 3.551069 3.551069 3.551069 3.551069 3.551069 3.551069 3.551069 3.551069 3.551069 3.551069 3.551069 3.55	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257 3.9906298 1.13452076 1.26426222 2.72561026 -3.1548952 -4.4937416 -3.0143101 -3.3636313 -4.852556 -3.899244 0.67215761 0.96724269 -0.1464059 1.3892258 0.62345873 -0.1384404 0.63016639 0.087599 -1.305628 -1.882853 -2.012674 -3.32202 -1.411761 0.082526 0.769874 2.036585 2.652879 1.965682	H C C SCF-energy C H H C C C C C C C C C C C C C C C C	3.429478 2.239385 2.175593 TSA-BI = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935 3.462369 6.336877 6.051132 6.865654 4.714913 3.689585 3.925756 4.49523 7.379059 5.339309 1.136386 2.344842 3.544468 3.505729 4.502103 2.363202 0.224085 1.063899 5.618796 4.696704 4.981159 6.151295 7.060103 4.276011 6.773737 7.473222 -2.664521 -1.444954 -0.219134 -0.247946	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 2.849958 0.908547 0.607864 0.383938 0.583506 0.887247 1.237131 0.301311 0.301311 0.301311 0.301311 4.242438 1.173958 4.29607 4.448511 4.211731 3.821311 4.347617 4.767029 4.502158 3.898062 1.547965 2.345887 2.723858 2.334028 1.511825 2.345887 2.723858 2.334028 1.511825 3.337717 1.135631 0.473472 3.810902 3.932181 3.745998 3.417294	0.020661 2.114841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.771 0.934761 2.275329 2.966355 2.725079 1.875824 0.469834 3.75689 0.612409 0.02237 4.159201 4.802837 4.159201 4.802837 4.159201 4.802837 4.159201 4.802837 4.159201 4.802837 4.159201 4.802837 4.159201 4.802837 4.159201 3.841028 2.8072 4.033005 -3.341513 3.931129 -2.032244 -1.51793 2.156485 2.790121 2.127568 0.76471
С Н Н С С С С С С С С С С С С С	-3.6617832 -3.5791627 4.0874545 -6.310153 4.8713145 -6.0084765 5.09414125 5.96433167 -7.1406059 -6.2566997 -6.25735956 -5.7332481 -6.8881804 -6.3249342 4.64827783 5.16397802 6.12416626 6.84697263 5.89532762 6.12416626 6.84697263 5.89532762 6.12416626 6.84697263 1.7167526 0.3925146 -0.2493872 0.9250111 1.35162342 B1 = 0.964886 0.960473 0.038926 2.143797 2.034055 3.3827223 3.449395 6.327538 6.014955 6.772552 4.753671 3.818003 4.030946	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 -1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 -1.3125668 2.49743319 1.3125668 2.49743319 1.3125668 2.49743319 1.342568 2.53608907 1.31776048 1.052358 -2.1813494 -1409.4834 3.078078 2.734764 2.579313 2.365496 2.551069 2.699722 0.416997 -0.010126 -0.561521 0.237241 0.923491 1.341369	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257 3.9906298 1.13452076 1.26426222 2.72561026 -3.1548952 -4.4937416 -3.0143101 -3.3636313 -4.852556 -3.899244 0.67215761 0.96724269 -0.1464059 1.3892258 0.62345873 -0.1384404 0.63016639 0.087599 -1.305628 -1.882853 -2.012674 -3.32202 -1.411761 0.082526 0.769874 2.036585 2.601085 2.652879 1.955682 0.56276	H C C SCF-energy C H H C C C C C C C C C C C C C C C C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935 3.462369 6.336877 6.051132 6.865654 4.714913 3.689585 3.925756 4.49523 7.379059 5.339309 1.136386 2.344842 3.544468 3.505729 4.502103 2.363202 0.224085 1.063899 5.618796 4.696704 4.981159 6.151295 7.060103 4.27601 6.773737 7.473222 -2.664521 -1.444954 -0.219134 -0.247946 -1.491356	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 2.849958 0.908547 0.607864 0.383938 0.583506 0.887247 1.237131 0.301311 0.942438 1.173958 4.29607 4.448511 4.211731 3.821311 4.347617 4.767029 4.502158 3.898062 1.547965 2.345887 2.723858 2.334028 1.511825 3.357717 1.135631 0.473472 3.810902 3.932181 3.745998	0.020661 2.114841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.77485 0.775329 0.96355 2.725079 1.875824 0.409834 3.75689 0.612409 0.02237 4.159201 4.802837 4.122928 2.8072 4.628461 5.847352 2.8072 4.628461 5.847352 2.8072 4.628461 5.847352 2.8072 4.628461 5.847352 2.8072 4.628461 5.847352 2.709176 -3.39292 -4.033005 -3.341513 -3.931129 2.032244 1.51793 2.156485 2.790121 2.156485 2.790121 2.156485 2.790121 2.15758
С Н Н С С С С С С С С С С С С С	-3.6617832 -3.5791627 4.0874545 -6.310153 -4.8713145 -6.0084765 5.09414125 5.96433167 -7.1406059 -6.2566997 -6.5735956 -5.7332481 -6.8881804 -6.3249342 4.64827783 5.16397802 6.12416626 6.84697263 5.89532762 6.14613789 -0.8852691 1.59945063 1.7167526 -0.3925146 -0.2493872 0.9250111 1.35162342 B1 = 0.964886 0.960173 0.038926 2.143797 2.034055 3.3827222 3.449395 6.327538 6.014955 6.772552 4.753671 3.818003 4.030946 4.56213 2.05455	-0.2422165 -1.1713319 3.0126246 1.54391515 0.01341747 -0.9598232 1.52642637 1.2436492 1.5917658 2.50961567 0.77673285 -1.8371417 -0.4954339 -1.3125668 2.49743319 1.44517398 1.51191483 -0.7823923 -0.8472752 -2.3228595 -2.328595 -3.3837783 3.30732804 1.79885894 1.579885894 1.31276048 1.052358 -2.1813494 -1409.4834 3.078078 2.75176048 1.052358 -2.1813494 -1409.4834 3.078078 2.75176048 1.052358 -2.1813494 -1409.4834 3.078078 2.75176048 1.052358 -2.1813494 -1409.4834 3.078078 2.75176048 1.052358 -2.1813494 -1409.4834 3.078078 2.75160 2.659722 0.416997 -0.010126 -0.561521 0.237241 0.237241 0.237241 0.237247 1.341369 -0.121771	1.22135808 0.65662801 3.18137938 3.24800146 1.83777557 1.73315768 -3.3992583 -3.8293504 2.52858539 3.76532257 3.9906298 1.13452076 1.26426222 2.72561026 -3.1548952 -4.4937416 -3.0143101 -3.3636313 -4.852556 -3.899244 0.67215761 0.96724269 -0.1464059 1.3892258 0.62345873 -0.1384404 0.63016639 0.087599 -1.305628 -1.305628 -1.882853 -2.012674 -3.32202 -1.411761 0.082526 0.769874 2.036585 2.601085 2.652879 1.955682 0.56276 3.664884 0.56276	H C C SCF-energy C H C F C C C C C C C C C H H C C C C C	3.429478 2.239385 2.175593 TSA-B1 = 1.012969 1.055441 0.137842 2.235593 2.127906 3.456935 3.462369 6.336877 6.051132 6.865654 4.714913 3.689585 3.925756 4.49523 7.379059 5.339309 1.136386 2.344842 3.544468 3.505729 4.502103 2.363202 0.224085 1.063899 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 4.696704 4.981159 5.618796 5.618795 5.618795 5.618795 5.618795 5.618795 5.6187955 5.61879555555555555555555555555555555555555	0.568401 3.636077 3.127217 -1409.4767 3.193103 2.970333 2.943675 2.794912 2.624337 2.737095 2.849958 0.908547 0.607864 0.383938 0.583506 0.887247 1.237131 0.301311 0.942438 1.173958 4.29607 4.448511 4.211731 3.821311 4.347617 4.767029 4.502158 3.898062 1.547965 2.345887 2.723858 2.334028 1.511825 3.357717 1.135631 0.473472 3.810902 3.932181 3.745998	0.020661 2.114841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.764841 0.76484 0.7749 0.775329 1.875824 0.409834 0.75529 0.612409 0.02237 4.12928 2.8072 4.628461 5.847352 2.847352 4.716124 2.814028 -1.37227 -2.079176 -3.39292 -4.033005 -3.341513 -3.392129 2.032244 -1.51793 2.156485 2.790121 2.156485 2.790121 2.156485 2.790121 2.156485 2.790121 2.156485 2.790121 2.156485 2.790121 2.156485 2.790324 -0.32244 -1.51793 2.156485 2.790121 2.156485 2.790121 2.15755 -0.936303

C	3 9/31/6	4 02005	2 011623
c	-3.943140	2 494551	0.770292
C	-2.089428	3.484551	0.779282
С	-3.993266	3.342259	0.052492
С	6.429085	2.772203	-5.440104
С	8.317869	1.039533	-4.005753
H	-4 531861	4 840005	2 475511
11	2 752206	4 262200	2.173511
п	-3.733290	4.203399	3.903988
Н	-4.574782	3.120513	2.880479
Н	-3.840725	3.086003	-1.003045
Н	-4.573801	4.275177	0.093673
н	-4 616718	2 557593	0 504856
11	-4.010/10	2.057575	5 920009
н	5.625019	3.400042	-5.829098
Н	6.532749	1.907948	-6.112095
Н	7.368308	3.340724	-5.501916
Н	8.942402	1.88904	-4.318083
Н	8 092208	0 459458	-4 912287
н	8 91453	0.406665	-3 33797
11	2 (5 (05 4	0.400000	-3.33797
Н	2.656054	0.825093	2.22246
Н	4.451171	3.661851	2.28915
Н	4.334883	3.414345	0.394516
Н	3.249796	0.659959	-0.180361
C	2 277385	3 651222	2 124699
c	2.277505	2 246699	0.746029
C	2.238014	3.240088	0.746238
	TSA-B2		
62			
SCF-energy	=	-1409.469	
С	1,335659	2,994861	0.572893
Ċ	1 513/80	1 836600	-0 148009
й	0.710970	1 100412	0.140220
	0.7108/9	1.109012	-0.203/91
C	2.142557	1.499427	-0.836793
F	2.481418	0.879618	-2.020985
С	3.752979	2.571921	-0.916716
С	4.63339	-1.408343	-1.490237
Ĉ	3 723003	-2 337689	-1.021612
U U	2 721695	-2.337089	1.021012
н	3.721085	-3.341215	-1.456122
C	2.785946	-2.030191	-0.007902
С	2.77975	-0.778934	0.520512
С	3.665052	0.258601	0.029341
Н	2.09865	-2.797988	0.35072
н	5 315556	-1 682841	-2 295389
C	4 642472	0.110020	0.084772
c	4.042472	-0.110929	-0.964772
Č	0.94/193	0.018133	2.804969
C	1.98033	7.531023	2.860357
С	3.168876	7.283609	2.167647
С	3.296007	6.127635	1.434195
H	3 991944	7 999341	2 209391
н	1 866305	8 111366	3 447756
11	0.025705	6.929929	2.257720
п	0.035705	0.838828	3.357739
С	1.04897	5.431115	2.063795
С	5.491922	0.926387	-1.563569
С	5.024099	2.253325	-1.585005
C	5 788611	3 220692	-2.225655
Ĉ	7 0180	2 025781	2 808058
c	7.0109	1.04992	-2.000950
C .	/.50555	1.604882	-2./58181
Н	5.405132	4.241494	-2.29242
С	6.725205	0.630789	-2.149826
Н	7.110133	-0.390517	-2.103593
С	-2.33187	3.811275	2.635105
C	-1 274148	4 699707	2.666238
Ĉ	0.057076	4 466075	2.006343
č	0.00174	3 777404	1 2000343
Č	0.081/04	5.272464	1.263972
U .	-0.993439	2.370358	1.258278
Н	-0.907909	1.436736	0.701247
Н	-1.412941	5.62052	3.23156
С	-3.610479	4.11879	3.356596
Ċ	-2 187966	2 608244	1 908956
C	2 210774	1 614022	1.900930
c	-3.310274	1.014923	1.645215
C	7.811051	4.002365	-3.485/09
С	8.834071	1.253404	-3.358633
Н	-4.461593	4.150325	2.660902
Н	-3.559007	5.086471	3.87025
Н	-3.839125	3.348817	4.107741
Н	-3.037773	0.738932	1 241501
	_4 211050	2 061776	1 309010
11	-+.211039	2.001//0	1.376019
п 11	-5.591293	1.203008	2.840515
н	1.296732	4.969808	-3.443969
Н	7.9878	3.756412	-4.54281
Н	8.798629	4.119753	-3.016437
Н	9.645932	1.832042	-2.894902
Н	8.855231	1.47688	-4.435068
н	9.064144	0 188722	-3 230080
и и	2.004144	0.100722	1 200000
17	2.090475	-0.521093	1.328806
н	4.235338	5.955078	0.91098
Н	4.369975	4.429137	-0.179214
С	2.251481	5.177881	1.360302
С	2.389198	3.962858	0.590395
С	3,560991	3,701048	-0.186472
н	4.061355	0.893876	0.832138

Table S2c. Cartesian coordinates and SCF energies (LC- ω PBE/def2-SVP) for compounds investigated with X=OMe.

66	~		
CCE		1404 775065	
SCF-energy	=	-1424.773063	0.750005
C	-1.564251	-0.174237	-0.758995
С	-0.766331	-0.754057	-1.785243
Н	-1.218691	-1.215864	-2.659884
С	0.595040	-0.769969	-1.733954
0	1 270622	-1 329770	-2 755298
č	1.278342	0.160547	0.610763
c	2 1 4 4 9 7 1	-0.100347	-0.019703
Ĉ	3.1448/1	0.089447	3.052/11
С	2.648986	-0.395656	4.256610
Н	2.810987	0.170360	5.176670
С	1.954688	-1.599672	4.291789
С	1.761949	-2.318846	3.117921
C	2 252995	-1 832604	1 913606
ц	1 570867	1 08/013	5 230263
11	2 696270	1.029610	2.020025
п	5.080579	1.058019	3.030033
C	2.944613	-0.619010	1.864570
С	-3.817632	1.500118	2.474495
С	-3.195274	1.926114	3.632509
С	-1.812271	1.826392	3.750978
С	-1.070722	1.313060	2.704326
н	-1 312038	2 145722	4 667168
и и	2 701755	2 220066	4 452825
11	-3.791733	1.574970	4.452655
п	-4.902476	1.374878	2.413039
С	-3.083779	0.975834	1.402549
С	3.494532	-0.102028	0.583911
С	2.725442	0.014535	-0.598697
С	3.368762	0.418426	-1.786427
С	4.710321	0.752097	-1.831367
Ĉ	5 470157	0.651010	-0.647456
ч	2 776660	0.507829	2 608144
II C	2.7700000	0.307823	-2.098144
C .	4.846422	0.219906	0.521600
H	5.449321	0.101106	1.425018
С	-5.778234	0.128837	-1.130993
С	-5.123623	0.589902	0.005097
С	-3.744192	0.496410	0.179980
С	-2.982326	-0.092528	-0.867370
С	-3.665383	-0.564096	-2.021694
Н	-3.096495	-1.017625	-2.831968
Н	-5.736709	1.044394	0.781877
С	-7.261633	0.262830	-1.252273
С	-5.024844	-0.470781	-2.176766
Ċ	-5.702248	-0.980049	-3.413518
Č	5 340359	1 216277	-3 111621
Ĉ	6 929420	0.985527	-0.646521
н	-7 528870	0.858805	-2 137282
и и	7 701070	0.742200	0.260057
11	7 722006	0.742390	1 200606
п	-7.755990	-0.722155	-1.580000
H	-4.9/80/5	-1.409114	-4.11/0/9
Н	-6.241107	-0.1/4/12	-3.932999
Н	-6.440357	-1.758177	-3.171653
Н	4.612666	1.233587	-3.931955
Н	6.170006	0.558718	-3.409110
Н	5.755655	2.229080	-3.007322
Н	7.093757	2.026919	-0.959781
н	7.480633	0.350480	-1.355349
н	7 374030	0.853336	0 346928
и	1 233211	3 274140	3 142355
и и	0.008046	1 222400	2 821510
11	1.0020040	0.010720	2.651510
п	1.003894	0.819750	1.231832
Ĉ	-1.684913	0.893/14	1.516641
С	-0.898317	0.351002	0.402235
С	0.480890	0.351024	0.422518
Н	2.116579	-2.415103	0.999036
С	1.964617	-2.539428	-2.498336
Н	2.451501	-2.829125	-3.435904
Н	2.733224	-2.413241	-1.720796
Н	1.259639	-3.330727	-2.198958
	C1		
64			
SCF-energy	=	-1423.593381	
С	2.203403	2.973619	0.717037
Ċ	1.015326	3.122968	0.005673
Ĉ	1 128092	3 047853	-1 432573
õ	0.062273	3 333001	_2 135635
č	2 358716	2 785622	-2 066207
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C		2 293642	2 774625	-2 077119	C	1 156280	3 877866	2 837958
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C		1.223263	4.396342	4.140017	C	-1.355262	3.525120	0.067972
С		2.427180	4.492838	4.799803	Н	-1.399666	3.314054	-1.002161
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Ĉ		2 561099	3 700600	2 841615	C	2 921276	1 216406	2 847222
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C		-3.84/398	4.377733	2.815844	Н	3.346823	0.591408	-0.294012
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Н		2.750857	1.027275	2.255095	C	3.709254	-2.273757	-1.229160
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С		2.282417	3.133507	0.772638	Н	2.052179	-2.767829	0.091132
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Н		0.413047	1.883464	-3.846813	C	0.970442	6.594129	2.870890
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С		1.233591	3.154127	-1.327545	Н	0.061508	6.801139	3,433118
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п С		0.292980	3.109408	-1.003243		1.070031	J.+2271J	2.104109
С		2.392998	2.993875	-2.092221	C	5.496850	1.000445	-1.636715
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С		3,598606	2,789222	-1.412046	С	5.824879	3.314625	-2.207518
č		3 592704	2 665001	0.115510	ĉ	7.065257	3 031852	-2 775707
č		5.592704	2.003001	0.115510	c c	7.005257	1.5051652	-2.113171
(¹		6 IVV516	1160/249	111115161		1 5/11/2/21	1 1116-1/11	161600

Н	5.453116	4.341646	-2.239847
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Н	0.909873	2.129885	-2.829300
Н	2.541473	2.611477	-3.398969