Structural data for [DADMB]YCl(THF)$_2$ (**2**)

Table 1. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]YCl(THF)$_2$ (**2**)

atom	x	y	z	B_{eq}
Y(1)	-0.47592(4)	-0.16953(7)	-0.314	1.98(2)
Cl(1)	-0.5616(1)	0.0192(2)	-0.2802(1)	3.74(6)
Si(1)	-0.5965(1)	-0.2571(2)	-0.4463(1)	2.54(6)
Si(2)	-0.3271(1)	-0.1208(3)	-0.1972(1)	2.50(6)
O(1)	-0.5479(3)	-0.2782(7)	-0.2338(3)	2.3(2)
O(2)	-0.4191(4)	-0.0220(5)	-0.3875(3)	2.6(1)
N(1)	-0.5196(4)	-0.2906(7)	-0.3954(3)	2.0(2)
N(2)	-0.3630(4)	-0.2063(6)	-0.2618(3)	2.1(2)
C(1)	-0.5008(5)	-0.4060(8)	-0.3648(4)	2.6(2)
C(2)	-0.5551(5)	-0.5062(8)	-0.3533(4)	2.1(2)
C(3)	-0.5353(5)	-0.6090(7)	-0.3189(5)	2.6(2)
C(4)	-0.4615(5)	-0.6218(8)	-0.2908(4)	2.3(2)
C(5)	-0.4060(5)	-0.5302(8)	-0.3023(4)	2.5(2)
C(6)	-0.4230(5)	-0.4202(8)	-0.3392(4)	1.0(2)
C(7)	-0.3556(5)	-0.3379(9)	-0.3593(4)	1.8(2)
C(8)	-0.3229(4)	-0.2452(7)	-0.3177(5)	2.1(2)
C(9)	-0.2510(5)	-0.1905(7)	-0.3364(4)	2.7(2)
C(10)	-0.2142(5)	-0.2259(9)	-0.3912(4)	2.3(2)
C(11)	-0.2476(5)	-0.3144(8)	-0.4329(4)	2.5(2)
C(12)	-0.3187(4)	-0.3692(8)	-0.4175(4)	1.7(2)
C(13)	-0.3517(5)	-0.4680(8)	-0.4605(4)	2.7(2)
C(14)	-0.3237(5)	-0.5464(8)	-0.2763(4)	2.8(2)
C(15)	-0.5844(5)	-0.3300(9)	-0.5299(4)	3.4(2)
C(16)	-0.5749(6)	-0.474(1)	-0.5248(4)	3.9(3)
C(17)	-0.6579(6)	-0.302(1)	-0.5711(5)	5.2(3)
C(18)	-0.5121(6)	-0.276(1)	-0.5637(5)	3.7(3)
C(19)	-0.5994(6)	-0.080(1)	-0.4566(5)	4.1(3)
C(20)	-0.6955(5)	-0.300(1)	-0.4150(5)	3.4(3)
C(21)	-0.2539(6)	-0.2135(9)	-0.1476(5)	2.7(2)
C(22)	-0.1855(6)	-0.265(1)	-0.1884(5)	4.0(3)
C(23)	-0.2202(7)	-0.129(1)	-0.0932(5)	5.1(3)
C(24)	-0.2968(5)	-0.327(1)	-0.1155(5)	4.0(3)

Table 1. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]YCl(THF)$_2$ (**2**)

atom	x	y	z	B_{eq}
C(25)	-0.4138(6)	-0.079(1)	-0.1459(5)	3.9(3)
C(26)	-0.2831(6)	0.0353(9)	-0.2192(5)	4.1(3)
C(27)	-0.5204(5)	-0.3736(9)	-0.1869(4)	2.9(2)
C(28)	-0.5755(6)	-0.363(1)	-0.1304(5)	3.8(3)
C(29)	-0.6511(7)	-0.314(2)	-0.1618(5)	6.9(4)
C(30)	-0.6324(6)	-0.278(1)	-0.2272(6)	5.2(3)
C(31)	-0.4125(7)	0.1141(9)	-0.3799(5)	4.8(3)
C(32)	-0.4296(6)	0.1659(9)	-0.4462(5)	5.1(3)
C(33)	-0.3955(6)	0.0645(9)	-0.4912(5)	3.8(3)
C(34)	-0.3862(5)	-0.0527(9)	-0.4489(5)	2.3(2)
H(1)	-0.606	-0.500	-0.370	2.499
H(2)	-0.572	-0.675	-0.313	3.171
H(3)	-0.450	-0.693	-0.264	2.790
H(4)	-0.228	-0.127	-0.310	3.248
H(5)	-0.165	-0.190	-0.401	2.819
H(6)	-0.222	-0.337	-0.472	3.035
H(7)	-0.320	-0.477	-0.498	3.206
H(8)	-0.403	-0.444	-0.473	3.206
H(9)	-0.354	-0.546	-0.438	3.206
H(10)	-0.300	-0.618	-0.296	3.323
H(11)	-0.326	-0.558	-0.231	3.323
H(12)	-0.294	-0.473	-0.286	3.323
H(13)	-0.619	-0.509	-0.504	4.642
H(14)	-0.570	-0.509	-0.567	4.642
H(15)	-0.530	-0.493	-0.500	4.642
H(16)	-0.702	-0.336	-0.550	6.275
H(17)	-0.652	-0.340	-0.613	6.275
H(18)	-0.664	-0.213	-0.576	6.275
H(19)	-0.507	-0.315	-0.605	4.485
H(20)	-0.518	-0.187	-0.569	4.485
H(21)	-0.467	-0.294	-0.538	4.485
H(22)	-0.552	-0.053	-0.476	4.891
H(23)	-0.642	-0.058	-0.484	4.891

Table 1. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]YCl(THF)$_2$ (**2**)

atom	x	y	z	B_{eq}
H(24)	-0.605	-0.041	-0.416	4.891
H(25)	-0.705	-0.257	-0.376	4.116
H(26)	-0.698	-0.389	-0.408	4.116
H(27)	-0.734	-0.277	-0.446	4.116
H(28)	-0.205	-0.323	-0.220	4.844
H(29)	-0.160	-0.197	-0.210	4.844
H(30)	-0.149	-0.307	-0.161	4.844
H(31)	-0.194	-0.058	-0.112	6.128
H(32)	-0.184	-0.176	-0.068	6.128
H(33)	-0.261	-0.100	-0.066	6.128
H(34)	-0.262	-0.369	-0.087	4.750
H(35)	-0.340	-0.296	-0.092	4.750
H(36)	-0.314	-0.383	-0.148	4.750
H(37)	-0.450	-0.032	-0.171	4.638
H(38)	-0.438	-0.155	-0.131	4.638
H(39)	-0.397	-0.030	-0.110	4.638
H(40)	-0.265	0.077	-0.181	4.861
H(41)	-0.240	0.022	-0.248	4.861
H(42)	-0.321	0.086	-0.240	4.861
H(43)	-0.469	-0.356	-0.174	3.467
H(44)	-0.523	-0.456	-0.205	3.467
H(45)	-0.556	-0.304	-0.099	4.618
H(46)	-0.583	-0.443	-0.111	4.618
H(47)	-0.670	-0.243	-0.139	8.322
H(48)	-0.689	-0.379	-0.162	8.322
H(49)	-0.652	-0.195	-0.236	6.255
H(50)	-0.655	-0.337	-0.257	6.255
H(51)	-0.449	0.144	-0.349	5.804
H(52)	-0.362	0.137	-0.366	5.804
H(53)	-0.405	0.245	-0.453	6.105
H(54)	-0.484	0.175	-0.453	6.105
H(55)	-0.430	0.048	-0.526	4.583
H(56)	-0.347	0.091	-0.508	4.583

Table 1. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]YCl(THF)$_2$ (**2**)

atom	x	y	z	B_{eq}
H(57)	-0.413	-0.122	-0.468	2.819
H(58)	-0.333	-0.073	-0.444	2.819

$B_{eq} = 8/3\ \pi^2(U_{11}(aa^*)^2 + U_{22}(bb^*)^2 + U_{33}(cc^*)^2 + 2U_{12}(aa^*bb^*)\cos\gamma + 2U_{13}(aa^*cc^*)\cos\beta + 2U_{23}(bb^*cc^*)\cos\alpha)$

Table 2. Anisotropic Displacement Parameters for [DADMB]YCl(THF)$_2$ (**2**)

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Y(1)	0.0240(4)	0.0293(4)	0.0276(4)	-0.0010(4)	0.0011(5)	-0.0024(5)
Cl(1)	0.049(2)	0.040(1)	0.054(2)	0.012(1)	0.015(1)	0.001(1)
Si(1)	0.024(1)	0.037(2)	0.034(2)	-0.001(1)	-0.003(1)	0.002(1)
Si(2)	0.032(1)	0.038(2)	0.031(2)	-0.008(1)	0.002(1)	-0.007(1)
O(1)	0.025(4)	0.049(4)	0.026(4)	0.008(3)	0.000(3)	0.003(3)
O(2)	0.044(4)	0.027(4)	0.027(4)	-0.008(3)	0.010(3)	-0.005(3)
N(1)	0.013(4)	0.032(4)	0.026(4)	0.001(4)	0.002(3)	0.004(3)
N(2)	0.029(4)	0.030(4)	0.019(4)	-0.010(4)	0.003(3)	-0.004(3)
C(1)	0.023(5)	0.030(5)	0.033(6)	-0.002(4)	-0.008(4)	-0.002(4)
C(2)	0.028(5)	0.026(5)	0.044(6)	0.003(5)	-0.002(4)	-0.003(4)
C(3)	0.038(5)	0.024(4)	0.037(6)	-0.013(4)	0.008(5)	-0.015(6)
C(4)	0.042(6)	0.018(5)	0.040(7)	-0.001(4)	-0.004(4)	0.004(3)
C(5)	0.025(5)	0.040(6)	0.032(7)	0.010(4)	-0.005(4)	0.007(4)
C(6)	0.022(5)	0.022(5)	0.028(5)	-0.008(4)	0.005(3)	-0.002(4)
C(7)	0.028(5)	0.040(6)	0.013(5)	-0.002(5)	-0.009(4)	0.003(4)
C(8)	0.028(4)	0.021(4)	0.027(5)	-0.003(3)	-0.002(5)	0.005(5)
C(9)	0.033(6)	0.023(5)	0.041(7)	-0.005(4)	-0.006(4)	0.006(4)
C(10)	0.025(5)	0.046(6)	0.040(7)	-0.009(5)	0.002(4)	0.019(5)
C(11)	0.040(6)	0.042(6)	0.021(5)	0.015(5)	-0.006(4)	0.001(4)
C(12)	0.017(5)	0.030(5)	0.025(6)	0.005(4)	-0.004(4)	0.001(4)
C(13)	0.030(5)	0.037(6)	0.033(5)	-0.001(5)	0.003(4)	-0.006(4)
C(14)	0.041(6)	0.027(5)	0.043(6)	0.001(5)	0.000(5)	0.004(4)
C(15)	0.040(6)	0.043(6)	0.028(6)	-0.013(5)	-0.019(4)	0.000(5)
C(16)	0.054(7)	0.068(8)	0.029(6)	0.005(6)	0.003(5)	-0.021(5)
C(17)	0.036(6)	0.083(9)	0.048(7)	-0.009(6)	-0.015(5)	0.005(6)
C(18)	0.046(7)	0.071(7)	0.035(6)	-0.002(6)	-0.003(5)	-0.001(5)
C(19)	0.056(7)	0.061(8)	0.034(6)	0.012(6)	-0.013(5)	-0.007(5)
C(20)	0.022(5)	0.078(8)	0.041(7)	-0.010(6)	-0.006(4)	0.001(5)
C(21)	0.042(6)	0.048(6)	0.040(6)	-0.018(5)	-0.005(5)	0.004(5)
C(22)	0.042(7)	0.072(8)	0.033(7)	0.004(6)	0.002(5)	0.000(6)
C(23)	0.065(8)	0.079(9)	0.056(8)	-0.009(7)	-0.027(6)	-0.007(6)
C(24)	0.038(6)	0.064(7)	0.038(6)	-0.025(6)	-0.004(4)	0.006(6)
C(25)	0.053(7)	0.067(8)	0.039(7)	-0.005(6)	-0.002(5)	-0.022(6)

Table 2. Anisotropic Displacement Parameters for [DADMB]YCl(THF)$_2$ (**2**)

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
C(26)	0.039(6)	0.026(6)	0.080(8)	-0.012(5)	0.001(5)	-0.020(5)
C(27)	0.028(5)	0.048(6)	0.032(6)	0.006(5)	0.007(4)	0.007(4)
C(28)	0.032(6)	0.069(8)	0.035(7)	0.015(6)	0.007(5)	0.014(5)
C(29)	0.058(8)	0.17(2)	0.034(8)	0.023(10)	0.021(6)	0.046(8)
C(30)	0.030(6)	0.086(10)	0.074(9)	0.014(7)	0.006(6)	0.023(7)
C(31)	0.093(10)	0.030(5)	0.060(8)	-0.014(6)	0.040(7)	-0.021(6)
C(32)	0.069(7)	0.034(6)	0.070(8)	-0.007(6)	0.022(6)	0.008(6)
C(33)	0.049(7)	0.039(6)	0.050(7)	0.008(5)	0.012(5)	0.014(5)
C(34)	0.040(6)	0.051(6)	0.025(6)	0.011(5)	0.014(4)	-0.005(5)

The general temperature factor expression:

$$\exp(-2\pi^2(a^{*2}U_{11}h^2 + b^{*2}U_{22}k^2 + c^{*2}U_{33}l^2 + 2a^*b^*U_{12}hk + 2a^*c^*U_{13}hl + 2b^*c^*U_{23}kl))$$

Table 3. Bond Lengths (Å) for [DADMB]YCl(THF)$_2$ (**2**)

atom	atom	distance	atom	atom	distance
Y(1)	Cl(1)	2.574(2)	Y(1)	O(1)	2.365(6)
Y(1)	O(2)	2.388(5)	Y(1)	N(1)	2.247(7)
Y(1)	N(2)	2.252(7)	Y(1)	C(1)	2.745(8)
Y(1)	C(6)	2.847(8)	Y(1)	C(7)	2.884(9)
Y(1)	C(8)	2.749(7)	Si(1)	N(1)	1.726(7)
Si(1)	C(15)	1.904(10)	Si(1)	C(19)	1.88(1)
Si(1)	C(20)	1.876(9)	Si(2)	N(2)	1.727(7)
Si(2)	C(21)	1.895(10)	Si(2)	C(25)	1.88(1)
Si(2)	C(26)	1.870(10)	O(1)	C(27)	1.48(1)
O(1)	C(30)	1.46(1)	O(2)	C(31)	1.45(1)
O(2)	C(34)	1.429(10)	N(1)	C(1)	1.41(1)
N(2)	C(8)	1.41(1)	C(1)	C(2)	1.43(1)
C(1)	C(6)	1.45(1)	C(2)	C(3)	1.34(1)
C(3)	C(4)	1.40(1)	C(4)	C(5)	1.38(1)
C(5)	C(6)	1.42(1)	C(5)	C(14)	1.52(1)
C(6)	C(7)	1.51(1)	C(7)	C(8)	1.42(1)
C(7)	C(12)	1.40(1)	C(8)	C(9)	1.42(1)
C(9)	C(10)	1.35(1)	C(10)	C(11)	1.40(1)
C(11)	C(12)	1.39(1)	C(12)	C(13)	1.49(1)
C(15)	C(16)	1.53(1)	C(15)	C(17)	1.55(1)
C(15)	C(18)	1.53(1)	C(21)	C(22)	1.55(1)
C(21)	C(23)	1.55(1)	C(21)	C(24)	1.55(1)
C(27)	C(28)	1.51(1)	C(28)	C(29)	1.54(1)
C(29)	C(30)	1.44(1)	C(31)	C(32)	1.51(2)
C(32)	C(33)	1.53(1)	C(33)	C(34)	1.52(1)

Table 4. Bond Angles (°) for [DADMB]YCl(THF)$_2$ (**2**).

atom	atom	atom	angle	atom	atom	atom	angle
Cl(1)	Y(1)	O(1)	83.5(2)	N(2)	Y(1)	C(1)	99.3(2)
Cl(1)	Y(1)	O(2)	84.3(1)	N(2)	Y(1)	C(6)	69.7(2)
Cl(1)	Y(1)	N(1)	116.9(2)	N(2)	Y(1)	C(7)	55.5(2)
Cl(1)	Y(1)	N(2)	119.8(2)	N(2)	Y(1)	C(8)	30.7(2)
Cl(1)	Y(1)	C(1)	136.0(2)	C(1)	Y(1)	C(6)	29.9(2)
Cl(1)	Y(1)	C(6)	162.2(2)	C(1)	Y(1)	C(7)	54.9(2)
Cl(1)	Y(1)	C(7)	167.3(2)	C(1)	Y(1)	C(8)	82.7(2)
Cl(1)	Y(1)	C(8)	141.2(2)	C(6)	Y(1)	C(7)	30.5(2)
O(1)	Y(1)	O(2)	167.9(2)	C(6)	Y(1)	C(8)	54.5(2)
O(1)	Y(1)	N(1)	94.3(2)	C(7)	Y(1)	C(8)	29.1(2)
O(1)	Y(1)	N(2)	91.8(2)	N(1)	Si(1)	C(15)	112.9(4)
O(1)	Y(1)	C(1)	75.3(2)	N(1)	Si(1)	C(19)	107.0(4)
O(1)	Y(1)	C(6)	81.1(2)	N(1)	Si(1)	C(20)	115.6(4)
O(1)	Y(1)	C(7)	107.7(2)	C(15)	Si(1)	C(19)	107.6(5)
O(1)	Y(1)	C(8)	112.3(2)	C(15)	Si(1)	C(20)	108.3(4)
O(2)	Y(1)	N(1)	91.6(2)	C(19)	Si(1)	C(20)	104.9(5)
O(2)	Y(1)	N(2)	93.8(2)	N(2)	Si(2)	C(21)	112.8(4)
O(2)	Y(1)	C(1)	114.3(2)	N(2)	Si(2)	C(25)	106.0(4)
O(2)	Y(1)	C(6)	111.0(2)	N(2)	Si(2)	C(26)	114.6(4)
O(2)	Y(1)	C(7)	84.3(2)	C(21)	Si(2)	C(25)	109.9(5)
O(2)	Y(1)	C(8)	77.3(2)	C(21)	Si(2)	C(26)	108.6(4)
N(1)	Y(1)	N(2)	123.3(2)	C(25)	Si(2)	C(26)	104.5(5)
N(1)	Y(1)	C(1)	30.8(2)	Y(1)	O(1)	C(27)	128.6(5)
N(1)	Y(1)	C(6)	55.9(2)	Y(1)	O(1)	C(30)	125.8(6)
N(1)	Y(1)	C(7)	69.1(2)	C(27)	O(1)	C(30)	105.1(7)
N(1)	Y(1)	C(8)	97.6(3)	Y(1)	O(2)	C(31)	127.5(5)
Y(1)	O(2)	C(34)	125.6(5)	Y(1)	C(7)	C(6)	73.4(5)
C(31)	O(2)	C(34)	106.9(7)	Y(1)	C(7)	C(8)	70.2(5)
Y(1)	N(1)	Si(1)	126.7(4)	Y(1)	C(7)	C(12)	138.7(6)
Y(1)	N(1)	C(1)	94.5(5)	C(6)	C(7)	C(8)	122.3(7)
Si(1)	N(1)	C(1)	128.8(6)	C(6)	C(7)	C(12)	116.7(7)
Y(1)	N(2)	Si(2)	126.0(4)	C(8)	C(7)	C(12)	120.3(8)
Y(1)	N(2)	C(8)	94.6(5)	Y(1)	C(8)	N(2)	54.7(4)

Table 4. Bond Angles (°) for [DADMB]YCl(THF)$_2$ (**2**).

atom	atom	atom	angle	atom	atom	atom	angle
Si(2)	N(2)	C(8)	127.8(6)	Y(1)	C(8)	C(7)	80.7(5)
Y(1)	C(1)	N(1)	54.7(4)	Y(1)	C(8)	C(9)	136.3(5)
Y(1)	C(1)	C(2)	135.3(6)	N(2)	C(8)	C(7)	120.4(7)
Y(1)	C(1)	C(6)	79.0(5)	N(2)	C(8)	C(9)	122.2(7)
N(1)	C(1)	C(2)	124.3(7)	C(7)	C(8)	C(9)	117.3(8)
N(1)	C(1)	C(6)	117.8(7)	C(8)	C(9)	C(10)	121.7(8)
C(2)	C(1)	C(6)	117.7(7)	C(9)	C(10)	C(11)	120.7(8)
C(1)	C(2)	C(3)	121.5(8)	C(10)	C(11)	C(12)	119.9(8)
C(2)	C(3)	C(4)	121.8(8)	C(7)	C(12)	C(11)	119.8(8)
C(3)	C(4)	C(5)	119.1(8)	C(7)	C(12)	C(13)	120.6(8)
C(4)	C(5)	C(6)	121.6(8)	C(11)	C(12)	C(13)	119.4(8)
C(4)	C(5)	C(14)	120.2(8)	Si(1)	C(15)	C(16)	110.5(6)
C(6)	C(5)	C(14)	118.2(7)	Si(1)	C(15)	C(17)	109.5(7)
Y(1)	C(6)	C(1)	71.1(5)	Si(1)	C(15)	C(18)	110.7(6)
Y(1)	C(6)	C(5)	136.6(6)	C(16)	C(15)	C(17)	108.2(8)
Y(1)	C(6)	C(7)	76.1(5)	C(16)	C(15)	C(18)	108.2(9)
C(1)	C(6)	C(5)	118.2(7)	C(17)	C(15)	C(18)	109.7(8)
C(1)	C(6)	C(7)	123.3(7)	Si(2)	C(21)	C(22)	112.9(7)
C(5)	C(6)	C(7)	117.6(7)	Si(2)	C(21)	C(23)	110.0(7)
Si(2)	C(21)	C(24)	108.3(6)	C(22)	C(21)	C(23)	108.5(8)
C(22)	C(21)	C(24)	108.9(8)	C(23)	C(21)	C(24)	108.2(8)
O(1)	C(27)	C(28)	104.8(7)	C(27)	C(28)	C(29)	103.2(8)
C(28)	C(29)	C(30)	107.2(9)	O(1)	C(30)	C(29)	108.0(9)
O(2)	C(31)	C(32)	104.2(8)	C(31)	C(32)	C(33)	103.1(8)
C(32)	C(33)	C(34)	104.9(8)	O(2)	C(34)	C(33)	106.6(7)

Structural data for [DADMB]Y(OSiMe$_3$)(THF)$_2$ (**4**).

Table 5. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]Y(OSiMe$_3$)(THF)$_2$ (**4**).

atom	x	y	z	B_{eq}
Y(1)	0.85703(4)	0.21349(2)	0.09482(2)	1.686(9)
Si(1)	0.5669(1)	0.28712(8)	0.03117(6)	2.05(3)
Si(2)	1.1176(1)	0.13056(7)	0.19181(6)	2.06(3)
Si(3)	0.9591(1)	0.22446(8)	-0.05574(6)	2.47(3)
O(1)	0.9183(3)	0.2162(2)	0.0099(1)	2.21(7)
O(2)	0.9301(3)	0.3411(2)	0.1082(1)	2.30(7)
O(3)	0.7966(3)	0.0859(2)	0.0647(1)	2.29(7)
N(1)	0.6663(3)	0.2496(2)	0.0959(2)	1.68(8)
N(2)	0.9805(3)	0.1761(2)	0.1861(2)	1.80(8)
C(1)	0.6432(4)	0.1952(2)	0.1394(2)	1.82(9)
C(2)	0.5441(4)	0.1439(3)	0.1262(2)	2.4(1)
C(3)	0.5279(4)	0.0868(3)	0.1671(2)	2.7(1)
C(4)	0.6099(4)	0.0776(3)	0.2246(2)	2.9(1)
C(5)	0.7078(4)	0.1273(3)	0.2410(2)	2.4(1)
C(6)	0.7261(4)	0.1862(2)	0.1991(2)	1.71(9)
C(7)	0.8235(4)	0.2444(2)	0.2254(2)	1.74(9)
C(8)	0.9472(4)	0.2319(2)	0.2257(2)	1.77(10)
C(9)	1.0323(4)	0.2832(3)	0.2637(2)	2.7(1)
C(10)	0.9957(5)	0.3414(3)	0.2966(2)	3.1(1)
C(11)	0.8747(5)	0.3553(3)	0.2941(2)	2.9(1)
C(12)	0.7890(4)	0.3067(3)	0.2592(2)	2.2(1)
C(13)	0.6576(5)	0.3186(3)	0.2604(2)	3.4(1)
C(14)	0.7914(5)	0.1192(3)	0.3048(2)	3.1(1)
C(15)	0.6609(5)	0.3412(3)	-0.0145(2)	3.1(1)
C(16)	0.4820(5)	0.2136(3)	-0.0260(2)	3.7(1)
C(17)	0.4532(4)	0.3566(3)	0.0524(2)	2.6(1)
C(18)	0.3634(5)	0.3844(3)	-0.0083(3)	3.9(1)
C(19)	0.3795(4)	0.3184(3)	0.0957(3)	3.2(1)
C(20)	0.5171(5)	0.4272(3)	0.0861(3)	3.3(1)
C(21)	1.1081(5)	0.0827(3)	0.1139(2)	2.8(1)
C(22)	1.2534(4)	0.1950(3)	0.2037(3)	3.1(1)
C(23)	1.1493(4)	0.0537(3)	0.2552(2)	2.4(1)

Table 5. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]Y($OSiMe_3$)$(THF)_2$ (**4**).

atom	x	y	z	B_{eq}
C(24)	1.0473(5)	-0.0069(3)	0.2443(2)	3.3(1)
C(25)	1.1615(5)	0.0897(3)	0.3204(2)	3.0(1)
C(26)	1.2679(5)	0.0116(3)	0.2537(3)	3.6(1)
C(27)	1.1044(6)	0.1737(4)	-0.0519(3)	4.5(2)
C(28)	0.8452(6)	0.1831(3)	-0.1227(3)	4.1(2)
C(29)	0.9823(5)	0.3270(3)	-0.0753(3)	3.6(1)
C(30)	1.0491(4)	0.3632(3)	0.1025(2)	2.6(1)
C(31)	1.0347(5)	0.4461(3)	0.0800(2)	3.6(1)
C(32)	0.9283(5)	0.4761(3)	0.1040(3)	4.0(1)
C(33)	0.8796(5)	0.4075(3)	0.1333(2)	3.0(1)
C(34)	0.7783(5)	0.0554(3)	0.0008(2)	3.3(1)
C(35)	0.6824(5)	-0.0051(3)	-0.0040(3)	3.7(1)
C(36)	0.6744(5)	-0.0232(3)	0.0633(3)	3.3(1)
C(37)	0.7762(4)	0.0225(3)	0.1036(2)	2.6(1)
H(1)	0.4864	0.1492	0.0874	2.8668
H(2)	0.4604	0.0532	0.1561	3.2338
H(3)	0.5989	0.0374	0.2526	3.4356
H(4)	1.1161	0.2762	0.2659	3.2603
H(5)	1.0547	0.3735	0.3222	3.7772
H(6)	0.8510	0.3978	0.3162	3.5142
H(7)	0.6506	0.3609	0.2872	4.0958
H(8)	0.6272	0.2733	0.2760	4.0958
H(9)	0.6127	0.3290	0.2189	4.0958
H(10)	0.8717	0.1123	0.2998	3.7484
H(11)	0.7872	0.1644	0.3289	3.7484
H(12)	0.7681	0.0758	0.3259	3.7484
H(13)	0.7022	0.3818	0.0108	3.7350
H(14)	0.7179	0.3072	-0.0260	3.7350
H(15)	0.6104	0.3622	-0.0515	3.7350
H(16)	0.5378	0.1802	-0.0393	4.4608
H(17)	0.4347	0.2392	-0.0617	4.4608
H(18)	0.4308	0.1843	-0.0058	4.4608
H(19)	0.4068	0.4086	-0.0356	4.6847

Table 5. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]Y($OSiMe_3$)$(THF)_2$ (**4**).

atom	x	y	z	B_{eq}
H(20)	0.3083	0.4202	0.0028	4.6847
H(21)	0.3202	0.3414	-0.0291	4.6847
H(22)	0.3241	0.3548	0.1058	3.7946
H(23)	0.3364	0.2756	0.0746	3.7946
H(24)	0.4325	0.3014	0.1334	3.7946
H(25)	0.5722	0.4115	0.1236	3.9907
H(26)	0.5597	0.4529	0.0591	3.9907
H(27)	0.4591	0.4613	0.0966	3.9907
H(28)	1.1815	0.0564	0.1142	3.3654
H(29)	1.0433	0.0468	0.1064	3.3654
H(30)	1.0945	0.1205	0.0814	3.3654
H(31)	1.2431	0.2315	0.1703	3.6820
H(32)	1.2625	0.2214	0.2428	3.6820
H(33)	1.3233	0.1648	0.2040	3.6820
H(34)	1.0652	-0.0453	0.2763	3.9170
H(35)	1.0408	-0.0302	0.2041	3.9170
H(36)	0.9732	0.0175	0.2459	3.9170
H(37)	1.0879	0.1144	0.3227	3.6443
H(38)	1.1793	0.0507	0.3518	3.6443
H(39)	1.2249	0.1266	0.3274	3.6443
H(40)	1.3327	0.0475	0.2616	4.2624
H(41)	1.2619	-0.0112	0.2133	4.2624
H(42)	1.2823	-0.0273	0.2852	4.2624
H(43)	1.0952	0.1206	-0.0433	5.3693
H(44)	1.1273	0.1789	-0.0912	5.3693
H(45)	1.1649	0.1956	-0.0193	5.3693
H(46)	0.8344	0.1299	-0.1151	4.9072
H(47)	0.7707	0.2094	-0.1264	4.9072
H(48)	0.8725	0.1889	-0.1607	4.9072
H(49)	1.0054	0.3297	-0.1147	4.3223
H(50)	0.9093	0.3548	-0.0779	4.3223
H(51)	1.0439	0.3489	-0.0433	4.3223
H(52)	1.1046	0.3598	0.1422	3.0893

Table 5. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]Y($OSiMe_3$)$(THF)_2$ (**4**).

atom	x	y	z	B_{eq}
H(53)	1.0759	0.3316	0.0727	3.0893
H(54)	1.0187	0.4484	0.0352	4.2694
H(55)	1.1053	0.4751	0.0972	4.2694
H(56)	0.9534	0.5153	0.1346	4.7645
H(57)	0.8684	0.4961	0.0701	4.7645
H(58)	0.9049	0.4091	0.1780	3.6062
H(59)	0.7939	0.4064	0.1217	3.6062
H(60)	0.7523	0.0950	-0.0293	3.9175
H(61)	0.8508	0.0333	-0.0060	3.9175
H(62)	0.6073	0.0138	-0.0274	4.4350
H(63)	0.7041	-0.0501	-0.0240	4.4350
H(64)	0.6850	-0.0768	0.0717	3.9379
H(65)	0.5988	-0.0072	0.0707	3.9379
H(66)	0.8468	-0.0084	0.1151	3.1373
H(67)	0.7539	0.0407	0.1406	3.1373

$$B_{eq} = 8/3\ \pi^2(U_{11}(aa^*)^2 + U_{22}(bb^*)^2 + U_{33}(cc^*)^2 + 2U_{12}(aa^*bb^*)\cos\gamma + 2U_{13}(aa^*cc^*)\cos\beta + 2U_{23}(bb^*cc^*)\cos\alpha)$$

Table 6. Anisotropic Displacement Parameters for [DADMB]Y($OSiMe_3$)$(THF)_2$ (**4**).

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Y(1)	0.0231(2)	0.0194(2)	0.0216(2)	-0.0008(2)	0.0065(2)	-0.0007(2)
Si(1)	0.0274(7)	0.0274(7)	0.0235(6)	0.0021(6)	0.0060(5)	0.0020(6)
Si(2)	0.0260(7)	0.0293(7)	0.0249(7)	0.0044(6)	0.0090(5)	0.0040(6)
Si(3)	0.0367(7)	0.0319(8)	0.0251(7)	0.0021(6)	0.0093(6)	0.0013(6)
O(1)	0.032(2)	0.028(2)	0.026(2)	-0.003(2)	0.010(1)	0.002(1)
O(2)	0.032(2)	0.018(2)	0.038(2)	-0.004(1)	0.012(1)	-0.005(1)
O(3)	0.037(2)	0.024(2)	0.024(2)	-0.005(1)	0.012(1)	-0.007(1)
N(1)	0.027(2)	0.019(2)	0.020(2)	0.002(2)	0.007(2)	0.004(2)
N(2)	0.023(2)	0.026(2)	0.021(2)	-0.001(2)	0.005(2)	-0.004(2)
C(1)	0.025(2)	0.014(2)	0.027(2)	0.007(2)	0.007(2)	0.000(2)
C(2)	0.028(3)	0.031(3)	0.029(3)	0.000(2)	0.007(2)	-0.002(2)
C(3)	0.031(3)	0.033(3)	0.041(3)	-0.004(2)	0.018(2)	0.000(2)
C(4)	0.040(3)	0.025(3)	0.040(3)	0.002(2)	0.021(2)	0.009(2)
C(5)	0.035(3)	0.029(3)	0.027(3)	0.009(2)	0.013(2)	0.003(2)
C(6)	0.025(2)	0.021(2)	0.022(2)	0.003(2)	0.012(2)	0.000(2)
C(7)	0.033(3)	0.022(2)	0.015(2)	0.003(2)	0.009(2)	0.006(2)
C(8)	0.032(2)	0.021(3)	0.018(2)	0.002(2)	0.008(2)	0.006(2)
C(9)	0.032(3)	0.036(3)	0.030(3)	0.001(2)	0.002(2)	-0.001(2)
C(10)	0.047(3)	0.039(3)	0.029(3)	-0.003(3)	0.004(2)	-0.010(2)
C(11)	0.057(3)	0.032(3)	0.030(3)	0.006(3)	0.013(2)	-0.006(2)
C(12)	0.042(3)	0.026(3)	0.019(2)	0.008(2)	0.010(2)	0.001(2)
C(13)	0.046(3)	0.042(3)	0.040(3)	0.014(3)	0.011(3)	-0.011(3)
C(14)	0.042(3)	0.044(3)	0.035(3)	0.005(2)	0.015(2)	0.012(3)
C(15)	0.043(3)	0.053(4)	0.026(3)	0.012(3)	0.013(2)	0.013(2)
C(16)	0.052(3)	0.050(3)	0.033(3)	-0.002(3)	-0.001(2)	-0.010(3)
C(17)	0.028(3)	0.031(3)	0.037(3)	0.006(2)	0.011(2)	0.011(2)
C(18)	0.039(3)	0.050(4)	0.054(4)	0.014(3)	0.006(3)	0.020(3)
C(19)	0.035(3)	0.046(3)	0.049(3)	0.006(2)	0.014(3)	0.001(3)
C(20)	0.053(3)	0.025(3)	0.055(4)	0.005(2)	0.022(3)	-0.001(3)
C(21)	0.044(3)	0.049(3)	0.028(3)	0.021(3)	0.015(2)	0.004(2)
C(22)	0.029(3)	0.044(3)	0.057(4)	0.002(2)	0.016(2)	0.008(3)
C(23)	0.027(3)	0.032(3)	0.026(3)	0.004(2)	0.007(2)	0.003(2)
C(24)	0.053(3)	0.037(3)	0.035(3)	-0.007(3)	0.008(3)	0.007(2)

Table 6. Anisotropic Displacement Parameters for [DADMB]Y($OSiMe_3$)$(THF)_2$ (**4**).

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
C(25)	0.046(3)	0.051(3)	0.028(3)	0.000(3)	0.004(2)	0.011(2)
C(26)	0.052(4)	0.045(3)	0.045(3)	0.010(3)	0.013(3)	0.017(3)
C(27)	0.062(4)	0.071(4)	0.061(4)	0.029(3)	0.034(3)	0.016(3)
C(28)	0.082(5)	0.056(4)	0.036(3)	-0.014(3)	0.011(3)	-0.002(3)
C(29)	0.062(4)	0.042(3)	0.040(3)	-0.008(3)	0.012(3)	0.008(3)
C(30)	0.034(3)	0.030(3)	0.037(3)	-0.009(2)	0.007(2)	-0.004(2)
C(31)	0.058(4)	0.034(3)	0.040(3)	-0.016(3)	0.016(3)	0.000(2)
C(32)	0.056(4)	0.028(3)	0.070(4)	0.003(3)	0.022(3)	0.006(3)
C(33)	0.047(3)	0.021(3)	0.048(3)	0.001(2)	0.016(3)	-0.002(2)
C(34)	0.060(4)	0.038(3)	0.027(3)	-0.015(3)	0.013(3)	-0.012(2)
C(35)	0.047(3)	0.044(4)	0.047(4)	-0.017(3)	-0.001(3)	-0.006(3)
C(36)	0.048(3)	0.039(3)	0.048(3)	-0.011(3)	0.021(3)	-0.012(3)
C(37)	0.043(3)	0.023(3)	0.039(3)	-0.006(2)	0.018(2)	0.000(2)

The general temperature factor expression:

$$\exp(-2\pi^2(a^{*2}U_{11}h^2 + b^{*2}U_{22}k^2 + c^{*2}U_{33}l^2 + 2a^*b^*U_{12}hk + 2a^*c^*U_{13}hl + 2b^*c^*U_{23}kl))$$

Table 7. Bond Lengths (Å) for [DADMB]Y($OSiMe_3$)$(THF)_2$ (**4**).

atom	atom	distance	atom	atom	distance
Y(1)	O(1)	2.111(3)	Y(1)	O(2)	2.358(3)
Y(1)	O(3)	2.365(3)	Y(1)	N(1)	2.262(3)
Y(1)	N(2)	2.254(3)	Y(1)	C(1)	2.827(4)
Y(1)	C(8)	2.816(4)	Si(1)	N(1)	1.724(3)
Si(1)	C(15)	1.864(5)	Si(1)	C(16)	1.889(5)
Si(1)	C(17)	1.897(5)	Si(2)	N(2)	1.726(4)
Si(2)	C(21)	1.867(5)	Si(2)	C(22)	1.876(5)
Si(2)	C(23)	1.893(4)	Si(3)	O(1)	1.601(3)
Si(3)	C(27)	1.856(6)	Si(3)	C(28)	1.862(6)
Si(3)	C(29)	1.861(5)	O(2)	C(30)	1.437(5)
O(2)	C(33)	1.448(5)	O(3)	C(34)	1.457(5)
O(3)	C(37)	1.436(5)	N(1)	C(1)	1.400(5)
N(2)	C(8)	1.401(5)	C(1)	C(2)	1.414(6)
C(1)	C(6)	1.431(6)	C(2)	C(3)	1.370(6)
C(3)	C(4)	1.392(7)	C(4)	C(5)	1.390(6)
C(5)	C(6)	1.414(6)	C(5)	C(14)	1.502(6)
C(6)	C(7)	1.513(6)	C(7)	C(8)	1.421(6)
C(7)	C(12)	1.410(6)	C(8)	C(9)	1.434(6)
C(9)	C(10)	1.354(7)	C(10)	C(11)	1.386(7)
C(11)	C(12)	1.381(7)	C(12)	C(13)	1.514(7)
C(17)	C(18)	1.554(7)	C(17)	C(19)	1.540(7)
C(17)	C(20)	1.525(7)	C(23)	C(24)	1.543(7)
C(23)	C(25)	1.526(7)	C(23)	C(26)	1.539(7)
C(30)	C(31)	1.516(7)	C(31)	C(32)	1.511(7)
C(32)	C(33)	1.511(7)	C(34)	C(35)	1.499(7)
C(35)	C(36)	1.517(7)	C(36)	C(37)	1.510(6)

Table 8. Bond Angles (°) for [DADMB]Y($OSiMe_3$)$(THF)_2$ (**4**).

atom	atom	atom	angle	atom	atom	atom	angle
O(1)	Y(1)	O(2)	84.9(1)	O(1)	Y(1)	O(3)	84.9(1)
O(1)	Y(1)	N(1)	120.4(1)	O(1)	Y(1)	N(2)	120.8(1)
O(1)	Y(1)	C(1)	141.0(1)	O(1)	Y(1)	C(8)	139.6(1)
O(2)	Y(1)	O(3)	169.8(1)	O(2)	Y(1)	N(1)	92.9(1)
O(2)	Y(1)	N(2)	91.6(1)	O(2)	Y(1)	C(1)	111.7(1)
O(2)	Y(1)	C(8)	74.4(1)	O(3)	Y(1)	N(1)	92.4(1)
O(3)	Y(1)	N(2)	93.4(1)	O(3)	Y(1)	C(1)	76.7(1)
O(3)	Y(1)	C(8)	113.8(1)	N(1)	Y(1)	N(2)	118.8(1)
N(1)	Y(1)	C(1)	29.4(1)	N(1)	Y(1)	C(8)	95.3(1)
N(2)	Y(1)	C(1)	94.6(1)	N(2)	Y(1)	C(8)	29.5(1)
C(1)	Y(1)	C(8)	79.3(1)	N(1)	Si(1)	C(15)	106.0(2)
N(1)	Si(1)	C(16)	115.3(2)	N(1)	Si(1)	C(17)	113.5(2)
C(15)	Si(1)	C(16)	105.0(2)	C(15)	Si(1)	C(17)	108.2(2)
C(16)	Si(1)	C(17)	108.2(2)	N(2)	Si(2)	C(21)	105.6(2)
N(2)	Si(2)	C(22)	116.0(2)	N(2)	Si(2)	C(23)	113.4(2)
C(21)	Si(2)	C(22)	105.7(2)	C(21)	Si(2)	C(23)	108.0(2)
C(22)	Si(2)	C(23)	107.6(2)	O(1)	Si(3)	C(27)	110.4(2)
O(1)	Si(3)	C(28)	111.8(2)	O(1)	Si(3)	C(29)	111.9(2)
C(27)	Si(3)	C(28)	108.0(3)	C(27)	Si(3)	C(29)	107.1(3)
C(28)	Si(3)	C(29)	107.4(3)	Y(1)	O(1)	Si(3)	175.5(2)
Y(1)	O(2)	C(30)	123.5(3)	Y(1)	O(2)	C(33)	129.4(3)
C(30)	O(2)	C(33)	106.2(3)	Y(1)	O(3)	C(34)	125.1(3)
Y(1)	O(3)	C(37)	129.0(3)	C(34)	O(3)	C(37)	105.9(3)
Y(1)	N(1)	Si(1)	123.5(2)	Y(1)	N(1)	C(1)	98.3(2)
Si(1)	N(1)	C(1)	128.2(3)	Y(1)	N(2)	Si(2)	124.8(2)
Y(1)	N(2)	C(8)	98.1(2)	Si(2)	N(2)	C(8)	129.4(3)
Y(1)	C(1)	N(1)	52.3(2)	Y(1)	C(1)	C(2)	135.1(3)
Y(1)	C(1)	C(6)	83.1(2)	N(1)	C(1)	C(2)	123.1(4)
N(1)	C(1)	C(6)	120.0(4)	C(2)	C(1)	C(6)	116.7(4)
C(1)	C(2)	C(3)	122.6(4)	C(2)	C(3)	C(4)	120.4(4)
C(3)	C(4)	C(5)	119.8(4)	C(4)	C(5)	C(6)	120.5(4)
C(4)	C(5)	C(14)	119.0(4)	C(6)	C(5)	C(14)	120.5(4)
C(1)	C(6)	C(5)	120.0(4)	C(1)	C(6)	C(7)	123.3(4)

Table 8. Bond Angles (°) for [DADMB]Y(OSiMe$_3$)(THF)$_2$ (**4**).

atom	atom	atom	angle	atom	atom	atom	angle
C(5)	C(6)	C(7)	116.0(4)	C(6)	C(7)	C(8)	122.7(4)
C(6)	C(7)	C(12)	116.3(4)	C(8)	C(7)	C(12)	120.3(4)
Y(1)	C(8)	N(2)	52.4(2)	Y(1)	C(8)	C(7)	82.9(2)
Y(1)	C(8)	C(9)	134.4(3)	N(2)	C(8)	C(7)	120.3(4)
N(2)	C(8)	C(9)	122.8(4)	C(7)	C(8)	C(9)	116.6(4)
C(8)	C(9)	C(10)	121.3(4)	C(9)	C(10)	C(11)	121.8(5)
C(10)	C(11)	C(12)	119.2(4)	C(7)	C(12)	C(11)	120.7(4)
C(7)	C(12)	C(13)	120.2(4)	C(11)	C(12)	C(13)	119.0(4)
Si(1)	C(17)	C(18)	110.2(3)	Si(1)	C(17)	C(19)	111.6(3)
Si(1)	C(17)	C(20)	110.4(3)	C(18)	C(17)	C(19)	107.9(4)
C(18)	C(17)	C(20)	108.1(4)	C(19)	C(17)	C(20)	108.5(4)
Si(2)	C(23)	C(24)	110.7(3)	Si(2)	C(23)	C(25)	110.5(3)
Si(2)	C(23)	C(26)	110.1(3)	C(24)	C(23)	C(25)	109.4(4)
C(24)	C(23)	C(26)	107.8(4)	C(25)	C(23)	C(26)	108.3(4)
O(2)	C(30)	C(31)	104.2(4)	C(30)	C(31)	C(32)	104.6(4)
C(31)	C(32)	C(33)	105.7(4)	O(2)	C(33)	C(32)	104.7(4)
O(3)	C(34)	C(35)	105.6(4)	C(34)	C(35)	C(36)	106.0(4)
C(35)	C(36)	C(37)	104.4(4)	O(3)	C(37)	C(36)	105.3(4)

Structural data for $\{[DADMB]YH(THF)\}_2 \cdot C_6H_6$ (**6**).

Table 9. Atomic coordinates and B_{iso}/B_{eq} for $\{[DADMB]YH(THF)\}_2 \cdot C_6H_6$ (**6**).

atom	x	y	z	B_{eq}
Y(1)	0.44736(4)	0.53415(2)	-0.10063(2)	2.41(1)
Si(1)	0.1375(2)	0.46337(10)	-0.21648(9)	4.32(4)
Si(2)	0.6749(1)	0.65248(8)	-0.11310(8)	3.03(3)
O(1)	0.5332(3)	0.4632(2)	-0.1800(2)	3.40(8)
N(1)	0.2377(3)	0.5276(2)	-0.1644(2)	2.98(9)
N(2)	0.5135(3)	0.6302(2)	-0.1492(2)	2.52(9)
C(1)	0.2056(4)	0.5871(3)	-0.1253(2)	2.6(1)
C(2)	0.1444(4)	0.5789(3)	-0.0660(3)	3.4(1)
C(3)	0.1261(4)	0.6337(4)	-0.0210(3)	3.5(1)
C(4)	0.1721(4)	0.7005(3)	-0.0324(3)	3.6(1)
C(5)	0.2338(4)	0.7115(3)	-0.0896(3)	2.9(1)
C(6)	0.2494(4)	0.6545(3)	-0.1380(2)	2.4(1)
C(7)	0.2908(4)	0.6719(2)	-0.2101(2)	2.5(1)
C(8)	0.4190(4)	0.6608(2)	-0.2134(3)	2.6(1)
C(9)	0.4455(4)	0.6776(3)	-0.2842(3)	2.8(1)
C(10)	0.3523(5)	0.7052(3)	-0.3465(3)	3.3(1)
C(11)	0.2269(5)	0.7166(3)	-0.3427(3)	3.7(1)
C(12)	0.1953(4)	0.7012(3)	-0.2742(3)	2.8(1)
C(13)	0.0613(5)	0.7200(3)	-0.2695(3)	3.9(1)
C(14)	0.2800(5)	0.7840(3)	-0.1014(3)	4.2(1)
C(15)	0.0645(6)	0.4865(4)	-0.3243(3)	5.1(2)
C(16)	-0.0053(8)	0.4226(5)	-0.3706(4)	7.8(2)
C(17)	-0.0356(6)	0.5447(4)	-0.3326(4)	6.6(2)
C(18)	0.1689(6)	0.5118(4)	-0.3602(3)	5.3(2)
C(19)	0.0005(7)	0.4402(4)	-0.1763(4)	7.0(2)
C(20)	0.2382(7)	0.3837(3)	-0.2115(3)	6.0(2)
C(21)	0.6991(5)	0.7354(3)	-0.0528(4)	4.6(1)
C(22)	0.6430(5)	0.7978(3)	-0.1066(4)	5.1(2)
C(23)	0.8459(6)	0.7504(4)	-0.0125(5)	8.2(2)
C(24)	0.6288(7)	0.7309(4)	0.0107(4)	6.6(2)
C(25)	0.7720(5)	0.6599(3)	-0.1856(4)	4.8(2)
C(26)	0.7487(4)	0.5778(3)	-0.0466(3)	3.6(1)

Table 9. Atomic coordinates and B_{iso}/B_{eq} for $\{[DADMB]YH(THF)\}_2 \cdot C_6H_6$ (**6**).

atom	x	y	z	Beq
C(27)	0.5358(7)	0.4847(4)	-0.2578(3)	5.6(2)
C(28)	0.6103(9)	0.4393(4)	-0.2836(5)	9.0(3)
C(29)	0.6473(6)	0.3785(3)	-0.2278(4)	5.3(2)
C(30)	0.5975(7)	0.3948(4)	-0.1636(3)	5.5(2)
C(31)	0.5731(7)	0.0405(4)	-0.0341(4)	5.1(2)
C(32)	0.4485(9)	0.0573(4)	-0.0429(4)	5.5(2)
C(33)	0.3737(6)	0.0164(5)	-0.0099(4)	5.5(2)
H(1)	0.481(3)	0.560(2)	0.028(2)	2.0(8)
H(2)	0.1147	0.5337	-0.0569	4.0711
H(3)	0.0824	0.6266	0.0178	4.1605
H(4)	0.1607	0.7385	-0.0005	4.3710
H(5)	0.5302	0.6695	-0.2888	3.3718
H(6)	0.3738	0.7168	-0.3932	3.9768
H(7)	0.1626	0.7349	-0.3869	4.4663
H(8)	0.0550	0.7092	-0.2186	4.6808
H(9)	-0.0019	0.6940	-0.3077	4.6808
H(10)	0.0466	0.7687	-0.2793	4.6808
H(11)	0.3212	0.7830	-0.1420	5.0264
H(12)	0.3401	0.7997	-0.0539	5.0264
H(13)	0.2078	0.8150	-0.1156	5.0264
H(14)	-0.0409	0.4350	-0.4243	9.4085
H(15)	-0.0733	0.4081	-0.3498	9.4085
H(16)	0.0550	0.3854	-0.3662	9.4085
H(17)	-0.0706	0.5565	-0.3865	7.9134
H(18)	-0.1036	0.5290	-0.3124	7.9134
H(19)	0.0047	0.5847	-0.3041	7.9134
H(20)	0.2305	0.4754	-0.3573	6.3413
H(21)	0.1299	0.5241	-0.4136	6.3413
H(22)	0.2114	0.5516	-0.3321	6.3413
H(23)	0.0343	0.4235	-0.1240	8.4271
H(24)	-0.0515	0.4805	-0.1767	8.4271
H(25)	-0.0511	0.4046	-0.2079	8.4271
H(26)	0.3067	0.3934	-0.2339	7.2028

Table 9. Atomic coordinates and B_{iso}/B_{eq} for {[DADMB]YH(THF)}$_2$·C_6H_6 (**6**).

atom	x	y	z	B_{eq}
H(27)	0.2738	0.3700	-0.1582	7.2028
H(28)	0.1857	0.3468	-0.2400	7.2028
H(29)	0.6863	0.8018	-0.1460	6.1768
H(30)	0.6552	0.8396	-0.0764	6.1768
H(31)	0.5527	0.7905	-0.1307	6.1768
H(32)	0.8548	0.7939	0.0145	9.8419
H(33)	0.8907	0.7525	-0.0514	9.8419
H(34)	0.8816	0.7140	0.0237	9.8419
H(35)	0.6663	0.6946	0.0467	7.8713
H(36)	0.6372	0.7743	0.0379	7.8713
H(37)	0.5394	0.7211	-0.0132	7.8713
H(38)	0.8607	0.6683	-0.1582	5.7612
H(39)	0.7393	0.6976	-0.2206	5.7612
H(40)	0.7648	0.6174	-0.2146	5.7612
H(41)	0.8388	0.5865	-0.0233	4.3469
H(42)	0.7381	0.5356	-0.0762	4.3469
H(43)	0.7067	0.5734	-0.0066	4.3469
H(44)	0.4499	0.4845	-0.2926	6.6706
H(45)	0.5712	0.5306	-0.2555	6.6706
H(46)	0.5632	0.4225	-0.3341	10.7759
H(47)	0.6869	0.4624	-0.2868	10.7759
H(48)	0.6094	0.3364	-0.2528	6.3583
H(49)	0.7391	0.3735	-0.2100	6.3583
H(50)	0.5368	0.3601	-0.1590	6.6415
H(51)	0.6667	0.3969	-0.1161	6.6415
H(52)	0.6247	0.0690	-0.0572	6.1536
H(53)	0.4121	0.0977	-0.0722	6.6126
H(54)	0.2854	0.0285	-0.0163	6.5648

$$B_{eq} = 8/3\ \pi^2(U_{11}(aa^*)^2 + U_{22}(bb^*)^2 + U_{33}(cc^*)^2 + 2U_{12}(aa^*bb^*)\cos\gamma + 2U_{13}(aa^*cc^*)\cos\beta + 2U_{23}(bb^*cc^*)\cos\alpha)$$

Table 10. Anisotropic Displacement Parameters for $\{[DADMB]YH(THF)\}_2 \cdot C_6H_6$ (**6**).

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Y(1)	0.0383(3)	0.0348(3)	0.0220(2)	-0.0078(2)	0.0088(2)	0.0013(3)
Si(1)	0.065(1)	0.058(1)	0.0415(9)	-0.0350(9)	0.0060(8)	-0.0027(9)
Si(2)	0.0343(8)	0.0381(9)	0.0502(9)	-0.0011(6)	0.0176(7)	0.0086(7)
O(1)	0.074(2)	0.040(2)	0.026(2)	0.016(2)	0.011(2)	0.006(2)
N(1)	0.042(2)	0.038(3)	0.027(2)	-0.016(2)	0.007(2)	0.000(2)
N(2)	0.038(2)	0.028(2)	0.029(2)	0.001(2)	0.013(2)	0.001(2)
C(1)	0.024(2)	0.048(3)	0.022(2)	-0.006(2)	0.000(2)	0.007(2)
C(2)	0.033(3)	0.069(4)	0.030(3)	-0.016(3)	0.007(2)	0.011(3)
C(3)	0.026(3)	0.095(5)	0.023(3)	-0.004(3)	0.007(2)	0.008(3)
C(4)	0.028(3)	0.089(5)	0.028(3)	-0.001(3)	0.009(2)	-0.014(3)
C(5)	0.027(2)	0.055(4)	0.027(3)	-0.002(2)	0.005(2)	-0.004(3)
C(6)	0.029(3)	0.045(3)	0.021(2)	-0.007(2)	0.006(2)	-0.001(2)
C(7)	0.037(3)	0.035(3)	0.024(3)	-0.004(2)	0.010(2)	0.001(2)
C(8)	0.048(3)	0.022(3)	0.029(3)	-0.005(2)	0.018(2)	-0.005(2)
C(9)	0.047(3)	0.032(3)	0.032(3)	0.002(2)	0.021(2)	0.005(2)
C(10)	0.072(4)	0.038(3)	0.027(3)	-0.002(3)	0.023(3)	0.005(2)
C(11)	0.045(3)	0.053(4)	0.035(3)	0.000(3)	0.011(2)	0.010(3)
C(12)	0.046(3)	0.037(3)	0.030(3)	0.000(2)	0.015(2)	0.004(2)
C(13)	0.045(3)	0.069(4)	0.041(3)	0.004(3)	0.008(2)	0.015(3)
C(14)	0.047(3)	0.053(4)	0.058(4)	0.002(3)	0.020(3)	-0.021(3)
C(15)	0.066(4)	0.069(5)	0.047(4)	-0.019(3)	-0.007(3)	-0.008(3)
C(16)	0.130(6)	0.093(6)	0.064(5)	-0.041(5)	-0.020(4)	-0.028(4)
C(17)	0.075(5)	0.100(6)	0.070(5)	-0.019(4)	-0.017(4)	0.000(4)
C(18)	0.096(5)	0.077(5)	0.032(3)	-0.014(4)	0.008(3)	-0.003(3)
C(19)	0.088(5)	0.121(7)	0.070(5)	-0.075(5)	0.011(4)	-0.009(4)
C(20)	0.131(6)	0.048(4)	0.053(4)	-0.032(4)	0.009(4)	-0.006(3)
C(21)	0.048(3)	0.037(4)	0.077(4)	-0.010(3)	-0.001(3)	-0.002(3)
C(22)	0.054(4)	0.042(4)	0.100(5)	-0.004(3)	0.024(3)	-0.001(4)
C(23)	0.063(5)	0.051(5)	0.188(8)	-0.010(4)	-0.039(5)	-0.001(5)
C(24)	0.121(6)	0.061(4)	0.054(4)	-0.002(4)	0.009(4)	-0.016(4)
C(25)	0.043(3)	0.078(5)	0.083(4)	0.006(3)	0.027(3)	0.040(4)
C(26)	0.039(3)	0.047(4)	0.049(3)	-0.002(3)	0.013(2)	0.006(3)
C(27)	0.129(6)	0.075(5)	0.029(3)	0.046(4)	0.034(3)	0.014(3)

Table 10. Anisotropic Displacement Parameters for $\{[DADMB]YH(THF)\}_2 \cdot C_6H_6$ (**6**).

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
C(28)	0.202(9)	0.071(6)	0.146(7)	0.057(6)	0.140(7)	0.052(5)
C(29)	0.075(4)	0.050(4)	0.126(6)	0.017(3)	0.066(4)	0.030(4)
C(30)	0.127(6)	0.058(5)	0.047(4)	0.047(4)	0.009(4)	0.000(3)
C(31)	0.092(5)	0.054(4)	0.060(4)	-0.022(4)	0.037(4)	-0.013(4)
C(32)	0.138(7)	0.058(5)	0.058(4)	0.040(5)	0.039(5)	0.014(4)
C(33)	0.053(4)	0.113(7)	0.046(4)	0.019(4)	-0.002(3)	-0.015(4)

The general temperature factor expression:

$$\exp(-2\pi^2(a^{*2}U_{11}h^2 + b^{*2}U_{22}k^2 + c^{*2}U_{33}l^2 + 2a^*b^*U_{12}hk + 2a^*c^*U_{13}hl + 2b^*c^*U_{23}kl))$$

Table 11. Bond Lengths (Å) for {[DADMB]YH(THF)}$_2$·C_6H_6 (**6**).

atom	atom	distance	atom	atom	distance
Y(1)	Y(1)	3.6652(8)	Y(1)	O(1)	2.329(3)
Y(1)	N(1)	2.213(4)	Y(1)	N(2)	2.228(4)
Y(1)	C(1)	2.702(4)	Si(1)	N(1)	1.714(4)
Si(1)	C(15)	1.900(6)	Si(1)	C(19)	1.865(7)
Si(1)	C(20)	1.853(7)	Si(2)	N(2)	1.719(4)
Si(2)	C(21)	1.887(6)	Si(2)	C(25)	1.883(5)
Si(2)	C(26)	1.875(5)	O(1)	C(27)	1.451(6)
O(1)	C(30)	1.465(7)	N(1)	C(1)	1.425(6)
N(2)	C(8)	1.416(6)	C(1)	C(2)	1.403(6)
C(1)	C(6)	1.411(7)	C(2)	C(3)	1.364(8)
C(3)	C(4)	1.402(8)	C(4)	C(5)	1.381(6)
C(5)	C(6)	1.427(7)	C(5)	C(14)	1.503(7)
C(6)	C(7)	1.511(6)	C(7)	C(8)	1.411(6)
C(7)	C(12)	1.409(6)	C(8)	C(9)	1.405(6)
C(9)	C(10)	1.366(6)	C(10)	C(11)	1.387(7)
C(11)	C(12)	1.387(6)	C(12)	C(13)	1.508(6)
C(15)	C(16)	1.539(9)	C(15)	C(17)	1.522(10)
C(15)	C(18)	1.521(8)	C(21)	C(22)	1.537(8)
C(21)	C(23)	1.558(8)	C(21)	C(24)	1.531(9)
C(27)	C(28)	1.348(9)	C(28)	C(29)	1.502(9)
C(29)	C(30)	1.429(8)	C(31)	C(32)	1.340(9)
C(31)	C(33)	1.363(9)	C(32)	C(33)	1.369(10)
Y(1)	H(1)	2.27(4)	Y(1)	H(1)	2.22(4)

Table 12. Bond Angles (°) for $\{[DADMB]YH(THF)\}_2 \cdot C_6H_6$ (**6**).

atom	atom	atom	angle	atom	atom	atom	angle
Y(1)	Y(1)	O(1)	108.68(8)	Y(1)	Y(1)	N(1)	117.44(9)
Y(1)	Y(1)	N(2)	128.87(9)	Y(1)	Y(1)	C(1)	107.54(9)
O(1)	Y(1)	N(1)	100.3(1)	O(1)	Y(1)	N(2)	91.0(1)
O(1)	Y(1)	C(1)	130.5(1)	N(1)	Y(1)	N(2)	103.9(1)
N(1)	Y(1)	C(1)	31.8(1)	N(2)	Y(1)	C(1)	91.7(1)
N(1)	Si(1)	C(15)	112.9(2)	N(1)	Si(1)	C(19)	113.9(3)
N(1)	Si(1)	C(20)	107.1(2)	C(15)	Si(1)	C(19)	107.5(3)
C(15)	Si(1)	C(20)	107.6(3)	C(19)	Si(1)	C(20)	107.6(4)
N(2)	Si(2)	C(21)	112.1(2)	N(2)	Si(2)	C(25)	117.5(2)
N(2)	Si(2)	C(26)	104.1(2)	C(21)	Si(2)	C(25)	108.3(3)
C(21)	Si(2)	C(26)	108.4(2)	C(25)	Si(2)	C(26)	105.8(2)
Y(1)	O(1)	C(27)	122.2(3)	Y(1)	O(1)	C(30)	130.0(3)
C(27)	O(1)	C(30)	107.7(4)	Y(1)	N(1)	Si(1)	134.8(2)
Y(1)	N(1)	C(1)	93.4(2)	Si(1)	N(1)	C(1)	129.0(3)
Y(1)	N(2)	Si(2)	117.3(2)	Y(1)	N(2)	C(8)	114.6(3)
Si(2)	N(2)	C(8)	127.6(3)	Y(1)	C(1)	N(1)	54.8(2)
Y(1)	C(1)	C(2)	118.3(3)	Y(1)	C(1)	C(6)	91.0(3)
N(1)	C(1)	C(2)	120.8(5)	N(1)	C(1)	C(6)	120.6(4)
C(2)	C(1)	C(6)	118.2(5)	C(1)	C(2)	C(3)	122.3(5)
C(2)	C(3)	C(4)	119.7(4)	C(3)	C(4)	C(5)	120.6(5)
C(4)	C(5)	C(6)	119.5(5)	C(4)	C(5)	C(14)	119.4(5)
C(6)	C(5)	C(14)	121.0(4)	C(1)	C(6)	C(5)	119.7(4)
C(1)	C(6)	C(7)	122.0(4)	C(5)	C(6)	C(7)	117.4(4)
C(6)	C(7)	C(8)	122.2(4)	C(6)	C(7)	C(12)	116.6(4)
C(8)	C(7)	C(12)	121.2(4)	N(2)	C(8)	C(7)	120.6(4)
N(2)	C(8)	C(9)	122.2(4)	C(7)	C(8)	C(9)	117.2(4)
C(8)	C(9)	C(10)	121.6(4)	C(9)	C(10)	C(11)	121.0(4)
C(10)	C(11)	C(12)	120.0(4)	C(7)	C(12)	C(11)	119.1(4)
C(7)	C(12)	C(13)	122.3(4)	C(11)	C(12)	C(13)	118.5(4)
Si(1)	C(15)	C(16)	110.5(5)	Si(1)	C(15)	C(17)	110.0(5)
Si(1)	C(15)	C(18)	111.0(4)	C(16)	C(15)	C(17)	107.7(5)
C(16)	C(15)	C(18)	109.3(5)	C(17)	C(15)	C(18)	108.4(6)
Si(2)	C(21)	C(22)	109.3(4)	Si(2)	C(21)	C(23)	111.7(5)

Table 12. Bond Angles (°) for $\{[DADMB]YH(THF)\}_2 \cdot C_6H_6$ (**6**).

atom	atom	atom	angle	atom	atom	atom	angle
Si(2)	C(21)	C(24)	110.9(4)	C(22)	C(21)	C(23)	107.8(5)
C(22)	C(21)	C(24)	108.3(5)	C(23)	C(21)	C(24)	108.8(6)
O(1)	C(27)	C(28)	108.6(5)	C(27)	C(28)	C(29)	110.0(5)
C(28)	C(29)	C(30)	105.7(5)	O(1)	C(30)	C(29)	107.4(5)
C(32)	C(31)	C(33)	119.8(6)	C(31)	C(32)	C(33)	120.3(6)
C(31)	C(33)	C(32)	119.9(6)	Y(1)	Y(1)	H(1)	34.8(10)
Y(1)	Y(1)	H(1)	35.8(9)	O(1)	Y(1)	H(1)	139.9(9)
O(1)	Y(1)	H(1)	75.3(9)	N(1)	Y(1)	H(1)	111.7(8)
N(1)	Y(1)	H(1)	112.5(9)	N(2)	Y(1)	H(1)	103.6(10)
N(2)	Y(1)	H(1)	142.8(9)	C(1)	Y(1)	H(1)	86.8(9)
C(1)	Y(1)	H(1)	123.7(9)	H(1)	Y(1)	H(1)	70(1)

Structural data for [DADMB]YEt(THF)$_2$ (**7**).

Table 13. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]YEt(THF)$_2$ (**7**).

atom	x	y	z	B_{eq}
Y(1)	0.500	0.19060(8)	0.250	2.96(3)
Si(1)	0.3049(1)	0.2211(1)	0.2772(1)	2.93(5)
O(1)	0.5296(3)	0.1743(4)	0.3999(3)	4.5(1)
N(1)	0.3902(3)	0.2725(4)	0.2579(4)	2.9(1)
C(1)	0.500	0.0117(6)	0.250	1.1(2)
C(2)	0.498(2)	-0.058(2)	0.288(1)	10.3(8)
C(3)	0.4004(4)	0.3471(5)	0.1996(5)	2.7(2)
C(4)	0.4705(3)	0.4012(5)	0.2104(4)	2.6(2)
C(5)	0.4817(4)	0.4701(5)	0.1485(5)	2.7(2)
C(6)	0.4251(4)	0.4891(5)	0.0800(4)	3.3(2)
C(7)	0.3558(4)	0.4385(5)	0.0706(5)	4.3(2)
C(8)	0.3441(4)	0.3695(5)	0.1286(5)	3.1(2)
C(9)	0.5553(4)	0.5301(5)	0.1603(5)	3.6(2)
C(10)	0.2428(4)	0.3062(6)	0.3313(5)	3.5(2)
C(11)	0.2201(4)	0.3964(6)	0.2769(5)	4.5(2)
C(12)	0.2878(5)	0.3389(6)	0.4170(5)	5.2(2)
C(13)	0.1689(5)	0.2532(6)	0.3472(6)	4.4(2)
C(14)	0.2417(4)	0.1680(5)	0.1818(5)	3.8(2)
C(15)	0.3334(4)	0.1155(5)	0.3499(5)	4.3(2)
C(16)	0.5089(5)	0.2414(6)	0.4625(6)	4.9(2)
C(17)	0.5370(9)	0.1981(8)	0.5468(7)	8.9(4)
C(18)	0.6023(8)	0.1337(9)	0.5284(8)	10.3(4)
C(19)	0.5809(6)	0.1014(8)	0.4440(8)	8.1(3)
H(1)	0.546	0.001	0.227	1.372
H(2)	0.457	0.001	0.207	1.372
H(3)	0.452	-0.060	0.311	12.320
H(4)	0.541	-0.060	0.332	12.320
H(5)	0.501	-0.112	0.251	12.320
H(6)	0.433	0.537	0.039	4.002
H(7)	0.317	0.452	0.024	5.176
H(8)	0.296	0.335	0.121	3.776
H(9)	0.554	0.574	0.114	4.302

Table 13. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]YEt(THF)$_2$ (**7**).

atom	x	y	z	B_{eq}
H(10)	0.599	0.488	0.162	4.302
H(11)	0.560	0.565	0.212	4.302
H(12)	0.265	0.432	0.270	5.460
H(13)	0.187	0.436	0.304	5.460
H(14)	0.194	0.377	0.223	5.460
H(15)	0.261	0.390	0.439	6.239
H(16)	0.338	0.361	0.409	6.239
H(17)	0.293	0.286	0.456	6.239
H(18)	0.183	0.198	0.382	5.300
H(19)	0.140	0.233	0.294	5.300
H(20)	0.138	0.296	0.375	5.300
H(21)	0.219	0.219	0.146	4.617
H(22)	0.202	0.130	0.200	4.617
H(23)	0.272	0.128	0.151	4.617
H(24)	0.364	0.138	0.401	5.188
H(25)	0.362	0.071	0.323	5.188
H(26)	0.288	0.085	0.363	5.188
H(27)	0.533	0.303	0.457	5.888
H(28)	0.454	0.250	0.455	5.888
H(29)	0.555	0.247	0.588	10.713
H(30)	0.498	0.161	0.567	10.713
H(31)	0.649	0.169	0.534	12.325
H(32)	0.609	0.080	0.566	12.325
H(33)	0.555	0.041	0.443	9.705
H(34)	0.625	0.094	0.417	9.705

$$B_{eq} = 8/3\ \pi^2(U_{11}(aa^*)^2 + U_{22}(bb^*)^2 + U_{33}(cc^*)^2 + 2U_{12}(aa^*bb^*)\cos\gamma + 2U_{13}(aa^*cc^*)\cos\beta + 2U_{23}(bb^*cc^*)\cos\alpha)$$

Table 14. Anisotropic Displacement Parameters for [DADMB]YEt(THF)$_2$ (**7**).

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Y(1)	0.0207(6)	0.0329(7)	0.0572(9)	0.000	-0.0012(5)	0.000
Si(1)	0.026(1)	0.026(1)	0.051(2)	-0.0024(9)	0.002(1)	0.005(1)
O(1)	0.043(3)	0.053(4)	0.051(4)	0.012(3)	-0.007(3)	0.008(3)
N(1)	0.018(3)	0.024(4)	0.049(4)	-0.002(3)	0.001(3)	0.008(3)
C(3)	0.019(4)	0.025(4)	0.046(5)	0.006(3)	0.000(4)	0.002(4)
C(4)	0.021(4)	0.023(4)	0.045(5)	0.000(3)	0.002(3)	-0.001(4)
C(5)	0.029(4)	0.023(4)	0.041(5)	-0.001(3)	0.004(4)	-0.003(4)
C(6)	0.032(4)	0.038(5)	0.038(5)	0.007(4)	0.005(4)	0.010(4)
C(7)	0.030(4)	0.036(5)	0.055(6)	0.004(4)	-0.006(4)	0.013(4)
C(8)	0.019(4)	0.036(5)	0.056(5)	-0.005(3)	-0.003(4)	0.006(4)
C(9)	0.030(4)	0.034(5)	0.055(5)	-0.005(4)	0.009(4)	0.002(4)
C(10)	0.034(4)	0.032(4)	0.053(5)	0.003(4)	0.008(4)	0.005(4)
C(11)	0.043(5)	0.043(6)	0.077(7)	0.008(4)	0.008(5)	0.004(5)
C(12)	0.056(6)	0.048(6)	0.062(6)	-0.001(4)	0.014(5)	-0.011(5)
C(13)	0.046(5)	0.047(6)	0.075(7)	-0.003(4)	0.017(5)	0.003(5)
C(14)	0.040(5)	0.033(5)	0.064(6)	-0.005(4)	0.000(4)	0.001(4)
C(15)	0.034(5)	0.037(5)	0.054(6)	-0.002(4)	0.003(4)	0.012(4)
C(16)	0.049(6)	0.055(6)	0.053(6)	-0.008(5)	-0.006(5)	-0.001(5)
C(17)	0.20(1)	0.068(8)	0.063(8)	0.039(9)	-0.014(8)	0.003(7)
C(18)	0.15(1)	0.10(1)	0.11(1)	0.039(9)	-0.080(10)	0.008(9)
C(19)	0.083(8)	0.108(9)	0.098(9)	0.062(7)	0.009(7)	0.039(8)

The general temperature factor expression:

$\exp(-2\pi^2(a^{*2}U_{11}h^2 + b^{*2}U_{22}k^2 + c^{*2}U_{33}l^2 + 2a^*b^*U_{12}hk + 2a^*c^*U_{13}hl + 2b^*c^*U_{23}kl))$

Table 15. Bond Lengths (Å) for [DADMB]YEt(THF)$_2$ (**7**).

atom	atom	distance	atom	atom	distance
Y(1)	O(1)	2.371(5)	Y(1)	O(1)	2.371(5)
Y(1)	N(1)	2.251(5)	Y(1)	N(1)	2.251(5)
Y(1)	C(1)	2.464(9)	Y(1)	C(3)	2.809(7)
Y(1)	C(3)	2.809(7)	Si(1)	N(1)	1.726(5)
Si(1)	C(10)	1.898(7)	Si(1)	C(14)	1.879(7)
Si(1)	C(15)	1.877(7)	O(1)	C(16)	1.448(9)
O(1)	C(19)	1.452(9)	N(1)	C(3)	1.415(8)
C(1)	C(2)	1.13(2)	C(1)	C(2)	1.13(2)
C(2)	C(2)	1.21(5)	C(3)	C(4)	1.422(9)
C(3)	C(8)	1.411(9)	C(4)	C(4)	1.50(1)
C(4)	C(5)	1.405(9)	C(5)	C(6)	1.377(9)
C(5)	C(9)	1.517(9)	C(6)	C(7)	1.386(10)
C(7)	C(8)	1.364(10)	C(10)	C(11)	1.53(1)
C(10)	C(12)	1.531(10)	C(10)	C(13)	1.54(1)
C(16)	C(17)	1.48(1)	C(17)	C(18)	1.51(2)
C(18)	C(19)	1.41(1)			

Table 16. Bond Angles (°) for [DADMB]YEt(THF)$_2$ (**7**).

atom	atom	atom	angle	atom	atom	atom	angle
O(1)	Y(1)	O(1)	169.1(3)	O(1)	Y(1)	N(1)	92.5(2)
O(1)	Y(1)	N(1)	93.0(2)	O(1)	Y(1)	C(1)	84.6(1)
O(1)	Y(1)	C(3)	112.7(2)	O(1)	Y(1)	C(3)	76.1(2)
O(1)	Y(1)	N(1)	93.0(2)	O(1)	Y(1)	N(1)	92.5(2)
O(1)	Y(1)	C(1)	84.6(1)	O(1)	Y(1)	C(3)	76.1(2)
O(1)	Y(1)	C(3)	112.7(2)	N(1)	Y(1)	N(1)	119.8(3)
N(1)	Y(1)	C(1)	120.1(1)	N(1)	Y(1)	C(3)	30.0(2)
N(1)	Y(1)	C(3)	95.5(2)	N(1)	Y(1)	C(1)	120.1(1)
N(1)	Y(1)	C(3)	95.5(2)	N(1)	Y(1)	C(3)	30.0(2)
C(1)	Y(1)	C(3)	140.2(1)	C(1)	Y(1)	C(3)	140.2(1)
C(3)	Y(1)	C(3)	79.7(3)	N(1)	Si(1)	C(10)	113.7(3)
N(1)	Si(1)	C(14)	115.6(3)	N(1)	Si(1)	C(15)	106.0(3)
C(10)	Si(1)	C(14)	107.6(3)	C(10)	Si(1)	C(15)	108.3(3)
C(14)	Si(1)	C(15)	105.2(3)	Y(1)	O(1)	C(16)	126.4(4)
Y(1)	O(1)	C(19)	124.9(6)	C(16)	O(1)	C(19)	108.2(7)
Y(1)	N(1)	Si(1)	125.2(3)	Y(1)	N(1)	C(3)	97.4(4)
Si(1)	N(1)	C(3)	128.2(4)	Y(1)	C(1)	C(2)	147(1)
Y(1)	C(1)	C(2)	147(1)	C(2)	C(1)	C(2)	64(2)
C(1)	C(2)	C(2)	57(1)	Y(1)	C(3)	N(1)	52.6(3)
Y(1)	C(3)	C(4)	83.3(4)	Y(1)	C(3)	C(8)	136.0(5)
N(1)	C(3)	C(4)	119.9(6)	N(1)	C(3)	C(8)	122.6(6)
C(4)	C(3)	C(8)	117.5(7)	C(3)	C(4)	C(4)	124.5(7)
C(3)	C(4)	C(5)	118.9(6)	C(4)	C(4)	C(5)	115.9(5)
C(4)	C(5)	C(6)	121.4(6)	C(4)	C(5)	C(9)	119.5(6)
C(6)	C(5)	C(9)	119.0(7)	C(5)	C(6)	C(7)	119.9(7)
C(6)	C(7)	C(8)	120.1(6)	C(3)	C(8)	C(7)	122.2(6)
Si(1)	C(10)	C(11)	111.1(5)	Si(1)	C(10)	C(12)	109.6(5)
Si(1)	C(10)	C(13)	109.8(5)	C(11)	C(10)	C(12)	108.4(7)
C(11)	C(10)	C(13)	109.1(6)	C(12)	C(10)	C(13)	108.7(6)
O(1)	C(16)	C(17)	106.5(7)	C(16)	C(17)	C(18)	102.3(9)
C(17)	C(18)	C(19)	106.0(9)	O(1)	C(19)	C(18)	107.1(9)

Structural data for [DADMB]Y(NC_5H_6)(NC_5H_5)$_2$·C_5H_{12} (**9**).

Table 17. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]Y(NC_5H_6)(NC_5H_5)$_2$·C_5H_{12} (**9**).

atom	x	y	z	B_{eq}
Y(1)	0.17019(2)	0.07021(5)	0.12763(1)	2.52(1)
Si(1)	0.31982(6)	0.0224(1)	0.14288(5)	3.32(4)
Si(2)	0.02718(6)	0.0277(1)	0.09807(5)	3.00(4)
N(1)	0.1680(2)	0.2596(4)	0.1382(1)	3.6(1)
N(2)	0.2516(2)	-0.0241(4)	0.1365(1)	3.0(1)
N(3)	0.0943(2)	-0.0233(4)	0.1040(1)	2.56(10)
N(4)	0.1439(2)	0.0586(4)	0.1994(1)	2.5(1)
N(5)	0.1928(2)	0.1144(4)	0.0566(1)	3.1(1)
C(1)	0.2085(3)	0.3334(6)	0.1215(2)	5.0(2)
C(2)	0.2423(3)	0.3964(7)	0.1508(3)	6.2(2)
C(3)	0.2144(3)	0.4358(6)	0.1834(2)	5.9(2)
C(4)	0.1601(3)	0.4027(5)	0.1897(2)	5.1(2)
C(5)	0.1375(2)	0.3166(5)	0.1674(2)	4.2(2)
C(6)	0.2258(2)	-0.1119(4)	0.1574(2)	2.6(1)
C(7)	0.2385(2)	-0.1358(5)	0.1985(2)	3.2(1)
C(8)	0.2087(2)	-0.2139(5)	0.2199(2)	3.4(1)
C(9)	0.1661(2)	-0.2739(5)	0.2016(2)	3.6(2)
C(10)	0.1520(2)	-0.2553(5)	0.1613(2)	3.4(1)
C(11)	0.1804(2)	-0.1727(4)	0.1390(2)	2.7(1)
C(12)	0.1672(2)	-0.1649(5)	0.0944(2)	2.7(1)
C(13)	0.1220(2)	-0.1004(4)	0.0792(2)	2.7(1)
C(14)	0.1088(2)	-0.1093(5)	0.0378(2)	3.4(1)
C(15)	0.1386(3)	-0.1798(6)	0.0132(2)	3.7(2)
C(16)	0.1827(2)	-0.2443(5)	0.0284(2)	3.6(2)
C(17)	0.1969(2)	-0.2378(5)	0.0690(2)	3.4(1)
C(18)	0.2410(2)	-0.3153(5)	0.0855(2)	4.1(2)
C(19)	0.1072(2)	-0.3277(5)	0.1415(2)	4.3(2)
C(20)	0.3280(3)	0.1464(6)	0.1089(2)	5.2(2)
C(21)	0.3379(2)	0.0784(6)	0.1939(2)	5.0(2)
C(22)	0.3744(2)	-0.0864(6)	0.1282(2)	4.5(2)
C(23)	0.3673(3)	-0.1184(7)	0.0843(2)	5.4(2)
C(24)	0.3692(3)	-0.1911(6)	0.1556(2)	5.6(2)

Table 17. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]Y(NC_5H_6)(NC_5H_5)$_2$·C_5H_{12} (**9**).

atom	x	y	z	B_{eq}
C(25)	0.4340(3)	-0.0356(6)	0.1345(2)	5.6(2)
C(26)	0.0110(2)	0.1036(5)	0.0500(2)	4.4(2)
C(27)	0.0201(2)	0.1378(6)	0.1376(2)	4.6(2)
C(28)	-0.0303(2)	-0.0820(5)	0.1045(2)	3.6(1)
C(29)	-0.0878(2)	-0.0299(6)	0.0984(2)	4.4(2)
C(30)	-0.0255(2)	-0.1320(6)	0.1474(2)	4.0(2)
C(31)	-0.0239(2)	-0.1788(6)	0.0745(2)	4.3(2)
C(32)	0.2255(2)	0.0493(5)	0.0350(2)	3.5(1)
C(33)	0.2311(3)	0.0587(6)	-0.0062(2)	4.2(2)
C(34)	0.2001(3)	0.1372(7)	-0.0261(2)	4.6(2)
C(35)	0.1651(3)	0.2075(6)	-0.0046(2)	5.1(2)
C(36)	0.1631(2)	0.1939(5)	0.0372(2)	3.6(1)
C(37)	0.1070(2)	-0.0179(5)	0.2132(2)	3.4(1)
C(38)	0.0986(3)	-0.0348(5)	0.2536(2)	4.5(2)
C(39)	0.1302(3)	0.0246(6)	0.2814(2)	4.2(2)
C(40)	0.1682(2)	0.1032(5)	0.2678(2)	3.6(1)
C(41)	0.1731(2)	0.1173(5)	0.2272(2)	3.1(1)
C(42)	0.0000	0.243(1)	0.2500	11.2(5)
C(43)	0.0154(7)	0.343(1)	0.2362(5)	6.6(4)
C(44)	0.0000	0.455(1)	0.2500	7.8(4)
C(45)	0.0184(7)	0.563(1)	0.2354(5)	6.5(4)
C(46)	0.0000	0.677(1)	0.2500	8.2(4)
C(47)	0.0948(8)	0.493(2)	0.0369(6)	8.1(5)
C(48)	-0.068(1)	0.530(2)	-0.0533(8)	11.7(7)
C(49)	0.0000	0.5000	0.0000	14.0(8)
C(50)	0.041(2)	0.457(3)	0.016(1)	15(1)
C(51)	0.043(1)	0.533(3)	0.031(1)	13.0(9)
H(1)	0.2332	0.2897	0.1057	5.9442
H(2)	0.1892	0.3859	0.1048	5.9442
H(3)	0.2812	0.4092	0.1474	7.3805
H(4)	0.2325	0.4859	0.2017	7.1093
H(5)	0.1382	0.4394	0.2094	6.1072
H(6)	0.0998	0.2949	0.1718	5.0948

Table 17. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]Y(NC_5H_6)(NC_5H_5)$_2$·C_5H_{12} (**9**).

atom	x	y	z	B_{eq}
H(7)	0.2684	-0.0967	0.2116	3.8210
H(8)	0.2176	-0.2263	0.2475	4.0703
H(9)	0.1461	-0.3284	0.2165	4.3722
H(10)	0.0788	-0.0660	0.0267	4.0367
H(11)	0.1288	-0.1844	-0.0146	4.4683
H(12)	0.2030	-0.2925	0.0111	4.2846
H(13)	0.2293	-0.3910	0.0817	4.9480
H(14)	0.2751	-0.3031	0.0718	4.9480
H(15)	0.2466	-0.3009	0.1134	4.9480
H(16)	0.0730	-0.3194	0.1555	5.1004
H(17)	0.1018	-0.3049	0.1143	5.1004
H(18)	0.1186	-0.4042	0.1423	5.1004
H(19)	0.3652	0.1745	0.1113	6.2828
H(20)	0.3206	0.1243	0.0818	6.2828
H(21)	0.3023	0.2036	0.1163	6.2828
H(22)	0.3344	0.0202	0.2133	5.9922
H(23)	0.3754	0.1055	0.1943	5.9922
H(24)	0.3131	0.1382	0.2002	5.9922
H(25)	0.3309	-0.1490	0.0799	6.4523
H(26)	0.3718	-0.0535	0.0680	6.4523
H(27)	0.3948	-0.1728	0.0776	6.4523
H(28)	0.3333	-0.2244	0.1516	6.7538
H(29)	0.3975	-0.2440	0.1491	6.7538
H(30)	0.3736	-0.1692	0.1830	6.7538
H(31)	0.4614	-0.0900	0.1278	6.7691
H(32)	0.4379	0.0286	0.1178	6.7691
H(33)	0.4390	-0.0142	0.1619	6.7691
H(34)	0.0373	0.1627	0.0466	5.2968
H(35)	0.0134	0.0526	0.0281	5.2968
H(36)	-0.0258	0.1340	0.0508	5.2968
H(37)	0.0255	0.1047	0.1634	5.4821
H(38)	0.0475	0.1946	0.1338	5.4821
H(39)	-0.0164	0.1700	0.1358	5.4821

Table 17. Atomic coordinates and B_{iso}/B_{eq} for [DADMB]Y(NC_5H_6)(NC_5H_5)$_2$·C_5H_{12} (**9**).

atom	x	y	z	B_{eq}
H(40)	-0.0930	0.0280	0.1177	5.3312
H(41)	-0.0908	0.0011	0.0721	5.3312
H(42)	-0.1158	-0.0859	0.1015	5.3312
H(43)	-0.0540	-0.1868	0.1508	4.8430
H(44)	0.0103	-0.1663	0.1510	4.8430
H(45)	-0.0297	-0.0738	0.1667	4.8430
H(46)	-0.0524	-0.2330	0.0787	5.1152
H(47)	-0.0271	-0.1505	0.0478	5.1152
H(48)	0.0119	-0.2130	0.0783	5.1152
H(49)	0.2464	-0.0076	0.0486	4.1948
H(50)	0.2561	0.0112	-0.0202	5.0928
H(51)	0.2022	0.1440	-0.0545	5.5552
H(52)	0.1431	0.2633	-0.0179	6.1013
H(53)	0.1399	0.2426	0.0523	4.3642
H(54)	0.0860	-0.0616	0.1943	4.0778
H(55)	0.0712	-0.0871	0.2623	5.4294
H(56)	0.1260	0.0119	0.3094	5.0574
H(57)	0.1903	0.1463	0.2862	4.2679
H(58)	0.1989	0.1722	0.2181	3.7139

$B_{eq} = 8/3\ \pi^2(U_{11}(aa^*)^2 + U_{22}(bb^*)^2 + U_{33}(cc^*)^2 + 2U_{12}(aa^*bb^*)\cos\gamma + 2U_{13}(aa^*cc^*)\cos\beta + 2U_{23}(bb^*cc^*)\cos\alpha)$

Table 18. Anisotropic Displacement Parameters for [DADMB]Y(NC_5H_6)(NC_5H_5)$_2$·C_5H_{12} (**9**).

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
Y(1)	0.0337(3)	0.0371(3)	0.0269(3)	-0.0036(3)	0.0007(2)	-0.0004(3)
Si(1)	0.0341(9)	0.047(1)	0.0431(9)	-0.0013(8)	-0.0015(7)	-0.0003(8)
Si(2)	0.0340(9)	0.048(1)	0.0352(8)	-0.0011(8)	-0.0031(6)	-0.0051(7)
N(1)	0.055(3)	0.040(3)	0.040(3)	-0.010(3)	0.007(2)	-0.002(2)
N(2)	0.032(3)	0.040(3)	0.035(2)	-0.006(2)	-0.001(2)	0.000(2)
N(3)	0.039(3)	0.038(3)	0.025(2)	-0.001(2)	0.001(2)	-0.007(2)
N(4)	0.035(3)	0.037(3)	0.031(2)	-0.003(2)	0.001(2)	-0.003(2)
N(5)	0.040(3)	0.046(3)	0.031(3)	-0.005(2)	-0.003(2)	0.004(2)
C(1)	0.068(5)	0.064(5)	0.063(4)	-0.009(4)	0.002(3)	0.000(4)
C(2)	0.076(6)	0.079(6)	0.108(7)	-0.037(4)	0.023(5)	-0.037(5)
C(3)	0.074(5)	0.057(5)	0.095(6)	-0.004(4)	-0.014(4)	-0.029(5)
C(4)	0.067(5)	0.046(4)	0.082(5)	-0.005(4)	0.007(4)	-0.020(4)
C(5)	0.053(4)	0.048(4)	0.055(4)	-0.007(3)	0.000(3)	-0.009(3)
C(6)	0.035(3)	0.036(3)	0.032(3)	0.007(3)	0.011(2)	-0.003(3)
C(7)	0.039(3)	0.043(4)	0.039(3)	0.003(3)	-0.002(2)	-0.001(3)
C(8)	0.053(4)	0.049(4)	0.037(3)	0.011(3)	0.005(3)	0.010(3)
C(9)	0.053(4)	0.040(4)	0.052(4)	0.008(3)	0.014(3)	0.021(3)
C(10)	0.040(3)	0.036(3)	0.048(4)	0.002(3)	0.004(3)	-0.003(3)
C(11)	0.043(3)	0.024(3)	0.038(3)	0.008(3)	0.007(2)	-0.001(2)
C(12)	0.034(3)	0.039(3)	0.033(3)	-0.009(3)	0.008(2)	-0.008(3)
C(13)	0.037(3)	0.041(4)	0.029(3)	-0.008(3)	0.004(2)	-0.006(3)
C(14)	0.038(3)	0.047(4)	0.042(3)	-0.006(3)	0.001(3)	-0.006(3)
C(15)	0.056(4)	0.076(5)	0.038(4)	-0.015(4)	0.008(3)	-0.019(3)
C(16)	0.050(4)	0.050(4)	0.044(4)	-0.004(3)	0.018(3)	-0.018(3)
C(17)	0.040(3)	0.045(4)	0.045(4)	-0.003(3)	0.005(3)	-0.006(3)
C(18)	0.056(4)	0.056(4)	0.053(4)	0.002(3)	0.011(3)	-0.017(3)
C(19)	0.053(4)	0.048(4)	0.058(4)	-0.010(3)	0.013(3)	0.008(3)
C(20)	0.052(4)	0.062(5)	0.092(5)	-0.016(4)	-0.013(3)	0.022(4)
C(21)	0.044(4)	0.078(5)	0.069(4)	0.000(4)	-0.001(3)	-0.019(4)
C(22)	0.037(3)	0.065(5)	0.065(4)	0.007(3)	0.009(3)	-0.008(4)
C(23)	0.081(5)	0.092(6)	0.061(5)	-0.007(5)	0.029(4)	-0.019(4)
C(24)	0.061(5)	0.052(5)	0.114(6)	0.017(4)	0.013(4)	0.021(4)
C(25)	0.034(4)	0.092(6)	0.104(6)	0.013(4)	0.011(3)	-0.001(5)

Table 18. Anisotropic Displacement Parameters for [DADMB]Y(NC_5H_6)(NC_5H_5)$_2$·C_5H_{12} (**9**).

atom	U_{11}	U_{22}	U_{33}	U_{12}	U_{13}	U_{23}
C(26)	0.049(4)	0.058(4)	0.050(4)	-0.003(3)	-0.008(3)	0.005(3)
C(27)	0.042(4)	0.066(5)	0.060(4)	0.014(4)	-0.013(3)	-0.019(4)
C(28)	0.038(3)	0.061(4)	0.037(3)	-0.002(3)	-0.003(2)	0.000(3)
C(29)	0.034(3)	0.093(6)	0.056(4)	-0.007(4)	0.003(3)	-0.001(4)
C(30)	0.051(4)	0.075(5)	0.045(4)	-0.014(4)	0.007(3)	0.004(4)
C(31)	0.050(4)	0.070(5)	0.050(4)	-0.020(3)	0.000(3)	-0.005(4)
C(32)	0.052(4)	0.050(4)	0.038(3)	-0.010(3)	0.005(3)	-0.001(3)
C(33)	0.073(5)	0.067(5)	0.040(4)	-0.023(4)	0.013(3)	-0.013(4)
C(34)	0.066(5)	0.089(6)	0.035(4)	-0.030(4)	-0.001(3)	-0.002(4)
C(35)	0.058(4)	0.072(5)	0.056(4)	-0.020(4)	-0.010(3)	0.029(4)
C(36)	0.046(4)	0.056(4)	0.039(3)	-0.009(3)	0.001(3)	0.011(3)
C(37)	0.041(3)	0.045(4)	0.039(3)	0.000(3)	-0.001(2)	-0.003(3)
C(38)	0.060(4)	0.061(4)	0.042(4)	-0.004(3)	0.015(3)	0.004(3)
C(39)	0.070(4)	0.077(5)	0.026(3)	0.003(4)	0.004(3)	-0.003(3)
C(40)	0.046(4)	0.066(5)	0.029(3)	-0.001(3)	-0.001(2)	-0.006(3)
C(41)	0.039(3)	0.044(4)	0.043(4)	-0.008(3)	0.001(3)	-0.001(3)
C(42)	0.28(2)	0.08(1)	0.09(1)	0.0000	0.00(1)	0.0000
C(44)	0.16(1)	0.11(1)	0.039(6)	0.0000	-0.017(7)	0.0000
C(46)	0.12(1)	0.076(9)	0.11(1)	0.0000	-0.002(8)	0.0000
C(49)	0.13(2)	0.25(2)	0.18(2)	0.02(2)	-0.06(1)	0.04(2)

The general temperature factor expression:

$$\exp(-2\pi^2(a^{*2}U_{11}h^2 + b^{*2}U_{22}k^2 + c^{*2}U_{33}l^2 + 2a^*b^*U_{12}hk + 2a^*c^*U_{13}hl + 2b^*c^*U_{23}kl))$$

Table 19. Bond Lengths (Å) for [DADMB]Y(NC_5H_6)(NC_5H_5)$_2$·C_5H_{12} (**9**).

atom	atom	distance	atom	atom	distance
Y(1)	N(1)	2.280(5)	Y(1)	N(2)	2.254(4)
Y(1)	N(3)	2.253(4)	Y(1)	N(4)	2.481(4)
Y(1)	N(5)	2.486(4)	Y(1)	C(6)	2.717(5)
Y(1)	C(13)	2.822(5)	Si(1)	N(2)	1.728(4)
Si(1)	C(20)	1.870(7)	Si(1)	C(21)	1.866(6)
Si(1)	C(22)	1.905(6)	Si(2)	N(3)	1.718(4)
Si(2)	C(26)	1.869(6)	Si(2)	C(27)	1.865(6)
Si(2)	C(28)	1.906(6)	N(1)	C(1)	1.424(7)
N(1)	C(5)	1.397(7)	N(2)	C(6)	1.403(6)
N(3)	C(13)	1.408(6)	N(4)	C(37)	1.352(7)
N(4)	C(41)	1.343(7)	N(5)	C(32)	1.320(7)
N(5)	C(36)	1.340(7)	C(1)	C(2)	1.459(9)
C(2)	C(3)	1.365(9)	C(3)	C(4)	1.372(9)
C(4)	C(5)	1.369(8)	C(6)	C(7)	1.422(7)
C(6)	C(11)	1.429(7)	C(7)	C(8)	1.375(7)
C(8)	C(9)	1.375(8)	C(9)	C(10)	1.393(7)
C(10)	C(11)	1.410(7)	C(10)	C(19)	1.514(8)
C(11)	C(12)	1.513(7)	C(12)	C(13)	1.408(7)
C(12)	C(17)	1.411(7)	C(13)	C(14)	1.407(7)
C(14)	C(15)	1.378(8)	C(15)	C(16)	1.388(8)
C(16)	C(17)	1.387(8)	C(17)	C(18)	1.493(8)
C(22)	C(23)	1.514(9)	C(22)	C(24)	1.550(9)
C(22)	C(25)	1.553(8)	C(28)	C(29)	1.516(8)
C(28)	C(30)	1.546(8)	C(28)	C(31)	1.533(8)
C(32)	C(33)	1.383(8)	C(33)	C(34)	1.356(9)
C(34)	C(35)	1.387(9)	C(35)	C(36)	1.400(8)
C(37)	C(38)	1.377(7)	C(38)	C(39)	1.375(8)
C(39)	C(40)	1.382(8)	C(40)	C(41)	1.367(7)
C(42)	C(43)	1.33(2)	C(42)	C(43)	1.33(2)
C(43)	C(43)	1.19(3)	C(43)	C(44)	1.46(2)
C(44)	C(45)	1.44(2)	C(44)	C(45)	1.44(2)
C(45)	C(45)	1.32(3)	C(45)	C(46)	1.50(2)
C(47)	C(48)	0.89(3)	C(47)	C(50)	1.52(5)

Table 19. Bond Lengths (Å) for [DADMB]Y(NC_5H_6)(NC_5H_5)$_2$·C_5H_{12} (**9**).

atom	atom	distance	atom	atom	distance
C(47)	C(51)	1.34(4)	C(48)	C(50)	1.40(5)
C(48)	C(51)	1.22(4)	C(49)	C(50)	1.21(4)
C(49)	C(50)	1.21(4)	C(49)	C(51)	1.47(4)
C(49)	C(51)	1.47(4)	C(50)	C(51)	1.03(4)

Table 20. Bond Angles (°) for [DADMB]Y(NC_5H_6)(NC_5H_5)$_2$·C_5H_{12} (**9**).

atom	atom	atom	angle	atom	atom	atom	angle
N(1)	Y(1)	N(2)	119.5(2)	N(1)	Y(1)	N(3)	121.4(2)
N(1)	Y(1)	N(4)	84.2(1)	N(1)	Y(1)	N(5)	86.8(2)
N(1)	Y(1)	C(6)	138.0(2)	N(1)	Y(1)	C(13)	142.0(2)
N(2)	Y(1)	N(3)	118.9(1)	N(2)	Y(1)	N(4)	94.5(1)
N(2)	Y(1)	N(5)	91.6(1)	N(2)	Y(1)	C(6)	31.0(1)
N(2)	Y(1)	C(13)	93.3(2)	N(3)	Y(1)	N(4)	95.3(1)
N(3)	Y(1)	N(5)	87.7(1)	N(3)	Y(1)	C(6)	96.7(2)
N(3)	Y(1)	C(13)	29.6(1)	N(4)	Y(1)	N(5)	170.8(2)
N(4)	Y(1)	C(6)	74.7(1)	N(4)	Y(1)	C(13)	113.7(1)
N(5)	Y(1)	C(6)	113.6(1)	N(5)	Y(1)	C(13)	72.7(1)
C(6)	Y(1)	C(13)	79.9(2)	N(2)	Si(1)	C(20)	106.6(3)
N(2)	Si(1)	C(21)	115.3(2)	N(2)	Si(1)	C(22)	113.4(3)
C(20)	Si(1)	C(21)	104.1(3)	C(20)	Si(1)	C(22)	107.6(3)
C(21)	Si(1)	C(22)	109.1(3)	N(3)	Si(2)	C(26)	116.4(2)
N(3)	Si(2)	C(27)	105.2(2)	N(3)	Si(2)	C(28)	114.4(2)
C(26)	Si(2)	C(27)	104.2(3)	C(26)	Si(2)	C(28)	106.9(3)
C(27)	Si(2)	C(28)	109.0(3)	Y(1)	N(1)	C(1)	122.1(4)
Y(1)	N(1)	C(5)	126.9(4)	C(1)	N(1)	C(5)	109.6(5)
Y(1)	N(2)	Si(1)	131.5(2)	Y(1)	N(2)	C(6)	93.0(3)
Si(1)	N(2)	C(6)	126.6(4)	Y(1)	N(3)	Si(2)	127.3(2)
Y(1)	N(3)	C(13)	98.2(3)	Si(2)	N(3)	C(13)	127.5(3)
Y(1)	N(4)	C(37)	122.8(3)	Y(1)	N(4)	C(41)	119.7(3)
C(37)	N(4)	C(41)	116.6(4)	Y(1)	N(5)	C(32)	122.2(4)
Y(1)	N(5)	C(36)	119.0(4)	C(32)	N(5)	C(36)	117.5(5)
N(1)	C(1)	C(2)	115.2(6)	C(1)	C(2)	C(3)	115.8(6)
C(2)	C(3)	C(4)	119.8(6)	C(3)	C(4)	C(5)	119.6(6)
N(1)	C(5)	C(4)	122.3(6)	Y(1)	C(6)	N(2)	56.0(2)
Y(1)	C(6)	C(7)	127.0(4)	Y(1)	C(6)	C(11)	83.5(3)
N(2)	C(6)	C(7)	122.6(5)	N(2)	C(6)	C(11)	119.9(5)
C(7)	C(6)	C(11)	117.0(5)	C(6)	C(7)	C(8)	122.0(5)
C(7)	C(8)	C(9)	120.3(5)	C(8)	C(9)	C(10)	120.4(5)
C(9)	C(10)	C(11)	120.4(5)	C(9)	C(10)	C(19)	118.9(5)
C(11)	C(10)	C(19)	120.7(5)	C(6)	C(11)	C(10)	119.7(5)