ORGANOMETALLICS
Organometallics, 1997, 16(26), 5621-5622, DOI:10.1021/om9708337

OM 9708337

Supporting information for:

A Novel Organolead(II) species, the Plumbacycloalkane Derivative

$[\overline{CH_2SiMe_2C(SiMe_3)_2PbC(SiMe_3)_2SiMe_2CH_2}]$

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**Supplementary Crystallographic Data for;**

**$[\overline{CH_2SiMe_2C(SiMe_3)_2PbC(SiMe_3)_2SiMe_2CH_2}]$, 4.**

Table 1. Table 2. Atom coordinates for non-hydrogen atoms
Table 2 . Bond lengths and angles
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Table 4 H atom coordinates

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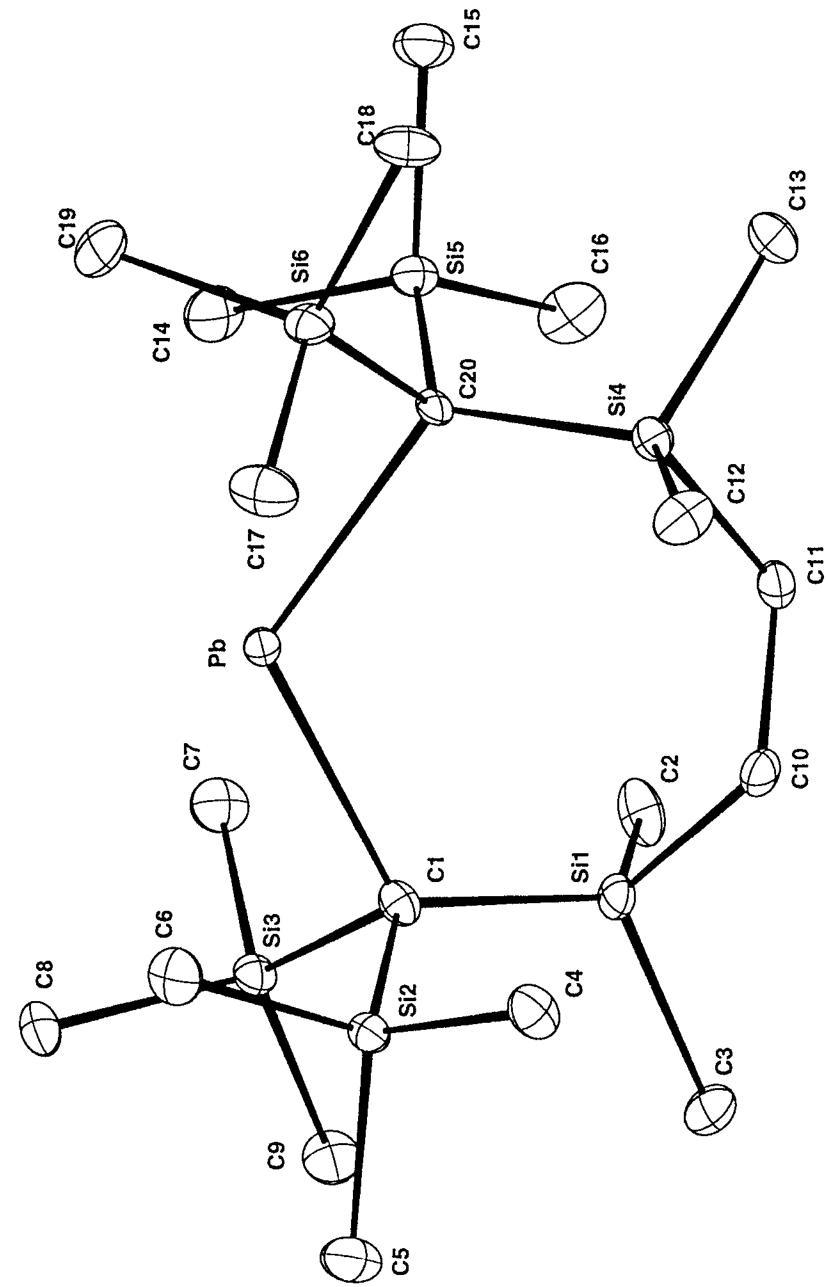

Table 1. Atomic coordinates ( x $10^4$) and equivalent isotropic displacement parameters ($Å^2$x $10^3$) for 4. U(eq) is defined as one third of the trace of the orthogonalized Uij tensor.

| | x | y | z | U(eq) |
|---|---|---|---|---|
| Pb | 1690.4(2) | 3752.3(2) | 2400.2(1) | 18(1) |
| Si(1) | 2113(2) | 167(2) | 3499(1) | 20(1) |
| Si(2) | 3315(2) | 2745(2) | 3882(1) | 19(1) |
| Si(3) | -492(2) | 3894(2) | 3610(1) | 19(1) |
| Si(4) | 4540(2) | -311(2) | 1822(1) | 20(1) |
| Si(5) | 1182(2) | 2136(2) | 1100(1) | 22(1) |
| Si(6) | 4045(2) | 3214(2) | 1228(1) | 23(1) |
| C(1) | 1734(7) | 2409(7) | 3417(3) | 19(1) |
| C(2) | 295(8) | -104(8) | 3198(3) | 32(2) |
| C(3) | 2462(9) | -746(8) | 4333(3) | 33(2) |
| C(4) | 5526(7) | 1036(8) | 3884(3) | 29(1) |
| C(5) | 2783(8) | 2970(9) | 4716(3) | 34(2) |
| C(6) | 3509(8) | 4706(8) | 3578(3) | 31(1) |
| C(7) | -2027(8) | 4221(9) | 2967(3) | 32(2) |
| C(8) | -820(7) | 6092(7) | 3708(3) | 26(1) |
| C(9) | -1258(8) | 3155(8) | 4326(3) | 31(1) |
| C(10) | 4014(7) | -1311(7) | 3105(3) | 23(1) |
| C(11) | 3837(7) | -1529(7) | 2419(3) | 23(1) |
| C(12) | 6642(7) | -600(9) | 2126(3) | 32(2) |
| C(13) | 5059(8) | -1551(8) | 1130(3) | 33(2) |
| C(14) | -747(8) | 4188(9) | 1143(3) | 36(2) |
| C(15) | 1668(8) | 1993(9) | 256(3) | 33(2) |
| C(16) | 419(9) | 514(9) | 1315(3) | 38(2) |
| C(17) | 5244(9) | 3704(10) | 1823(3) | 36(2) |
| C(18) | 5557(8) | 2184(9) | 618(3) | 32(2) |
| C(19) | 2533(9) | 5331(8) | 847(3) | 36(2) |
| C(20) | 2991(7) | 1952(7) | 1598(2) | 17(1) |

Table 2. Bond lengths [Å] and angles [deg] for 4.

| | | | |
|---|---|---|---|
| Pb-C(1) | 2.397(6) | Pb-C(20) | 2.411(5) |
| Si(1)-C(1) | 1.868(6) | Si(1)-C(2) | 1.874(6) |
| Si(1)-C(3) | 1.879(6) | Si(1)-C(10) | 1.882(6) |
| Si(2)-C(5) | 1.875(7) | Si(2)-C(4) | 1.877(6) |
| Si(2)-C(1) | 1.886(6) | Si(2)-C(6) | 1.891(6) |
| Si(3)-C(9) | 1.870(6) | Si(3)-C(7) | 1.872(7) |
| Si(3)-C(8) | 1.887(6) | Si(3)-C(1) | 1.901(5) |
| Si(4)-C(13) | 1.886(6) | Si(4)-C(20) | 1.886(6) |
| Si(4)-C(12) | 1.888(6) | Si(4)-C(11) | 1.890(6) |
| Si(5)-C(16) | 1.877(7) | Si(5)-C(14) | 1.881(7) |
| Si(5)-C(15) | 1.882(7) | Si(5)-C(20) | 1.885(6) |
| Si(6)-C(19) | 1.874(7) | Si(6)-C(18) | 1.875(6) |
| Si(6)-C(20) | 1.884(5) | Si(6)-C(17) | 1.885(7) |
| C(10)-C(11) | 1.539(8) | | |
| C(1)-Pb-C(20) | 117.1(2) | C(1)-Si(1)-C(2) | 112.8(3) |
| C(1)-Si(1)-C(3) | 111.7(3) | C(2)-Si(1)-C(3) | 105.6(3) |
| C(1)-Si(1)-C(10) | 115.2(3) | C(2)-Si(1)-C(10) | 106.2(3) |
| C(3)-Si(1)-C(10) | 104.5(3) | C(5)-Si(2)-C(4) | 106.1(3) |
| C(5)-Si(2)-C(1) | 112.9(3) | C(4)-Si(2)-C(1) | 114.8(3) |
| C(5)-Si(2)-C(6) | 105.9(3) | C(4)-Si(2)-C(6) | 103.5(3) |
| C(1)-Si(2)-C(6) | 112.8(3) | C(9)-Si(3)-C(7) | 106.4(3) |
| C(9)-Si(3)-C(8) | 106.4(3) | C(7)-Si(3)-C(8) | 103.5(3) |
| C(9)-Si(3)-C(1) | 114.2(3) | C(7)-Si(3)-C(1) | 111.3(3) |
| C(8)-Si(3)-C(1) | 114.1(3) | C(13)-Si(4)-C(20) | 111.0(3) |
| C(13)-Si(4)-C(12) | 104.3(3) | C(20)-Si(4)-C(12) | 114.0(3) |
| C(13)-Si(4)-C(11) | 104.8(3) | C(20)-Si(4)-C(11) | 116.1(2) |
| C(12)-Si(4)-C(11) | 105.6(3) | C(16)-Si(5)-C(14) | 103.6(3) |
| C(16)-Si(5)-C(15) | 105.4(3) | C(14)-Si(5)-C(15) | 106.4(3) |
| C(16)-Si(5)-C(20) | 115.3(3) | C(14)-Si(5)-C(20) | 112.3(3) |
| C(15)-Si(5)-C(20) | 113.0(3) | C(19)-Si(6)-C(18) | 105.5(3) |
| C(19)-Si(6)-C(20) | 113.5(3) | C(18)-Si(6)-C(20) | 114.9(3) |
| C(19)-Si(6)-C(17) | 104.0(3) | C(18)-Si(6)-C(17) | 106.8(3) |
| C(20)-Si(6)-C(17) | 111.4(3) | Si(1)-C(1)-Si(2) | 112.6(3) |
| Si(1)-C(1)-Si(3) | 112.2(3) | Si(2)-C(1)-Si(3) | 110.7(3) |
| Si(1)-C(1)-Pb | 118.6(3) | Si(2)-C(1)-Pb | 104.7(2) |
| Si(3)-C(1)-Pb | 96.8(2) | C(11)-C(10)-Si(1) | 118.8(4) |
| C(10)-C(11)-Si(4) | 117.5(4) | Si(6)-C(20)-Si(4) | 111.8(3) |
| Si(6)-C(20)-Si(5) | 112.1(3) | Si(4)-C(20)-Si(5) | 111.8(3) |
| Si(6)-C(20)-Pb | 96.2(2) | Si(4)-C(20)-Pb | 119.2(3) |
| Si(5)-C(20)-Pb | 104.6(2) | | |

Table 3. Anisotropic displacement parameters ($Å^2 \times 10^3$) for 4.
The anisotropic displacement factor exponent takes the form:
$-2 \pi^2 [ h^2 a^{*2} U11 + ... + 2 h k a^* b^* U12 ]$

| | U11 | U22 | U33 | U23 | U13 | U12 |
|---|---|---|---|---|---|---|
| Pb | 22(1) | 15(1) | 15(1) | -2(1) | 4(1) | -7(1) |
| Si(1) | 23(1) | 15(1) | 22(1) | -1(1) | 4(1) | -10(1) |
| Si(2) | 21(1) | 20(1) | 18(1) | -4(1) | 2(1) | -10(1) |
| Si(3) | 19(1) | 20(1) | 19(1) | -4(1) | 6(1) | -9(1) |
| Si(4) | 19(1) | 19(1) | 21(1) | -4(1) | 3(1) | -6(1) |
| Si(5) | 21(1) | 25(1) | 18(1) | -3(1) | 0(1) | -9(1) |
| Si(6) | 28(1) | 27(1) | 19(1) | -3(1) | 6(1) | -17(1) |
| C(1) | 16(3) | 19(3) | 23(3) | -6(2) | 5(2) | -8(2) |
| C(2) | 28(3) | 23(3) | 51(4) | -11(3) | 8(3) | -18(3) |
| C(3) | 44(4) | 28(3) | 26(4) | 3(3) | 8(3) | -16(3) |
| C(4) | 23(3) | 30(3) | 34(4) | -10(3) | 0(3) | -9(3) |
| C(5) | 35(4) | 42(4) | 23(3) | -8(3) | 1(3) | -15(3) |
| C(6) | 36(4) | 32(3) | 35(4) | -5(3) | 3(3) | -25(3) |
| C(7) | 21(3) | 37(4) | 32(4) | -5(3) | 3(3) | -9(3) |
| C(8) | 25(3) | 18(3) | 33(4) | -7(2) | 5(3) | -6(2) |
| C(9) | 29(3) | 35(4) | 32(4) | -4(3) | 14(3) | -17(3) |
| C(10) | 20(3) | 18(3) | 23(3) | 3(2) | -2(2) | -3(2) |
| C(11) | 26(3) | 15(3) | 26(3) | -3(2) | 2(2) | -9(2) |
| C(12) | 24(3) | 38(4) | 30(4) | 4(3) | 0(3) | -13(3) |
| C(13) | 34(3) | 26(3) | 29(4) | -10(3) | 10(3) | -5(3) |
| C(14) | 25(3) | 38(4) | 34(4) | -2(3) | 0(3) | -6(3) |
| C(15) | 37(4) | 39(4) | 21(3) | -6(3) | -2(3) | -15(3) |
| C(16) | 35(4) | 49(4) | 39(4) | 2(3) | -9(3) | -28(3) |
| C(17) | 44(4) | 50(4) | 30(4) | -12(3) | 6(3) | -34(4) |
| C(18) | 32(3) | 48(4) | 19(3) | -9(3) | 11(3) | -20(3) |
| C(19) | 51(4) | 29(3) | 31(4) | 6(3) | 9(3) | -22(3) |
| C(20) | 21(3) | 16(3) | 15(3) | -5(2) | 9(2) | -8(2) |

Table 4. Hydrogen coordinates ( $\times 10^4$) and isotropic displacement parameters ($Å^2 \times 10^3$) for 4.

| | x | y | z | U(eq) |
|---|---|---|---|---|
| H(2A) | 554(8) | -1274(8) | 3251(3) | 47 |
| H(2B) | 84(8) | 302(8) | 2766(3) | 47 |
| H(2C) | -684(8) | 520(8) | 3423(3) | 47 |
| H(3A) | 2653(9) | -1896(8) | 4358(3) | 50 |
| H(3B) | 1489(9) | -113(8) | 4559(3) | 50 |
| H(3C) | 3422(9) | -695(8) | 4507(3) | 50 |
| H(4A) | 5862(7) | 869(8) | 3464(3) | 44 |
| H(4B) | 5583(7) | 12(8) | 4091(3) | 44 |
| H(4C) | 6262(7) | 1355(8) | 4096(3) | 44 |
| H(5A) | 1657(8) | 3835(9) | 4742(3) | 50 |
| H(5B) | 3550(8) | 3266(9) | 4920(3) | 50 |
| H(5C) | 2871(8) | 1924(9) | 4914(3) | 50 |
| H(6A) | 3782(8) | 4658(8) | 3149(3) | 46 |
| H(6B) | 4380(8) | 4777(8) | 3812(3) | 46 |
| H(6C) | 2463(8) | 5678(8) | 3619(3) | 46 |
| H(7A) | -1685(8) | 4603(9) | 2587(3) | 47 |
| H(7B) | -3122(8) | 5048(9) | 3061(3) | 47 |
| H(7C) | -2062(8) | 3179(9) | 2922(3) | 47 |
| H(8A) | -443(7) | 6527(7) | 3349(3) | 40 |
| H(8B) | -191(7) | 6066(7) | 4069(3) | 40 |
| H(8C) | -1991(7) | 6801(7) | 3755(3) | 40 |
| H(9A) | -506(8) | 2970(8) | 4671(3) | 46 |
| H(9B) | -1300(8) | 2123(8) | 4268(3) | 46 |
| H(9C) | -2360(8) | 3992(8) | 4407(3) | 46 |
| H(10A) | 4877(7) | -940(7) | 3140(3) | 27 |
| H(10B) | 4427(7) | -2413(7) | 3338(3) | 27 |
| H(11A) | 2666(7) | -1217(7) | 2326(3) | 27 |
| H(11B) | 4469(7) | -2715(7) | 2368(3) | 27 |
| H(12A) | 6485(7) | 1(9) | 2483(3) | 47 |
| H(12B) | 7154(7) | -174(9) | 1811(3) | 47 |
| H(12C) | 7355(7) | -1775(9) | 2240(3) | 47 |
| H(13A) | 5848(8) | -2696(8) | 1256(3) | 49 |
| H(13B) | 5541(8) | -1069(8) | 822(3) | 49 |
| H(13C) | 4053(8) | -1519(8) | 960(3) | 49 |
| H(14A) | -473(8) | 5103(9) | 1039(3) | 53 |
| H(14B) | -1150(8) | 4236(9) | 1556(3) | 53 |
| H(14C) | -1602(8) | 4270(9) | 857(3) | 53 |
| H(15A) | 2068(8) | 2799(9) | 116(3) | 49 |
| H(15B) | 670(8) | 2225(9) | 19(3) | 49 |
| H(15C) | 2516(8) | 882(9) | 202(3) | 49 |
| H(16A) | 1333(9) | -590(9) | 1305(3) | 57 |
| H(16B) | -458(9) | 667(9) | 1025(3) | 57 |
| H(16C) | -7(9) | 634(9) | 1724(3) | 57 |
| H(17A) | 6057(9) | 2674(10) | 2042(3) | 54 |
| H(17B) | 4478(9) | 4385(10) | 2110(3) | 54 |
| H(17C) | 5807(9) | 4301(10) | 1619(3) | 54 |
| H(18A) | 6371(8) | 1085(9) | 786(3) | 48 |
| H(18B) | 6117(8) | 2853(9) | 484(3) | 48 |
| H(18C) | 4957(8) | 2087(9) | 271(3) | 48 |
| H(19A) | 1719(9) | 5926(8) | 1139(3) | 55 |
| H(19B) | 1972(9) | 5192(8) | 498(3) | 55 |
| H(19C) | 3133(9) | 5959(8) | 710(3) | 55 |