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Supporting Information

2-[Bis(trimethylsilyl)methylene]-4-ethoxy-5-phenyl-4-cyclopentene-1,3-dione (8b). IR (KBr) 1672, 1585, 1246, 837 cm⁻¹; ¹H NMR δ 0.28 (9 H, s), 0.29 (9 H, s), 1.44 (3 H, t, *J*=7.0 Hz), 4.83 (2 H, q, *J*=7.0 Hz), 7.34-7.52 (3 H, m), 7.90-7.99 (2 H, m); ¹³C NMR δ 2.0 (3 C), 2.3 (3 C), 16.0, 69.2, 128.6 (2 C), 129.3, 129.9, 130.2 (2 C), 132.4, 150.6, 165.6, 177.3, 188.5, 189.4; MS (EI) *m/z* (rel. intensity) 372 (M⁺, 39), 357 (75), 343 (100), 329 (33), 313 (19); Anal Calcd for C₂₀H₂₈O₃Si₂: C, 64.47; H, 7.57. Found: C, 64.87; H, 7.17.

2-[Bis(trimethylsilyl)methylene]-4-ethoxy-5-phenylethyne-4-cyclopentene-1,3-dione (8c). IR (KBr) 2199, 1688, 1616, 1258, 849 cm⁻¹; ¹H NMR δ 0.27 (9 H, s), 0.30 (9 H, s), 1.56 (3 H, t, *J*=7.0 Hz), 4.93 (2 H, q, *J*=7.0 Hz), 7.34-7.42 (3 H, m), 7.52-7.58 (2 H, m); ¹³C NMR δ 1.9 (3 C), 2.1 (3 C), 15.5, 69.0, 79.2, 107.1, 115.2, 122.5, 128.9 (2 C), 130.0, 132.1 (2 C), 148.2, 168.1, 182.6, 186.4, 187.6; MS (EI) *m/z* (rel. intensity) 396 (M⁺, 26), 381 (100), 367 (38), 337 (5); Anal Calcd for C₂₂H₂₈O₃Si₂: C, 66.62; H, 7.12. Found: C, 66.63; H, 7.11.

4-Ethoxy-5-methyl-2-[(1-trimethylsilyl)pentylidene]-4-cyclopentene-1,3-dione (9). IR (neat) 1680, 1628, 1246, 847 cm⁻¹; ¹H NMR (signals due to *E*-isomer is indicated in brackets) δ 0.24 [0.25] (9 H, s), 0.93 (3 H, t, *J*=7.4 Hz), 1.21-1.53 (4 H, m), 1.41 (3 H, t, *J*=7.0 Hz), 1.98 [1.97] (3 H, s), 3.04 [2.97] (2 H, t, *J*=7.4 Hz), 4.68 [4.69] (2 H, q, *J*=7.0 Hz); ¹³C NMR δ -0.5 [-0.2] (3 C), 7.0, 13.9, 15.9, 23.3, 32.0 [31.6], 32.5 [32.3], 67.8, 133.6 [131.1], 134.4 [134.1], 164.9 [166.4], 170.7 [170.5], 189.9 [189.2], 192.4 [192.8]; MS (EI) *m/z* (rel. intensity) 294 (M⁺, 100), 279 (72), 265 (31), 249 (77), 237 (30), 221 (99); Anal Calcd for C₁₆H₂₆O₃Si: C, 65.26; H, 8.90. Found: C, 65.20; H, 8.96.

4-Ethoxy-5-methyl-2-[1-(trimethylsilyl)-4-pentenylidene]-4-cyclopentene-1,3-dione (11). IR (neat) 1680, 1624, 1246, 845 cm⁻¹; ¹H NMR (signals due to *E*-isomer is indicated in brackets) δ 0.24 [0.25] (9 H, s), 1.41 (3 H, t, *J*=7.0 Hz), 1.99 [1.98] (3 H, s), 2.10 (2 H, m), 3.13 [3.12] (2 H, q, *J*=7.6 Hz), 4.72 [4.68] (2 H, q, *J*=7.0 Hz), 4.93-5.10 (2 H, m), 5.76-5.97 (1 H, m); ¹³C NMR δ -0.5 (3 C), 2.1 [2.2], 7.1, 15.9 [15.8], 34.4 [31.5], 68.1 [67.8], 115.4, 133.8 [135.0], 138.0 [134.7], 150.2, 167.0 [165.0], 169.2 [174.8], 189.8 [188.3], 192.3 [191.0]; MS (EI) *m/z* (rel. intensity) 292 (M⁺, 100), 277 (45), 263 (23), 247 (26), 231 (24); Anal Calcd for C₁₆H₂₄O₃Si: C, 65.71; H, 8.27. Found: C, 65.61; H, 8.37.

4-Ethoxy-2-[2-methoxy-1-(trimethylsilyl)ethylidene]-5-methyl-4-cyclopentene-1,3-

dione (12). IR (neat) 1680, 1626, 1246, 849 cm⁻¹; ¹H NMR (signals due to *E*-isomer is indicated in brackets) δ 0.22 [0.23] (9 H, s), 1.38 (3 H, t, *J*=7.0 Hz), 1.95 [1.96] (3 H, s), 3.27 [3.28] (3 H, s), 4.69 [4.68] (2 H, q, *J*=7.0 Hz), 4.82 [4.74] (2 H, s); ¹³C NMR δ -0.5 [-0.2] (3 C), 7.1, 15.8 [15.9], 58.2, 68.1, 68.2 [67.8], 135.6 [133.6], 137.1 [136.8], 161.8 [161.6], 165.8 [167.0], 189.3 [188.9], 191.8; MS (EI) *m/z* (rel. intensity) 282 (M⁺, 96), 267 (100), 238 (49), 223 (61), 207 (50); Anal Calcd for C₁₄H₂₂O₄Si: C, 59.54; H, 7.85. Found: C, 59.88; H, 7.56.

4-Ethoxy-5-methyl-2-[2-phenyl-1-(trimethylsilyl)ethylidene]-4-cyclopentene-1,3-dione (13). IR (neat) 1678, 1626, 1246, 849 cm⁻¹; ¹H NMR (signals due to *E*-isomer is indicated in brackets) δ 0.13 (9 H, s), 1.43 (3 H, t, *J*=7.0 Hz), 1.99 (3 H, s), 4.57 (2 H, s), 4.72 (2 H, q, *J*=7.0 Hz), 7.01-7.29 (5 H, m); ¹³C NMR δ -0.3 (3 C), 7.1, 15.9, 36.7, 67.9, 126.3, 128.6 (2 C), 129.0 (2 C), 134.2, 136.4, 138.9, 165.2, 166.2, 189.6, 192.2; MS (EI) *m/z* (rel. intensity) 328 (M⁺, 100), 313 (24), 299 (7), 284 (64), 267 (14); Anal Calcd for C₁₉H₂₄O₃Si: C, 69.47; H, 7.36. Found: C, 69.67; H, 7.13.

2-[2-Bromo-1-(trimethylsilyl)ethylidene]-4-ethoxy-5-methyl-4-cyclopentene-1,3-dione (14). IR (neat) 1678, 1624, 1248, 849 cm⁻¹; ¹H NMR (signals due to *E*-isomer is indicated in brackets) δ 0.33 [0.34] (9 H, s), 1.41 [1.42] (3 H, t, *J*=7.0 Hz), 2.00 [1.99] (3 H, s), 4.72 [4.75] (2 H, q, *J*=7.0 Hz), 5.03 [4.93] (2 H, br s); ¹³C NMR δ -0.7 [-0.4], 7.2 [7.1], 16.0 [15.9], 28.6 [28.0], 68.2 [68.3], 136.0 [135.8], 136.1 [136.0], 158.6 [158.9], 187.3 [166.2], 189.2 [188.4], 191.4 [191.7]; MS (EI) *m/z* (rel. intensity) 332 and 330 [ca. 1:1] (M⁺⁺² and M⁺, 14), 317 and 315 [ca. 1:1] (21), 289 and 287 [ca. 1:1] (17), 251 (100), 223 (15), 207 (34); Anal Calcd for C₁₃H₁₉BrO₃Si: C, 47.13; H, 5.78. Found: C, 47.00; H, 5.91.