Table S26. Crystal data and structure refinement for $[(C_5Me_4)SiMe_2(N\text{-}i\text{-}Pr)]Zr(C_4H_4Ph_2)$.

Identification code	lb331ccd
Empirical formula, weight	$C_{30}H_{39}NSiZr$, 532.93
Temperature, wavelength	223(2) K, 0.71073 Å
Crystal system, space group	monoclinic, $P2_1$
Unit cell dimensions	a = 12.4732(16) Å α = 90° b = 8.8130(11) Å β = 97.771(2)° c = 12.5616(16) Å γ = 90°
Volume, Z	1368.2(3) $Å^3$, 2
Density (calculated)	1.294 g/cm^3
Absorption coefficient	4.63 cm^{-1}
F(000)	560
Crystal size	0.04 x 0.16 x 0.32 mm
θ range for data collection	1.64 to 27.53°
Limiting indices	$-15 \le h \le 16$ $-10 \le k \le 11$ $-16 \le l \le 16$
Reflections collected	9870 (completeness: 99.0%)
Independent reflections	4772 (R_{int} = 0.0436)
Refinement method	Full-matrix least-squares on F^2
Data/restraints/parameters	4772 / 1 / 312
Goodness-of-fit on F^2, Flack	1.005, -0.02(4)
Final R indices [I>2σ(I)]	R1 = 0.0347, wR2 = 0.0709
R indices (all data)	R1 = 0.0472, wR2 = 0.0751
Largest diff. peak and hole	0.359 and -0.439 $eÅ^{-3}$

Table S27. Atomic coordinates [x 10^4] and equivalent isotropic displacement parameters [A^2 x 10^3] for [$(C_5Me_4)SiMe_2(N\text{-}i\text{-}Pr)$]$Zr(C_4H_4Ph_2)$. U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	U(eq)
Zr(1)	2803(1)	661(1)	3491(1)	28(1)
Si(1)	559(1)	302(1)	2245(1)	37(1)
N(1)	1638(3)	-825(3)	2765(3)	31(1)
C(1)	1297(4)	2125(4)	2650(4)	29(1)
C(2)	1483(3)	2660(4)	3724(3)	35(1)
C(3)	2473(3)	3441(4)	3892(3)	37(1)
C(4)	2926(3)	3412(3)	2902(3)	35(1)
C(5)	2201(3)	2620(4)	2139(3)	34(1)
C(6)	756(4)	2460(5)	4587(4)	54(1)
C(7)	2927(4)	4271(4)	4895(4)	53(1)
C(8)	3956(4)	4195(4)	2726(4)	50(1)
C(9)	2396(4)	2323(5)	999(3)	49(1)
C(10)	-717(4)	15(5)	2848(5)	67(2)
C(11)	117(5)	150(5)	771(4)	77(2)
C(12)	1698(3)	-2508(4)	2697(3)	41(1)
C(13)	1669(6)	-3020(6)	1557(4)	89(2)
C(14)	824(4)	-3253(4)	3239(6)	88(2)
C(15)	3535(3)	269(4)	5279(3)	37(1)
C(16)	3816(3)	-1085(4)	4733(3)	37(1)
C(17)	4305(3)	-1086(4)	3816(3)	38(1)
C(18)	4612(3)	281(4)	3292(3)	37(1)
C(19)	2998(3)	233(3)	6255(3)	34(1)
C(20)	2141(4)	-752(4)	6372(3)	46(1)
C(21)	1631(4)	-724(5)	7280(4)	54(1)
C(22)	1939(4)	290(6)	8088(4)	62(1)
C(23)	2766(4)	1272(5)	7996(4)	64(1)
C(24)	3279(4)	1255(5)	7090(3)	52(1)
C(25)	5120(3)	254(4)	2294(3)	37(1)
C(26)	4800(4)	-748(4)	1449(4)	52(1)
C(27)	5276(5)	-693(5)	520(4)	66(2)
C(28)	6065(4)	361(6)	394(4)	65(1)
C(29)	6392(4)	1342(5)	1215(4)	62(1)
C(30)	5931(3)	1282(5)	2154(4)	48(1)

Table S28. Interatomic distances [Å] and bond angles [°] for $[(C_5Me_4)SiMe_2(N\text{-}i\text{-}Pr)]Zr(C_4H_4Ph_2)$.

Zr(1)-Cp(c)	2.170
Zr(1)-C(1)	2.402(4)
Zr(1)-C(2)	2.456(4)
Zr(1)-C(3)	2.546(3)
Zr(1)-C(4)	2.545(3)
Zr(1)-C(5)	2.467(3)
Zr(1)-N(1)	2.074(3)
Zr(1)-C(15)	2.333(4)
Zr(1)-C(16)	2.421(4)
Zr(1)-C(17)	2.416(4)
Zr(1)-C(18)	2.327(4)
Zr(1)-Si(1)	3.0336(11)
Si(1)-N(1)	1.729(3)
Si(1)-C(1)	1.887(4)
Si(1)-C(10)	1.869(5)
Si(1)-C(11)	1.864(5)
N(1)-C(12)	1.488(5)
C(1)-C(2)	1.419(6)
C(1)-C(5)	1.438(6)
C(2)-C(3)	1.405(5)
C(2)-C(6)	1.514(6)
C(3)-C(4)	1.434(5)
C(3)-C(7)	1.500(5)
C(4)-C(5)	1.410(5)
C(4)-C(8)	1.501(5)
C(5)-C(9)	1.508(6)
C(12)-C(13)	1.498(6)
C(12)-C(14)	1.511(6)
C(15)-C(16)	1.443(5)
C(15)-C(19)	1.474(5)
C(16)-C(17)	1.374(5)
C(17)-C(18)	1.448(5)
C(18)-C(25)	1.481(5)
C(19)-C(24)	1.392(5)
C(19)-C(20)	1.401(5)
C(20)-C(21)	1.380(6)
C(21)-C(22)	1.367(7)
C(22)-C(23)	1.363(6)
C(23)-C(24)	1.379(6)
C(25)-C(30)	1.386(5)
C(25)-C(26)	1.397(6)
C(26)-C(27)	1.380(6)
C(27)-C(28)	1.378(7)

C(28)-C(29)	1.365(6)
C(29)-C(30)	1.382(6)

Cp(c)-Zr(1)-N(1)	102.0
N(1)-Zr(1)-C(15)	119.32(14)
N(1)-Zr(1)-C(16)	98.94(13)
N(1)-Zr(1)-C(17)	98.79(13)
N(1)-Zr(1)-C(18)	119.56(14)
C(15)-Zr(1)-C(18)	79.82(14)
N(1)-Si(1)-C(1)	93.45(16)
N(1)-Si(1)-C(10)	115.56(19)
N(1)-Si(1)-C(11)	116.4(2)
C(1)-Si(1)-C(10)	114.6(2)
C(1)-Si(1)-C(11)	113.4(2)
C(10)-Si(1)-C(11)	103.8(3)
C(12)-N(1)-Si(1)	126.4(3)
C(12)-N(1)-Zr(1)	128.1(3)
Si(1)-N(1)-Zr(1)	105.47(15)
C(2)-C(1)-C(5)	106.7(4)
C(2)-C(1)-Si(1)	123.4(3)
C(5)-C(1)-Si(1)	121.4(3)
C(3)-C(2)-C(1)	109.4(4)
C(3)-C(2)-C(6)	123.3(4)
C(1)-C(2)-C(6)	127.3(4)
C(2)-C(3)-C(4)	107.6(3)
C(2)-C(3)-C(7)	126.1(4)
C(4)-C(3)-C(7)	126.1(4)
C(5)-C(4)-C(3)	107.9(3)
C(5)-C(4)-C(8)	127.6(4)
C(3)-C(4)-C(8)	124.3(4)
C(4)-C(5)-C(1)	108.4(3)
C(4)-C(5)-C(9)	124.1(4)
C(1)-C(5)-C(9)	127.5(4)
N(1)-C(12)-C(13)	111.1(4)
N(1)-C(12)-C(14)	111.3(3)
C(13)-C(12)-C(14)	112.0(5)
C(16)-C(15)-C(19)	123.0(3)
C(16)-C(15)-Zr(1)	75.7(2)
C(19)-C(15)-Zr(1)	129.9(3)
C(17)-C(16)-C(15)	124.3(3)
C(17)-C(16)-Zr(1)	73.3(2)
C(15)-C(16)-Zr(1)	69.0(2)
C(16)-C(17)-C(18)	123.7(3)
C(16)-C(17)-Zr(1)	73.7(2)
C(18)-C(17)-Zr(1)	68.9(2)
C(17)-C(18)-C(25)	122.8(3)
C(17)-C(18)-Zr(1)	75.6(2)

C(25)-C(18)-Zr(1)	128.7(3)
C(24)-C(19)-C(20)	116.1(4)
C(24)-C(19)-C(15)	121.1(3)
C(20)-C(19)-C(15)	122.7(3)
C(21)-C(20)-C(19)	121.3(4)
C(22)-C(21)-C(20)	120.7(4)
C(23)-C(22)-C(21)	119.5(5)
C(22)-C(23)-C(24)	120.2(4)
C(23)-C(24)-C(19)	122.1(4)
C(30)-C(25)-C(26)	117.1(4)
C(30)-C(25)-C(18)	120.0(3)
C(26)-C(25)-C(18)	122.9(3)
C(27)-C(26)-C(25)	120.6(4)
C(28)-C(27)-C(26)	121.1(4)
C(29)-C(28)-C(27)	119.0(4)
C(28)-C(29)-C(30)	120.3(4)
C(29)-C(30)-C(25)	121.9(4)

Cp(c) corresponds to the centroid of the permethylated cyclopentadienyl ring.

Table S29. Anisotropic displacement parameters [$A^2 \times 10^3$] for $[(C_5Me_4)SiMe_2(N\text{-}i\text{-}Pr)]Zr(C_4H_4Ph_2)$. The anisotropic displacement factor exponent takes the form: $-2\pi^2[(ha^*)^2U_{11} + \ldots + 2hka^*b^*U_{12}]$.

	U_{11}	U_{22}	U_{33}	U_{23}	U_{13}	U_{12}
Zr(1)	28(1)	26(1)	30(1)	-1(1)	0(1)	2(1)
Si(1)	32(1)	34(1)	41(1)	6(1)	-6(1)	-3(1)
N(1)	31(2)	28(2)	34(2)	1(1)	0(2)	1(1)
C(1)	30(2)	28(2)	31(2)	6(2)	5(2)	6(2)
C(2)	37(2)	31(2)	38(2)	5(2)	6(2)	9(2)
C(3)	44(2)	24(2)	41(2)	-2(2)	-3(2)	7(2)
C(4)	36(2)	23(2)	46(2)	3(2)	4(2)	1(2)
C(5)	39(2)	27(2)	35(2)	5(2)	1(2)	0(2)
C(6)	51(3)	63(3)	50(3)	-2(2)	12(2)	13(2)
C(7)	61(3)	38(2)	55(3)	-11(2)	-12(2)	1(2)
C(8)	42(3)	34(2)	73(3)	3(2)	6(2)	-7(2)
C(9)	56(3)	53(2)	38(2)	6(2)	13(2)	-4(2)
C(10)	35(3)	45(2)	120(5)	16(3)	12(3)	2(2)
C(11)	97(4)	65(3)	57(3)	8(2)	-33(3)	-20(3)
C(12)	34(2)	32(2)	53(3)	-10(2)	-2(2)	4(2)
C(13)	133(6)	59(3)	63(4)	-33(3)	-25(4)	34(3)
C(14)	62(4)	29(2)	181(7)	19(3)	43(4)	1(2)
C(15)	36(2)	39(2)	35(2)	0(2)	-1(2)	-2(2)
C(16)	35(2)	33(2)	40(2)	5(2)	-6(2)	5(2)
C(17)	32(2)	33(2)	46(2)	0(2)	0(2)	9(2)
C(18)	29(2)	41(2)	41(2)	-7(2)	1(2)	-1(2)
C(19)	33(2)	34(2)	35(2)	3(1)	-2(2)	-2(2)
C(20)	50(3)	41(2)	46(3)	-1(2)	4(2)	1(2)
C(21)	53(3)	50(2)	61(3)	12(2)	14(3)	-3(2)
C(22)	62(3)	78(4)	48(3)	4(3)	16(2)	2(3)
C(23)	74(4)	73(3)	45(3)	-13(2)	6(3)	-8(3)
C(24)	51(3)	64(2)	39(2)	-8(2)	3(2)	-14(2)
C(25)	29(2)	38(2)	44(2)	0(2)	4(2)	7(2)
C(26)	57(3)	42(2)	58(3)	-8(2)	14(3)	-4(2)
C(27)	91(4)	61(3)	50(3)	-17(2)	20(3)	1(3)
C(28)	73(3)	64(3)	65(3)	-4(3)	32(3)	1(3)
C(29)	56(3)	63(3)	70(3)	2(3)	24(3)	-6(3)
C(30)	42(3)	51(2)	50(3)	-7(2)	11(2)	-3(2)

Table S30. Hydrogen atom coordinates (x 10^4) and isotropic displacement parameters (A^2 x 10^3) for $[(C_5Me_4)SiMe_2(N\text{-}i\text{-}Pr)]Zr(C_4H_4Ph_2)$.

	x	y	z	U(eq)
H(6A)	1176	2601	5289	81
H(6B)	449	1447	4540	81
H(6C)	178	3204	4486	81
H(7A)	2645	5298	4870	80
H(7B)	3710	4303	4948	80
H(7C)	2720	3750	5516	80
H(8A)	4279	3669	2170	75
H(8B)	4456	4186	3389	75
H(8C)	3800	5235	2506	75
H(9A)	1902	2932	511	73
H(9B)	2276	1256	832	73
H(9C)	3136	2589	920	73
H(10A)	-1114	-837	2501	100
H(10B)	-1158	924	2745	100
H(10C)	-541	-189	3610	100
H(11A)	742	-28	405	115
H(11B)	-235	1086	511	115
H(11C)	-387	-687	630	115
H(12)	2404	-2824	3092	49
H(13A)	990	-2712	1144	133
H(13B)	1732	-4116	1536	133
H(13C)	2265	-2563	1251	133
H(14A)	832	-2834	3954	133
H(14B)	954	-4338	3290	133
H(14C)	124	-3067	2820	133
H(15)	4040(30)	980(40)	5320(30)	44
H(16)	3654	-2027	5023	44
H(17)	4448	-2026	3512	45
H(18)	4900(30)	960(40)	3760(30)	44
H(20)	1908	-1447	5821	55
H(21)	1066	-1408	7345	65
H(22)	1584	309	8702	74
H(23)	2987	1964	8553	77
H(24)	3837	1957	7035	62
H(26)	4256	-1467	1514	62
H(27)	5057	-1385	-37	80
H(28)	6374	403	-248	78
H(29)	6933	2061	1141	74
H(30)	6174	1957	2714	57

Table S31. Crystal data and structure refinement for $[(C_5Me_4)SiMe_2(N\text{-}t\text{-}Bu)]Zr(C_4H_4Ph_2)$.

Identification code	lb336ccd
Empirical formula, weight	$C_{31}H_{41}NSiZr$, 546.96
Temperature, wavelength	223(2) K, 0.71073 Å
Crystal system, space group	monoclinic, $P2_1/n$
Unit cell dimensions	a = 8.106(1) Å α = 90° b = 27.937(3) Å β = 102.009(2)° c = 12.872(1) Å γ = 90°
Volume, Z	2851.0(5) $Å^3$, 4
Density (calculated)	1.274 g/cm^3
Absorption coefficient	4.46 cm^{-1}
F(000)	1152
Crystal size	0.14 x 0.18 x 0.20 mm
θ range for data collection	1.77 to 27.50°
Limiting indices	$-10 \le h \le 9$ $-36 \le k \le 34$ $-16 \le l \le 16$
Reflections collected	20264 (completeness: 99.3%)
Independent reflections	6511 (R_{int} = 0.0665)
Refinement method	Full-matrix least-squares on F^2
Data/restraints/parameters	6511 / 48 / 347
Goodness-of-fit on F^2	1.033
Final R indices [I>2σ(I)]	R1 = 0.0504, wR2 = 0.1144
R indices (all data)	R1 = 0.0900, wR2 = 0.1286
Largest diff. peak and hole	0.589 and -0.399 $eÅ^{-3}$

Table S32. Atomic coordinates [x 10^4] and equivalent isotropic displacement parameters [A^2 x 10^3] for [(C_5Me_4)$SiMe_2$(N-t-Bu)]Zr($C_4H_4Ph_2$). U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	U(eq)
Zr(1)	8808(1)	1261(1)	3610(1)	39(1)
Si(1)	7323(1)	2261(1)	3528(1)	42(1)
N(1)	9271(2)	2002(1)	3544(1)	42(1)
C(1)	6257(3)	1684(1)	3693(2)	39(1)
C(2)	5736(3)	1333(1)	2866(2)	43(1)
C(3)	5838(3)	873(1)	3331(2)	48(1)
C(4)	6402(3)	922(1)	4441(2)	45(1)
C(5)	6662(3)	1414(1)	4670(2)	41(1)
C(6)	5137(4)	1436(1)	1692(2)	58(1)
C(7)	5281(3)	410(1)	2780(2)	61(1)
C(8)	6452(3)	526(1)	5226(2)	63(1)
C(9)	7249(4)	1615(1)	5775(2)	57(1)
C(10)	6347(4)	2586(1)	2290(2)	75(1)
C(11)	7203(4)	2692(1)	4623(2)	68(1)
C(12)	10822(3)	2278(1)	3473(2)	55(1)
C(13)	10695(5)	2800(1)	3861(4)	77(2)
C(14)	11052(6)	2259(2)	2367(3)	126(2)
C(15)	12333(5)	2066(2)	4238(4)	85(2)
C(13')	10466(15)	2803(3)	3094(10)	87(4)
C(14')	11762(14)	2058(5)	2624(8)	122(6)
C(15')	11963(15)	2236(6)	4527(7)	132(7)
C(16)	9245(3)	757(1)	2279(2)	58(1)
C(17)	10895(3)	841(1)	2820(2)	63(1)
C(18)	11515(4)	832(1)	3922(2)	62(1)
C(19)	10607(3)	741(1)	4715(2)	57(1)
C(20)	8786(3)	787(1)	1097(2)	58(1)
C(21)	7587(4)	471(1)	528(2)	73(1)
C(22)	7116(5)	500(1)	-564(3)	87(1)
C(23)	7839(4)	836(1)	-1126(2)	86(1)
C(24)	8978(5)	1138(1)	-581(3)	87(1)
C(25)	9457(4)	1122(1)	511(2)	70(1)
C(26)	11415(3)	780(1)	5859(2)	59(1)
C(27)	10721(4)	532(1)	6613(2)	69(1)
C(28)	11391(4)	579(1)	7684(2)	82(1)
C(29)	12790(5)	855(1)	8036(2)	87(1)
C(30)	13527(5)	1088(1)	7318(3)	92(1)
C(31)	12851(4)	1059(1)	6232(2)	69(1)

Table S33. Interatomic distances [Å] and bond angles [°] for $[(C_5Me_4)SiMe_2(N\text{-}t\text{-}Bu)]Zr(C_4H_4Ph_2)$.

Zr-Cp(c)	2.195
Zr(1)-C(1)	2.403(2)
Zr(1)-C(2)	2.483(2)
Zr(1)-C(3)	2.596(2)
Zr(1)-C(4)	2.590(2)
Zr(1)-C(5)	2.461(2)
Zr(1)-C(16)	2.301(3)
Zr(1)-C(17)	2.448(3)
Zr(1)-C(18)	2.459(3)
Zr(1)-C(19)	2.324(2)
Zr(1)-N(1)	2.1089(19)
Si(1)-N(1)	1.732(2)
Si(1)-C(1)	1.862(2)
Si(1)-C(10)	1.862(3)
Si(1)-C(11)	1.872(3)
N(1)-C(12)	1.494(3)
C(1)-C(5)	1.443(3)
C(1)-C(2)	1.445(3)
C(2)-C(3)	1.411(3)
C(2)-C(6)	1.515(3)
C(3)-C(4)	1.413(3)
C(3)-C(7)	1.501(3)
C(4)-C(5)	1.412(3)
C(4)-C(8)	1.495(3)
C(5)-C(9)	1.510(3)
C(12)-C(13)	1.550(4)
C(12)-C(14)	1.475(5)
C(12)-C(15)	1.523(5)
C(12)-C(13')	1.554(8)
C(12)-C(14')	1.582(10)
C(12)-C(15')	1.479(9)
C(16)-C(17)	1.393(4)
C(16)-C(20)	1.491(4)
C(17)-C(18)	1.403(4)
C(18)-C(19)	1.400(4)
C(19)-C(26)	1.485(3)
C(20)-C(25)	1.384(4)
C(20)-C(21)	1.401(4)
C(21)-C(22)	1.379(4)
C(22)-C(23)	1.388(5)
C(23)-C(24)	1.338(5)

C(24)-C(25)	1.379(4)
C(26)-C(31)	1.401(4)
C(26)-C(27)	1.402(4)
C(27)-C(28)	1.380(4)
C(28)-C(29)	1.366(5)
C(29)-C(30)	1.367(5)
C(30)-C(31)	1.393(4)

Cp(c)-Zr(1)-N(1)	102.1
N(1)-Zr(1)-C(16)	120.94(9)
N(1)-Zr(1)-C(17)	108.06(9)
N(1)-Zr(1)-C(18)	109.01(9)
N(1)-Zr(1)-C(19)	123.01(8)
C(16)-Zr(1)-C(19)	84.19(9)
N(1)-Si(1)-C(1)	94.64(10)
N(1)-Si(1)-C(10)	115.94(13)
N(1)-Si(1)-C(11)	116.73(11)
C(1)-Si(1)-C(10)	113.30(11)
C(1)-Si(1)-C(11)	111.91(12)
C(10)-Si(1)-C(11)	104.53(13)
Si(1)-N(1)-Zr(1)	103.92(9)
C(12)-N(1)-Si(1)	124.10(16)
C(12)-N(1)-Zr(1)	131.93(15)
C(2)-C(1)-C(5)	105.48(19)
C(2)-C(1)-Si(1)	125.11(18)
C(5)-C(1)-Si(1)	121.59(16)
C(1)-C(2)-C(3)	108.8(2)
C(1)-C(2)-C(6)	126.1(2)
C(3)-C(2)-C(6)	125.1(2)
C(2)-C(3)-C(4)	108.6(2)
C(2)-C(3)-C(7)	126.7(2)
C(4)-C(3)-C(7)	124.4(2)
C(3)-C(4)-C(5)	107.9(2)
C(3)-C(4)-C(8)	124.7(2)
C(5)-C(4)-C(8)	126.8(2)
C(4)-C(5)-C(1)	109.2(2)
C(1)-C(5)-C(9)	126.7(2)
C(4)-C(5)-C(9)	124.1(2)
N(1)-C(12)-C(13)	110.6(2)
N(1)-C(12)-C(14)	108.5(3)
N(1)-C(12)-C(15)	109.5(2)
C(13)-C(12)-C(14)	112.0(3)
C(13)-C(12)-C(15)	104.8(3)
C(14)-C(12)-C(15)	111.4(3)
N(1)-C(12)-C(13')	113.7(5)
N(1)-C(12)-C(14')	112.0(5)
N(1)-C(12)-C(15')	106.0(6)

C(13')-C(12)-C(14')	103.6(6)
C(13')-C(12)-C(15')	113.8(7)
C(14')-C(12)-C(15')	107.7(7)
C(17)-C(16)-C(20)	120.7(3)
C(17)-C(16)-Zr(1)	78.79(16)
C(20)-C(16)-Zr(1)	132.95(19)
C(16)-C(17)-C(18)	127.3(3)
C(19)-C(18)-C(17)	127.5(3)
C(18)-C(19)-C(26)	121.3(2)
C(18)-C(19)-Zr(1)	78.37(16)
C(26)-C(19)-Zr(1)	130.68(19)
C(25)-C(20)-C(21)	116.7(3)
C(25)-C(20)-C(16)	123.4(3)
C(21)-C(20)-C(16)	119.8(3)
C(22)-C(21)-C(20)	120.7(3)
C(21)-C(22)-C(23)	120.9(3)
C(24)-C(23)-C(22)	118.3(3)
C(23)-C(24)-C(25)	122.1(3)
C(24)-C(25)-C(20)	121.2(3)
C(31)-C(26)-C(27)	117.6(2)
C(31)-C(26)-C(19)	122.9(3)
C(27)-C(26)-C(19)	119.5(3)
C(28)-C(27)-C(26)	120.9(3)
C(29)-C(28)-C(27)	120.8(3)
C(28)-C(29)-C(30)	119.6(3)
C(29)-C(30)-C(31)	121.0(3)
C(30)-C(31)-C(26)	120.1(3)

Cp(c) corresponds to the centroid of the permethylated cyclopentadienyl ring.

Table S34. Anisotropic displacement parameters [A^2 x 10^3] for [$(C_5Me_4)SiMe_2(N\text{-}t\text{-}Bu)$]$Zr(C_4H_4Ph_2)$. The anisotropic displacement factor exponent takes the form: $-2\pi^2[(ha^*)^2U_{11} + ... + 2hka^*b^*U_{12}]$.

	U_{11}	U_{22}	U_{33}	U_{23}	U_{13}	U_{12}
Zr(1)	28(1)	41(1)	46(1)	-2(1)	5(1)	1(1)
Si(1)	34(1)	39(1)	52(1)	5(1)	5(1)	1(1)
N(1)	30(1)	47(1)	50(1)	1(1)	10(1)	-3(1)
C(1)	27(1)	42(1)	48(1)	-1(1)	6(1)	3(1)
C(2)	28(1)	49(1)	51(1)	-3(1)	3(1)	3(1)
C(3)	28(1)	44(1)	71(2)	-6(1)	9(1)	-6(1)
C(4)	31(1)	47(1)	56(1)	6(1)	9(1)	-4(1)
C(5)	29(1)	50(1)	46(1)	1(1)	11(1)	-1(1)
C(6)	45(2)	79(2)	47(1)	-6(1)	0(1)	1(1)
C(7)	51(2)	48(1)	83(2)	-18(1)	12(1)	-12(1)
C(8)	51(2)	56(2)	83(2)	17(1)	19(1)	-3(1)
C(9)	63(2)	61(2)	48(1)	-2(1)	12(1)	-5(1)
C(10)	64(2)	64(2)	84(2)	31(2)	-11(2)	-10(2)
C(11)	59(2)	49(2)	101(2)	-13(2)	25(2)	-8(1)
C(12)	39(1)	58(2)	70(2)	0(1)	19(1)	-13(1)
C(13)	48(2)	55(2)	128(4)	3(2)	20(2)	-18(2)
C(14)	126(3)	189(6)	84(3)	-20(3)	69(3)	-84(4)
C(15)	30(2)	86(3)	135(4)	0(3)	10(2)	-11(2)
C(13')	92(8)	58(7)	128(11)	10(7)	61(8)	-28(6)
C(14')	75(7)	164(14)	155(12)	-62(10)	85(7)	-66(8)
C(15')	63(8)	240(18)	76(9)	-5(10)	-24(7)	-94(10)
C(16)	55(2)	64(2)	55(2)	-11(1)	8(1)	11(1)
C(17)	48(2)	82(2)	61(2)	-3(1)	18(1)	17(1)
C(18)	43(2)	72(2)	68(2)	-2(1)	4(1)	14(1)
C(19)	49(2)	65(2)	55(2)	2(1)	6(1)	18(1)
C(20)	56(2)	70(2)	49(1)	-4(1)	15(1)	16(1)
C(21)	80(2)	80(2)	58(2)	-8(2)	13(2)	-4(2)
C(22)	85(2)	110(3)	60(2)	-21(2)	2(2)	-4(2)
C(23)	82(2)	124(3)	49(2)	-6(2)	5(2)	16(2)
C(24)	88(2)	117(3)	59(2)	9(2)	24(2)	18(2)
C(25)	68(2)	85(2)	58(2)	-10(2)	13(2)	5(2)
C(26)	52(2)	65(2)	53(2)	-7(1)	-4(1)	25(1)
C(27)	55(2)	83(2)	63(2)	-4(2)	-1(1)	22(2)
C(28)	82(2)	103(2)	58(2)	0(2)	9(2)	40(2)
C(29)	105(3)	90(2)	54(2)	-17(2)	-12(2)	36(2)
C(30)	91(3)	71(2)	93(2)	-20(2)	-29(2)	16(2)
C(31)	72(2)	65(2)	64(2)	-4(1)	-4(2)	13(2)

Table S35. Hydrogen atom coordinates (x 10^4) and isotropic displacement parameters (A^2 x 10^3) for $[(C_5Me_4)SiMe_2(N\text{-}t\text{-}Bu)]Zr(C_4H_4Ph_2)$.

	x	y	z	U(eq)
H(6A)	4831	1138	1313	88
H(6B)	6034	1590	1422	88
H(6C)	4162	1645	1589	88
H(7A)	6179	176	2957	91
H(7B)	5017	461	2017	91
H(7C)	4286	293	3008	91
H(8A)	5310	437	5266	94
H(8B)	7055	632	5919	94
H(8C)	7023	251	5003	94
H(9A)	7568	1354	6274	86
H(9B)	6343	1797	5972	86
H(9C)	8214	1822	5789	86
H(10A)	6819	2906	2308	112
H(10B)	5138	2607	2237	112
H(10C)	6575	2415	1680	112
H(11A)	8034	2606	5252	102
H(11B)	6084	2680	4781	102
H(11C)	7427	3013	4403	102
H(13A)	11691	2977	3781	115
H(13B)	10617	2798	4602	115
H(13C)	9699	2951	3441	115
H(14A)	11208	1930	2172	189
H(14B)	12036	2445	2303	189
H(14C)	10062	2390	1897	189
H(15A)	12470	1734	4056	127
H(15B)	12150	2086	4958	127
H(15C)	13342	2244	4188	127
H(13D)	9783	2959	3530	131
H(13E)	9868	2805	2359	131
H(13F)	11525	2974	3158	131
H(14D)	12595	2284	2479	183
H(14E)	10950	1992	1972	183
H(14F)	12318	1763	2898	183
H(15D)	13071	2356	4488	198
H(15E)	12050	1903	4743	198
H(15F)	11515	2422	5043	198
H(16)	8944	431	2476	70
H(17)	11682	912	2399	75
H(18)	12673	893	4155	75

H(19)	10125	415	4594	68
H(21)	7098	237	894	87
H(22)	6294	289	-931	105
H(23)	7537	850	-1871	104
H(24)	9467	1369	-954	104
H(25)	10255	1344	864	84
H(27)	9785	331	6385	82
H(28)	10880	420	8179	98
H(29)	13242	883	8768	105
H(30)	14504	1271	7560	110
H(31)	13360	1227	5749	83