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Supplementary Information

Steric Effects on Intramolecular Charge Transfer Fluorescence of Benzo[*b*]thiophene-1,1-dioxide Bridged Macrocages

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1. Details of Synthetic Studies

General. All synthetic reactions were carried out in anhydrous conditions under an argon atmosphere unless otherwise noted. The chemical shifts in the ¹H and ¹³C NMR spectra were based on the residual solvent resonances, while those in ²⁹Si NMR spectra were referenced to external tetramethylsilane. HRMS analyses were carried out using a time-of-flight mass spectrometry (TOF-MS) system with atmospheric pressure chemical ionization (APCI).

Materials Commercially available reagents were used without further purification unless otherwise noted. Spectroscopy grade solvents (hexane, toluene, AcOEt, CH_2Cl_2 , and toluene) were used for fluorescence studies.

Synthesis of 2,5-bis(tris-9-decenylsilyl)benzo[b]thiophene (C10BTC10). To a 100-mL two-necked flask with a magnetic stirrer, 5-Bromobenzo[b]thiophene (2.35 g, 11 mmol) and dry THF (12 mL) were added. nBuLi solution (1.6 N, 15.4 mL, 24.2 mmol) was dropped into the flask at -78 °C for 25 min. After 1 h stirring, tris(7-octenyl)chrolosilane (13.6 g, 28.0 mmol) in THF (10 mL) was dropped into the flask at -80 °C for 1h. Then, the reaction temperature was increased to room temperature for 1h, and was stirred for 15 h. The solvents were distilled off and the reaction mixture was hydrolyzed with NH₄Cl. The organic layer was extracted with hexane and dried over Na₂SO₄. After column chromatography (silica gel, eluent: hexane) and GPC, C10BTC10 was obtained as a colorless oil (2.83 g, 2.77 mmol, 25%).

C10BTC10: a colorless oil; ¹H NMR (CDCl₃, 500 MHz): δ 7.92 (s, 1H), 7.84 (d, J = 8.0 Hz, 1H), 7.43 (s, 1H), 7.37 (d, J = 8.0 Hz, 1H), 5.79 (ddt, J = 17.0, 10.0, 6.8 Hz, 6H), 4.97 (d, J = 17.0 Hz, 6H), 4.91 (d, J = 10.0 Hz, 6H, H_2C =CH-), 2.01 (q, J = 6.8 Hz, 12H), 1.15-1.40 (br, 72H), 0.81-0.83 (br, 12H); ¹³C{¹H} NMR (CDCl₃, 126 MHz): δ 144.2, 140.7, 130.3, 132.9, 131.5, 129.4, 129.3, 121.4, 114.1, 33.8, 33.7, 29.4, 29.2, 29.0, 23.8, 23.8; ²⁹Si{¹H} NMR (CDCl₃, 99 MHz): δ -1.3, -2.8; HRMS (APCI) m/z: [M]⁺ Calcd for C₆₈H₁₁₈Si₂S 1022.8487; Found: 1022.8493.

Synthesis of 2,5-bis(tris-11-dodecenylsilyl)benzene (C12BTC12). Using the same procedure as that for the synthesis of **1**, 5-Bromobenzo[b]thiophene (3.29 g, 15.4 mmol), tetrahydrofuran (15 mL), nBuLi solution (22 mL, 34.5 mmol), and tris(9-decenyl)chrolosilane (18 g, 32 mmol) were used to obtain **2** as a colorless oil (3.23 g, 2.71 mmol, 18%).

C12BTC12: a colorless oil; ¹H NMR (CDCl₃, 500 MHz): δ 7.93 (s, 1H), 7.85 (d, J = 8.0 Hz, 1H), 7.44 (s, 1H), 7.38 (d, J = 8.0 Hz, 1H), 5.80 (ddt, J = 17.0, 10.0, 7.0 Hz, 6H), 4.99 (d, J = 17.0 Hz, 6H), 4.92 (d, J = 10.0 Hz, 6H, H_2C =CH-), 2.03 (q, J = 7.0 Hz, 12H), 1.20-1.39 (br, 96H), 0.83-0.85 (br, 12H); ¹³C {¹H} NMR (CDCl₃, 126 MHz): δ 144.2, 140.8, 139.2, 132.9, 131.5, 129.4, 129.3, 121.4, 114.1, 33.8, 33.7, 29.7, 29.6, 29.5, 29.3, 29.2, 29.0, 23.9, 23.8, 13.3, 12.7; ²⁹Si {¹H} NMR (CDCl₃, 99 MHz): δ -1.4, -2.9; HRMS (APCI) m/z: [M]⁺ Calcd for C₈₀H₁₄₂Si₂S 1191.0365; Found: 1191.0336.

Synthesis of molecular gyrotop C18BT. To a 1000-mL three-necked flask with a magnetic stirrer, condenser, glass stopper, and dropping funnel, CH_2Cl_2 (700 mL) was added. Then, 1st generation Grubbs' catalyst (10 mg) was added to the flask, and a solution of 1 (850 mg, 0.83 mmol) in CH_2Cl_2 (250 mL) was dropped under reflux for 6 h. During the addition, Grubbs' catalyst (10 mg) was added to the flask total three times. After 18h, the reaction mixture was cooled to room temperature, and the solvent was distilled off. The residue was treated with column chromatography (silica gel, eluent: toluene) to remove metal complexes. The crude products, toluene (20 mL), and Pd/C catalyst were added to an autoclave. The vessel was heated to 60 °C and stirred for 24h under a hydrogen atmosphere (3 atm). The reaction mixture was filtered, and volatile materials were removed in vacuo. Via gel permeation crystallography (GPC) purification, C18BT (120 mg, 13 mmol, 15%) was obtained as colorless crystals, and C18iBT (240 mg, 25 mmol, 30%) was obtained as a colorless oil.

C18BT: colorless crystals; mp 85–86 °C; ¹H NMR (CDCl₃, 500 MHz): δ 8.00 (s, 1H), 7.86 (d, J = 8.0 Hz, 1H), 7.53 (s, 1H), 7.40 (d, J = 8.0 Hz, 1H), 1.15-1.40 (br, 96H), 0.81-0.83 (br, 12H); ¹³C {¹H} NMR (CDCl₃, 126 MHz): δ 144.4, 140.8, 139.4, 132.1, 131.5, 130.0, 129.5, 121.5, 33.5, 29.5, 29.4, 29.1, 29.0, 28.6, 23.6, 13.4, 12.6; ²⁹Si {¹H} NMR (CDCl₃, 99 MHz): δ –0.7, –2.4; HRMS (APCI) *m/z*: [M]⁺ Calcd for C₆₂H₁₁₂Si₂S 944.8018; Found: 944.8013. **C18iBT**: a colorless oil; ¹H NMR (CDCl₃, 500 MHz): δ 7.95 (s, 1H), 7.85 (d, J = 8.0 Hz, 1H), 7.46 (s, 1H), 7.38 (d, J = 8.0 Hz, 1H), 1.20-1.40 (br, 96H), 0.82-0.90 (br, 8H), 0.70-0.80 (br, 8H); ¹³C {¹H} NMR (CDCl₃, 126 MHz): δ 144.2, 140.8, 139.4, 133.0, 131.6, 129.5, 129.3, 121.5, 33.8, 33.7, 33.2, 33.0, 29.2, 29.1, 29.0, 28.9, 28.6, 28.5, 28.4, 28.2, 28.1, 27.7, 27.4, 23.8, 23.7, 23.4, 23.3, 14.0, 13.7, 13.0, 12.1; ²⁹Si {¹H} NMR (CDCl₃, 99 MHz): δ –1.0, –2.6; HRMS (APCI) *m/z*: [M]⁺ Calcd for C₆₂H₁₁₂Si₂S 944.8018; Found: 944.8016.

Synthesis of molecular gyrotop C22BT. Using the same procedure as that for the synthesis of **C18BT**, bissilyldifluorobenzene **2** (1.33 g, 1.12 mmol), dichloromethane (950 mL), and toluene (10 mL) were used. **C22BT** (100 mg, 0.09 mmol, 8 %) was obtained as a colorless oil, and **C22iBT** (145 mg, 0.13 mmol, 12%) was obtained as a colorless oil.

C22BT: a colorless oil; ¹H NMR (CDCl₃, 500 MHz): δ 7.96 (s, 1H), 7.88 (d, J = 8.0 Hz, 1H), 7.48 (s, 1H), 7.40 (d, J = 8.0 Hz, 1H), 1.22-1.40 (br, 120H), 0.81-0.84 (br, 12H); ¹³C{¹H} NMR (CDCl₃, 126 MHz): δ 144.3, 140.7, 139.3, 132.8, 131.8, 129.6, 129.4, 121.5, 33.8, 33.7, 29.7, 29.3, 29.2, 29.0, 23.8, 23.7, 14.1, 13.3, 12.6; ²⁹Si{¹H} NMR (CDCl₃, 99 MHz): δ -1.1, -2.6; HRMS (APCI) *m/z*: [M]⁺ Calcd for C₇₄H₁₃₆Si₂S 1112.990; Found: 1112.987. **C22iBT**: a colorless oil; ¹H NMR (CDCl₃, 500 MHz): δ 7.96 (s, 1H), 7.85 (d, J = 8.0 Hz, 1H), 7.45 (s, 1H), 7.39 (d, J = 8.0 Hz, 1H), 1.22-1.42 (br, 120H), 0.82-0.90 (br, 8H), 0.72-0.80 (br, 4H); ¹³C{¹H} NMR (CDCl₃, 126 MHz): δ 144.2, 140.8, 139.4, 133.0, 131.5, 129.4, 129.3, 121.4, 33.8, 33.7, 33.5, 33.3, 29.2, 29.1, 29.0, 28.8, 28.7, 28.5, 28.2, 28.0, 23.9, 23.8, 23.6, 23.5, 13.9, 13.5, 13.0, 12.2; ²⁹Si{¹H} NMR (CDCl₃, 99 MHz): δ -1.2, -2.7; HRMS (APCI) *m/z*: [M]⁺ C₇₄H₁₃₆Si₂S 1112.990; Found: 1112.985.

Synthesis of molecular gyrotop C18BTO2. Macrocage C18BT (90 mg, 0.095 mmol) and *m*CPBA (63 mg, 0.26 mmol) were dissolved in dichloromethane (20 mL). The reaction mixture was then stirred for 40 h at room temperature. The mixture was quenched with a dilute aqueous NaHCO₃ solution and extracted with dichloromethane. The organic layer was washed several times with dilute aqueous NaHCO₃ to completely remove chlorobenzoic acid. The mixture was dried over anhydrous Na₂SO₄ and filtered, and the volatile materials were removed in vacuo. Pure C18BTO2 (60 mg, 0.061 mmol, 64% yield) was obtained as colorless crystals after recrystallization from ethanol.

C18BTO2: colorless crystals; mp 129–130 °C; ¹H NMR (CDCl₃, 500 MHz): δ 7.66 (d, J = 7.5 Hz, 1H), 7.57 (d, J = 7.5 Hz, 1H), 7.47 (s, 1H), 7.30 (s, 1H), 1.15-1.49 (br, 96H), 0.82-0.89 (br, 6H), 0.73-0.78 (br, 6H); ¹³C{¹H} NMR (CDCl₃, 126 MHz): δ 145.8, 144.4, 141.0, 139.7, 136.1, 131.5, 130.4, 120.1, 33.4, 33.3, 29.5, 29.4(duplicated), 29.3, 29.2 (duplicated), 29.1, 29.0, 28.9, 28.7 (triplicated), 23.5, 23.3, 12.0, 11.6; ²⁹Si{¹H} NMR (CDCl₃, 99 MHz): δ 0.4, -1.5; HRMS (APCI) *m/z*: [M+H]⁺ Calcd for C₆₂H₁₁₃Si₂SO₂ 977.7994; Found: 977.8024.

Synthesis of molecular gyrotop isomer C18iBTO2. Using the same procedure as that for the synthesis of C18BTO2, C18iBT (103 mg, 0.11 mmol), *m*CPBA (112 mg, 0.49 mmol), and dichloromethane (20 mL) were used to obtain C18iBTO2 as a colorless oil (70 mg, 0.072 mmol, 65%).

C18iBTO2: a colorless oil; ¹H NMR (CDCl₃, 500 MHz): δ 7.64 (d, J = 7.5 Hz, 1H), 7.55 (d, J = 7.5 Hz, 1H), 7.38 (s, 1H), 7.20 (s, 1H), 1.18-1.41 (br, 96H), 0.65-0.98 (br, 12H); ¹³C{¹H} NMR (CDCl₃, 126 MHz): δ 146.1, 144.6, 140.3, 139.6, 136.1, 131.5, 129.9, 120.3, 33.8, 33.1, 12.9, 29.2, 29.1, 29.0, 28.8, 28.7, 28.6, 28.4, 28.1, 27.6, 27.3, 23.8, 23.7, 23.2, 23.0, 13.4, 12.9, 11.6, 11.3; ²⁹Si{¹H} NMR (CDCl₃, 99 MHz): δ -0.1, -2.3; HRMS (APCI) *m/z*: [M+H]⁺ Calcd for C₆₂H₁₁₃Si₂SO₂ 977.7994; Found: 977.8028.

Synthesis of molecular gyrotop C22BTO2. Using the same procedure as that for the synthesis of C18BTO2, C22BT (73 mg, 0.065 mmol), *m*CPBA (81 mg, 0.36 mmol), and dichloromethane (20 mL) were used to obtain C22BTO2 as a colorless oil (55 mg, 0.048 mmol, 74%).

C22BTO2: colorless crystals; mp 81–82 °C; ¹H NMR (CDCl₃, 500 MHz): δ 7.66 (d, J = 7.5 Hz, 1H), 7.56 (d, J = 7.5 Hz, 1H), 7.39 (s, 1H), 7.22 (s, 1H), 1.20-1.40 (br, 120H), 0.83-0.89 (br, 6H), 0.72-0.78 (br, 6H); ¹³C{¹H} NMR (CDCl₃, 126 MHz): δ 145.9, 144.6, 140.6, 139.7, 136.1, 131.5, 130.1, 120.2, 33.7, 33.6, 29.4, 29.3, 29.2, 29.1, 29.0, 23.6, 23.4, 12.2, 11.6; ²⁹Si{¹H} NMR (CDCl₃, 99 MHz): δ 0.0, -2.0; HRMS (APCI) *m/z*: [M]⁺ Calcd for C₇₄H₁₃₆Si₂SO₂ 1144.979; Found: 1144.978.

Synthesis of molecular gyrotop isomer C22iBTO2. Using the same procedure as that for the synthesis of **C18BTO2**, **C22iBT** (98 mg, 0.088 mmol), *m*CPBA (126 mg, 0.56 mmol), and dichloromethane (20 mL) were used to obtain **C22iBTO2** as a colorless oil (40 mg, 0.035 mmol, 40%). **C22iBTO2**: a colorless oil; ¹H NMR (CDCl₃, 500 MHz): δ 7.63 (d, *J* = 7.5 Hz, 1H), 7.54 (d, *J* = 7.5 Hz, 1H), 7.37 (s, 1H), 7.19 (s, 1H), 1.20-1.42 (br, 120H), 0.65-0.96 (br, 12H); ¹³C{¹H} NMR (CDCl₃, 126 MHz): δ 146.1, 144.8, 140.2, 139.6, 136.1, 131.5, 129.9, 120.2, 33.8, 33.7, 33.3, 33.2, 29.5, 29.3, 29.2, 29.1, 29.0, 28.9, 28.8, 28.7, 28.6, 28.5, 28.1, 27.9, 23.8, 23.6, 23.4, 23.1, 13.1, 12.6, 11.7, 11.4; ²⁹Si{¹H} NMR (CDCl₃, 99 MHz): δ -0.2, -2.4; HRMS (ESI) *m*/*z*: [M+Na]⁺ Calcd for C₇₄H₁₃₆Si₂SO₂Na 1167.969; Found: 1167.969.

Synthesis of 2,5-bis(trimethylsilyl)benzo[b]thiophene (TMSBT). Using the same procedure as that for the synthesis of **1**, 5-Bromobenzo[b]thiophene (2.96 g, 13.9 mmol), tetrahydrofuran (15 mL), nBuLi solution (20 mL, 31.3 mmol), and chrolotrimethylsilane (4.43 g, 40.8 mmol) were used to obtain **TMSBT** as colorless crystals (1.15 g, 4.13 mmol, 30%).

TMSBT: colorless crystals; mp 79–80°C; ¹H NMR (CDCl₃, 500 MHz): δ 7.98 (s, 1H), 7.87 (d, J = 8.0 Hz, 1H), 7.47 (s, 1H), 7.44 (d, J = 8.0 Hz, 1H), 0.37 (s, 9H), 0.31 (s, 9H); ¹³C{¹H} NMR (CDCl₃, 126 MHz): δ 144.2, 141.9, 140.7, 135.4, 130.8, 128.6 (duplicated), 121.6, -0.3, -0.9; ²⁹Si{¹H} NMR (CDCl₃, 99 MHz): δ -2.3, -5.4; HRMS (APCI) m/z: [M]⁺ Calcd for C₁₄H₂₂Si₂S 278.0975; Found: 279.0983.

Synthesis of 2,5-bis(trimethylsilyl)benzo[b]thiophene-1,1-dioxide (TMSBTO2). Using the same procedure as that for the synthesis of C18BTO2, TMSBT (800 mg, 2.87 mmol), *m*CPBA (2.0 g, 8.8 mmol), and dichloromethane (100 mL) were used to obtain TMSBTO2 as a colorless oil (458 mg, 1.48 mmol, 52%).

TMSBTO2: colorless crystals; mp 80–81 °C; ¹H NMR (CDCl₃, 500 MHz): δ 7.65 (d, J = 7.5 Hz, 1H), 7.59 (d, J = 7.5 Hz, 1H), 7.42 (s, 1H), 7.20 (s, 1H), 0.38 (s, 9H), 0.27 (s, 9H); ¹³C{¹H} NMR (CDCl₃, 126 MHz): δ 148.1, 146.2, 139.8, 139.4, 135.4, 131.5, 129.4, 120.4, -1.4, -1.5; ²⁹Si{¹H} NMR (CDCl₃, 99 MHz): δ -2.3, -5.4; HRMS (APCI) *m/z*: [M+H]⁺ Calcd for C₁₄H₂₃Si₂SO₂ 311.0952; Found: 311.0956.

2. Copies of ¹H, ¹³C, ²⁹Si NMR, and HRMS Spectra for All New Compounds



Fig. S1. ¹H NMR spectrum of 2,5-bis(tri(9-decenyl)silyl)benzo[b]thiophene (C10BTC10) in CDCl₃.



Fig. S2. ¹³C NMR spectrum of 2,5-bis(tri(9-decenyl)silyl)benzo[b]thiophene (C10BTC10) in CDCl₃



Fig. S3. ²⁹Si NMR spectrum of 2,5-bis(tri(9-decenyl)silyl)benzo[b]thiophene (C10BTC10) in CDCl₃.



Fig. S4. HRMS spectrum of 2,5-bis(tri(9-decenyl)silyl)benzo[b]thiophene (**C10BTC10**) (APCI, positive). Top: obsd. Bottom: sim.



Fig. S5. ¹H NMR spectrum of 2,5-bis(tri(11-dodecenyl)silyl)benzo[b]thiophene (C12BTC12) in CDCl₃.



Fig. S6. ¹³C NMR spectrum of 2,5-bis(tri(11-dodecenyl)silyl)benzo[b]thiophene (C12BTC12) in CDCl₃.



Fig. S7. ²⁹Si NMR spectrum of 2,5-bis(tri(11-dodecenyl)silyl)benzo[b]thiophene (C12BTC12) in CDCl₃.



Fig. S8. HRMS spectrum of 2,5-bis(tri(11-dodecenyl)silyl)benzo[b]thiophene (C12BTC12) (APCI, positive). Top: obsd. Bottom: sim.



Fig. S10. ¹³C NMR spectrum of Molecular Gyrotop (C18BT) in CDCl₃.



Fig. S11. ²⁹Si NMR spectrum of Molecular Gyrotop (C18BT) in CDCl₃.



Fig. S12. HRMS spectrum of Molecular Gyrotop (C18BT) (APCI, positive). Top: obsd. Bottom: sim.



Fig. S13. ¹H NMR spectrum of Molecular Gyrotop Isomer (**C18iBT**) in CDCl₃. ^{190917C18BTiso}



Fig. S14. ¹³C NMR spectrum of Molecular Gyrotop Isomer (C18iBT) in CDCl₃.



Fig. S15. ²⁹Si NMR spectrum of Molecular Gyrotop Isomer (C18iBT) in CDCl₃.



Fig. S16. HRMS spectrum of Molecular Gyrotop Isomer (**C18iBT**) (APCI, positive). Top: obsd. Bottom: sim.



Fig. S17. ¹H NMR spectrum of Molecular Gyrotop (C22BT) in CDCl₃.



Fig. S18. ¹³C NMR spectrum of Molecular Gyrotop (C22BT) in CDCl₃.



Fig. S19. ²⁹Si NMR spectrum of Molecular Gyrotop (C22BT) in CDCl₃.



Fig. S20. HRMS spectrum of Molecular Gyrotop (C22BT) (APCI, positive). Top: obsd. Bottom: sim.



Fig. S21. ¹H NMR spectrum of Molecular Gyrotop Isomer (C22iBT) in CDCl₃.



Fig. S22. ¹³C NMR spectrum of Molecular Gyrotop Isomer (C22iBT) in CDCl₃.



Fig. S23. ²⁹Si NMR spectrum of Molecular Gyrotop Isomer (C22iBT) in CDCl₃.



Fig. S24. HRMS spectrum of Molecular Gyrotop Isomer (**C22iBT**) (APCI, positive). Top: obsd. Bottom: sim.





Fig. S26. ¹³C NMR spectrum of Molecular Gyrotop (C18BTO2) in CDCl₃.



Fig. S27. ²⁹Si NMR spectrum of Molecular Gyrotop (C18BTO2) in CDCl₃.



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Fig. S28. HRMS spectrum of Molecular Gyrotop (C18BTO2) (APCI, positive). Top: obsd. Bottom: sim.

Fig. S29. ¹H NMR spectrum of Molecular Gyrotop Isomer (C18iBTO2) in CDCl₃.



Fig. S30. ¹³C NMR spectrum of Molecular Gyrotop Isomer (C18iBTO2) in CDCl₃.



Fig. S31. ²⁹Si NMR spectrum of Molecular Gyrotop Isomer (C18iBTO2) in CDCl₃.



obsd. Bottom: sim.



Fig. S33. ¹H NMR spectrum of Molecular Gyrotop (C22BTO2) in CDCl₃.





Fig. S34. ¹³C NMR spectrum of Molecular Gyrotop (C22BTO2) in CDCl₃.

C22BTO2cage

Fig. S35. ²⁹Si NMR spectrum of Molecular Gyrotop (C22BTO2) in CDCl₃.



Fig. S36. HRMS spectrum of Molecular Gyrotop (**C22BTO2**) (APCI, positive). Top: obsd. Bottom: sim.



Fig. S37. ¹H NMR spectrum of Molecular Gyrotop Isomer (C22iBTO2) in CDCl₃.



Fig. S38. ¹³C NMR spectrum of Molecular Gyrotop Isomer (C22iBTO2) in CDCl₃.



Fig. S39. ²⁹Si NMR spectrum of Molecular Gyrotop Isomer (C22iBTO2) in CDCl₃.



Fig. S40. HRMS spectrum of Molecular Gyrotop Isomer (C22iBTO2) (ESI, positive). Top: obsd. Bottom: sim.



Fig. S41. ¹H NMR spectrum of 2,5-bis(trimethylsilyl)benzo[b]thiophene (TMSBT) in CDCl₃.



Fig. S42. ¹³C NMR spectrum of 2,5-bis(trimethylsilyl)benzo[b]thiophene (TMSBT) in CDCl₃.



Fig. S43. ²⁹Si NMR spectrum of 2,5-bis(trimethylsilyl)benzo[b]thiophene (TMSBT) in CDCl₃.



Fig. S44. HRMS spectrum of 2,5-bis(trimethylsilyl)benzo[*b*]thiophene (**TMSBT**) (APCI, positive). Top: obsd. Bottom: sim.



Fig. S45. ¹H NMR spectrum of 2,5-bis(trimethylsilyl)benzo[*b*]thiophene-1,1-dioxide (**TMSBTO2**) in CDCl₃.



Fig. S46. ¹³C NMR spectrum of 2,5-bis(trimethylsilyl)benzo[*b*]thiophene-1,1-dioxide (**TMSBTO2**) in CDCl₃.



Fig. S47. ²⁹Si NMR spectrum of 2,5-bis(trimethylsilyl)benzo[*b*]thiophene-1,1-dioxide (**TMSBTO2**) in CDCl₃.



Fig. S48. HRMS spectrum of 2,5-bis(trimethylsilyl)benzo[*b*]thiophene-1,1-dioxide (**TMSBTO2**) (APCI, positive). Top: obsd. Bottom: sim.

3. Details of X-Ray Diffraction Studies

a. Crystal Data

Table S1. Crystal Data for TMSBTO2

Compound		TMSBTO2		
CCDC #		2086633		
Temperature		100 K		
Empirical formula		C14 H22 O2 S Si2		
Crystal shape		prism		
Crystal color		colorless		
Crystal size		0.34 x 0.31 x 0.20 mm ³		
Formula weight / g mol	-1	310.55		
Crystal system		Monoclinic		
Space group		C 2/c		
Z		8		
Calculated density		1.218 Mg/m ³		
	а	22.436(15) Å		
	b	6.470(4) Å		
	С	23.601(15) Å		
Cell parameter	α	90°		
	β	98.711(9)°		
	γ	90°		
	V	3386(4) Å ³		
F(000)		1328		
Absorption coefficient		0.329 mm ⁻¹		
θ range for collection (deg)		3.280 to 27.482° (Mo)		
Index ranges		-28<=h<=28, -8<=k<=8, - 30<=l<=30		
Reflections collected		16276		
Independent reflections		3888 [R(int) = 0.0401]		
Completeness		99.9 %		
Goodness-of-fit on F ²		1.073		
Final R indices [I>2sigma(I)]		R1 = 0.0451, wR2 = 0.1166		
R indices (all data)		R1 = 0.0503, wR2 = 0.1209		
Largest diff. peak and hole		0.874 and -0.514 e.Å ⁻³		



Fig. S49. Structures of **TMSBTO2** determined by X-ray crystallography (Hydrogen atoms are omitted for clarity.): (a) ORTEP drawing (50% thermal ellipsoids); (b) crystal packing structure.

4. Details of Fluorescence Studies

a. General

Sample solutions for fluorescence studies were thoroughly degassed using several freezepump-thaw sequences. The quantum yields of the solutions were determined by comparison with the fluorescence intensity of naphthalene in hexane ($\Phi = 0.10$, ref Weber, G.; Teale, F. W. J. *Trans. Faraday Soc.* **1957**, *53*, 646.) under irradiation by 340 nm light. The absolute quantum yields of the powders were determined using a spectrometer equipped with an integrating sphere. Lifetimes were measured under irradiation by 340 nm light (LED) with a time-correlated single-photon counting apparatus.

(a) (b) ε / 10⁴•cm⁻¹•mol⁻¹•L ε / 10⁴•cm⁻¹•mol⁻¹•L 0 L 200 300 400 300 400 Wavelength / nm Wavelength / nm (C) (d) ε / 10⁴•cm⁻¹•mol⁻¹•L ε / 10⁴•cm⁻¹•mol⁻¹•L 0 L 200 0 200 300 400 300 400 Wavelength / nm Wavelength / nm (e) ε / 10⁴•cm⁻¹•mol⁻¹•L 3 0 └─ 200 300 400 Wavelength / nm

b. Absorption Spectra of SilylBTO2s in Various Solvents

Fig. S50. Absorption spectra of silylBTO2s in various solvents (hexane (purple line), toluene (blue line), AcOEt (green line), CH2Cl2 (orange line), and EtOH (red line)) : (a) C18BTO2, (b) C18iBTO2, and (c) C22BTO2, (d) C22iBTO2, (e) TMSBTO2 (as a control).



Fig. S51. Fluorescence and excited spectra of silylBTO2s in various solvents (hexane (purple line), toluene (blue line), AcOEt (green line), CH2Cl2 (orange line), and EtOH (red line)) : (a) C18BTO2, (b) C18iBTO2, and (c) C22BTO2, (d) C22iBTO2, (e) TMSBTO2 (as a control).

Solvent (F _{LM} (ɛ,n	y))	C181	BTO2	C18iI	BTO2	C22E	BTO2	C22il	BTO2	TMS	BTO2
Hexane	exa	Δν	318	1951	318	1711	318.5	4042	319	1050	317	1661
(0.00029)	flu ^b	с	376	4831	374.5	4/44	378	4942	377.5	4838	372	4004
Toluene	ex ^a	Δν	322.5	1066	322.5	4022	321.5	4005	322	1016	319	1752
(0.014)	flu ^b	c	_ 384 _	4900	383.5	4932	383	4995	383	4940	_ 376_	4752
AcOEt	exa	Δv	319.5	5121			319.5	5201	319.5	5257	317.5	5190
(0.20)	flu ^b	c	_ 382 _	5121		384.5	5291	384	5257	380	5160	
CH2Cl2	exa	Δν	322.5	5169	322	5216	322	5/15	322	5202	319	5500
(0.22)	flu ^b	c	_ 387 _	5108	388.5		390	5415	_ 389.5	5562	387	
EtOH	exa	Δv	322	5480	322	5516	322	5612	322	5611	319	5542
(0.29)	flu ^b	с	391	5480	392	5540	393.5	5045	393	5011	387.5	5542

Table S2. Fluorescence Parameters for Lippert-Mataga Plots of SilylBTO2

^a Excited band maxima (ex/nm), ^b Fluorescence band maxima (flu/nm), ^c Storks Shifts ($\Delta \nu$ /cm⁻¹).

Table S3. Fluorescence Quantum Yields Φ of SilylBTO2

Solvent (Δ <i>f</i>)	C18BTO2	C18iBTO2	C22BTO2	C22iBTO2	TMSBTO2
hexane	0.24	0.18	0.34	0.17	0.018
EtOH	0.26	0.20	0.24	0.17	0.031

 Table S4. Fluorescence Parameters for Bakhshiev Plots of SilylBTO2

		$\Delta v (= \Delta v_{abs} - \Delta v_{flu})$				
Solvent	$F_B(\varepsilon,n)^{\rm a}$	C18BTO2	C18iBTO2	C22BTO2	C22iBTO2	TMSBTO2
Hexane	0.0019	4851	4744	4942	4858	4664
Toluene	0.035	4966	4932	4995	4946	4752
AcOEt	0.492	5121	4963	5291	5257	5180
CH2Cl2	0.594	5168	5316	5415	5382	5508
EtOH	0.816	5480	5546	5643	5611	5542

^{a.} Bakhshiev solvent polarity function.

5. Details of DFT Calculations

All calculations were carried out using Gaussian 16 (Revision C.01) program packages^{S1} at the Research

Center for Computational Science, Okazaki, Japan

S1: Gaussian 16, Revision C.01,

M. J. Frisch, G. W. Trucks, H. B. Schlegel, G. E. Scuseria, M. A. Robb, J. R. Cheeseman, G. Scalmani, V. Barone, G. A. Petersson, H. Nakatsuji, X. Li, M. Caricato, A. V. Marenich, J. Bloino, B. G. Janesko, R. Gomperts, B. Mennucci, H. P. Hratchian, J. V. Ortiz, A. F. Izmaylov, J. L. Sonnenberg, D. Williams-Young, F. Ding, F. Lipparini, F. Egidi, J. Goings, B. Peng, A. Petrone, T. Henderson, D. Ranasinghe, V. G. Zakrzewski, J. Gao, N. Rega, G. Zheng, W. Liang, M. Hada, M. Ehara, K. Toyota, R. Fukuda, J. Hasegawa, M. Ishida, T. Nakajima, Y. Honda, O. Kitao, H. Nakai, T. Vreven, K. Throssell, J. A. Montgomery, Jr., J. E. Peralta, F. Ogliaro, M. J. Bearpark, J. J. Heyd, E. N. Brothers, K. N. Kudin, V. N. Staroverov, T. A. Keith, R. Kobayashi, J. Normand, K. Raghavachari, A. P. Rendell, J. C. Burant, S. S. Iyengar, J. Tomasi, M. Cossi, J. M. Millam, M. Klene, C. Adamo, R. Cammi, J. W. Ochterski, R. L. Martin, K. Morokuma, O. Farkas, J. B. Foresman, and D. J. Fox, Gaussian, Inc., Wallingford CT, 2019.

Table S5. Optimized Structural Coordinate and its Total Energy for **TMSBTO2** at B3LYP/6-31+G(d) level

total energy: = -1674.3820237 hartree (NImag = 0)

Atomic Type	Coordinates (Angstrom X Y	ns) Z
si,0,3.55613028,	-1.5834239922,-1	.3505477041
Si,0,-3.82453186	3,0.2988866642,2	.1959485412
s,0,1.6710690828	,1.0683938931,-1	.1499883812
0,0,1.4563521554	,1.2451570449,-2	.5988772119
0,0,2.6540656068	,1.9345700533,-0	.4716527732
C,0,3.6029614899	,-1.5495969383,-	3.2363984811
C,0,3.4244974434	,-3.3595807116,-	0.7118479455
C,0,1.9907128277	,-0.678550264,-0	.7635839953
C,0,0.096479834,	1.0841303093,-0.	2689398817
C,0,-0.791815956	9,2.1306149894,-	0.1100164178
C,0,0.9551049372	,-1.1382496265,-	0.0315096302
C,0,5.0647431531	,-0.7171094785,-	0.6200775093
C,0,-0.130286761	,-0.1864785978,0	.2709566803
C,0,-1.961650052	4,1.8827626594,0	.6274690812
C,0,-1.297840575	7,-0.4116610008,	1.0002496567
C,0,-2.238590679	8,0.623669038,1.	1926417708
C,0,-4.911014737	5,1.8471804055,2	.1948032157
C,0,-4.760838192	3,-1.1455804097,	1.4058472084
C,0,-3.342832758	7,-0.1493958587,	3.9720158112
н,0,2.740483701,	-2.0727115528,-3	.6665530169
н,0,4.5141109043	,-2.0369628283,-	3.6071882882
н,0,3.586406765,	-0.5223548583,-3	.6176231128
н,0,2.5425316619	,-3.8755927179,-	1.1109489206
н,0,4.3071371784	,-3.9332049649,-	1.0230383226
н,0,3.3783861049	,-3.400407283,0.	3834299479
н,0,-0.595888725	5,3.1094536347,-	0.5387254009
н,0,5.9892494133	,-1.1963917687,-	0.9676287377
н,0,0.9012841942	,-2.1626227824,0	.3306849391
н,0,5.0978601314	,0.3389111632,-0	.9108705217
H,0,-2.667297047	,2.699280208,0.7	572862103
н,0,-5.209841834	2,2.139890787,1.	1805711036
н,0,5.0552444849	,-0.7553222178,0	.4758291798
н,0,-5.049846031	9,-0.9166161183,	0.3726945111
н,0,-1.474195276	4,-1.4012952283,	1.4197276742
н,0,-4.409265685	4,2.7049646294,2	.6596631464
н,0,-5.830194915	1,1.660093268,2.	7646788161
н,0,-4.156246373	,-2.0610083073,1	.3842805781
н,0,-5.676960165	2,-1.3704381366,	1.9672053118
н,0,-2.793835921	4,0.668269708,4.	4550968068



H, 0, -2.7043842667, -1.0411307923, 4.007145202 H, 0, -4.2338935305, -0.3579720206, 4.5782908601

Calculated Onsagar radius:

Molar volume = 3080.385 bohr**3/mol (274.890 cm**3/mol) Recommended a0 for SCRF calculation = 5.76 angstrom (10.88 bohr)

Table S6. Optimized Structural Coordinate and its Total Energy for C18BTO2 at B3LYP/6-31G(d) level

total energy: = -3557.7721165 hartree (NImag = 0)

AtomicCoordinates (Angstroms)TypeXYZC.0,-2.5203512351,-8.3774379728,-5.4426416059C.0,-3.727583408,-9.1969406397,-4.9511304158C.0,5.8566529657,1.6583584528,-5.9302386248C,0,-1.3389866966,-6.1090138213,-5.5797019762C,0,-2.491989002,-6.914180451,-4.9783881442C,0,3.7435792975,0.2054965007,-5.9293654007C,0,-2.091989002,-6.914180451,-4.9783881442C,0,-1.018238518,-1.1622937501,-4.8619814266C,0,1.7276081294,-1.386433188,-5.8176374659C,0,6.6226219284,2.8544242565,-5.3387575285C,0,-2.5607279527,1.0963822333,-4.7719651495C,0,4.5011789378,1.3666325041,-5.2703789755C,0,-1.216402193,-4.6883405034,-5.0097751612C,0,-2.727522311,0.35075559,-4.5744358524C,0,2.4813494594,-0.2134991483,-5.1607411892C,0,-3.8665336096,0.6766500781,-3.8171344269C,0,-3.8665336096,0.6766500781,-3.8171344269C,0,-3.911544626,-9.2756090166,-3.4246159236C,0,-906177558,-2.509481005,-3.0558325957C,0,-9066177558,-2.509481005,-3.0558325957C,0,-9066177558,-2.509481005,-3.0558325957C,0,-20617729925,-10.0915483498,-1.1621456591C,0,8.0445752484,3.798676402,-1.7838365075C,0,2.5329439555,-36502897826,-1.60240414C,0,-7.2071857081,0.7629530134,-0.8425375012C,0,6.9001433184,4.5441596478,-1.0758878404C,0,7.30712972,-2.239482972,-0.6352618341C,0,7.30712972,-2.239482972,-0.6352618341C,0,7.30764991,-1.7529200894,0.6705057226C,0,6.8249953076,4.321776284,0.4449835153C,0,7.136232682,2.41123621627,2.659104613C,0,7.3645489205,2.877878172,2.353		
TypeXYZC,0,-2.5203512351,-8.3774379728,-5.4426416059C,0,-3.727583408,-9.1969406397,-4.9511304158C,0,5.8566529657,1.6583584528,-5.9302386248C,0,-1.3389866966,-6.1090138213,-5.5797019762C,0,-2.4991989002,-6.914180451,-4.9783881442C,0,3.7435792975,0.2054965007,-5.923654007C,0,-0.0576118507,-3.8803815607,-5.6303243344C,0,-1.3018238518,-1.1622937501,-4.8619814266C,0,1.7276081294,-1.3868433188,-5.8176374659C,0,6.6226219284,2.8544242565,-5.3387575285C,0,-2.560729527,1.0963822333,-4.7719651495C,0,-1.2136402193,-4.6883405034,-5.0097751612C,0,-2.12136402193,-4.6883405034,-5.0097751612C,0,-2.12136402193,-4.688340534,-5.0097751612C,0,-2.4813494594,-0.2134991483,-5.1607411892C,0,-3.911544626,-9.2756090166,-3.4246159236C,0,-6.1712145425,1.0046052996,-3.1740914029C,0,6.9262736105,2.734787479,-3.8382202957C,0,7.9121922856,3.7927361774,-3.3187487012C,0,2.7237393658,-9.8897937823,-2.6688480655C,0,0.9066177558,-2.509481005,-3.0558325957C,0,-6.0031927665,1.2421617847,-1.666927629C,0,2.2017729925,-10.0915483498,-1.1621456591C,0,8.0445752484,3.7986576402,-1.788365075C,0,2.901733184,4.5441596478,-1.0758878404C,0,-3.216771658,-8.955763012,-0.3840126335C,0,1.930712972,-2.239482972,-0.6352618341C,0,-7.050946413,0,9510865106,0.6762483796C,0,6.8249953076,4.3217762884,0.4449835153C,0,-7.168222682,2.4112362192,1.1482260533C,0,-3.678367226,-7.711427313,1.8915721C,0,0.90645482227,-2.77987819,1.76904007111C,0,-5.46845	Atomic	Coordinates (Angstroms)
C,0,-2.5203512351,-8.3774379728,-5.4426416059 C,0,-3.727583408,-9.1969406397,-4.9511304158 C,0,-1.3389866966,-6.1090138213,-5.5797019762 C,0,-2.4991989002,-6.914180451,-4.9783881442 C,0,3.7435792975,0.2054965007,-5.9293654007 C,0,-0.0576118507,-3.8803815607,-5.6303243344 C,0,-1.3018238518,-1.1622937501,-4.8619814266 C,0,1.7276081294,-1.3868433188,-5.8176374659 C,0,6.6226219284,2.8544242565,-5.3387575285 C,0,-2.5607279527,1.0963822333,-4.7719651495 C,0,4.5011789378,1.3666325041,-5.2703789755 C,0,-1.2136402193,-4.6883405034,-5.0097751612 C,0,-1.275222311,0.350755569,-4.5744358524 C,0,2.4813494594,-0.2134991483,-5.1607411892 C,0,-4.9843806368,1.4692141097,-4.035038249 C,0,-3.911544626,-9.275609016,-3.4246159236 C,0,-6.1712145425,1.0046052996,-3.1740914029 C,0,6.9262736105,2.734787479,-3.8382202957 C,0,7.9121922856,3.7927361774,-3.3187487012 C,0,-2.7237393658,-9.8897937823,-2.6688480655 C,0,0.9066177558,-2.509481005,-3.0558325957 C,0,-6.0031927665,1.2421617847,-1.666927629 C,0,2.9617725925,-10.0915483498,-1.1621456591 C,0,8.0445752484,3.7986576402,-1.783856075 C,0,2.5329439555,-3.6502897826,-1.602420414 C,0,-7.2071857081,0.7629530134,-0.8425375012 C,0,6.9001433184,4.5441596478,-1.0758878404 C,0,-3.2416771656,-8.7975763012,-0.3840126335 C,0,1.9886629249,-3.0861244452,-0.511598273 C,0,0.7930712972,-2.39482972,-0.6352618341 C,0,-7.050946413,0.9510865106,0.6762483796 C,0,6.8249953076,4.3217762844,0.4449835153 C,0,-7.362322682,2.4112362192,1.1482220633 C,0,-3.2684899025,-8.9854694642,1.138887989 C,0,6.2781606136,2.942965318,0.84267788141 C,0,0.3037640981,-1.7529200894,0.6705057226 C,0,-3.6753567226,-7.711427313,1.8915721 C,0,0.964548227,-2.1729878919,1.76904007111 C,0,-6.9142548571,2.6003216627,2.659104613 C,0,-5.46459926,-4.2105071673,1.91865094 C,0,-3.5817046452,-2.717287887172,.2353224254 C,0,5.4167658685,1.4216324223,2.7081578922 C,0,-5.4568459486,2.42105071673,1.91865094 C,0,-3.5817046452,-2.517839225,3.8779841276 C,0,-1.5849464527,-2.57983715,3.4187195244 C,0,-5.404612707,2.5964770072,4.6222186177 C,0,-2.135293035	Type	x v z 7
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C, 0, 3, 1435 1929 / 5, 0, 205496500 , -5, 929365400 / C, 0, -0.0576118507, -3.8803815607, -5.6303243344 C, 0, -1.3018238518, -1.1622937501, -4.8619814266 C, 0, 1.7276081294, -1.3868433188, -5.8176374659 C, 0, 6.6226219284, 2.8544242565, -5.3387575285 C, 0, -2.5607279527, 1.0963822333, -4.7719651495 C, 0, 4.5011789378, 1.3666325041, -5.2703789755 C, 0, -1.2136402193, -4.6883405034, -5.0097751612 C, 0, -1.2275222311, 0.350755569, -4.5744358524 C, 0, 2.4813494594, -0.2134991483, -5.1607411892 C, 0, -4.9843806368, 1.4692141097, -4.035038249 C, 0, -3.6865336096, 0.6766500781, -3.8171344269 C, 0, -3.911544626, -9.2756090166, -3.4246159236 C, 0, -6.1712145425, 1.0046052996, -3.1740914029 C, 0, 6.9262736105, 2.734787479, -3.8382202957 C, 0, 7.9121922856, 3.7927361774, -3.3187487012 C, 0, -2.021922856, 3.7927361774, -3.3187487012 C, 0, -2.037393658, -9.8897937823, -2.6688480655 C, 0, 0.9066177558, -2.509481005, -3.0558325957 C, 0, -6.107129925, -10.0915483498, -1.1621456591 C, 0, 2.0445752484, 3.7986576402, -1.7838365075 C, 0, 2.329439555, -3.6502897826, -1.602420414 C, 0, -7.2071857081, 0.7629530134, -0.8425375012 C, 0, 6.9001433184, 4.5441596478, -1.0758878404 C, 0, -3.2416771656, -8.7975763012, -0.3840126335 C, 0, 1.8986629249, -3.0861244452, -0.511598273 C, 0, 0.7930712972, -2.239482972, -0.6352618341 C, 0, -7.050946413, 0.9510865106, 0.6762483796 C, 0, 6.8249953076, 4.3217762884, 0.4449835153 C, 0, -3.2684899025, -8.9854694642, 1.138887989 C, 0, 6.2781606136, 2.9429659138, 0.8426788141 C, 0, 0.3037640981, -1.7529200894, 0.6705057226 C, 0, -3.6735567226, -7.7114273131, 1.8915721 C, 0, 0.9645482227, -2.1729878919, 1.7690400711 C, 0, -6.9142548571, 2.6003216627, 2.659104613 C, 0, 6.810949448, 2.7588878172, 2.3533224254 C, 0, 5.4166765865, 1.4216324223, 2.7081578922 C, 0, -5.4568459486, 2.4210507167, 3.101865094 C, 0, -3.5811704347, -7.8382605731, 3.4187195324 C, 0, -3.6072168151, -5.2688392525, 3.8779841276 C, 0, -1.5849464529, -3.7054991578, 3.858939588 C, 0, -4.193536862, -6.65632503, 4.1932167149 C, 0, -5.26446127	C,0,-2.4771787002,-0.	54965997,5999654997
C,0,-0.0576118507,-3.8803815607,-5.6303243344 C,0,-1.3018238518,-1.1622937501,-4.8619814266 C,0,1.7276081294,-1.3868433188,-5.8176374659 C,0,6.6226119284,2.8544242565,-5.3387575285 C,0,-2.5607279527,1.0963822333,-4.7719651495 C,0,4.5011789378,1.3666325041,-5.2703789755 C,0,-1.2136402193,-4.6883405034,-5.0097751612 C,0,-1.2275222311,0.350755569,-4.5744358524 C,0,2.4813494594,-0.2134991483,-5.1607411892 C,0,-4.9843806368,1.4692141097,-4.035038249 C,0,-3.6865336096,0.6766500781,-3.8171344269 C,0,-3.911544626,-9.2756090166,-3.4246159236 C,0,-6.1712145425,1.0046052996,-3.1740914029 C,0,6.9262736105,2.734787479,-3.8382202957 C,0,7.9121922856,3.7927361774,-3.3187487012 C,0,-2.7237393658,-9.8897937823,-2.668480655 C,0,0.9066177558,-2.509481005,-3.0558325957 C,0,-6.0031927665,1.2421617847,-1.666927629 C,0,-2.9617729925,-10.0915483498,-1.1621456591 C,0,8.0445752484,3.7986576402,-1.7838365075 C,0,2.5329439555,-3.6502897826,-1.602420414 C,0,-7.2071857081,0.7629530134,-0.8425375012 C,0,6.9001433184,4.5441596478,-1.0758878404 C,0,-3.2416771656,-8.7975763012,-0.3840126335 C,0,1.8986629249,-3.0861244452,-0.511598273 C,0,0.7930712972,-2.239482972,-0.6352618341 C,0,-7.050946413,0.9510865106,0.6762483796 C,0,6.8249953076,4.3217762884,0.4449835153 C,0,-7.36232682,2.4112362192,1.1482220633 C,0,-3.264899025,-8.9854694642,1.138887989 C,0,6.2781606136,2.9429659138,0.8426788141 C,0,0.3037640981,-1.7529200894,0.6705057226 C,0,-3.6753567226,-7.711427313,1.8915721 C,0,09645482227,-2.1729878919,1.7690400711 C,0,-6.9142548571,2.6003216627,2.659104613 C,0,6.810049448,2.758878172,2.3533224254 C,0,5.4167658685,1.4216324223,2.7081578922 C,0,-5.4568459486,2.4210507167,3.1091865094 C,0,-3.5811704347,-7.8382605731,3.4187195324 C,0,-3.6072168151,-5.2688392525,3.8779841276 C,0,-1.5849464529,-3.7054991578,3.858939588 C,0,-4.193536862,-6.65632503,4.1932167149 C,0,5.1273559936,1.2517813559,4.2062510079 C,0,3.045729324,-0.2589215126,3.9723464041 C,0,-5.2644612707,2.5964770072,4.6222186177 C,0,-2.1352930351,-5.0792646701,4.2708011464	C,0,3.7435792975,0.20	054965007,-5.9293654007
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C,0,1.7276081294,21.3868435188,5.8176574659 C,0,6.6226219284,2.8544242565,-5.3387575285 C,0,-2.5607279527,1.0963822333,-4.7719651495 C,0,4.5011789378,1.3666325041,-5.2703789755 C,0,-1.2136402193,-4.6883405034,-5.0097751612 C,0,-1.2275222311,0.350755569,-4.5744358524 C,0,2.4813494594,-0.2134991483,-5.1607411892 C,0,-4.9843806368,1.4692141097,-4.035038249 C,0,-3.6865336096,0.6766500781,-3.8171344269 C,0,-3.911544626,-9.2756090166,-3.4246159236 C,0,-6.1712145425,1.0046052996,-3.1740914029 C,0,6.9262736105,2.734787479,-3.8382202957 C,0,7.9121922856,3.7927361774,-3.3187487012 C,0,-2.7237393658,-9.8897937823,-2.6688480655 C,0,0.9066177558,-2.509481005,-3.0558325957 C,0,-2.0610712925,-10.0915483498,-1.1621456591 C,0,2.0617729925,-10.0915483498,-1.1621456591 C,0,2.0617729925,-10.0915483498,-1.1621456591 C,0,2.01729925,-10.0915483498,-1.1621456591 C,0,2.0217857081,0.7629530134,-0.8425375012 C,0,6.9001433184,4.5441596478,-1.0758878404 C,0,-3.2416771656,-8.7975763012,-0.3840126335 C,0,1.8986629249,-3.0861244452,-0.511598273 C,0,0.7930712972,-2.239482972,-0.6352618341 C,0,-7.050946413,0.9510865106,0.6762483796 C,0,6.8249953076,4.3217762884,0.4449835153 C,0,7.1362322682,2.4112362192,1.1482220633 C,0,-3.2684899025,-8.9854694642,1.1388887989 C,0,6.2781606136,2.9429659138,0.8426788141 C,0,0.3037640981,-1.7529200894,0.6705057226 C,0,-3.6753567226,-7.711427313,1.8915721 C,0,0.9645482227,-2.1729878919,1.7609400711 C,0,-6.9142548571,2.6003216627,2.659104613 C,0,5.4167658685,1.4216324223,2.7081578922 C,0,-5.4568459486,2.4210507167,3.1091865094 C,0,-3.5811704347,-7.8382605731,3.4187195324 C,0,-3.6072168151,-5.2688392525,3.8779841276 C,0,-1.584946529,-3.7054991578,3.85893588 C,0,-4.193536662,-6.65632503,4.1932167149 C,0,5.1273559936,1.2517813559,4.2062510079 C,0,3.045729324,-0.2589215126,3,723464041 C,0,-5.2644612707,2.5964770072,4.6222186177 C,0,-2.1352930351,-5.0792646770072,4.622186177	C 0 1 727(001204 1 1	1022937501, -4.0019014200
C,0,6.6226219284,2.8544242565,-5.3387575285 C,0,-2.5607279527,1.0963822333,-4.7719651495 C,0,4.5011789378,1.3666325041,-5.2703789755 C,0,-1.2136402193,-4.6883405034,-5.0097751612 C,0,-1.2275222311,0.350755569,-4.5744358524 C,0,2.4813494594,-0.2134991483,-5.1607411892 C,0,-4.9843806368,1.4692141097,-4.035038249 C,0,-3.6865336096,0.6766500781,-3.8171344269 C,0,-3.911544626,-9.2756090166,-3.4246159236 C,0,-6.1712145425,1.0046052996,-3.1740914029 C,0,6.9262736105,2.734787479,-3.8382202957 C,0,7.9121922856,3.7927361774,-3.3187487012 C,0,-2.7237393658,-9.8897937823,-2.6688480655 C,0,0.9066177558,-2.509481005,-3.0558325957 C,0,-6.0031927665,1.2421617847,-1.666927629 C,0,-2.9617729925,-10.0915483498,-1.1621456591 C,0,8.0445752484,3.7986576402,-1.7838365075 C,0,2.5329439555,-3.6502897826,-1.602420414 C,0,-7.2071857081,0.7629530134,-0.8425375012 C,0,6.9001433184,4.5441596478,-1.0758878404 C,0,-3.2416771656,-8.7975763012,-0.3840126335 C,0,1.8986629249,-3.0861244452,-0.511598273 C,0,0.7930712972,-2.239482972,-0.6352618341 C,0,-7.050946413,0.9510865106,0.6762483796 C,0,6.8249953076,4.3217762884,0.4449835153 C,0,-7.1362322682,2.4112362192,1.1482220633 C,0,-3.2684899025,-8.9854694642,1.1388887989 C,0,6.2781606136,2.9429659138,0.8426788141 C,0,-7.050946413,0.9510865106,0.675057226 C,0,-3.6753567226,-7.711427313,1.8915721 C,0,0.9645482227,-2.1729878919,1.7690400711 C,0,-6.9142548571,2.6003216627,2.659104613 C,0,6.810049448,2.7588878172,2.533224254 C,0,5.416758685,1.4216324223,2.7081578922 C,0,-5.4568459486,2.4210507167,3.1091865094 C,0,-3.5811704347,-7.8382605731,3.4187195324 C,0,-3.6072168151,-5.268839255,3.8779841276 C,0,-3.6072168151,-5.268839255,3.8779841276 C,0,-1.5849464529,-3.7054991578,3.85893588 C,0,-4.193536662,-6.65632503,4.1932167149 C,0,5.1273559936,1.2517813559,4.2062510079 C,0,3.045729324,-0.2589215126,3,972346041 C,0,-5.2644612707,2.5964770072,4.6222186177 C,0,-2.1352930351,-5.0792646770072,4.6222186177	C,0,1./2/6081294,-1.3	3868433188,-3.81/63/4659
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$\begin{array}{l} C,0,-3.6753567226,-7.711427313,1.8915721\\ C,0,0.9645482227,-2.1729878919,1.7690400711\\ C,0,-6.9142548571,2.6003216627,2.659104613\\ C,0,6.0810049448,2.7588878172,2.3533224254\\ C,0,5.4167658685,1.4216324223,2.7081578922\\ C,0,-5.4568459486,2.4210507167,3.1091865094\\ C,0,-3.5811704347,-7.8382605731,3.4187195324\\ C,0,-3.6072168151,-5.2688392525,3.8779841276\\ C,0,-1.5849464529,-3.7054991578,3.858939588\\ C,0,-4.1935368662,-6.65632503,4.1932167149\\ C,0,5.1273559936,1.2517813559,4.2062510079\\ C,0,3.045729324,-0.2589215126,3.9723464041\\ C,0,-5.2644612707,2.5964770072,4.6222186177\\ C,0,-2.1352930351,-5.0792646701,4.2708011464 \end{array}$	C,0,0.3037640981,-1.7	7529200894,0.6705057226
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C,0,-6.9142548571,2.6003216627,2.659104613 C,0,6.0810049448,2.7588878172,2.3533224254 C,0,5.4167658685,1.4216324223,2.7081578922 C,0,-5.4568459486,2.4210507167,3.1091865094 C,0,-3.5811704347,-7.8382605731,3.4187195324 C,0,-3.6072168151,-5.2688392525,3.8779841276 C,0,-1.5849464529,-3.7054991578,3.858939588 C,0,-4.1935368662,-6.65632503,4.1932167149 C,0,5.1273559936,1.2517813559,4.2062510079 C,0,3.045729324,-0.2589215126,3.9723464041 C,0,-5.2644612707,2.5964770072,4.6222186177 C,0,-2.1352930351,-5.0792646701,4.2708011464	C = 0.0645482227 + 2.1	720878010 1 7600400711
C,0,-6.9142548571,2.6003216627,2.659104613 C,0,6.0810049448,2.7588878172,2.3533224254 C,0,5.4167658685,1.4216324223,2.7081578922 C,0,-5.4568459486,2.4210507167,3.1091865094 C,0,-3.5811704347,-7.8382605731,3.4187195324 C,0,-3.6072168151,-5.2688392525,3.8779841276 C,0,-1.5849464529,-3.7054991578,3.858939588 C,0,-4.1935368662,-6.65632503,4.1932167149 C,0,5.1273559936,1.2517813559,4.2062510079 C,0,3.045729324,-0.2589215126,3.9723464041 C,0,-5.2644612707,2.5964770072,4.6222186177 C,0,-2.1352930351,-5.0792646701,4.2708011464	C,0,0.9043482227,-2.1	1/298/8919,1./090400/11
C,0,6.0810049448,2.7588878172,2.3533224254 C,0,5.4167658685,1.4216324223,2.7081578922 C,0,-5.4568459486,2.4210507167,3.1091865094 C,0,-3.5811704347,-7.8382605731,3.4187195324 C,0,-3.6072168151,-5.2688392525,3.8779841276 C,0,-1.5849464529,-3.7054991578,3.858939588 C,0,-4.1935368662,-6.65632503,4.1932167149 C,0,5.1273559936,1.2517813559,4.2062510079 C,0,3.045729324,-0.2589215126,3.9723464041 C,0,-5.2644612707,2.5964770072,4.6222186177 C,0,-2.1352930351,-5.0792646701,4.2708011464	C,0,-6.9142548571,2.6	003216627,2.659104613
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C,0,-3.5811704347,-7.8382605731,3.4187195324 C,0,-3.6072168151,-5.2688392525,3.8779841276 C,0,-1.5849464529,-3.7054991578,3.858939588 C,0,-4.1935368662,-6.65632503,4.1932167149 C,0,5.1273559936,1.2517813559,4.2062510079 C,0,3.045729324,-0.2589215126,3.9723464041 C,0,-5.2644612707,2.5964770072,4.6222186177 C,0,-2.1352930351,-5.0792646701,4.2708011464	C,0,-5.4568459486,2.4	121050/16/,3.1091865094
C,0,-3.6072168151,-5.2688392525,3.8779841276 C,0,-1.5849464529,-3.7054991578,3.858939588 C,0,-4.1935368662,-6.65632503,4.1932167149 C,0,5.1273559936,1.2517813559,4.2062510079 C,0,3.045729324,-0.2589215126,3.9723464041 C,0,-5.2644612707,2.5964770072,4.6222186177 C,0,-2.1352930351,-5.0792646701,4.2708011464	C,0,-3.5811704347,-7.	8382605731,3.4187195324
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C,0,-4.1935368662,-6.65632503,4.1932167149 C,0,5.1273559936,1.2517813559,4.2062510079 C,0,3.045729324,-0.2589215126,3.9723464041 C,0,-5.2644612707,2.5964770072,4.6222186177 C,0,-2.1352930351,-5.0792646701,4.2708011464	$C = 1.5840464520^{-2}$	7054001578 3 859020599
C,0,-4.1935368662,-6.65632503,4.1932167149 C,0,5.1273559936,1.2517813559,4.2062510079 C,0,3.045729324,-0.2589215126,3.9723464041 C,0,-5.2644612707,2.5964770072,4.6222186177 C,0,-2.1352930351,-5.0792646701,4.2708011464	0,0,-1.30+9404329,-3.	(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
C,0,5.1273559936,1.2517813559,4.2062510079 C,0,3.045729324,-0.2589215126,3.9723464041 C,0,-5.2644612707,2.5964770072,4.6222186177 C,0,-2.1352930351,-5.0792646701,4.2708011464	C,0,-4.1935368662,-6.	65632503,4.1932167149
C,0,3.045729324,-0.2589215126,3.9723464041 C,0,-5.2644612707,2.5964770072,4.6222186177 C,0,-2.1352930351,-5.0792646701,4.2708011464	C,0,5.1273559936.1.2	517813559,4.2062510079
C,0,-5.2644612707,2.5964770072,4.6222186177 C,0,-2.1352930351,-5.0792646701,4.2708011464	C 0 3 045729324 -0 25	89215126 3 9723464041
C,0,-5.2644612707,2.596477072,4.6222186177 C,0,-2.1352930351,-5.0792646701,4.2708011464	0, 0, 5, 0, 0, 12, 0, 23, -0, 23	(120, 2.5) = 20, 20, 3.5 = 20, 20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1
C,0,-2.1352930351,-5.0792646701,4.2708011464	0,0,-5.2644612/0/,2.5	9904//00/2,4.02221861//
	C,0,-2.1352930351,-5.	0792646701,4.2708011464

C.0.-0.4919123305.-0.3674588608.3.7743533027 C,0,-0.1365310735,-3.4526271355,4.318283254 C,0,4.4462271965,-0.0772983878,4.5781042682 C.0.2.3388336216,-1.5457042274,4.4414606119 C,0,-3.7985175841,2.5987625967,5.0861269501 C,0,-3.0393481655,1.2841069657,4.8526063938 C,0,-0.8053557839,0.0218167731,5.2355127576 C,0,-1.6059099751,1.3264146832,5.3987271185 O,0,3.6242766251,-2.6456359589,1.5025698174 O,0,2.0696881863,-4.6386694975,1.6946017657 Si,0,0.3012985645,-2.1868519374,-4.836635723 Si,0,0.6590841142,-1.8731248009,3.6250625594 C,0,0.2972882089,-1.9577868163,-1.9104911433 S.0.2.3122042254,-3.260576177,1.2301219445 C,0,2.0232179333,-3.3499678421,-2.8715213227 H,0,-2.5114342193,-8.4032376329,-6.5418053386 H,0,-1.5875700869,-8.8646953032,-5.1263025198 H,0,-3.6407076792,-10.2170478053,-5.3521182164 H,0,-4.6433989635,-8.7756156361,-5.3902854342 H,0,5.7037766273,1.8312158475,-7.0052976132 H,0,6.4865089271,0.7592127659,-5.8548830859 H,0,-1.4554942345,-6.0571540238,-6.6724315235 H,0,-0.3952126321,-6.6459169456,-5.401334476 H,0,-3.4533195972,-6.4312837939,-5.2386507481 H,0,-2.4281997363,-6.8748260536,-3.8824450004 H,0,3.4766759526,0.4760405091,-6.9617653421 H,0,4.4135690297,-0.6640221861,-6.0081369605 H,0,-0.2471557411,-3.728420093,-6.7039478046 H,0,0.86645351,-4.4766298648,-5.5813489307 H,0,-1.7296856212,-1.3076332731,-5.8669592249 H,0,-2.0158538147,-1.642913006,-4.1785064616 H,0,1.3427722873,-1.0794171512,-6.8019330711 H,0,2.44704867,-2.1927291164,-6.0323401597 H,0,7.5677579617,2.9684019584,-5.8890840253 H,0,6.0549343996,3.7796254328,-5.5181974726 H.0.-2.8968871574.0.9553661141.-5.8102674351 H,0,-2.3804374294,2.174874022,-4.6553794091 H,0,3.8767731377,2.2726781729,-5.2940379386 H,0,4.6537085704,1.1301314055,-4.2085918556 H,0,-2.1620248804,-4.1528919001,-5.1603030548 H,0,-1.0749675372,-4.7581896045,-3.9213334701 H,0,-0.4799623566,0.808610166,-5.2347978215 H,0,-0.8663800145,0.5244785328,-3.5503605871 H,0,1.8134706774,0.6530957369,-5.0610139729 H,0,2.7709763566,-0.4881655032,-4.1372885135 H,0,-5.2673859163,1.391401499,-5.0945241382 H,0,-4.7951623722,2.5372540584,-3.8503731935 H,0,-3.9031584997,-0.3934656673,-3.9431145573 H.0.-3.33990084.0.799854972.-2.7811151672 H,0,-4.1209910162,-8.2725650502,-3.0318330112 H,0,-4.8116919879,-9.8722468213,-3.2159463272 H,0,-7.0788635986,1.5236459892,-3.5134672575 H,0,-6.3500688751,-0.0660771488,-3.3551836563 H,0,7.3397219936,1.7366244486,-3.6278185427 H,0,5.988875743,2.7977018338,-3.2704467906 H,0,7.5994896319,4.7911969972,-3.659992835 H,0,8.8947635169,3.6115084122,-3.7759278297 H,0,-2.4766049978,-10.8609418522,-3.1221510158 H,0,-1.8337737713,-9.2584361985,-2.8016309933 H,0,-5.8288928771,2.3134940037,-1.4938560496 H,0,-5.1036689402,0.7246197979,-1.3048179103 H,0,-3.7986739876,-10.7903448592,-1.0140903468 H,0,-2.077204952,-10.5821301869,-0.731345667 H,0,8.9959268065,4.2658001257,-1.494211813 H,0,8.0982258181,2.7596565113,-1.4297661142 H,0,3.3932266322,-4.301880589,-1.4813088861 H,0,-8.1159161296,1.2812681923,-1.183723938 H,0,-7.3707135645,-0.3036114646,-1.0528339819 H,0,5.9360847022,4.252586801,-1.5173544686

H.0.7.0112903751.5.6179664688.-1.282308546 H,0,-4.2013827269,-8.3712545908,-0.7073910889 H,0,-2.4757985326,-8.0486994603,-0.6374906378 H,0,-6.0953205124,0.5076839359,0.9899363395 H,0,-7.833967437,0.3760718893,1.1907972815 H,0,7.8189570269,4.4730706535,0.8919711242 H,0,6.1755978594,5.0928705981,0.8835010462 H,0,-6.4077206591,3.0284281234,0.603841862 H,0,-8.1270504222,2.8036659277,0.8783718191 H,0,-3.9637934224,-9.797823898,1.3982376639 H,0,-2.2760470687,-9.3144212424,1.4808068698 H,0,6.9391255679,2.1499008151,0.4663051061 H,0,5.3107841625,2.7923125346,0.339780697 H,0,-0.5536556173,-1.0856346413,0.7192072246 H,0,-3.0429307737,-6.8803276287,1.5497467414 H,0,-4.7055379155,-7.4434130472,1.610869771 H,0,-7.2462705769,3.608060345,2.9461751592 H,0,-7.5586973622,1.9005261504,3.2122647431 H,0,7.0497341534,2.8424370293,2.8680059776 H,0,5.4610157619,3.5827959075,2.7383736304 H,0,6.0515956353,0.591708613,2.3646523171 H,0,4.4809576769,1.3377512475,2.1395152937 H,0,-4.8286942639,3.1527848943,2.5780006538 H,0,-5.094132624,1.4309805256,2.8049786948 H,0,-4.0965840412,-8.7568977529,3.7339830616 H,0,-2.5289672383,-7.9736410123,3.7049413011 H,0,-3.725085025,-5.0554174375,2.8063435263 H,0,-4.2098870732,-4.5110426184,4.3991815551 H,0,-1.6474196487,-3.6217505119,2.7641025007 H,0,-2.2421487775,-2.9200933956,4.260240959 H,0,-5.2735311673,-6.6294913041,3.9880638396 H,0,-4.0949109024,-6.8499420742,5.2710601597 H,0,6.0706976256,1.336460157,4.7646989729 H,0,4.4974557739,2.0872312109,4.548785492 H,0,3.1274592187,-0.2775226866,2.8798064728 H.0.2.4306672898.0.6174838664.4.2269877325 H,0,-5.7288899414,3.5442987648,4.9302386575 H,0,-5.8141410392,1.8043351463,5.1522441303 H,0,-1.5135960722,-5.8581110722,3.8087830533 H,0,-2.0284591071,-5.2080521186,5.3583217665 H,0,-1.4244673604,-0.5682743289,3.2297813602 H,0,-0.0192484342,0.484329585,3.2639420487 H,0,0.5004411917,-4.2947606478,4.0143151468 H,0,-0.0943444383,-3.4191050675,5.4169581678 H,0,5.0804060151,-0.9169629043,4.2599995537 H,0,4.3732086685,-0.1438170061,5.6733995683 H,0,2.989484808,-2.4087202185,4.2450944892 H,0,2.1961496648,-1.5202076508,5.5322676559 H.0.-3.2632477033,3.4170564542,4.5812545623 H,0,-3.7692702201,2.8363873575,6.1591537593 H,0,-3.0182708732,1.0551272435,3.7795127132 H,0,-3.5865873011,0.458180281,5.3327350947 H,0,-1.3513469784,-0.7969102762,5.7264657866 H,0,0.1360596257,0.1310989689,5.7911147016 H,0,-1.0562307621,2.1459693928,4.9118824311 H,0,-1.6439374964,1.5806439548,6.4679801471 H,0,-0.5673794024,-1.3055503744,-2.0104329168 H,0,2.5152743881,-3.7891059124,-3.736609631

 Table S7.
 Optimized Structural Coordinate and its Total Energy for C22BTO2

 at B3LYP/6-31G(d) level
 0

total energy: = -4029.5283745 hartree (NImag = 0)

Atomic	Coordir	nates (Angstrom	s)
Туре	Х	Y	Z

C.0.-3.4906878846.-6.6471912169.8.4529053067 C,0,-2.3070104073,-6.8644267767,7.4930087063 C,0,-1.5576096075,-4.5029897665,-4.1851348544 C.0.-1.335139524,-6.6567092743,5.1365739674 C,0,-2.5191058531,-6.3464998483,6.0634596408 C,0,-0.3775444554,-4.6352361878,-1.8793069696 C,0,2.7206645223,-5.3140244237,-1.8586585798 C,0,-0.234782827,-6.2947386043,2.8489866225 C,0,0.9843860248,-5.8035900352,0.6403731555 C,0,-0.2828302742,-4.2350564014,-3.3654525222 C,0,-1.4237854438,-5.9744431116,3.7650977255 C,0,4.6443463834,-4.8981774985,-3.5271665055 C,0,-0.2079604705,-5.4656589847,1.5563944164 C.0.8.5018683338,-3.7761620521,-6.7414410593 C,0,6.5691035359,-4.3891443969,-5.1648531036 C,0,3.3602773453,-4.3547710318,-2.8822938181 C.0.-3.9924105531.-3.9289127738.-4.7045508061 C,0,-3.9622996469,-5.1915159483,8.6236338299 C,0,8.9707335904,-2.9989274726,-7.9835826007 C,0,5.1984817415,-3.9706633832,-4.6172035927 C,0,7.0538134415,-3.4958290476,-6.3155542188 C,0,-2.7797460878,-3.6592248999,-3.8026763097 C,0,-6.3902129376,-3.2772290203,-5.3375494122 C,0,-5.2036606044,-3.0423695644,-4.3909327867 C,0,-2.8734886112,-4.2010907833,9.0592619516 C,0,8.8708092039,-1.4714330347,-7.8600374934 C,0,1.7083886984,-2.9414182859,-0.1734087304 C,0,9.55224971,-0.7195416762,-9.0138258132 C,0,-7.617205909,-2.3914137975,-5.059808439 C,0,-3.4154138019,-2.789496467,9.3298319221 C,0,3.3606415197,-1.6535122405,1.1181260152 C,0,-7.3671829985,-0.8918415468,-5.2678306985 C,0,9.30035808,0.7999321366,-9.0014199814 C,0,7.9171310024,1.2003742458,-9.540240229 C,0,-2.3060291817,-1.7403711577,9.489460534 C.0.2.5627478125.-0.5376837024.0.9523111464 C,0,1.3542103437,-0.5658908292,0.2497318163 C,0,-8.5990150205,-0.0087017117,-5.0298383381 C,0,-2.7885332275,-0.3283246341,9.8612236885 C,0,7.590158842,2.6996954022,-9.4117188318 C,0,-3.8242394988,0.2715497955,8.8951666431 C,0,-8.2672301391,1.4869363068,-5.1086197827 C,0,0.6953242869,0.7574866948,0.2085179405 C,0,6.0349902826,2.627699562,-7.3503648334 C,0,4.4878453718,2.5458376143,-5.3159535745 C,0,7.310702298,3.2022145141,-7.9826469921 C,0,1.3229538481,1.775426083,0.8333022974 C,0,5.7391246377,3.1742875139,-5.9470336073 C.0.-9.4545139287,2.4148561562,-4.8172852078 C,0,4.2049394781,2.9687283745,-3.864395821 C,0,-4.0354447009,1.7874678595,9.0840237753 C,0,-2.970180557,2.6703679745,8.4048788339 C,0,-3.1360155789,2.7499649259,6.8791998552 C,0,-9.0865034414,3.9093132618,-4.7804282998 C.0.-2.0940724855,3.6109694837,6.1460104376 C,0,3.748125975,4.4261703718,-3.6941546681 C,0,2.4137235523,4.1112410234,-1.4940854303 C,0,0.1148733096,3.4098786638,3.769690278 C,0,-0.6564380776,3.0681841897,6.2074286781 C,0,-8.1943077177,4.3019530852,-3.5937297482 C,0,3.5390780849,4.8547502513,-2.2307323172 C,0,2.2573581244,4.5605171186,-0.0290321765 C,0,1.1194191805,4.0958348612,2.8243997939 C,0,-0.8216686859,3.9798464345,0.3820692252 C,0,0.3262669312,3.7669792212,5.2496880907 C,0,-7.8174950809,5.7894627246,-3.5664467925 C,0,-5.5600489754,5.6094608838,-2.3019268574 C.0.-3.3473573197.5.4769867704.-0.9819176216 C,0,-1.1518376414,5.490983485,0.4184768348

C.0.-6.9775743866.6.2013533856.-2.3450047463 C,0,-4.7870825784,6.0079973441,-1.0386149576 C,0,-2.6457777452,5.8463503127,0.331561466 O,0,4.0256022348,1.7291928602,0.9051520453 O,0,2.7799091483,1.1484441298,3.0356911501 Si,0,1.2324942223,-4.6576846634,-0.8600385332 Si,0,0.948487593,3.6365078771,0.9901800949 C,0,0.9303887988,-1.7738777332,-0.3129073575 S,0,2.8518583901,1.1263351596,1.5631895935 C,0,2.9180026831,-2.8508226093,0.5453622114 H,0,-4.3440206872,-7.2502132693,8.1106707974 H,0,-3.2125702389,-7.0485933961,9.4379536832 H,0,-2.0874375647,-7.9410824283,7.4542410972 H,0,-1.4056381324,-6.3927042603,7.9087385117 H,0,-1.8140267893,-5.5701459445,-4.1042837249 H,0,-1.3304585708,-4.3265543529,-5.2465606178 H,0,-1.2499134918,-7.7454613657,5.0039064329 H,0,-0.403287125,-6.3391806648,5.6280594941 H,0,-3.4395578961,-6.779398592,5.6437735132 H,0,-2.677639886,-5.2592232465,6.084697548 H,0,-0.7701932834,-5.662990972,-1.8186824707 H,0,-1.1240203141,-4.0168574604,-1.3612361526 H,0,2.4149496133,-6.2439534421,-2.3620632723 H,0,3.4867659808,-5.6238309331,-1.1308659263 H,0,-0.2408212496,-7.3659512521,2.5987228509 H,0,0.7017351656,-6.1176782603,3.3986590056 H,0,0.8926665246,-6.8396107556,0.2800134869 H,0,1.9117143977,-5.7817944378,1.2329693585 H,0,0.535986854,-4.7934331334,-3.8356820078 H,0,-0.0106322504,-3.1730462152,-3.4526322486 H,0,-2.3608507775,-6.2628806833,3.2660223955 H,0,-1.4817855594,-4.8857162035,3.9133449904 H.0.4.451693,-5.8930349873,-3.9553652304 H,0,5.405011368,-5.0455886371,-2.7458749813 H,0,-1.1497740072,-5.6136407887,1.0085890921 H.0.-0.178689492.-4.4001476098.1.8261359754 H,0,8.6182650743,-4.8523395451,-6.9347268083 H,0,9.1706098866,-3.5460469451,-5.8985424132 H,0,6.5307715094,-5.4346829161,-5.5049209913 H,0,7.3051305084,-4.3629684445,-4.3474925409 H,0,2.63726581,-4.119916261,-3.6745677876 H,0,3.5913504124,-3.3969867747,-2.3968990331 H,0,-4.2796491738,-4.9877140951,-4.6224317899 H,0,-3.6989671901,-3.776258472,-5.7539689175 H,0,-4.7770085716,-5.1777689055,9.3618427 H,0,-4.4074865235,-4.8347883627,7.6840976191 H,0,8.3888385586,-3.3252335062,-8.858511916 H,0,10.0140664861,-3.274453242,-8.1949547164 H,0,4.4751097154,-3.9170812338,-5.4446304858 H,0,5.2740441959,-2.9484918709,-4.2172513115 H,0,6.3846375853,-3.6244204107,-7.1799323653 H,0,6.9580745867,-2.44423096,-6.0122240456 H,0,-3.0576645222,-3.8475041255,-2.7561626045 H,0,-2.5145289245,-2.5924710812,-3.8625664408 H,0,-6.6906261746,-4.332841709,-5.2752398043 H,0,-6.0593803454,-3.117263116,-6.3748015447 H,0,-5.5270075319,-3.2140661252,-3.353037699 H,0,-4.8893907629,-1.9911691995,-4.4414147828 H,0,-2.3649027004,-4.577763282,9.959345355 H,0,-2.1009550898,-4.139652847,8.2799139251 H,0,7.8142108465,-1.1793514928,-7.802968636 H,0,9.3259523096,-1.1500733176,-6.9107263064 H,0,9.2133105379,-1.1341095623,-9.9752967086 H,0,10.63301214,-0.9126696369,-8.9665993251 H,0,-8.4412035388,-2.711846051,-5.7130551123 H,0,-7.9630844419,-2.5615733442,-4.0291840622 H,0,-4.0470286084,-2.8053925092,10.2308269213 H,0,-4.0762141822,-2.498039737,8.5016848091 H,0,4.2951832608,-1.6034662187,1.6689540323

H.0.-6.9920378103.-0.7252804231.-6.2890313787 H,0,-6.5669464675,-0.556156053,-4.5942705128 H,0,10.0665049029,1.3031919435,-9.6078379404 H,0,9.4334260827,1.1738678808,-7.9763367063 H,0,7.8698337571,0.9202799348,-10.6022072846 H,0,7.1357317717,0.6102722215,-9.0439323849 H,0,-1.5926177698,-2.0830336237,10.252851167 H,0,-1.7379777148,-1.6860060273,8.548571933 H,0,-9.3849631142,-0.2592447279,-5.7574203267 H,0,-9.0194618767,-0.2322985504,-4.0378944176 H,0,-3.2165236814,-0.3401265162,10.8746947389 H,0,-1.9107967239,0.3307686585,9.9130958743 H,0,6.713279031,2.9250798963,-10.0355407295 H,0,8.4211891808,3.2799296051,-9.8381008802 H,0,-4.7826797534,-0.2455236027,9.0301329184 H,0,-3.5191019493,0.0680971615,7.8586708162 H.0.-7.8633993402,1.7206253982,-6.1052904956 H,0,-7.4546469264,1.693539412,-4.3990558989 H,0,-0.2492617216,0.8825766251,-0.3159184309 H,0,6.1085219731,1.5328688781,-7.2909773356 H,0,5.1793824892,2.8376583123,-8.0102185649 H,0,4.6001629699,1.4523697872,-5.3439347155 H,0,3.6107027492,2.7741202934,-5.9404145252 H,0,8.1688361472,2.9828374217,-7.3317267064 H,0,7.229518895,4.2982324572,-8.0095283994 H,0,6.6041689544,2.9832110051,-5.2941723277 H,0,5.6321306232,4.2667029129,-5.9987551651 H,0,-10.2307374177,2.2523591566,-5.5782203999 H,0,-9.908773276,2.133433845,-3.8552886263 H,0,3.4371824876,2.2998021107,-3.4552620608 H,0,5.1060589598,2.799077161,-3.2562574089 H,0,-5.0226119873,2.0718585883,8.6931142402 H,0,-4.0629667334,2.007963686,10.1605233008 H,0,-1.9681718228,2.2984061732,8.6579235218 H,0,-3.0278117726,3.6878486716,8.8172798173 H.0.-3.1144396771.1.7380851181.6.4499066646 H,0,-4.1384584658,3.1473690909,6.6626308829 H,0,-8.5856561011,4.1834116181,-5.7211511498 H,0,-10.0092339275,4.5054643149,-4.7433501895 H,0,-2.4063221326,3.6953705535,5.096595288 H,0,-2.1109433964,4.6348567457,6.5490088107 H,0,2.8150287392,4.5797505802,-4.2580312285 H,0,4.4896554669,5.097650235,-4.1472515321 H,0,2.6179576687,3.034669393,-1.5120161097 H,0,1.468975582,4.2581177645,-2.0398075332 H,0,0.2043032106,2.3208145871,3.6622513361 H,0,-0.909240102,3.6700565029,3.4691677528 H,0,-0.6646880436,1.9910622426,5.981174485 H,0,-0.2775825839,3.1581850517,7.2337790453 H,0,-7.2791231445,3.6979160929,-3.6084494953 H,0,-8.7128182466,4.0457124587,-2.6569727613 H,0,4.4778125985,4.7105774101,-1.6763256515 H,0,3.3304060741,5.9340289718,-2.201566969 H,0,3.218449225,4.4310880195,0.4869925362 H,0,2.0309558062,5.6366282494,0.0147791863 H,0,2.1412374264,3.8478258019,3.1415465643 H,0,1.033897161,5.1891539508,2.9162748818 H,0,-0.9746789301,3.5815697667,-0.6297482824 H,0,-1.5201961522,3.4344945589,1.0334666223 H,0,1.3526892671,3.4902163249,5.5251810893 H,0,0.2559570406,4.8575858587,5.3807214978 H,0,-7.2730117458,6.0455370518,-4.4877199477 H,0,-8.7379931937,6.3903305182,-3.5815648347 H,0,-5.6064672131,4.5133223226,-2.3578503107 H,0,-5.004075475,5.9372040621,-3.1932704042 H,0,-3.3537741344,4.3852973648,-1.1106145081 H,0,-2.7754743129,5.8826719227,-1.8301529109 H,0,-0.6124276014,5.998533906,-0.3934942009 H,0,-0.7677630441,5.9283786931,1.3505901485

H,0,-7.5157592134,5.9153465716,-1.4286647298
H,0,-6.8997686133,7.2975403188,-2.3190280107
H,0,-5.3375255452,5.6506254566,-0.155369049
H,0,-4.7666349221,7.1049480067,-0.9558693681
H,0,-3.1757812586,5.3693070625,1.1695264212
H,0,-2.7476708358,6.9301484831,0.4889812329
H,0,-0.0086355835,-1.8041440322,-0.8619123821
H,0,3.5397667873,-3.7352055168,0.6658669237