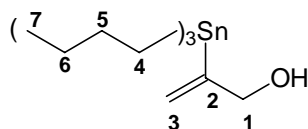
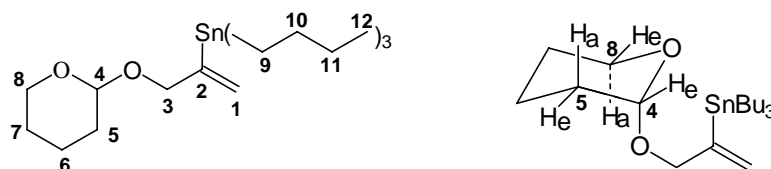


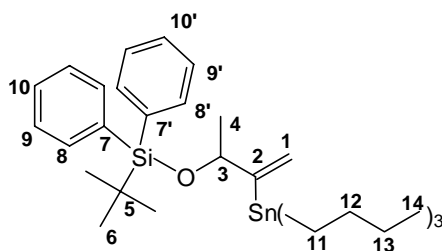
Data of all Stannylated Products



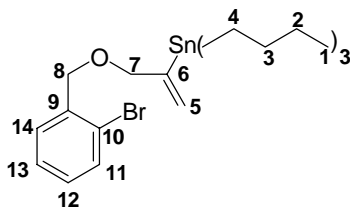
¹H-NMR (300 MHz, CDCl₃): δ = 5.86 (d, ²J = 2.1 Hz, ³J_{SnH} = 129 Hz, 1H, 3-H_t), 5.23 (d, ²J = 2.1 Hz, ³J_{SnH} = 61 Hz, 1H, 3-H_c), 4.26 (s, 2 H, ³J_{SnH} = 28 Hz, 1-H), 1.59-1.40 (m, 6 H, 4-H), 1.35-1.23 (m, 6 H, 6-H), 1.08-0.80 (m, 15 H, 5-H, 7-H). **¹³C-NMR** (75 MHz, CDCl₃): δ = 154.60 (C-2), 122.72 (C-3, J_{SnC} = 19 Hz), 69.42 (C-1, J_{SnC} = 45 Hz), 28.84 (C-6, J_{SnC} = 20 Hz), 27.11 (C-5, J_{SnC} = 58 Hz), 13.43 (C-7), 9.29 (C-4, J_{SnC} = 324 Hz). C₁₅H₃₂OSn (347.13) calc.: C 51.90 H 9.29; found: C 51.78 H 9.28.



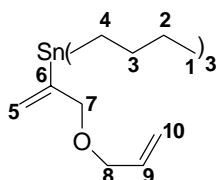
¹H-NMR (300 MHz, CDCl₃): δ = 5.85 (d, ²J = 2.2 Hz, ³J_{SnH} = 131 Hz, 1H 1-H_t), 5.22 (d, ²J = 2.3 Hz, ³J_{SnH} = 61 Hz, 1H, 1-H_c), 4.62 (t, ³J_{ea}, ³J_{ec} = 3.4 Hz, 3.2 Hz, 1H, 4-H), 4.38 (d, ²J = 12.8 Hz, 1H, 3-H), 4.03 (d, ²J = 12.8 Hz, 1H, 3-H), 3.84 (dt, ²J = 11.4 Hz, ³J_{ea}, ³J_{ec} = 3.2 Hz, 3.0 Hz, 1H, 8-H_e), 3.49 (ddd, ²J = 11.4 Hz, ³J_{aa} = 7.0 Hz, ³J_{ae} = 4.4 Hz, 1H, 8-H_a), 1.56-1.41 (m, 8H, 5-H, 9-H), 1.35-1.23 (m, 8H, 7-H, 11-H), 0.98-0.78 (m, 17H, 6-H, 10-H, 12-H). **¹³C-NMR** (75 MHz, CDCl₃): δ = 152.48 (C-2), 124.22 (C-1, J_{SnC} = 19.5 Hz), 97.96 (C-4), 74.20 (C-3, J_{SnC} = 35Hz), 61.75 (C-8), 30.66 (C-5), 29.10 (C-11, J_{SnC} = 20 Hz), 27.36 (C-10, J_{SnC} = 57 Hz), 25.50 (C-7), 19.26 (C-6), 13.67 (C-12), 9.60 (C-9, J_{SnC} = 333 Hz). C₂₀H₄₀O₂Sn (431.24) calc.: C 55.70 H 9.35; found: C 55.69 H 9.57



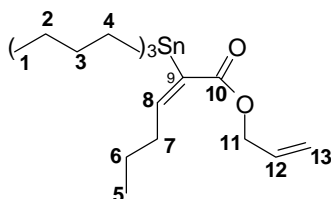
¹H-NMR (300 MHz, CDCl₃): δ = 7.70 (dd, J_o = 7.7 Hz, J_m = 1.5 Hz, 2H, 8-H), 7.64 (dd, J_o = 7.7 Hz, J_m = 1.5 Hz, 2H, 8'-H), 7.35 (m, 6H, 9-H, 9'-H, 10-H, 10'-H), 5.73 (d, ²J = 1.4 Hz, 1H, 1-H_t, ³J_{SnH} = 135 Hz), 5.09 (d, ²J = 2.4 Hz, 1H, 1-H_c, ³J_{SnH} = 61Hz), 4.39 (q, ³J = 6.3 Hz, 1H, 3-H), 1.53-1.38 (m, 6 H, 11-H), 1.35-1.24 (m, 6H, 13-H), 1.06 (s, 9H, 6-H), 1.02 (d, ³J = 6.3 Hz, 3H, 4-H), 0.99-0.85 (m, 15H, 12-H, 14-H). **¹³C-NMR** (75.47 MHz, CDCl₃): δ = 159.23 (C-2), 135.79/135.67 (C-9, 9'), 134.54/133.96 (C-7, 7'), 129.29/129.18 (C-10, 10'), 127.22/127.11 (C-8, 8'), 122.60 (C-1), 76.71 (C-3), 28.89 (C-13, J_{SnC} = 19 Hz), 27.06 (C-12, J_{SnC} = 55 Hz), 26.81 (C-6), 25.23 (C-5), 19.01 (C-4), 13.49 (C-14), 9.90 (C-11, J_{SnC} = 329 Hz). C₃₂H₅₂OSiSn (599.56) calc.: C 64.11 H 8.74; found: C 64.09 H 8.99.



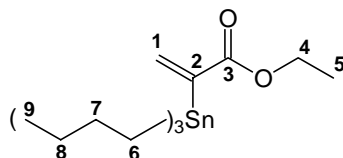
¹H-NMR (300 Mhz, CDCl₃): δ = 0.80-1.07 (m, 15H, 1-H, 3-H), 1.21-1.34 (m, 6H, 2-H), 1.41-1.59 (m, 6H, 4-H), 4.22-4.24 (m, 2H, 7-H, $J_{\text{HSn}} = 33.8$ Hz), 4.53 (s, 2H, 8-H), 5.28-5.31 (m, 1H, 5-H_c, $J_{\text{HSn}} = 61.4$ Hz), 5.90-5.93 (m, 1H, 5-H_t, $J_{\text{HSn}} = 129.5$ Hz), 7.08-7.14 (m, 1H, 12-H), 7.26-7.32 (m, 1H, 13-H), 7.48-7.53 (m, 2H, 11-H, 14-H). **¹³C-NMR** (75.47 MHz, CDCl₃): δ = 9.4 (C-4), 13.4 (C-1), 27.1 (C-2), 28.9 (C-3), 71.1 (C-8), 77.7 (C-7), 122.2 (C-10), 124.7 (C-5), 127.0, 128.4, 128.6, 132.1 (C-11, C-12, C-13, C-14), 137.8 (C-9), 152.4 (C-6). HMRS calcd for C₁₈H₂₈O²¹Br¹¹⁸Sn [M⁺- Bu]: 459.0319, found: 349.0348; calcd for C₁₈H₂₈O²¹Br¹²⁰Sn [M⁺- Bu]: 461.0325, Found: 461.0346.



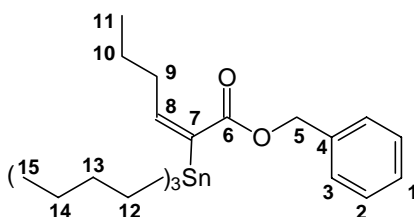
¹H-NMR (300 Mhz, CDCl₃): δ = 0.78-1.07 (m, 15H, 1-H, 3-H), 1.23-1.36 (m, 6H, 2-H), 1.40-1.56 (m, 6H, 4-H), 3.93 (d, $J = 5.5$ Hz, 2H, 8-H), 4.08 (s, 2H, 7-H, $J_{\text{HSn}} = 34.9$ Hz), 5.11-5.17 (m, 1H, 10-H_t), 5.23-5.26 (m, 1H, 5-H_c, $J_{\text{HSn}} = 60.7$ Hz), 5.20-5.28 (m, 1H, 10-H_c), 5.82-5.96 (sh, 2H, 5-H_t, 9-H, $J_{\text{HSn}} = 133.4$ Hz). **¹³C-NMR** (75.47 MHz, CDCl₃): δ = 9.4 (C-4), 13.4 (C-1), 27.1 (C-2), 28.9 (C-3), 70.8 (C-8), 77.1 (C-7), 116.2 (C-10), 124.4 (C-5), 134.7 (C-9), 152.7 (C-6). HMRS calcd for C₁₄H₂₇O¹¹⁸Sn [M⁺-Bu]: 329.1078, found: 329.1090; calcd for C₁₄H₂₇O¹²⁰Sn [M⁺-Bu]: 331.1084, Found: 331.1148.



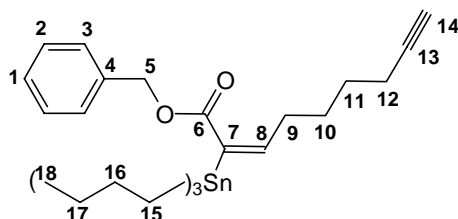
¹H-NMR (300MHz,CDCl₃): δ = 0.84-1.09 m, 18H, H-1, 3-H, 5-H), 1.03-1.54 (m, 14H, 2-H, 4-H, 6-H), 2.38 (dt, $J_{7,8} = 7.1$ Hz, $J_{7,6} = 7.4$ Hz, 2H,7-H), 4.56-4.59 (m, 2H, 11-H), 5.21 (dd, $J_{13\text{trans},12} = 10.4$ Hz, $J_{13\text{trans},13\text{cis}} = 1.3$ Hz, 1H, 13H_t), 5.29 (m, 1H, 13-H_c), 5.86-6.00 (m, 1H, 12-H), 6.03 (t, $J_{8,7} = 7.1$ Hz, 1H, 8-H). **¹³C-NMR** (75.47 MHz, CDCl₃):δ = 10.3 (C-4), 13.6 (C-1), 13.9 (C-5), 22.4 (C-6), 27.2 (C-2), 28.9 (C-3), 34.1 (C-7), 64.9 (C-11), 118.1 (C-13), 132.6 (C-12), 135.5 (C-9), 153.5 (C-8), 170.9 (C-10). C₂₁H₄₀O₂Sn (443.23) calc.: C 56.91 H 9.09; found: C 56.68 H 9.12



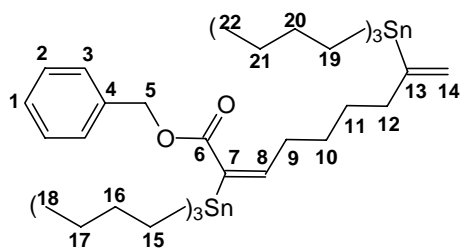
¹H-NMR (300 MHz, CDCl₃): δ = 6.88 (d, ²J = 2.8 Hz, ³J_{SnH} = 110 Hz, 1H, 1-H_t), 5.90 (d, ²J = 2.7 Hz, ³J_{SnH} = 53 Hz, 1H, 1-H_c), 4.17 (q, ³J = 7.1 Hz, 2H, 4-H), 1.56-1.40 (m, 6H, 6-H), 1.35-1.23 (m, 6H, 8-H), 0.96 (t, ³J = 7.9 Hz, 3H, 5-H), 0.92-0.79 (m, 15H, 7-H, 9-H). **¹³C-NMR** (75 MHz, CDCl₃): δ = 170.27 (C-3), 146.02 (C-2), 139.37 (C-1), 60.30 (C-4), 28.70 (C-8, J_{SnC} = 20 Hz), 27.07 (C-7, J_{SnC} = 59 Hz), 14.04 (C-5), 13.44 (C-9), 9.89 (C-6, J_{SnC} = 335 Hz). C₁₇H₃₄O₂Sn (389.16) calc.: C 52.47 H 8.81; found: C 52.51 H 8.92



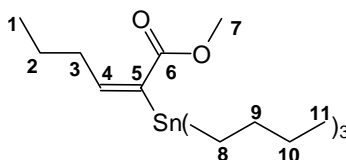
¹H-NMR (300 MHz, CDCl₃): δ = 7.36 (m, 5H, 1-H, 2-H, 3-H), 6.06 (t, ³J = 7.1 Hz, ³J_{SnH} = 61 Hz, 1H, 8-H), 5.13 (s, 2H, 5-H), 2.41 (dt, ³J = 7.2 Hz, ³J = 7.2 Hz, 2H, 9-H), 1.50-1.32 (m, 6H, 12-H), 1.32-1.15 (m, 8H, 10-H, 14-H), 1.10-0.81 (m, 18H, 11-H, 13-H, 15-H). **¹³C-NMR** (75.47 MHz, CDCl₃): δ = 171.06 (C-6), 153.56 (C-7), 136.42 (C-4), 128.54, 128.40, 128.29 (C-1, C-2, C-3), 128.05 (C-8), 66.05 (C-5), 34.14 (C-9), 28.83 (C-14, J_{SnC} = 20 Hz), 27.20 (C-13, J_{SnC} = 59 Hz), 22.43 (C-10), 13.61 (C-11), 13.61 (C-15), 10.25 (C-12, J_{SnC} = 335 Hz). C₂₅H₄₂SnO₂ (493.32) calc.: C 60.87 H 8.58; found: C 61.14 H 8.65.



¹H-NMR (300 MHz, CDCl₃): δ = 7.33 (m, 5H, 1-H, 2-H, 3-H), 6.03 (t, ³J = 7.1 Hz, ³J_{SnH} = 79 Hz, 1H, 8-H), 5.11 (s, 2H, 5-H), 2.41 (dt, ³J = 7.4 Hz, ³J = 7.1 Hz, 2H, 9-H), 2.15 (td, ³J = 6.3 Hz, ⁴J = 2.6 Hz, 2H, 12-H), 1.91 (t, ⁴J = 2.6 Hz, 1H, 14-H), 1.52-1.18 (m, 16H, 10-H, 11-H, 15-H, 17-H), 0.97-0.78 (m, 15H, 16-H, 18-H). **¹³C-NMR** (75 MHz, CDCl₃): δ = 170.76 (C-6), 152.72 (C-7), 136.03 (C-4), 128.37, 128.21, 128.08 (C-1, C-2, C-3), 127.89 (C-8), 84.19 (C-13), 68.01 (C-14), 65.90 (C-5), 31.36 (C-9), 28.62 (C-17, J_{SnC} = 20 Hz), 27.99, 27.75 (C-10, C-11), 27.10 (C-16, J_{SnC} = 60 Hz), 17.97 (C-12), 13.41 (C-18), 10.05 (C-15, J_{SnC} = 340 Hz). HMRS calcd for C₂₈H₄₄O₂¹¹⁸Sn: 473.1653, found: 473.3362; calcd for C₂₈H₄₄O₂¹²⁰Sn: 475.1659, Found: 475.3380.



¹H-NMR (300 MHz, CDCl₃): δ = 7.33 (m, 5H, 1-H, 2-H, 3-H), 6.07 (t, ³J = 7.2 Hz, 1H, 8-H), 5.64 (d, ²J = 2.9 Hz, 1H, 14-H_t), 5.11 (s, 2H, 5-H), 5.08 (d, ²J = 2.9 Hz, 1H, 14-H_c), 2.40 (d, ³J = 6.6 Hz, 2H, 9-H), 2.21 (t, ³J = 6.5 Hz, 2H, 12-H), 1.52-1.17 (m, 28H, 10-H, 11-H, 15-H, 19-H, 17-H, 21-H), 0.95-0.78 (m, 30H, 16-H, 20-H, 18-H, 22-H). **¹³C-NMR** (75.47 MHz, CDCl₃): δ = 170.73 (C-6), 153.49 (C-7), 149.19 (C-13), 136.09 (C-4), 128.34, 128.19, 128.05 (C-1, C-2, C-3), 127.85 (C-8), 127.03 (C-14), 65.86 (C-5), 40.79 (C-12), 31.87 (C-9), 28.75, 28.90 (C-10, C-11), 29.08, 28.62 (C-17, C-21, J_{SnC} = 20 Hz), 27.15, 27.11 (C-16, C-20, J_{SnC} = 60 Hz), 13.45, 13.40 (C-18, C-22), 10.03, 9.36 (C-15, C-19, J_{SnC} = 340 Hz). C₄₀H₇₁Sn₂O₂ (821.42) calcd: C 58.49 H 8.71, found: C 58.37 H 8.90.



¹H-NMR (300 MHz, CDCl₃): δ = 6.02 (t, ³J = 7.1 Hz, 1 H, 4-H, ³J_{SnH} = 68 Hz), 3.67 (s, 3 H, 7-H), 2.37 (td, ³J = 7.3 Hz, ³J = 7.2 Hz, 2 H, 3-H), 1.55-1.39 (m, 6 H, 8-H), 1.35-1.22 (m, 6 H, 10-H), 1.08-0.84 (m, 20 H, 1-H, 2-H, 9-H, 11-H). **¹³C-NMR** (75.47 MHz, CDCl₃): δ = 171.58 (C-6), 153.08 (C-5), 127.02 (C-4), 50.85 (C-7), 33.92 (C-3), 28.64 (C-10, J_{SnC} = 17 Hz), 27.00 (C-9, J_{SnC} = 57 Hz), 22.21 (C-2), 10.02 (C-1), 13.40 (C-11), 9.77 (C-8, J_{SnC} = 340 Hz). C₁₉H₃₈O₂Sn (417.22) calcd: C 54.70 H 9.18, found: C 54.52 H 9.10.