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Erratum

Erratum to "Cyclopentadienyl-functionalised polyhedral silsesquioxanes as building blocks for new nanostructured materials" [J. Organomet. Chem. 690 (2005) 2439–2448]

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Experimental, page 467, in *3.2. Synthesis of $Cp_{10}Si_{10}O_{15}$ (**1**)*

It should read: "The mixture was stirred for one week."

Experimental, page 467, in *3.4. Synthesis of $(CpC_3H_6)_8Si_8O_{12}$ (**3**)*

It should read: "The mixture was stirred for one week at ambient temperature."

Corrected experimental procedures for compounds **1** and **3** are below.

3.2. Synthesis of $Cp_{10}Si_{10}O_{15}$ (1)

Freshly prepared trichloro-cyclopenta-2,4-dienyl-silane (21.9 g, 0.11 M) in 100 ml of THF was carefully hydrolysed by the drop wise addition of a solution of $(NH_4)_2CO_3$ (2.97 g) in distilled water (70 ml) at 0 °C. The mixture was stirred for one week. The product was extracted with diethyl ether and the organic layer was separated and dried with anhydrous magnesium sulphate. The solution was concentrated in vacuum. A pale yellow solid **1** was precipitated. The precipitate was washed with diethyl ether and dried in vacuum to give 8.6 g (67%) of **1**. Anal. Calc. for $C_{50}H_{50}Si_{10}O_{15}$: C, 51.28; H, 4.27. Found: C, 52.03; H, 4.34%. ^{1}H NMR (400 MHz, $CDCl_3$, 22 °C) δ: 5.71 (40H, vbr, Cp, H–C=), 3.22 (10H, vbr, Cp, H–C–). ^{29}Si NMR (99 MHz, $CDCl_3$, 22 °C) δ: −71.50(s), −74.39(s), −77.04(s). IR (KBr, cm^{-1}): 2962(m), 1709(m), 1446 (m), 1261 (m), 1105(w sh), 845(w), 801(w), 757(m), 431(w). MS (ESI TOF, CH_3CN–H_2O): 1171 $[M+H]^+$, 1105 $[M-Cp]^+$, 846 $[M-5Cp+H^+]^+$, 371 $[M-Cp+2H^+]^{2+}$. Cryoscopy in *c*-hexane: average (out of 5) M.w. 1193.

3.4. Synthesis of $(CpC_3H_6)_8Si_8O_{12}$ (3)

(3-Cyclopentadienylpropyl)triethoxysilane was prepared from (3-chloropropyl)-triethoxysilane (60.20 g, 0.25 M) and CpNa in THF and was purified by vacuum distillation (b.p. 90–91 °C/1 mm, 41 g, 61%). The hydrolytic condensation of (3-cyclopentadienylpropyl)triethoxysilane (20 g, 0.074 M) in acetone (170 ml) was performed by the addition of distilled water (25 ml), with the traces of conc. HCl (0.5 ml) at 0 °C. The mixture was stirred for one week at ambient temperature. The solvent was removed in vacuum to give a pale yellow precipitate. The product was washed with hexane and dried in vacuum (6.94 g, 59%). Anal. Calc. for $C_{64}H_{88}Si_8O_{12}$: C, 60.38; H, 6.92. Found: C, 60.63; H, 6.98%. ^{1}H NMR (400 MHz, $CDCl_3$, 22 °C) δ: 6.4–5.99 (32H, br m, Cp), 3.51 (8H, br m, Cp), 1.85–0.77 (48H, vbr m, CH2). ^{29}Si NMR (99 MHz, $CDCl_3$, 22 °C) δ: −68.51 (br s). IR (KBr, cm^{-1}): 2933(w), 1713(m), 1455(m), 1383(w), 1155(w m), 1050(w), 799(w), 700(m), 467(w sh). MS (ESI TOF, CH_3CN): 1272 $[M]^+$, 1207 $[M-Cp]^+$, 844 $[M-4CpC_3H_6]^+$. Cryoscopy in *c*-hexane: average (out of 5) M.w. 1297.

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