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Table S1. Atomic Coordinates (× 10^4) and Equivalent Isotropic Displacement Parameters (Å^2 × 10^3) for [1][Li(dme)$_{0.5}$(OEt$_2$)$_{0.5}$].

atom	*x*	*y*	*z*	*U*(eq)^a
Mo(1)	475(1)	183(1)	7427(1)	28(1)
Mo(2)	1999(1)	1781(1)	7437(1)	28(1)
P(1)	1471(1)	−185(1)	8542(1)	38(1)
P(2)	3240(1)	1696(1)	8545(1)	41(1)
P(3)	−947(1)	353(1)	6435(1)	38(1)
P(4)	785(1)	2310(1)	6521(1)	39(1)
Si(1)	−558(2)	−3595(1)	6416(1)	62(1)
Si(2)	5043(2)	2541(2)	5742(1)	64(1)
Si(3)	3181(2)	5430(1)	8863(1)	66(1)
Si(4)	3097(1)	−543(1)	6787(1)	43(1)
Si(5)	−581(2)	2769(1)	9046(1)	54(1)
Si(6)	−2306(1)	−1131(1)	8063(1)	53(1)
Li(1)	3926(11)	3829(8)	7333(6)	70(3)
O(1)	4948(10)	4947(6)	7197(6)	79(3)
O(2)	4008(11)	5026(7)	6832(7)	86(3)
O(3)	5653(11)	4602(9)	7619(7)	110(4)
C(1)	987(6)	214(5)	9394(3)	59(2)
C(2)	1476(5)	−1441(4)	8604(3)	58(2)
C(3)	2995(4)	460(4)	8731(3)	45(1)
C(4)	3030(6)	2419(4)	9394(3)	64(2)
C(5)	4785(5)	2064(5)	8621(4)	68(2)
C(6)	−2226(5)	706(5)	6648(4)	60(2)
C(7)	−1485(5)	−715(4)	5692(3)	57(2)
C(8)	−347(4)	1308(4)	5952(3)	43(1)
C(9)	5(6)	3176(4)	6874(4)	65(2)
C(10)	1417(6)	2869(5)	5818(3)	68(2)
C(11)	−1(4)	−1397(4)	6971(3)	40(1)
C(12)	−243(5)	−2274(4)	6726(3)	48(1)
C(13)	−1949(6)	−4077(5)	5810(4)	78(2)
C(14)	544(7)	−3928(6)	5895(6)	129(4)
C(15)	−624(8)	−4191(5)	7214(5)	108(3)
C(16)	3411(4)	2226(4)	6830(3)	41(1)
C(17)	4126(5)	2490(4)	6445(3)	52(1)
C(18)	4750(9)	3376(9)	5149(6)	156(5)
C(19)	4741(7)	1293(7)	5169(5)	114(3)
C(20)	6584(6)	2923(6)	6133(5)	89(2)
C(21)	2504(4)	3342(4)	7963(3)	39(1)
C(22)	2870(5)	4210(4)	8262(3)	50(1)
C(23)	2216(10)	6126(6)	8575(6)	151(5)
C(24)	4650(9)	6169(8)	8870(7)	187(6)
C(25)	3126(12)	5314(6)	9798(4)	152(5)
C(26)	1429(4)	457(3)	6586(3)	32(1)
C(27)	2156(4)	242(3)	7092(2)	31(1)

C(28)	3127(6)	−1619(4)	7216(4)	68(2)
C(29)	2582(6)	−1109(5)	5804(3)	76(2)
C(30)	4624(5)	160(5)	6911(4)	70(2)
C(31)	678(4)	1679(3)	8010(2)	32(1)
C(32)	−153(4)	1810(3)	8426(3)	37(1)
C(33)	−724(4)	804(4)	8240(3)	38(1)
C(34)	−1123(4)	−111(4)	8019(3)	40(1)
C(35)	240(10)	3049(8)	9978(5)	146(5)
C(36)	−364(11)	3936(6)	8742(5)	144(5)
C(37)	−2070(8)	2247(8)	9118(8)	214(8)
C(38)	−3097(6)	−1803(5)	7150(4)	72(2)
C(39)	−3324(6)	−646(6)	8600(4)	83(2)
C(40)	−1803(6)	−2040(5)	8518(4)	75(2)
C(41)	3325(10)	5394(7)	6507(6)	146(5)
C(42)	4883(12)	5601(9)	6804(7)	159(6)
C(43)	6057(9)	5239(8)	7367(9)	131(4)
C(44)	6394(8)	4437(8)	8015(6)	131(4)
H(26)	1375(32)	307(27)	6031(22)	15(10)

[a] U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

Table S2. Anisotropic Displacement Parameters ($Å^2 \times 10^3$) for [1][Li(dme)$_{0.5}$(OEt$_2$)$_{0.5}$].[a]

atom	U_{11}	U_{22}	U_{33}	U_{23}	U_{13}	U_{12}
Mo(1)	26(1)	27(1)	30(1)	6(1)	6(1)	7(1)
Mo(2)	27(1)	27(1)	31(1)	5(1)	6(1)	8(1)
P(1)	44(1)	40(1)	35(1)	14(1)	8(1)	16(1)
P(2)	38(1)	41(1)	40(1)	4(1)	–3(1)	10(1)
P(3)	33(1)	41(1)	39(1)	11(1)	–1(1)	6(1)
P(4)	43(1)	34(1)	40(1)	13(1)	1(1)	8(1)
Si(1)	61(1)	34(1)	79(1)	–4(1)	–9(1)	11(1)
Si(2)	46(1)	86(1)	70(1)	30(1)	27(1)	17(1)
Si(3)	76(1)	39(1)	71(1)	–11(1)	–11(1)	16(1)
Si(4)	37(1)	46(1)	51(1)	5(1)	12(1)	19(1)
Si(5)	58(1)	48(1)	62(1)	4(1)	27(1)	25(1)
Si(6)	44(1)	50(1)	63(1)	18(1)	17(1)	2(1)
Li(1)	81(8)	60(6)	67(7)	16(5)	18(6)	11(6)
O(1)	79(8)	41(5)	101(8)	20(5)	14(7)	–22(5)
O(2)	94(9)	52(6)	115(9)	29(6)	15(8)	18(7)
O(3)	79(8)	109(9)	125(10)	75(8)	–22(7)	–31(7)
C(1)	69(4)	75(4)	41(3)	20(3)	15(3)	23(3)
C(2)	64(4)	55(4)	64(4)	32(3)	9(3)	22(3)
C(3)	45(3)	52(3)	42(3)	12(2)	1(2)	20(3)
C(4)	90(5)	56(4)	39(3)	–3(3)	–7(3)	20(4)
C(5)	36(3)	70(4)	90(5)	24(4)	–11(3)	2(3)
C(6)	38(3)	75(4)	73(4)	26(3)	5(3)	20(3)
C(7)	58(4)	49(3)	48(3)	9(3)	–12(3)	–7(3)
C(8)	42(3)	43(3)	41(3)	17(2)	–3(2)	6(2)
C(9)	66(4)	50(4)	79(5)	11(3)	–8(3)	26(3)
C(10)	78(5)	59(4)	57(4)	34(3)	0(3)	–9(3)
C(11)	33(3)	42(3)	45(3)	9(2)	9(2)	8(2)
C(12)	46(3)	39(3)	58(3)	4(3)	4(3)	15(3)
C(13)	80(5)	65(4)	70(5)	13(4)	–9(4)	–6(4)
C(14)	83(6)	94(6)	181(10)	–54(6)	10(6)	35(5)
C(15)	144(8)	49(4)	114(7)	21(4)	–44(6)	20(5)
C(16)	38(3)	36(3)	50(3)	9(2)	12(2)	12(2)
C(17)	47(3)	52(3)	63(4)	20(3)	17(3)	14(3)
C(18)	138(9)	257(14)	154(10)	152(10)	82(8)	98(10)
C(19)	85(6)	133(8)	96(6)	–27(5)	47(5)	–3(5)
C(20)	50(4)	89(5)	123(7)	15(5)	27(4)	9(4)
C(21)	38(3)	37(3)	42(3)	6(2)	1(2)	14(2)
C(22)	51(3)	42(3)	51(3)	3(3)	–1(3)	12(3)
C(23)	215(13)	80(6)	147(9)	–21(6)	–49(9)	89(8)
C(24)	132(10)	133(9)	210(13)	–88(9)	28(9)	–40(8)
C(25)	294(16)	80(6)	75(6)	–21(5)	–11(8)	79(8)
C(26)	34(3)	29(2)	32(3)	6(2)	10(2)	7(2)
C(27)	25(2)	28(2)	38(3)	5(2)	7(2)	5(2)

C(28)	70(4)	48(4)	94(5)	9(3)	28(4)	30(3)
C(29)	78(5)	94(5)	61(4)	–8(4)	16(4)	49(4)
C(30)	46(4)	71(4)	103(6)	17(4)	28(4)	24(3)
C(31)	32(3)	34(3)	31(2)	5(2)	3(2)	12(2)
C(32)	38(3)	30(3)	46(3)	6(2)	13(2)	13(2)
C(33)	34(3)	47(3)	42(3)	17(2)	19(2)	17(2)
C(34)	36(3)	39(3)	45(3)	12(2)	12(2)	7(2)
C(35)	194(12)	165(10)	94(7)	–28(6)	18(7)	118(9)
C(36)	268(14)	97(7)	123(8)	36(6)	94(9)	114(8)
C(37)	102(8)	148(10)	337(19)	–104(11)	137(11)	–5(7)
C(38)	58(4)	67(4)	78(5)	17(4)	4(4)	–7(3)
C(39)	52(4)	98(6)	100(6)	28(5)	35(4)	6(4)
C(40)	71(5)	60(4)	92(5)	35(4)	13(4)	0(4)
C(41)	173(10)	65(6)	172(11)	46(7)	–42(9)	–7(6)
C(42)	156(11)	118(8)	149(11)	63(9)	–19(9)	–75(9)
C(43)	93(8)	76(7)	211(14)	20(8)	47(8)	–9(6)
C(44)	111(7)	133(9)	125(8)	41(7)	9(6)	–22(6)

[a] The anisotropic displacement factor exponent takes the form: $-2\pi^2$ [$h^2 a^{*2} U_{11}$ + ... + $2h k a^* b^* U_{12}$].

Table S3. Calculated Hydrogen Coordinates ($\times$ 10^4) and Isotropic Displacement Parameters ($Å^2 \times 10^3$) for [1][Li(dme)$_{0.5}$(OEt$_2$)$_{0.5}$].

atom	*x*	*y*	*z*	*U*(eq)
H(1A)	943(6)	882(5)	9437(3)	71
H(1B)	1517(6)	168(5)	9792(3)	71
H(1C)	247(6)	–200(5)	9401(3)	71
H(2A)	1720(5)	–1751(4)	8179(3)	69
H(2B)	721(5)	–1801(4)	8637(3)	69
H(2C)	1991(5)	–1433(4)	9027(3)	69
H(3A)	3287(4)	502(4)	9235(3)	54
H(3B)	3409(4)	87(4)	8433(3)	54
H(4A)	2229(6)	2290(4)	9423(3)	77
H(4B)	3330(6)	3106(4)	9407(3)	77
H(4C)	3419(6)	2240(4)	9798(3)	77
H(5A)	5019(5)	2717(5)	8533(4)	82
H(5B)	5028(5)	1617(5)	8270(4)	82
H(5C)	5125(5)	2053(5)	9100(4)	82
H(6A)	–2024(5)	1272(5)	7039(4)	72
H(6B)	–2731(5)	172(5)	6789(4)	72
H(6C)	–2602(5)	862(5)	6228(4)	72
H(7A)	–858(5)	–956(4)	5541(3)	68
H(7B)	–1875(5)	–531(4)	5292(3)	68
H(7C)	–2003(5)	–1221(4)	5852(3)	68
H(8A)	–46(4)	1012(4)	5541(3)	51
H(8B)	–954(4)	1575(4)	5764(3)	51
H(9A)	–372(6)	2954(4)	7256(4)	78
H(9B)	–553(6)	3223(4)	6492(4)	78
H(9C)	526(6)	3810(4)	7061(4)	78
H(10A)	1861(6)	2467(5)	5588(3)	81
H(10B)	1901(6)	3511(5)	6032(3)	81
H(10C)	823(6)	2923(5)	5463(3)	81
H(13A)	–2095(6)	–4776(5)	5654(4)	93
H(13B)	–1931(6)	–3777(5)	5394(4)	93
H(13C)	–2543(6)	–3926(5)	6067(4)	93
H(14A)	364(7)	–4629(6)	5735(6)	154
H(14B)	1276(7)	–3703(6)	6199(6)	154
H(14C)	563(7)	–3625(6)	5481(6)	154
H(15A)	–791(8)	–4891(5)	7052(5)	130
H(15B)	–1212(8)	–4029(5)	7472(5)	130
H(15C)	97(8)	–3960(5)	7530(5)	130
H(18A)	5245(9)	3384(9)	4789(6)	188
H(18B)	4882(9)	4028(9)	5435(6)	188
H(18C)	3970(9)	3152(9)	4915(6)	188
H(19A)	5214(7)	1303(7)	4796(5)	137
H(19B)	3953(7)	1085(7)	4950(5)	137
H(19C)	4899(7)	843(7)	5463(5)	137

H(20A)	7033(6)	2940(6)	5748(5)	106
H(20B)	6754(6)	2462(6)	6413(5)	106
H(20C)	6759(6)	3565(6)	6441(5)	106
H(23A)	2264(10)	6179(6)	8081(6)	181
H(23B)	2422(10)	6771(6)	8880(6)	181
H(23C)	1450(10)	5797(6)	8612(6)	181
H(24A)	5188(9)	5821(8)	9020(7)	224
H(24B)	4788(9)	6789(8)	9202(7)	224
H(24C)	4734(9)	6280(8)	8391(7)	224
H(25A)	3645(12)	4943(6)	9937(4)	182
H(25B)	2365(12)	4982(6)	9843(4)	182
H(25C)	3338(12)	5956(6)	10107(4)	182
H(28A)	3645(6)	–1960(4)	7010(4)	81
H(28B)	2376(6)	–2055(4)	7129(4)	81
H(28C)	3376(6)	–1393(4)	7729(4)	81
H(29A)	3058(6)	–1520(5)	5632(3)	91
H(29B)	2615(6)	–600(5)	5531(3)	91
H(29C)	1809(6)	–1498(5)	5743(3)	91
H(30A)	5075(5)	–277(5)	6745(4)	84
H(30B)	4888(5)	449(5)	7416(4)	84
H(30C)	4693(5)	668(5)	6636(4)	84
H(35A)	1032(10)	3326(8)	9965(5)	175
H(35B)	156(10)	2455(8)	10160(5)	175
H(35C)	–45(10)	3511(8)	10290(5)	175
H(36A)	429(11)	4179(6)	8712(5)	173
H(36B)	–595(11)	4405(6)	9081(5)	173
H(36C)	–811(11)	3835(6)	8272(5)	173
H(37A)	–2138(8)	1639(8)	9279(8)	257
H(37B)	–2533(8)	2128(8)	8652(8)	257
H(37C)	–2320(8)	2699(8)	9461(8)	257
H(38A)	–3711(6)	–2333(5)	7202(4)	87
H(38B)	–2587(6)	–2063(5)	6868(4)	87
H(38C)	–3401(6)	–1360(5)	6909(4)	87
H(39A)	–3952(6)	–1181(6)	8627(4)	99
H(39B)	–3605(6)	–184(6)	8369(4)	99
H(39C)	–2939(6)	–325(6)	9081(4)	99
H(40A)	–2442(6)	–2569(5)	8535(4)	90
H(40B)	–1431(6)	–1725(5)	9003(4)	90
H(40C)	–1274(6)	–2295(5)	8251(4)	90
H(41A)	3726(10)	5962(7)	6348(6)	175
H(41B)	2873(10)	4917(7)	6096(6)	175
H(41C)	2837(10)	5584(7)	6839(6)	175
H(42A)	5162(110)	6153(88)	7045(67)	190
H(42B)	5327(107)	5606(90)	6393(65)	190
H(43A)	6560(93)	5103(77)	7026(58)	158
H(43B)	6299(92)	5869(78)	7614(57)	158

H(44A)	7103(8)	4918(8)	8045(6)	158
H(44B)	6185(8)	4456(8)	8490(6)	158
H(44C)	6480(8)	3795(8)	7824(6)	158

Table S4. Bond Lengths for [1][Li(dme)$_{0.5}$(OEt$_2$)$_{0.5}$].

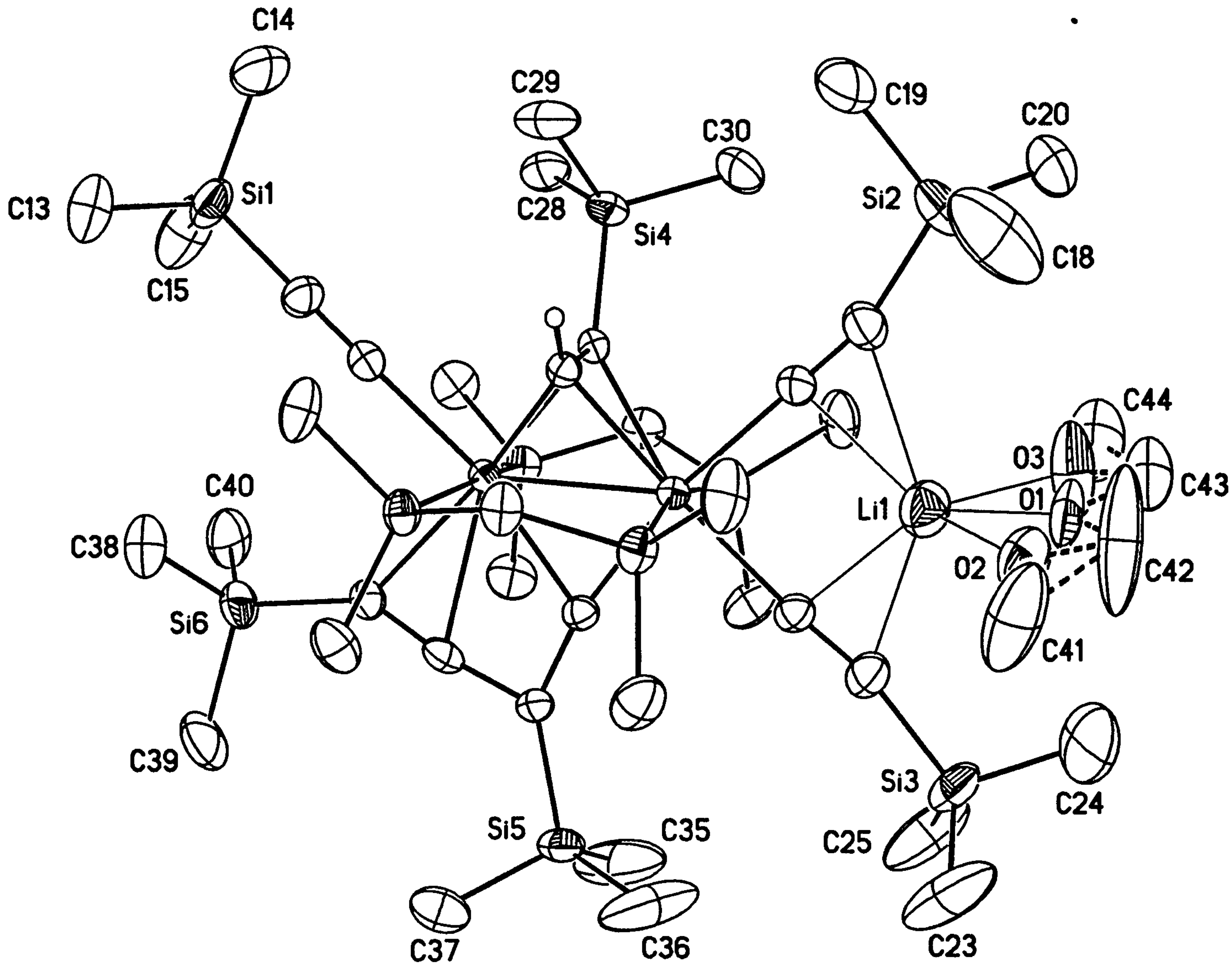
nuclei	distance (Å)	nuclei	distance (Å)
Mo(1)–Mo(2)	2.5845(9)	Mo(1)–P(1)	2.521(2)
Mo(1)–P(3)	2.498(2)	Mo(1)–C(11)	2.188(5)
Mo(1)–C(26)	2.112(5)	Mo(1)–C(27)	2.200(4)
Mo(1)–C(31)	2.173(5)	Mo(1)–C(33)	2.434(5)
Mo(1)–C(34)	2.345(5)	Mo(2)–P(2)	2.490(2)
Mo(2)–P(4)	2.490(2)	Mo(2)–Li(1)	3.352(11)
Mo(2)–C(16)	2.209(5)	Mo(2)–C(21)	2.191(5)
Mo(2)–C(26)	2.177(5)	Mo(2)–C(27)	2.243(4)
Mo(2)–C(31)	2.033(5)	P(1)–C(1)	1.823(6)
P(1)–C(2)	1.822(5)	P(1)–C(3)	1.837(5)
P(2)–C(3)	1.825(5)	P(2)–C(4)	1.831(6)
P(2)–C(5)	1.818(6)	P(3)–C(6)	1.813(6)
P(3)–C(7)	1.824(5)	P(3)–C(8)	1.833(5)
P(4)–C(8)	1.827(5)	P(4)–C(9)	1.813(6)
P(4)–C(10)	1.823(6)	Si(1)–C(12)	1.811(5)
Si(1)–C(13)	1.850(7)	Si(1)–C(14)	1.854(8)
Si(1)–C(15)	1.863(8)	Si(2)–C(17)	1.832(6)
Si(2)–C(18)	1.845(9)	Si(2)–C(19)	1.851(8)
Si(2)–C(20)	1.859(7)	Si(3)–C(22)	1.840(6)
Si(3)–C(23)	1.808(9)	Si(3)–C(24)	1.853(11)
Si(3)–C(25)	1.816(9)	Si(4)–C(27)	1.853(5)
Si(4)–C(28)	1.867(6)	Si(4)–C(29)	1.871(6)
Si(4)–C(30)	1.866(6)	Si(5)–C(32)	1.853(5)
Si(5)–C(35)	1.861(10)	Si(5)–C(36)	1.830(8)
Si(5)–C(37)	1.827(9)	Si(6)–C(34)	1.819(5)
Si(6)–C(38)	1.863(7)	Si(6)–C(39)	1.868(7)
Si(6)–C(40)	1.860(7)	Li(1)–O(1)	1.862(14)
Li(1)–O(2)	2.09(2)	Li(1)–O(3)	2.10(2)
Li(1)–C(16)	2.233(12)	Li(1)–C(17)	2.395(13)
Li(1)–C(21)	2.260(13)	Li(1)–C(22)	2.354(13)
O(1)–O(2)	1.31(2)	O(1)–O(3)	1.34(2)
O(1)–C(42)	1.30(2)	O(1)–C(43)	1.30(2)
O(2)–C(41)	1.247(14)	O(2)–C(42)	1.20(2)
O(3)–C(43)	1.137(14)	O(3)–C(44)	1.204(14)
C(11)–C(12)	1.212(7)	C(16)–C(17)	1.231(7)
C(21)–C(22)	1.225(7)	C(26)–C(27)	1.358(7)
C(31)–C(32)	1.377(6)	C(31)–C(33)	2.010(7)
C(32)–C(33)	1.408(7)	C(33)–C(34)	1.261(7)
C(41)–C(42)	1.86(2)	C(42)–C(43)	1.91(2)
C(43)–C(44)	1.90(2)	C(26)–H(26)	1.026(39)

Table S5. Bond Angles for [1][Li(dme)$_{0.5}$(OEt$_2$)$_{0.5}$].

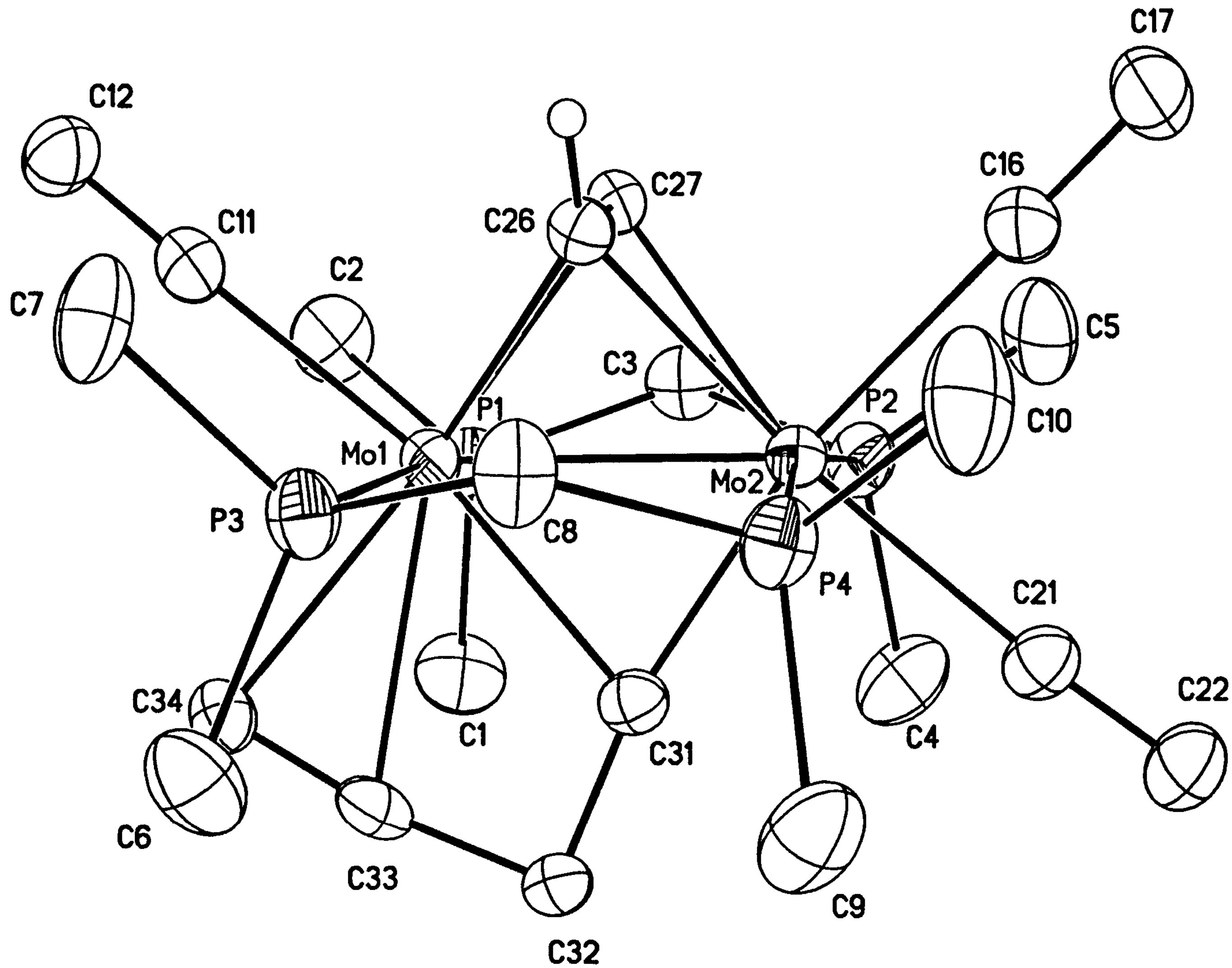
nuclei	angle (deg)	nuclei	angle (deg)
C(26)–Mo(1)–C(31)	100.3(2)	C(30)–Si(4)–C(29)	109.5(3)
C(26)–Mo(1)–C(11)	91.0(2)	C(37)–Si(5)–C(36)	112.7(6)
C(31)–Mo(1)–C(11)	168.4(2)	C(37)–Si(5)–C(32)	106.0(3)
C(26)–Mo(1)–C(27)	36.6(2)	C(36)–Si(5)–C(32)	112.9(3)
C(31)–Mo(1)–C(27)	102.7(2)	C(37)–Si(5)–C(35)	106.7(6)
C(11)–Mo(1)–C(27)	87.9(2)	C(36)–Si(5)–C(35)	106.5(5)
C(26)–Mo(1)–C(34)	158.5(2)	C(32)–Si(5)–C(35)	112.1(3)
C(31)–Mo(1)–C(34)	81.9(2)	C(34)–Si(6)–C(40)	111.2(3)
C(11)–Mo(1)–C(34)	86.6(2)	C(34)–Si(6)–C(38)	112.6(3)
C(27)–Mo(1)–C(34)	163.9(2)	C(40)–Si(6)–C(38)	107.3(3)
C(26)–Mo(1)–C(33)	145.4(2)	C(34)–Si(6)–C(39)	108.9(3)
C(31)–Mo(1)–C(33)	51.4(2)	C(40)–Si(6)–C(39)	108.2(3)
C(11)–Mo(1)–C(33)	117.2(2)	C(38)–Si(6)–C(39)	108.4(3)
C(27)–Mo(1)–C(33)	150.8(2)	O(1)–Li(1)–O(2)	38.3(5)
C(34)–Mo(1)–C(33)	30.5(2)	O(1)–Li(1)–O(3)	39.1(6)
C(26)–Mo(1)–P(3)	75.80(14)	O(2)–Li(1)–O(3)	77.3(7)
C(31)–Mo(1)–P(3)	92.34(12)	O(1)–Li(1)–C(16)	136.7(7)
C(11)–Mo(1)–P(3)	87.82(14)	O(2)–Li(1)–C(16)	128.9(7)
C(27)–Mo(1)–P(3)	112.15(13)	O(3)–Li(1)–C(16)	121.2(7)
C(34)–Mo(1)–P(3)	82.79(13)	O(1)–Li(1)–C(21)	142.0(7)
C(33)–Mo(1)–P(3)	85.15(13)	O(2)–Li(1)–C(21)	121.4(7)
C(26)–Mo(1)–P(1)	117.72(14)	O(3)–Li(1)–C(21)	134.5(7)
C(31)–Mo(1)–P(1)	89.55(12)	C(16)–Li(1)–C(21)	81.1(4)
C(11)–Mo(1)–P(1)	87.54(14)	O(1)–Li(1)–C(22)	111.6(6)
C(27)–Mo(1)–P(1)	81.11(13)	O(2)–Li(1)–C(22)	101.2(6)
C(34)–Mo(1)–P(1)	83.52(13)	O(3)–Li(1)–C(22)	111.6(6)
C(33)–Mo(1)–P(1)	85.03(12)	C(16)–Li(1)–C(22)	111.7(5)
P(3)–Mo(1)–P(1)	165.77(5)	C(21)–Li(1)–C(22)	30.7(2)
C(26)–Mo(1)–Mo(2)	54.12(12)	O(1)–Li(1)–C(17)	106.1(6)
C(31)–Mo(1)–Mo(2)	49.68(12)	O(2)–Li(1)–C(17)	107.2(6)
C(11)–Mo(1)–Mo(2)	141.79(13)	O(3)–Li(1)–C(17)	98.6(6)
C(27)–Mo(1)–Mo(2)	55.21(12)	C(16)–Li(1)–C(17)	30.6(2)
C(34)–Mo(1)–Mo(2)	131.55(13)	C(21)–Li(1)–C(17)	111.6(5)
C(33)–Mo(1)–Mo(2)	101.03(12)	C(22)–Li(1)–C(17)	142.3(5)
P(3)–Mo(1)–Mo(2)	96.68(4)	O(1)–Li(1)–Mo(2)	175.4(7)
P(1)–Mo(1)–Mo(2)	95.29(4)	O(2)–Li(1)–Mo(2)	138.3(6)
C(31)–Mo(2)–C(26)	102.7(2)	O(3)–Li(1)–Mo(2)	144.2(6)
C(31)–Mo(2)–C(21)	85.8(2)	C(16)–Li(1)–Mo(2)	40.7(2)
C(26)–Mo(2)–C(21)	160.1(2)	C(21)–Li(1)–Mo(2)	40.4(2)
C(31)–Mo(2)–C(16)	167.5(2)	C(22)–Li(1)–Mo(2)	71.0(3)
C(26)–Mo(2)–C(16)	86.1(2)	C(17)–Li(1)–Mo(2)	71.2(3)
C(21)–Mo(2)–C(16)	83.2(2)	C(43)–O(1)–C(42)	94.4(10)
C(31)–Mo(2)–C(27)	105.9(2)	C(43)–O(1)–O(2)	148.8(12)
C(26)–Mo(2)–C(27)	35.7(2)	C(42)–O(1)–O(2)	54.5(9)

C(21)–Mo(2)–C(27)	158.4(2)	C(43)–O(1)–O(3)	50.8(8)
C(16)–Mo(2)–C(27)	86.4(2)	C(42)–O(1)–O(3)	145.2(11)
C(31)–Mo(2)–P(2)	88.46(14)	O(2)–O(1)–O(3)	160.3(10)
C(26)–Mo(2)–P(2)	117.12(13)	C(43)–O(1)–Li(1)	130.3(11)
C(21)–Mo(2)–P(2)	80.72(13)	C(42)–O(1)–Li(1)	134.3(11)
C(16)–Mo(2)–P(2)	95.52(14)	O(2)–O(1)–Li(1)	80.2(8)
C(27)–Mo(2)–P(2)	81.48(12)	O(3)–O(1)–Li(1)	80.1(8)
C(31)–Mo(2)–P(4)	86.53(14)	C(42)–O(2)–C(41)	99.0(12)
C(26)–Mo(2)–P(4)	78.20(13)	C(42)–O(2)–O(1)	62.4(10)
C(21)–Mo(2)–P(4)	84.41(13)	C(41)–O(2)–O(1)	160.2(11)
C(16)–Mo(2)–P(4)	86.56(14)	C(42)–O(2)–Li(1)	123.6(12)
C(27)–Mo(2)–P(4)	113.88(12)	C(41)–O(2)–Li(1)	137.4(10)
P(2)–Mo(2)–P(4)	164.62(5)	O(1)–O(2)–Li(1)	61.5(7)
C(31)–Mo(2)–Mo(1)	54.57(13)	C(43)–O(3)–C(44)	108.1(13)
C(26)–Mo(2)–Mo(1)	51.79(12)	C(43)–O(3)–O(1)	62.8(10)
C(21)–Mo(2)–Mo(1)	140.31(14)	C(44)–O(3)–O(1)	169.9(12)
C(16)–Mo(2)–Mo(1)	136.41(13)	C(43)–O(3)–Li(1)	123.0(12)
C(27)–Mo(2)–Mo(1)	53.67(11)	C(44)–O(3)–Li(1)	128.7(10)
P(2)–Mo(2)–Mo(1)	94.93(4)	O(1)–O(3)–Li(1)	60.8(7)
P(4)–Mo(2)–Mo(1)	94.00(4)	P(2)–C(3)–P(1)	111.7(3)
C(31)–Mo(2)–Li(1)	127.3(2)	P(4)–C(8)–P(3)	113.2(3)
C(26)–Mo(2)–Li(1)	125.0(2)	C(12)–C(11)–Mo(1)	178.6(4)
C(21)–Mo(2)–Li(1)	41.9(2)	C(11)–C(12)–Si(1)	176.3(5)
C(16)–Mo(2)–Li(1)	41.3(2)	C(17)–C(16)–Mo(2)	174.2(5)
C(27)–Mo(2)–Li(1)	125.5(2)	C(17)–C(16)–Li(1)	82.0(5)
P(2)–Mo(2)–Li(1)	88.4(2)	Mo(2)–C(16)–Li(1)	98.0(4)
P(4)–Mo(2)–Li(1)	83.1(2)	C(16)–C(17)–Si(2)	164.7(5)
Mo(1)–Mo(2)–Li(1)	176.3(2)	C(16)–C(17)–Li(1)	67.4(4)
C(2)–P(1)–C(1)	100.1(3)	Si(2)–C(17)–Li(1)	127.8(4)
C(2)–P(1)–C(3)	103.1(3)	C(22)–C(21)–Mo(2)	175.1(5)
C(1)–P(1)–C(3)	102.4(3)	C(22)–C(21)–Li(1)	78.9(5)
C(2)–P(1)–Mo(1)	121.1(2)	Mo(2)–C(21)–Li(1)	97.7(3)
C(1)–P(1)–Mo(1)	116.1(2)	C(21)–C(22)–Si(3)	166.1(5)
C(3)–P(1)–Mo(1)	111.6(2)	C(21)–C(22)–Li(1)	70.4(4)
C(5)–P(2)–C(3)	101.9(3)	Si(3)–C(22)–Li(1)	123.4(4)
C(5)–P(2)–C(4)	101.0(3)	C(27)–C(26)–Mo(1)	75.2(3)
C(3)–P(2)–C(4)	102.5(3)	C(27)–C(26)–Mo(2)	74.8(3)
C(5)–P(2)–Mo(2)	120.7(2)	Mo(1)–C(26)–Mo(2)	74.1(2)
C(3)–P(2)–Mo(2)	113.1(2)	C(26)–C(27)–Si(4)	118.9(3)
C(4)–P(2)–Mo(2)	115.2(2)	C(26)–C(27)–Mo(1)	68.1(3)
C(6)–P(3)–C(7)	103.5(3)	Si(4)–C(27)–Mo(1)	142.6(2)
C(6)–P(3)–C(8)	100.7(3)	C(26)–C(27)–Mo(2)	69.5(3)
C(7)–P(3)–C(8)	101.5(3)	Si(4)–C(27)–Mo(2)	146.1(2)
C(6)–P(3)–Mo(1)	120.1(2)	Mo(1)–C(27)–Mo(2)	71.13(13)
C(7)–P(3)–Mo(1)	115.9(2)	C(32)–C(31)–C(33)	44.4(3)
C(8)–P(3)–Mo(1)	112.6(2)	C(32)–C(31)–Mo(2)	168.6(4)

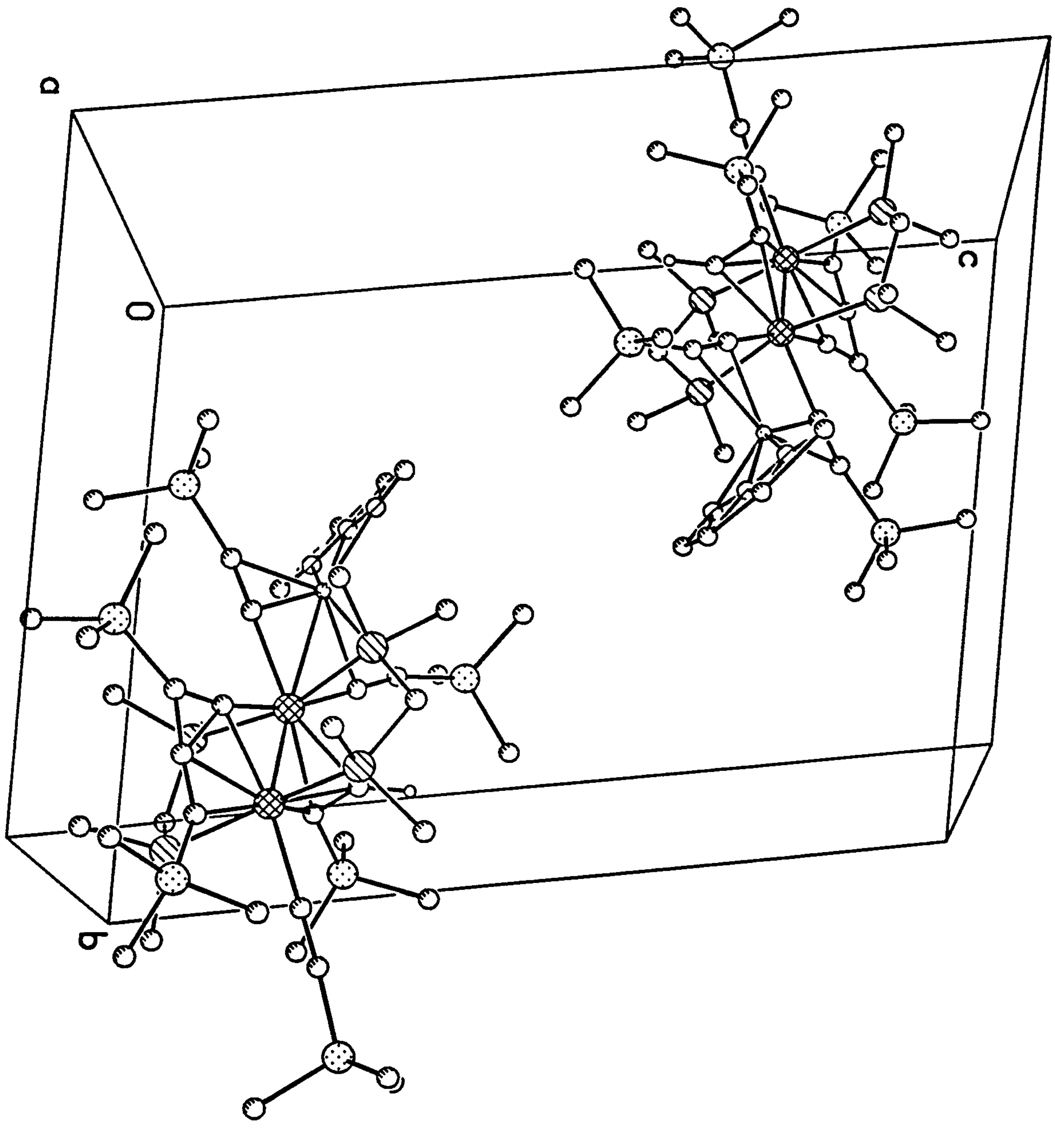
C(9)–P(4)–C(10)	101.9(3)	C(33)–C(31)–Mo(2)	146.8(3)
C(9)–P(4)–C(8)	102.4(3)	C(32)–C(31)–Mo(1)	115.5(3)
C(10)–P(4)–C(8)	99.5(3)	C(33)–C(31)–Mo(1)	71.0(2)
C(9)–P(4)–Mo(2)	116.3(2)	Mo(2)–C(31)–Mo(1)	75.8(2)
C(10)–P(4)–Mo(2)	119.9(2)	C(31)–C(32)–C(33)	92.3(4)
C(8)–P(4)–Mo(2)	114.1(2)	C(31)–C(32)–Si(5)	141.8(4)
C(12)–Si(1)–C(13)	111.2(3)	C(33)–C(32)–Si(5)	125.8(4)
C(12)–Si(1)–C(14)	110.6(4)	C(34)–C(33)–C(32)	171.7(5)
C(13)–Si(1)–C(14)	107.4(4)	C(34)–C(33)–C(31)	128.5(4)
C(12)–Si(1)–C(15)	109.2(3)	C(32)–C(33)–C(31)	43.2(3)
C(13)–Si(1)–C(15)	108.3(4)	C(34)–C(33)–Mo(1)	70.9(3)
C(14)–Si(1)–C(15)	110.1(5)	C(32)–C(33)–Mo(1)	100.8(3)
C(17)–Si(2)–C(18)	111.8(4)	C(31)–C(33)–Mo(1)	57.6(2)
C(17)–Si(2)–C(19)	108.1(3)	C(33)–C(34)–Si(6)	142.5(4)
C(18)–Si(2)–C(19)	107.7(5)	C(33)–C(34)–Mo(1)	78.6(3)
C(17)–Si(2)–C(20)	112.2(3)	Si(6)–C(34)–Mo(1)	138.8(3)
C(18)–Si(2)–C(20)	109.0(5)	O(2)–C(41)–C(42)	39.5(7)
C(19)–Si(2)–C(20)	107.9(4)	O(2)–C(42)–O(1)	63.0(9)
C(23)–Si(3)–C(25)	111.1(5)	O(2)–C(42)–C(41)	41.5(8)
C(23)–Si(3)–C(22)	111.1(4)	O(1)–C(42)–C(41)	104.2(9)
C(25)–Si(3)–C(22)	110.5(3)	O(2)–C(42)–C(43)	105.8(10)
C(23)–Si(3)–C(24)	107.1(6)	O(1)–C(42)–C(43)	42.8(7)
C(25)–Si(3)–C(24)	104.8(6)	C(41)–C(42)–C(43)	146.9(7)
C(22)–Si(3)–C(24)	112.0(4)	O(3)–C(43)–O(1)	66.4(10)
C(27)–Si(4)–C(28)	118.0(2)	O(3)–C(43)–C(42)	109.2(11)
C(27)–Si(4)–C(30)	112.6(3)	O(1)–C(43)–C(42)	42.8(7)
C(28)–Si(4)–C(30)	104.5(3)	O(3)–C(43)–C(44)	37.1(9)
C(27)–Si(4)–C(29)	107.9(3)	O(1)–C(43)–C(44)	103.4(9)
C(28)–Si(4)–C(29)	103.8(3)	C(42)–C(43)–C(44)	146.1(7)
O(3)–C(44)–C(43)	34.7(6)	C(27)–C(26)–H(26)	128.7(21)
Mo(1)–C(26)–H(26)	142.4(22)	Mo(2)–C(26)–H(26)	134.8(21)



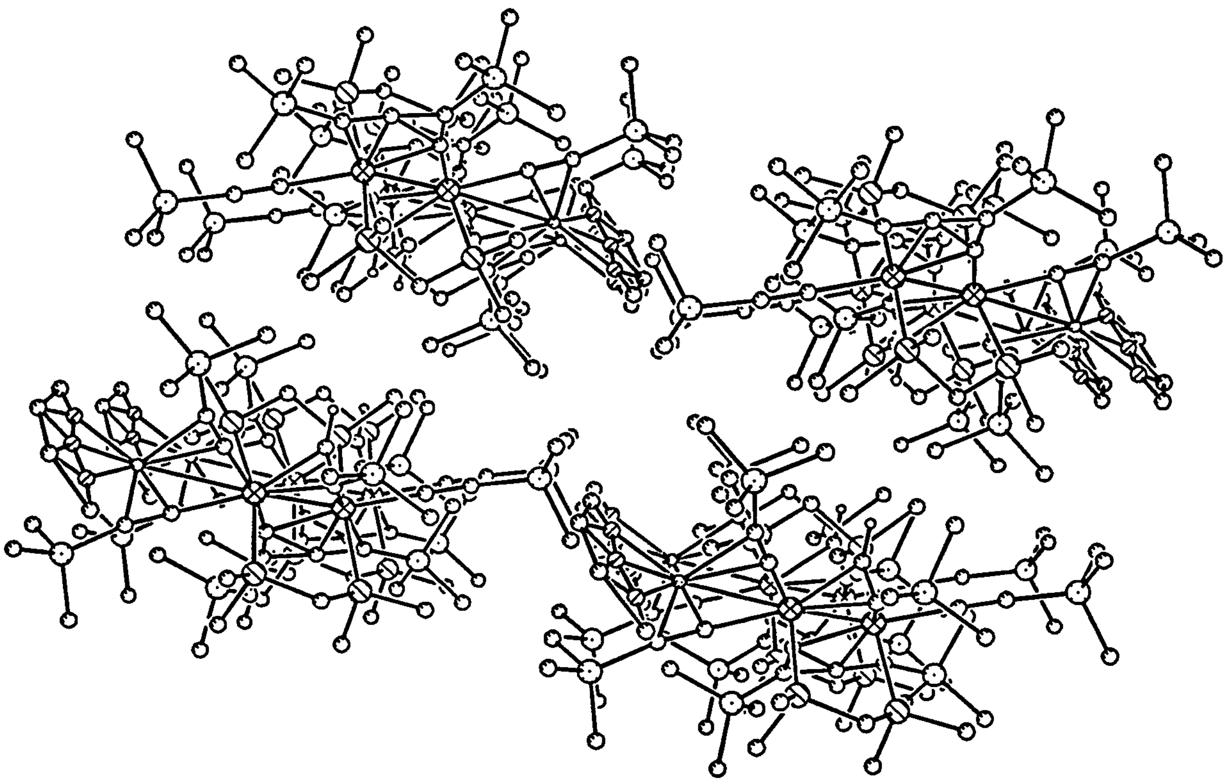
Atomic Labeling Scheme - Part 1



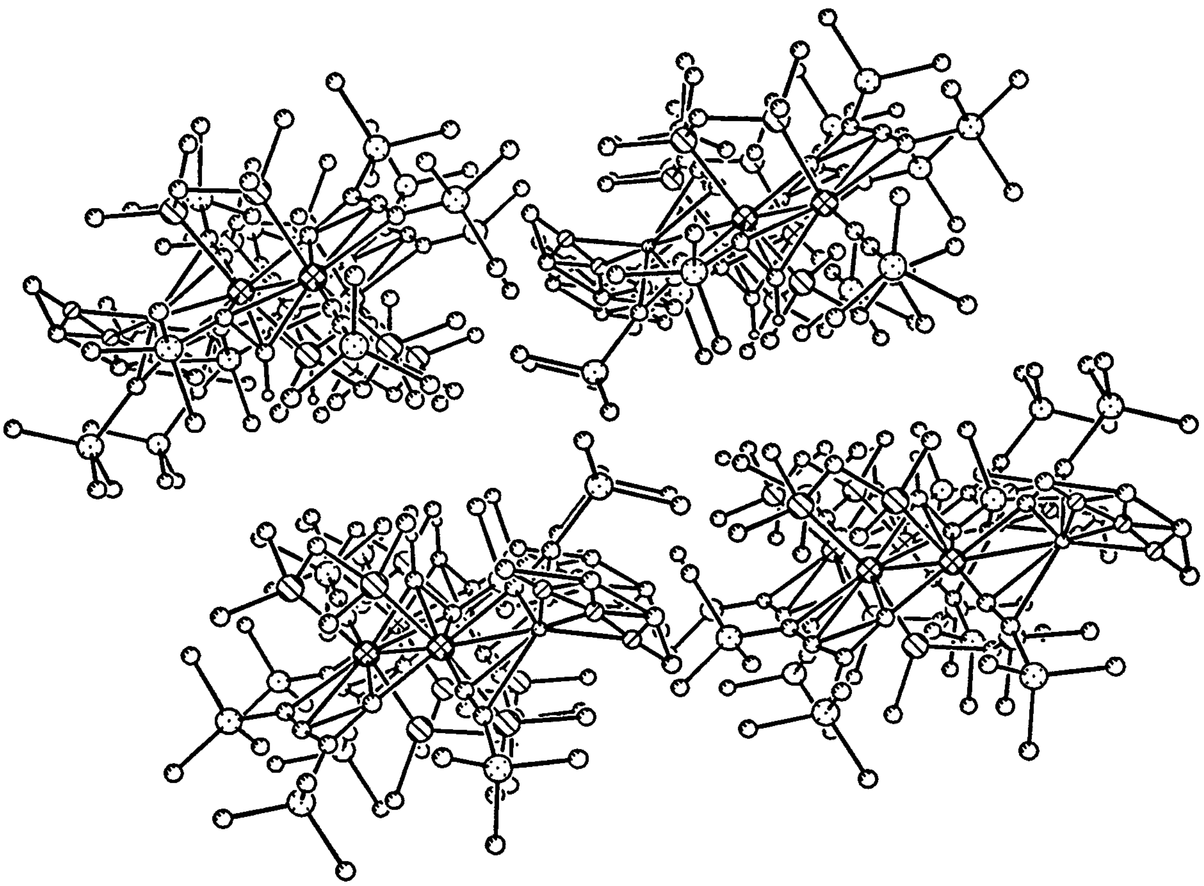
Atomic Labeling Scheme - Part 2



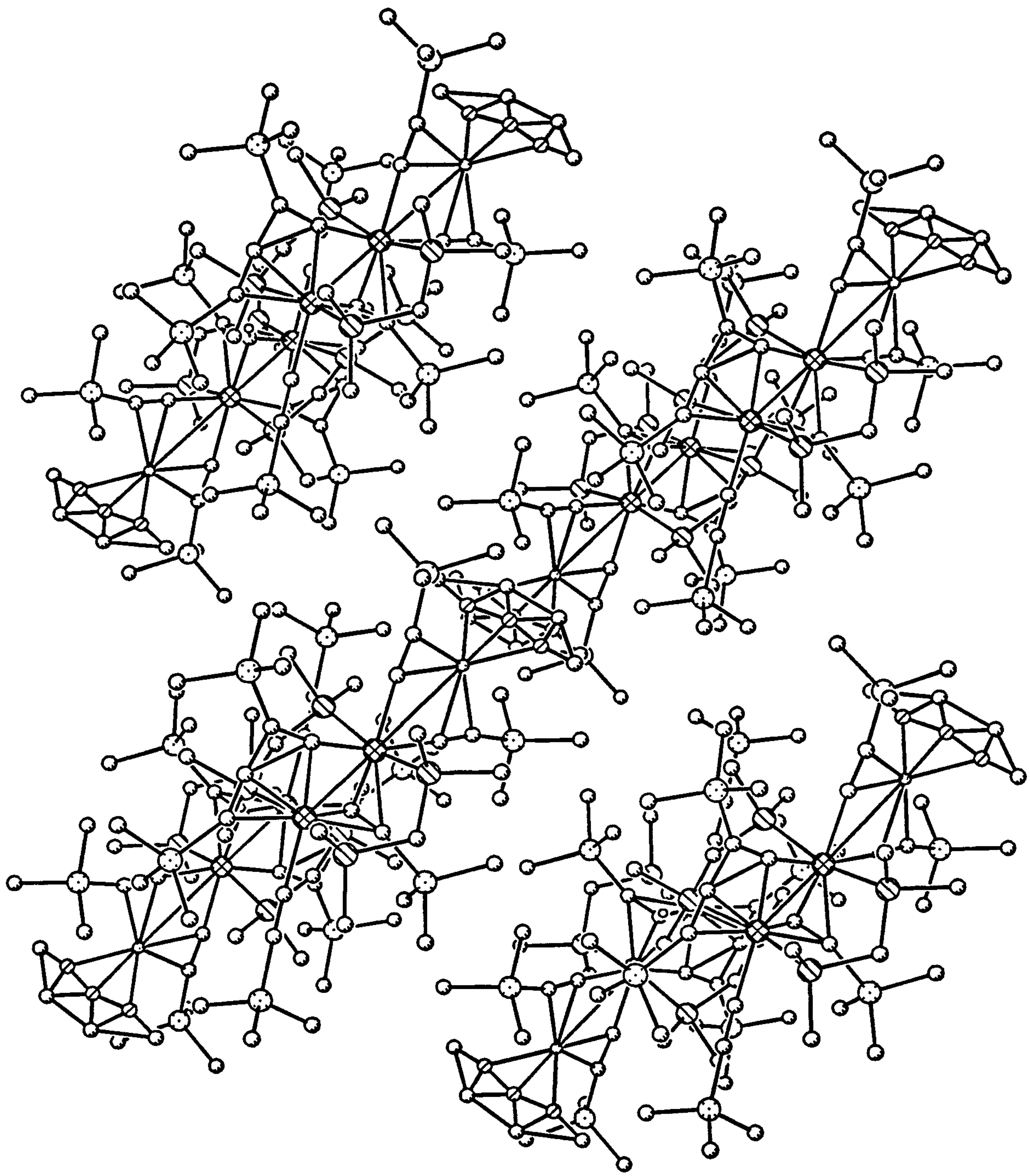
Unit Cell Diagram



Crystal Packing Diagram
"a" Axis



Crystal Packing Diagram
"b" Axis



Crystal Packing Diagram
"c" Axis