

Supporting Information for the Communication

Entitled

**Tetrasilacyclobutadiene (*t*Bu<sub>2</sub>MeSi)<sub>4</sub>Si<sub>4</sub>: A New Ligand for Transition Metal Complexes**

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## I. Experimental Details

### 1. Experimental Procedure and Spectral Data of the Potassium Salt of [Tetrakis(*di-tert-butylmethylsilyl*)tetrasilacyclobutadiene]dicarbonylcobalt (2<sup>+</sup>•[K(THF)<sub>3</sub>]<sup>+</sup>)<sub>2</sub>.

CpCo(CO)<sub>2</sub> (50 mg, 0.278 mmol) was added to a solution of tetrasilacyclobutadiene dianion dipotassium salt **1** [1] (100 mg, 0.090 mmol) in THF (2.0 ml) at room temperature in a glove-box, which caused the immediate color change of the reaction mixture from dark-green to dark-brown. After 1 h stirring at room temperature, THF and excess of CpCo(CO)<sub>2</sub> were evaporated under vacuum. Then the reaction mixture was washed with dry hexane, and the residue was recrystallized from hexane-THF mixed solvent (4:1) to give (2<sup>+</sup>•[K(THF)<sub>3</sub>]<sup>+</sup>)<sub>2</sub> as orange crystals (48 mg, 48%);

mp > 300 °C;  $^1\text{H}$  NMR (THF- $d_8$ ,  $\delta$ ) 0.15 (s, 12 H), 1.15 (s, 72 H);  $^{13}\text{C}$  NMR (THF- $d_8$ ,  $\delta$ ) -3.1, 22.1, 31.1, 223.9 (C=O);  $^{29}\text{Si}$  NMR (THF- $d_8$ ,  $\delta$ ) -42.0 (skeletal Si), 17.0 (substituent Si); UV-Vis (THF)  $\lambda_{\text{max}}/\text{nm}$  ( $\epsilon$ ) 270 (17000), 337 (8600), 421 (3200); IR (KBr) 1839, 1875  $\text{cm}^{-1}$  (C=O).

## **2. Complexation of $(2^\bullet\text{-}[K(\text{THF})_3]^+)_2$ with Diglyme: Experimental Procedure, Spectral and Crystallographic Data of $2^\bullet\text{-}[K(\text{diglyme})_2(\text{THF})]^+$ .**

Dry oxygen-free diglyme (1 ml) was vacuum-transferred to the  $(2^\bullet\text{-}[K(\text{THF})_3]^+)_2$  (60 mg, 0.027 mmol), and the mixture was stirred at room temperature for 30 min. The residue was recrystallized from hexane-THF mixed solvent (4:1) to give  $2^\bullet\text{-}[K(\text{diglyme})_2(\text{THF})]^+$  quantitatively as orange crystals; mp 252 °C (dec);  $^1\text{H}$  NMR (THF- $d_8$ ,  $\delta$ ) 0.16 (s, 12 H), 1.16 (s, 72 H);  $^{13}\text{C}$  NMR (THF- $d_8$ ,  $\delta$ ) -3.2, 22.0, 31.0, 224.0 (C=O);  $^{29}\text{Si}$  NMR (THF- $d_8$ ,  $\delta$ ) -43.2 (skeletal Si), 17.0 (substituent Si); UV-Vis (THF)  $\lambda_{\text{max}}/\text{nm}$  ( $\epsilon$ ) 273 (8300), 336 (4600), 429 (1600); IR (KBr) 1870  $\text{cm}^{-1}$  (C=O).

The single crystals of  $2^\bullet\text{-}[K(\text{diglyme})_2(\text{THF})]^+$  for X-ray diffraction analysis were grown from a hexane-THF (4:1) solution. Diffraction data were collected at 120 K on a Mac Science DIP2030 Image Plate Diffractometer with a rotating anode (50 kV, 90 mA) employing graphite-monochromatized Mo- $K\alpha$  radiation ( $\lambda = 0.71070 \text{ \AA}$ ). The structures were solved by the direct method, using SIR-92 [2] program, and refined by the full-matrix least-squares method by SHELXL-97 program [3]. Crystal data for  $2^\bullet\text{-}[K(\text{diglyme})_2(\text{THF})]^+$  at 120 K: MF =  $\text{C}_{54}\text{H}_{120}\text{CoKO}_9\text{Si}_8$ , MW = 1236.25, triclinic,  $P-1$ ,  $a = 14.2630(18)$ ,  $b = 15.8900(16)$ ,  $c = 16.2050(15) \text{ \AA}$ ,  $\alpha = 93.177(5)$ ,  $\beta = 94.693$

(6),  $\gamma = 95.974(6)^\circ$ ,  $V = 3632.9(7)$  Å<sup>3</sup>,  $Z = 2$ ,  $D_{\text{calcd}} = 1.130$  g/cm<sup>3</sup>. The final  $R$  factor was 0.0460 ( $R_w = 0.1248$  for all data) for 11802 reflections with  $I > 2\sigma(I)$ . GOF = 1.004.

### 3. Complexation of (2<sup>-</sup>•[K(THF)<sub>3</sub>]<sup>+</sup>)<sub>2</sub> with [2.2.2]Cryptand: Experimental Procedure, Spectral and Crystallographic Data of 2<sup>-</sup>•[K([2.2.2]cryptand)]<sup>+</sup>(THF)<sub>2</sub>.

Dry oxygen-free THF (1 ml) was vacuum-transferred to the mixture of (2<sup>-</sup>•[K(THF)<sub>3</sub>]<sup>+</sup>)<sub>2</sub> (60 mg, 0.027 mmol) and an equivalent amount of [2.2.2]cryptand (21 mg, 0.056 mmol), the mixture was stirred at room temperature for 30 min. The residue was recrystallized from hexane-THF mixed solvent (4:1) to give 2<sup>-</sup>•[K([2.2.2]cryptand)]<sup>+</sup>(THF)<sub>2</sub> quantitatively as orange crystals; mp 250 °C (dec.); <sup>1</sup>H NMR (THF-*d*<sub>8</sub>,  $\delta$ ) 0.15 (s, 12 H), 1.15 (s, 72 H); <sup>13</sup>C NMR (THF-*d*<sub>8</sub>,  $\delta$ ) -3.1, 22.0, 31.0, 223.8 (C=O); <sup>29</sup>Si NMR (THF-*d*<sub>8</sub>,  $\delta$ ) -42.8 (skeletal Si), 16.8 (substituent Si); UV-Vis (THF)  $\lambda_{\text{max}}/\text{nm}$  ( $\epsilon$ ) 274 (4700), 338 (2800), 428 (1000); IR (KBr) 1837, 1883 cm<sup>-1</sup> (C=O).

The single crystals of 2<sup>-</sup>•[K([2.2.2]cryptand)]<sup>+</sup>(THF)<sub>2</sub> for X-ray diffraction analysis were grown from a hexane-THF (4:1) solution. Diffraction data were collected at 120 K on a Mac Science DIP2030 Image Plate Diffractometer with a rotating anode (50 kV, 90 mA) employing graphite-monochromatized Mo-*K*α radiation ( $\lambda = 0.71070$  Å). The structures were solved by the direct method, using SIR-92 [2] program, and refined by the full-matrix least-squares method by SHELXL-97 program [3]. Crystal data for 2<sup>-</sup>•[K([2.2.2]cryptand)(THF)<sub>2</sub>]<sup>+</sup> at 120 K: MF = C<sub>64</sub>H<sub>136</sub>CoKN<sub>2</sub>O<sub>10</sub>Si<sub>8</sub>, MW = 1416.50, triclinic, *P*-1,  $a = 12.9740(7)$ ,  $b = 16.1730(9)$ ,  $c = 20.1670(7)$  Å,  $\alpha = 91.686(3)$ ,  $\beta = 103.374(3)$ ,  $\gamma = 100.456(2)^\circ$ ,  $V = 4037.2(3)$  Å<sup>3</sup>,  $Z = 2$ ,  $D_{\text{calcd}} = 1.165$  g/cm<sup>3</sup>. The final  $R$  factor was 0.0656 ( $R_w = 0.1999$  for all data) for 12597 reflections with

$I > 2\sigma(I)$ . GOF = 1.098.

- [1] Lee, V. Ya.; Takanashi, K.; Matsuno, T.; Ichinohe, M.; Sekiguchi, A. *J. Am. Chem. Soc.* **2004**, *126*, 4758.
- [2] Altomare, A.; Cascarano, G.; Giacovazzo, C.; Guagliardi, A.; Burla, M. C.; Polidori, G.; Camalli, M. *J. Appl. Crystallogr.* **1994**, *27*, 435.
- [3] Sheldrick, G. M. *SHELXL-97, Program for Crystal Structure Refinement*, University of Göttingen, Germany, 1997.

Table 1. Crystal data and structure refinement for compound.

S5

Identification code	$(^t\text{Bu}_2\text{MeSi})_4\text{Si}_4\text{Co}(\text{CO})_2$ [K(CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub> OCH <sub>3</sub> ) <sub>2</sub> (THF)]	
Empirical formula	C <sub>54</sub> H <sub>120</sub> CoKO <sub>9</sub> Si <sub>8</sub>	
Formula weight	1236.25	
Temperature	120.0(1) K	
Wavelength	0.71070 Å	
Crystal system, space group	Triclinic, P -1	
Unit cell dimensions	a = 14.2630(18) Å b = 15.8900(16) Å c = 16.2050(15) Å	alpha = 93.177(5) deg. beta = 94.693(6) deg. gamma = 95.974(6) deg.
Volume	3632.9(7) Å <sup>3</sup>	
Z, Calculated density	2, 1.130 Mg/m <sup>3</sup>	
Absorption coefficient	0.470 mm <sup>-1</sup>	
F(000)	1348	
Crystal size	0.4 x 0.3 x 0.1 mm	
Theta range for data collection	2.20 to 28.01 deg.	
Limiting indices	0<=h<=18, -20<=k<=20, -21<=l<=21	
Reflections collected / unique	36565 / 16127 [R(int) = 0.0420]	
Completeness to theta = 28.01	91.9 %	
Absorption correction	None	
Refinement method	Full-matrix least-squares on F <sup>2</sup>	
Data / restraints / parameters	16127 / 0 / 659	
Goodness-of-fit on F <sup>2</sup>	1.004	
Final R indices [I>2sigma(I)]	R1 = 0.0460, wR2 = 0.1145	
R indices (all data)	R1 = 0.0701, wR2 = 0.1248	
Extinction coefficient	0.0095(6)	

Table 2. Atomic coordinates ( $\times 10^4$ ) and equivalent isotropic S6 displacement parameters ( $\text{\AA}^2 \times 10^3$ ) for compound.  
 U(eq) is defined as one third of the trace of the orthogonalized Uij tensor.

	x	y	z	U(eq)
Co(1)	1312(1)	2136(1)	2173(1)	20(1)
K(1)	-2102(1)	2958(1)	2753(1)	25(1)
Si(1)	2516(1)	2407(1)	3302(1)	22(1)
Si(2)	2637(1)	1311(1)	2383(1)	21(1)
Si(3)	2591(1)	2183(1)	1291(1)	21(1)
Si(4)	2551(1)	3293(1)	2216(1)	21(1)
Si(5)	2573(1)	2643(1)	4764(1)	31(1)
Si(6)	2510(1)	-193(1)	2288(1)	22(1)
Si(7)	2738(1)	1973(1)	-152(1)	24(1)
Si(8)	2281(1)	4745(1)	2269(1)	22(1)
O(1)	49(1)	732(1)	1343(1)	38(1)
O(2)	-122(1)	3166(1)	2698(1)	32(1)
O(3)	-1959(1)	2168(1)	1189(1)	36(1)
O(4)	-3737(1)	2276(1)	1747(1)	31(1)
O(5)	-3849(1)	3251(1)	3251(1)	38(1)
O(6)	-1770(1)	3268(1)	4443(1)	35(1)
O(7)	-1620(1)	4680(1)	3492(1)	34(1)
O(8)	-2370(2)	4350(1)	1860(1)	42(1)
O(9)	-2138(1)	1359(1)	3349(1)	41(1)
C(1)	2740(4)	3824(2)	5038(2)	73(1)
C(2)	3689(2)	2211(2)	5264(2)	38(1)
C(3)	3667(2)	1261(2)	5085(2)	53(1)
C(4)	3822(3)	2409(2)	6208(2)	55(1)
C(5)	4548(3)	2640(3)	4898(2)	90(2)
C(6)	1392(2)	2230(2)	5171(2)	41(1)
C(7)	1130(3)	1292(3)	4943(3)	85(2)
C(8)	626(3)	2716(4)	4766(3)	113(2)
C(9)	1389(3)	2381(3)	6110(2)	69(1)
C(10)	1944(2)	-543(2)	1220(2)	33(1)
C(11)	3790(2)	-491(2)	2354(2)	30(1)
C(12)	4390(2)	-48(2)	3115(2)	38(1)
C(13)	4242(2)	-198(2)	1573(2)	40(1)
C(14)	3833(2)	-1452(2)	2377(2)	44(1)
C(15)	1720(2)	-753(1)	3054(2)	26(1)
C(16)	1472(2)	-1699(2)	2791(2)	36(1)
C(17)	785(2)	-350(2)	3028(2)	35(1)
C(18)	2177(2)	-665(2)	3946(2)	38(1)
C(19)	3024(2)	859(2)	-401(2)	43(1)
C(20)	3818(2)	2705(2)	-431(2)	30(1)
C(21)	3662(2)	3639(2)	-320(2)	52(1)
C(22)	4680(2)	2564(3)	149(2)	64(1)
C(23)	4054(3)	2523(2)	-1327(2)	54(1)
C(24)	1563(2)	2096(2)	-779(2)	31(1)

C(25)	1651(2)	2154(2)	-1706(2)	48(1)
C(26)	873(2)	1313(2)	-653(2)	57(1) S7
C(27)	1129(2)	2874(2)	-451(2)	51(1)
C(28)	1606(2)	4918(2)	3204(2)	32(1)
C(29)	3506(2)	5387(2)	2489(2)	31(1)
C(30)	3905(2)	5195(2)	3362(2)	41(1)
C(31)	3463(2)	6354(2)	2490(2)	44(1)
C(32)	4197(2)	5136(2)	1863(2)	41(1)
C(33)	1510(2)	5109(2)	1349(2)	28(1)
C(34)	1139(2)	5965(2)	1574(2)	43(1)
C(35)	2046(2)	5201(2)	569(2)	39(1)
C(36)	645(2)	4446(2)	1143(2)	36(1)
C(37)	578(2)	1281(2)	1678(2)	28(1)
C(38)	483(2)	2768(2)	2487(1)	25(1)
C(39)	-1243(2)	2412(2)	648(2)	48(1)
C(40)	-2787(2)	1758(2)	740(2)	36(1)
C(41)	-3510(2)	1521(2)	1333(2)	37(1)
C(42)	-4489(2)	2130(2)	2274(2)	36(1)
C(43)	-4651(2)	2964(2)	2687(2)	36(1)
C(44)	-3928(2)	4063(2)	3633(2)	45(1)
C(45)	-2278(3)	2788(2)	5010(2)	52(1)
C(46)	-1410(2)	4083(2)	4790(2)	36(1)
C(47)	-930(2)	4566(2)	4148(2)	37(1)
C(48)	-1235(2)	5119(2)	2834(2)	41(1)
C(49)	-2019(2)	5178(2)	2176(2)	43(1)
C(50)	-3193(2)	4334(2)	1294(2)	47(1)
C(51)	-1314(2)	983(2)	3128(3)	58(1)
C(52)	-1679(2)	150(2)	2661(3)	59(1)
C(53)	-2645(2)	-73(2)	2974(2)	40(1)
C(54)	-2768(2)	671(2)	3571(2)	38(1)

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Table 3. Bond lengths [Å] and angles [deg] for compound.

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Co(1)-C(38)	1.718(2)
Co(1)-C(37)	1.741(3)
Co(1)-Si(1)	2.3935(7)
Co(1)-Si(3)	2.4054(7)
Co(1)-Si(4)	2.4082(7)
Co(1)-Si(2)	2.4225(7)
K(1)-O(6)	2.7490(18)
K(1)-O(8)	2.7517(19)
K(1)-O(5)	2.7583(19)
K(1)-O(9)	2.7640(19)
K(1)-O(3)	2.7966(19)
K(1)-O(4)	2.8150(18)
K(1)-O(2)	2.8168(18)
K(1)-O(7)	2.9165(19)
K(1)-C(41)	3.499(3)
K(1)-C(47)	3.506(3)
K(1)-C(51)	3.509(4)
K(1)-C(48)	3.518(3)
Si(1)-Si(2)	2.2570(9)
Si(1)-Si(4)	2.3154(8)
Si(1)-Si(5)	2.3721(9)
Si(2)-Si(3)	2.3081(8)
Si(2)-Si(6)	2.3735(9)
Si(3)-Si(4)	2.2588(9)
Si(3)-Si(7)	2.3740(9)
Si(4)-Si(8)	2.3752(9)
Si(5)-C(1)	1.889(3)
Si(5)-C(6)	1.925(3)
Si(5)-C(2)	1.934(3)
Si(6)-C(10)	1.879(3)
Si(6)-C(11)	1.930(3)
Si(6)-C(15)	1.933(2)
Si(7)-C(19)	1.887(3)
Si(7)-C(24)	1.921(3)
Si(7)-C(20)	1.931(3)
Si(8)-C(28)	1.883(3)
Si(8)-C(29)	1.926(3)
Si(8)-C(33)	1.931(2)
O(1)-C(37)	1.170(3)
O(2)-C(38)	1.184(3)
O(3)-C(40)	1.413(3)
O(3)-C(39)	1.436(3)
O(4)-C(41)	1.421(3)
O(4)-C(42)	1.433(3)
O(5)-C(44)	1.419(3)
O(5)-C(43)	1.424(3)
O(6)-C(46)	1.411(3)
O(6)-C(45)	1.422(3)
O(7)-C(47)	1.421(3)
O(7)-C(48)	1.423(3)

O(8)-C(49)	1.411(3)
O(8)-C(50)	1.427(4)
O(9)-C(54)	1.423(3)
O(9)-C(51)	1.436(4)
C(1)-H(1A)	0.9600
C(1)-H(1B)	0.9600
C(1)-H(1C)	0.9600
C(2)-C(3)	1.519(4)
C(2)-C(5)	1.520(4)
C(2)-C(4)	1.537(4)
C(3)-H(3A)	0.9600
C(3)-H(3B)	0.9600
C(3)-H(3C)	0.9600
C(4)-H(4A)	0.9600
C(4)-H(4B)	0.9600
C(4)-H(4C)	0.9600
C(5)-H(5A)	0.9600
C(5)-H(5B)	0.9600
C(5)-H(5C)	0.9600
C(6)-C(7)	1.517(5)
C(6)-C(8)	1.527(5)
C(6)-C(9)	1.526(4)
C(7)-H(7A)	0.9600
C(7)-H(7B)	0.9600
C(7)-H(7C)	0.9600
C(8)-H(8A)	0.9600
C(8)-H(8B)	0.9600
C(8)-H(8C)	0.9600
C(9)-H(9A)	0.9600
C(9)-H(9B)	0.9600
C(9)-H(9C)	0.9600
C(10)-H(10A)	0.9600
C(10)-H(10B)	0.9600
C(10)-H(10C)	0.9600
C(11)-C(12)	1.534(4)
C(11)-C(14)	1.536(3)
C(11)-C(13)	1.540(4)
C(12)-H(12A)	0.9600
C(12)-H(12B)	0.9600
C(12)-H(12C)	0.9600
C(13)-H(13A)	0.9600
C(13)-H(13B)	0.9600
C(13)-H(13C)	0.9600
C(14)-H(14A)	0.9600
C(14)-H(14B)	0.9600
C(14)-H(14C)	0.9600
C(15)-C(18)	1.529(3)
C(15)-C(16)	1.536(3)
C(15)-C(17)	1.537(3)
C(16)-H(16A)	0.9600
C(16)-H(16B)	0.9600
C(16)-H(16C)	0.9600
C(17)-H(17A)	0.9600
C(17)-H(17B)	0.9600

C(17)-H(17C)	0.9600
C(18)-H(18A)	0.9600
C(18)-H(18B)	0.9600
C(18)-H(18C)	0.9600
C(19)-H(19A)	0.9600
C(19)-H(19B)	0.9600
C(19)-H(19C)	0.9600
C(20)-C(21)	1.527(4)
C(20)-C(22)	1.529(4)
C(20)-C(23)	1.536(4)
C(21)-H(21A)	0.9600
C(21)-H(21B)	0.9600
C(21)-H(21C)	0.9600
C(22)-H(22A)	0.9600
C(22)-H(22B)	0.9600
C(22)-H(22C)	0.9600
C(23)-H(23A)	0.9600
C(23)-H(23B)	0.9600
C(23)-H(23C)	0.9600
C(24)-C(25)	1.524(3)
C(24)-C(27)	1.529(4)
C(24)-C(26)	1.537(4)
C(25)-H(25A)	0.9600
C(25)-H(25B)	0.9600
C(25)-H(25C)	0.9600
C(26)-H(26A)	0.9600
C(26)-H(26B)	0.9600
C(26)-H(26C)	0.9600
C(27)-H(27A)	0.9600
C(27)-H(27B)	0.9600
C(27)-H(27C)	0.9600
C(28)-H(28A)	0.9600
C(28)-H(28B)	0.9600
C(28)-H(28C)	0.9600
C(29)-C(32)	1.536(4)
C(29)-C(30)	1.540(4)
C(29)-C(31)	1.544(3)
C(30)-H(30A)	0.9600
C(30)-H(30B)	0.9600
C(30)-H(30C)	0.9600
C(31)-H(31A)	0.9600
C(31)-H(31B)	0.9600
C(31)-H(31C)	0.9600
C(32)-H(32A)	0.9600
C(32)-H(32B)	0.9600
C(32)-H(32C)	0.9600
C(33)-C(36)	1.538(4)
C(33)-C(35)	1.538(3)
C(33)-C(34)	1.545(3)
C(34)-H(34A)	0.9600
C(34)-H(34B)	0.9600
C(34)-H(34C)	0.9600
C(35)-H(35A)	0.9600
C(35)-H(35B)	0.9600

C(35)-H(35C)	0.9600
C(36)-H(36A)	0.9600
C(36)-H(36B)	0.9600
C(36)-H(36C)	0.9600
C(39)-H(39A)	0.9600
C(39)-H(39B)	0.9600
C(39)-H(39C)	0.9600
C(40)-C(41)	1.500(4)
C(40)-H(40A)	0.9700
C(40)-H(40B)	0.9700
C(41)-H(41A)	0.9700
C(41)-H(41B)	0.9700
C(42)-C(43)	1.499(4)
C(42)-H(42A)	0.9700
C(42)-H(42B)	0.9700
C(43)-H(43A)	0.9700
C(43)-H(43B)	0.9700
C(44)-H(44A)	0.9600
C(44)-H(44B)	0.9600
C(44)-H(44C)	0.9600
C(45)-H(45A)	0.9600
C(45)-H(45B)	0.9600
C(45)-H(45C)	0.9600
C(46)-C(47)	1.496(4)
C(46)-H(46A)	0.9700
C(46)-H(46B)	0.9700
C(47)-H(47A)	0.9700
C(47)-H(47B)	0.9700
C(48)-C(49)	1.494(4)
C(48)-H(48A)	0.9700
C(48)-H(48B)	0.9700
C(49)-H(49A)	0.9700
C(49)-H(49B)	0.9700
C(50)-H(50A)	0.9600
C(50)-H(50B)	0.9600
C(50)-H(50C)	0.9600
C(51)-C(52)	1.508(5)
C(51)-H(51A)	0.9700
C(51)-H(51B)	0.9700
C(52)-C(53)	1.521(4)
C(52)-H(52A)	0.9700
C(52)-H(52B)	0.9700
C(53)-C(54)	1.519(4)
C(53)-H(53A)	0.9700
C(53)-H(53B)	0.9700
C(54)-H(54A)	0.9700
C(54)-H(54B)	0.9700
C(38)-Co(1)-C(37)	100.46(11)
C(38)-Co(1)-Si(1)	101.28(8)
C(37)-Co(1)-Si(1)	138.77(8)
C(38)-Co(1)-Si(3)	139.18(8)
C(37)-Co(1)-Si(3)	99.70(8)
Si(1)-Co(1)-Si(3)	85.90(3)

C(38)-Co(1)-Si(4)	94.03(8)	
C(37)-Co(1)-Si(4)	153.28(8)	S12
Si(1)-Co(1)-Si(4)	57.66(2)	
Si(3)-Co(1)-Si(4)	55.97(2)	
C(38)-Co(1)-Si(2)	154.71(8)	
C(37)-Co(1)-Si(2)	93.06(8)	
Si(1)-Co(1)-Si(2)	55.89(2)	
Si(3)-Co(1)-Si(2)	57.12(2)	
Si(4)-Co(1)-Si(2)	82.67(2)	
O(6)-K(1)-O(8)	115.81(6)	
O(6)-K(1)-O(5)	76.25(6)	
O(8)-K(1)-O(5)	81.81(6)	
O(6)-K(1)-O(9)	76.05(6)	
O(8)-K(1)-O(9)	166.10(6)	
O(5)-K(1)-O(9)	94.84(6)	
O(6)-K(1)-O(3)	157.42(6)	
O(8)-K(1)-O(3)	83.51(6)	
O(5)-K(1)-O(3)	120.22(6)	
O(9)-K(1)-O(3)	86.62(6)	
O(6)-K(1)-O(4)	131.53(6)	
O(8)-K(1)-O(4)	81.59(6)	
O(5)-K(1)-O(4)	61.25(6)	
O(9)-K(1)-O(4)	84.97(6)	
O(3)-K(1)-O(4)	59.39(5)	
O(6)-K(1)-O(2)	86.90(6)	
O(8)-K(1)-O(2)	93.63(6)	
O(5)-K(1)-O(2)	158.29(6)	
O(9)-K(1)-O(2)	94.26(6)	
O(3)-K(1)-O(2)	79.97(6)	
O(4)-K(1)-O(2)	139.35(6)	
O(6)-K(1)-O(7)	58.92(5)	
O(8)-K(1)-O(7)	58.45(6)	
O(5)-K(1)-O(7)	81.01(6)	
O(9)-K(1)-O(7)	134.57(6)	
O(3)-K(1)-O(7)	134.41(6)	
O(4)-K(1)-O(7)	128.74(5)	
O(2)-K(1)-O(7)	78.56(5)	
O(6)-K(1)-C(41)	138.56(6)	
O(8)-K(1)-C(41)	94.73(6)	
O(5)-K(1)-C(41)	81.58(6)	
O(9)-K(1)-C(41)	71.41(6)	
O(3)-K(1)-C(41)	42.54(6)	
O(4)-K(1)-C(41)	22.90(6)	
O(2)-K(1)-C(41)	120.04(6)	
O(7)-K(1)-C(41)	149.80(6)	
O(6)-K(1)-C(47)	42.37(6)	
O(8)-K(1)-C(47)	80.12(6)	
O(5)-K(1)-C(47)	92.30(6)	
O(9)-K(1)-C(47)	113.58(7)	
O(3)-K(1)-C(47)	140.87(6)	
O(4)-K(1)-C(47)	149.72(6)	
O(2)-K(1)-C(47)	65.99(6)	
O(7)-K(1)-C(47)	23.34(6)	
C(41)-K(1)-C(47)	172.55(7)	

O(6)-K(1)-C(51)	84.47(8)
O(8)-K(1)-C(51)	155.83(8)
O(5)-K(1)-C(51)	117.50(7)
O(9)-K(1)-C(51)	22.73(7)
O(3)-K(1)-C(51)	74.26(8)
O(4)-K(1)-C(51)	94.80(7)
O(2)-K(1)-C(51)	73.52(6)
O(7)-K(1)-C(51)	134.80(7)
C(41)-K(1)-C(51)	75.34(8)
C(47)-K(1)-C(51)	111.47(8)
O(6)-K(1)-C(48)	80.47(6)
O(8)-K(1)-C(48)	42.01(7)
O(5)-K(1)-C(48)	94.44(6)
O(9)-K(1)-C(48)	151.86(7)
O(3)-K(1)-C(48)	111.19(7)
O(4)-K(1)-C(48)	122.62(6)
O(2)-K(1)-C(48)	68.98(6)
O(7)-K(1)-C(48)	23.22(6)
C(41)-K(1)-C(48)	136.34(7)
C(47)-K(1)-C(48)	39.49(7)
C(51)-K(1)-C(48)	140.10(8)
Si(2)-Si(1)-Si(4)	88.49(3)
Si(2)-Si(1)-Si(5)	137.13(3)
Si(4)-Si(1)-Si(5)	133.76(4)
Si(2)-Si(1)-Co(1)	62.71(2)
Si(4)-Si(1)-Co(1)	61.49(2)
Si(5)-Si(1)-Co(1)	136.61(4)
Si(1)-Si(2)-Si(3)	91.49(3)
Si(1)-Si(2)-Si(6)	140.55(3)
Si(3)-Si(2)-Si(6)	126.61(3)
Si(1)-Si(2)-Co(1)	61.40(2)
Si(3)-Si(2)-Co(1)	61.07(2)
Si(6)-Si(2)-Co(1)	124.38(3)
Si(4)-Si(3)-Si(2)	88.63(3)
Si(4)-Si(3)-Si(7)	137.05(3)
Si(2)-Si(3)-Si(7)	133.86(3)
Si(4)-Si(3)-Co(1)	62.08(2)
Si(2)-Si(3)-Co(1)	61.81(2)
Si(7)-Si(3)-Co(1)	136.18(3)
Si(3)-Si(4)-Si(1)	91.25(3)
Si(3)-Si(4)-Si(8)	140.72(3)
Si(1)-Si(4)-Si(8)	126.65(3)
Si(3)-Si(4)-Co(1)	61.95(2)
Si(1)-Si(4)-Co(1)	60.85(2)
Si(8)-Si(4)-Co(1)	123.84(3)
C(1)-Si(5)-C(6)	105.95(17)
C(1)-Si(5)-C(2)	105.63(17)
C(6)-Si(5)-C(2)	115.93(12)
C(1)-Si(5)-Si(1)	108.82(10)
C(6)-Si(5)-Si(1)	111.14(9)
C(2)-Si(5)-Si(1)	109.00(9)
C(10)-Si(6)-C(11)	107.71(12)
C(10)-Si(6)-C(15)	106.12(11)
C(11)-Si(6)-C(15)	114.16(11)

C(10)-Si(6)-Si(2)	106.44(8)	
C(11)-Si(6)-Si(2)	106.01(8)	S14
C(15)-Si(6)-Si(2)	115.90(8)	
C(19)-Si(7)-C(24)	106.88(13)	
C(19)-Si(7)-C(20)	105.41(13)	
C(24)-Si(7)-C(20)	115.37(11)	
C(19)-Si(7)-Si(3)	109.80(9)	
C(24)-Si(7)-Si(3)	110.51(8)	
C(20)-Si(7)-Si(3)	108.65(8)	
C(28)-Si(8)-C(29)	107.45(12)	
C(28)-Si(8)-C(33)	105.27(11)	
C(29)-Si(8)-C(33)	114.33(11)	
C(28)-Si(8)-Si(4)	106.10(9)	
C(29)-Si(8)-Si(4)	106.28(8)	
C(33)-Si(8)-Si(4)	116.77(8)	
C(38)-O(2)-K(1)	138.64(17)	
C(40)-O(3)-C(39)	111.5(2)	
C(40)-O(3)-K(1)	118.81(15)	
C(39)-O(3)-K(1)	124.76(17)	
C(41)-O(4)-C(42)	113.2(2)	
C(41)-O(4)-K(1)	106.69(14)	
C(42)-O(4)-K(1)	107.86(14)	
C(44)-O(5)-C(43)	111.7(2)	
C(44)-O(5)-K(1)	117.13(16)	
C(43)-O(5)-K(1)	116.79(15)	
C(46)-O(6)-C(45)	111.9(2)	
C(46)-O(6)-K(1)	120.79(15)	
C(45)-O(6)-K(1)	122.35(17)	
C(47)-O(7)-C(48)	113.1(2)	
C(47)-O(7)-K(1)	102.29(14)	
C(48)-O(7)-K(1)	102.85(15)	
C(49)-O(8)-C(50)	112.6(2)	
C(49)-O(8)-K(1)	121.58(17)	
C(50)-O(8)-K(1)	119.53(16)	
C(54)-O(9)-C(51)	104.9(2)	
C(54)-O(9)-K(1)	142.26(17)	
C(51)-O(9)-K(1)	109.22(17)	
Si(5)-C(1)-H(1A)	109.5	
Si(5)-C(1)-H(1B)	109.5	
H(1A)-C(1)-H(1B)	109.5	
Si(5)-C(1)-H(1C)	109.5	
H(1A)-C(1)-H(1C)	109.5	
H(1B)-C(1)-H(1C)	109.5	
C(3)-C(2)-C(5)	107.9(3)	
C(3)-C(2)-C(4)	108.9(2)	
C(5)-C(2)-C(4)	107.6(3)	
C(3)-C(2)-Si(5)	111.95(19)	
C(5)-C(2)-Si(5)	108.2(2)	
C(4)-C(2)-Si(5)	112.1(2)	
C(2)-C(3)-H(3A)	109.5	
C(2)-C(3)-H(3B)	109.5	
H(3A)-C(3)-H(3B)	109.5	
C(2)-C(3)-H(3C)	109.5	
H(3A)-C(3)-H(3C)	109.5	

H(3B)-C(3)-H(3C)	109.5
C(2)-C(4)-H(4A)	109.5
C(2)-C(4)-H(4B)	109.5
H(4A)-C(4)-H(4B)	109.5
C(2)-C(4)-H(4C)	109.5
H(4A)-C(4)-H(4C)	109.5
H(4B)-C(4)-H(4C)	109.5
C(2)-C(5)-H(5A)	109.5
C(2)-C(5)-H(5B)	109.5
H(5A)-C(5)-H(5B)	109.5
C(2)-C(5)-H(5C)	109.5
H(5A)-C(5)-H(5C)	109.5
H(5B)-C(5)-H(5C)	109.5
C(7)-C(6)-C(8)	108.4(4)
C(7)-C(6)-C(9)	108.4(3)
C(8)-C(6)-C(9)	107.5(3)
C(7)-C(6)-Si(5)	111.9(2)
C(8)-C(6)-Si(5)	107.4(2)
C(9)-C(6)-Si(5)	113.1(2)
C(6)-C(7)-H(7A)	109.5
C(6)-C(7)-H(7B)	109.5
H(7A)-C(7)-H(7B)	109.5
C(6)-C(7)-H(7C)	109.5
H(7A)-C(7)-H(7C)	109.5
H(7B)-C(7)-H(7C)	109.5
C(6)-C(8)-H(8A)	109.5
C(6)-C(8)-H(8B)	109.5
H(8A)-C(8)-H(8B)	109.5
C(6)-C(8)-H(8C)	109.5
H(8A)-C(8)-H(8C)	109.5
H(8B)-C(8)-H(8C)	109.5
C(6)-C(9)-H(9A)	109.5
C(6)-C(9)-H(9B)	109.5
H(9A)-C(9)-H(9B)	109.5
C(6)-C(9)-H(9C)	109.5
H(9A)-C(9)-H(9C)	109.5
H(9B)-C(9)-H(9C)	109.5
Si(6)-C(10)-H(10A)	109.5
Si(6)-C(10)-H(10B)	109.5
H(10A)-C(10)-H(10B)	109.5
Si(6)-C(10)-H(10C)	109.5
H(10A)-C(10)-H(10C)	109.5
H(10B)-C(10)-H(10C)	109.5
C(12)-C(11)-C(14)	108.6(2)
C(12)-C(11)-C(13)	108.0(2)
C(14)-C(11)-C(13)	107.8(2)
C(12)-C(11)-Si(6)	111.90(18)
C(14)-C(11)-Si(6)	112.49(18)
C(13)-C(11)-Si(6)	107.93(17)
C(11)-C(12)-H(12A)	109.5
C(11)-C(12)-H(12B)	109.5
H(12A)-C(12)-H(12B)	109.5
C(11)-C(12)-H(12C)	109.5
H(12A)-C(12)-H(12C)	109.5

H(12B)-C(12)-H(12C)	109.5
C(11)-C(13)-H(13A)	109.5
C(11)-C(13)-H(13B)	109.5
H(13A)-C(13)-H(13B)	109.5
C(11)-C(13)-H(13C)	109.5
H(13A)-C(13)-H(13C)	109.5
H(13B)-C(13)-H(13C)	109.5
C(11)-C(14)-H(14A)	109.5
C(11)-C(14)-H(14B)	109.5
H(14A)-C(14)-H(14B)	109.5
C(11)-C(14)-H(14C)	109.5
H(14A)-C(14)-H(14C)	109.5
H(14B)-C(14)-H(14C)	109.5
C(18)-C(15)-C(16)	108.9(2)
C(18)-C(15)-C(17)	108.7(2)
C(16)-C(15)-C(17)	107.0(2)
C(18)-C(15)-Si(6)	112.69(17)
C(16)-C(15)-Si(6)	111.30(17)
C(17)-C(15)-Si(6)	108.00(16)
C(15)-C(16)-H(16A)	109.5
C(15)-C(16)-H(16B)	109.5
H(16A)-C(16)-H(16B)	109.5
C(15)-C(16)-H(16C)	109.5
H(16A)-C(16)-H(16C)	109.5
H(16B)-C(16)-H(16C)	109.5
C(15)-C(17)-H(17A)	109.5
C(15)-C(17)-H(17B)	109.5
H(17A)-C(17)-H(17B)	109.5
C(15)-C(17)-H(17C)	109.5
H(17A)-C(17)-H(17C)	109.5
H(17B)-C(17)-H(17C)	109.5
C(15)-C(18)-H(18A)	109.5
C(15)-C(18)-H(18B)	109.5
H(18A)-C(18)-H(18B)	109.5
C(15)-C(18)-H(18C)	109.5
H(18A)-C(18)-H(18C)	109.5
H(18B)-C(18)-H(18C)	109.5
Si(7)-C(19)-H(19A)	109.5
Si(7)-C(19)-H(19B)	109.5
H(19A)-C(19)-H(19B)	109.5
Si(7)-C(19)-H(19C)	109.5
H(19A)-C(19)-H(19C)	109.5
H(19B)-C(19)-H(19C)	109.5
C(21)-C(20)-C(22)	107.7(3)
C(21)-C(20)-C(23)	108.2(2)
C(22)-C(20)-C(23)	108.0(3)
C(21)-C(20)-Si(7)	111.62(18)
C(22)-C(20)-Si(7)	108.90(18)
C(23)-C(20)-Si(7)	112.3(2)
C(20)-C(21)-H(21A)	109.5
C(20)-C(21)-H(21B)	109.5
H(21A)-C(21)-H(21B)	109.5
C(20)-C(21)-H(21C)	109.5
H(21A)-C(21)-H(21C)	109.5

H(21B)-C(21)-H(21C)	109.5
C(20)-C(22)-H(22A)	109.5
C(20)-C(22)-H(22B)	109.5
H(22A)-C(22)-H(22B)	109.5
C(20)-C(22)-H(22C)	109.5
H(22A)-C(22)-H(22C)	109.5
H(22B)-C(22)-H(22C)	109.5
C(20)-C(23)-H(23A)	109.5
C(20)-C(23)-H(23B)	109.5
H(23A)-C(23)-H(23B)	109.5
C(20)-C(23)-H(23C)	109.5
H(23A)-C(23)-H(23C)	109.5
H(23B)-C(23)-H(23C)	109.5
C(25)-C(24)-C(27)	108.9(2)
C(25)-C(24)-C(26)	108.6(2)
C(27)-C(24)-C(26)	107.3(3)
C(25)-C(24)-Si(7)	113.55(19)
C(27)-C(24)-Si(7)	110.99(18)
C(26)-C(24)-Si(7)	107.28(19)
C(24)-C(25)-H(25A)	109.5
C(24)-C(25)-H(25B)	109.5
H(25A)-C(25)-H(25B)	109.5
C(24)-C(25)-H(25C)	109.5
H(25A)-C(25)-H(25C)	109.5
H(25B)-C(25)-H(25C)	109.5
C(24)-C(26)-H(26A)	109.5
C(24)-C(26)-H(26B)	109.5
H(26A)-C(26)-H(26B)	109.5
C(24)-C(26)-H(26C)	109.5
H(26A)-C(26)-H(26C)	109.5
H(26B)-C(26)-H(26C)	109.5
C(24)-C(27)-H(27A)	109.5
C(24)-C(27)-H(27B)	109.5
H(27A)-C(27)-H(27B)	109.5
C(24)-C(27)-H(27C)	109.5
H(27A)-C(27)-H(27C)	109.5
H(27B)-C(27)-H(27C)	109.5
Si(8)-C(28)-H(28A)	109.5
Si(8)-C(28)-H(28B)	109.5
H(28A)-C(28)-H(28B)	109.5
Si(8)-C(28)-H(28C)	109.5
H(28A)-C(28)-H(28C)	109.5
H(28B)-C(28)-H(28C)	109.5
C(32)-C(29)-C(30)	108.5(2)
C(32)-C(29)-C(31)	108.5(2)
C(30)-C(29)-C(31)	107.4(2)
C(32)-C(29)-Si(8)	111.87(19)
C(30)-C(29)-Si(8)	107.43(17)
C(31)-C(29)-Si(8)	112.98(18)
C(29)-C(30)-H(30A)	109.5
C(29)-C(30)-H(30B)	109.5
H(30A)-C(30)-H(30B)	109.5
C(29)-C(30)-H(30C)	109.5
H(30A)-C(30)-H(30C)	109.5

H(30B)-C(30)-H(30C)	109.5
C(29)-C(31)-H(31A)	109.5
C(29)-C(31)-H(31B)	109.5
H(31A)-C(31)-H(31B)	109.5
C(29)-C(31)-H(31C)	109.5
H(31A)-C(31)-H(31C)	109.5
H(31B)-C(31)-H(31C)	109.5
C(29)-C(32)-H(32A)	109.5
C(29)-C(32)-H(32B)	109.5
H(32A)-C(32)-H(32B)	109.5
C(29)-C(32)-H(32C)	109.5
H(32A)-C(32)-H(32C)	109.5
H(32B)-C(32)-H(32C)	109.5
C(36)-C(33)-C(35)	108.5(2)
C(36)-C(33)-C(34)	107.6(2)
C(35)-C(33)-C(34)	108.4(2)
C(36)-C(33)-Si(8)	108.49(16)
C(35)-C(33)-Si(8)	112.41(18)
C(34)-C(33)-Si(8)	111.29(18)
C(33)-C(34)-H(34A)	109.5
C(33)-C(34)-H(34B)	109.5
H(34A)-C(34)-H(34B)	109.5
C(33)-C(34)-H(34C)	109.5
H(34A)-C(34)-H(34C)	109.5
H(34B)-C(34)-H(34C)	109.5
C(33)-C(35)-H(35A)	109.5
C(33)-C(35)-H(35B)	109.5
H(35A)-C(35)-H(35B)	109.5
C(33)-C(35)-H(35C)	109.5
H(35A)-C(35)-H(35C)	109.5
H(35B)-C(35)-H(35C)	109.5
C(33)-C(36)-H(36A)	109.5
C(33)-C(36)-H(36B)	109.5
H(36A)-C(36)-H(36B)	109.5
C(33)-C(36)-H(36C)	109.5
H(36A)-C(36)-H(36C)	109.5
H(36B)-C(36)-H(36C)	109.5
O(1)-C(37)-Co(1)	176.7(2)
O(2)-C(38)-Co(1)	176.5(2)
O(3)-C(39)-H(39A)	109.5
O(3)-C(39)-H(39B)	109.5
H(39A)-C(39)-H(39B)	109.5
O(3)-C(39)-H(39C)	109.5
H(39A)-C(39)-H(39C)	109.5
H(39B)-C(39)-H(39C)	109.5
O(3)-C(40)-C(41)	109.3(2)
O(3)-C(40)-H(40A)	109.8
C(41)-C(40)-H(40A)	109.8
O(3)-C(40)-H(40B)	109.8
C(41)-C(40)-H(40B)	109.8
H(40A)-C(40)-H(40B)	108.3
O(4)-C(41)-C(40)	108.5(2)
O(4)-C(41)-K(1)	50.41(11)
C(40)-C(41)-K(1)	85.27(15)

O(4)-C(41)-H(41A)	110.0
C(40)-C(41)-H(41A)	110.0
K(1)-C(41)-H(41A)	159.4
O(4)-C(41)-H(41B)	110.0
C(40)-C(41)-H(41B)	110.0
K(1)-C(41)-H(41B)	77.6
H(41A)-C(41)-H(41B)	108.4
O(4)-C(42)-C(43)	108.3(2)
O(4)-C(42)-K(1)	49.41(11)
C(43)-C(42)-K(1)	81.73(15)
O(4)-C(42)-H(42A)	110.0
C(43)-C(42)-H(42A)	110.0
K(1)-C(42)-H(42A)	81.8
O(4)-C(42)-H(42B)	110.0
C(43)-C(42)-H(42B)	110.0
K(1)-C(42)-H(42B)	159.4
H(42A)-C(42)-H(42B)	108.4
O(5)-C(43)-C(42)	108.5(2)
O(5)-C(43)-H(43A)	110.0
C(42)-C(43)-H(43A)	110.0
O(5)-C(43)-H(43B)	110.0
C(42)-C(43)-H(43B)	110.0
H(43A)-C(43)-H(43B)	108.4
O(5)-C(44)-H(44A)	109.5
O(5)-C(44)-H(44B)	109.5
H(44A)-C(44)-H(44B)	109.5
O(5)-C(44)-H(44C)	109.5
H(44A)-C(44)-H(44C)	109.5
H(44B)-C(44)-H(44C)	109.5
O(6)-C(45)-H(45A)	109.5
O(6)-C(45)-H(45B)	109.5
H(45A)-C(45)-H(45B)	109.5
O(6)-C(45)-H(45C)	109.5
H(45A)-C(45)-H(45C)	109.5
H(45B)-C(45)-H(45C)	109.5
O(6)-C(46)-C(47)	109.1(2)
O(6)-C(46)-H(46A)	109.9
C(47)-C(46)-H(46A)	109.9
O(6)-C(46)-H(46B)	109.9
C(47)-C(46)-H(46B)	109.9
H(46A)-C(46)-H(46B)	108.3
O(7)-C(47)-C(46)	108.2(2)
O(7)-C(47)-K(1)	54.37(12)
C(46)-C(47)-K(1)	84.46(15)
O(7)-C(47)-H(47A)	110.0
C(46)-C(47)-H(47A)	110.0
K(1)-C(47)-H(47A)	162.5
O(7)-C(47)-H(47B)	110.0
C(46)-C(47)-H(47B)	110.0
K(1)-C(47)-H(47B)	74.0
H(47A)-C(47)-H(47B)	108.4
O(7)-C(48)-C(49)	108.1(2)
O(7)-C(48)-K(1)	53.92(12)
C(49)-C(48)-K(1)	84.65(16)

O(7)-C(48)-H(48A)	110.1
C(49)-C(48)-H(48A)	110.1
K(1)-C(48)-H(48A)	74.2
O(7)-C(48)-H(48B)	110.1
C(49)-C(48)-H(48B)	110.1
K(1)-C(48)-H(48B)	162.1
H(48A)-C(48)-H(48B)	108.4
O(8)-C(49)-C(48)	108.5(2)
O(8)-C(49)-H(49A)	110.0
C(48)-C(49)-H(49A)	110.0
O(8)-C(49)-H(49B)	110.0
C(48)-C(49)-H(49B)	110.0
H(49A)-C(49)-H(49B)	108.4
O(8)-C(50)-H(50A)	109.5
O(8)-C(50)-H(50B)	109.5
H(50A)-C(50)-H(50B)	109.5
O(8)-C(50)-H(50C)	109.5
H(50A)-C(50)-H(50C)	109.5
H(50B)-C(50)-H(50C)	109.5
O(9)-C(51)-C(52)	105.7(3)
O(9)-C(51)-K(1)	48.05(13)
C(52)-C(51)-K(1)	125.9(2)
O(9)-C(51)-H(51A)	110.6
C(52)-C(51)-H(51A)	110.6
K(1)-C(51)-H(51A)	122.6
O(9)-C(51)-H(51B)	110.6
C(52)-C(51)-H(51B)	110.6
K(1)-C(51)-H(51B)	62.7
H(51A)-C(51)-H(51B)	108.7
C(51)-C(52)-C(53)	104.0(3)
C(51)-C(52)-H(52A)	111.0
C(53)-C(52)-H(52A)	111.0
C(51)-C(52)-H(52B)	111.0
C(53)-C(52)-H(52B)	111.0
H(52A)-C(52)-H(52B)	109.0
C(54)-C(53)-C(52)	104.5(2)
C(54)-C(53)-H(53A)	110.9
C(52)-C(53)-H(53A)	110.9
C(54)-C(53)-H(53B)	110.9
C(52)-C(53)-H(53B)	110.9
H(53A)-C(53)-H(53B)	108.9
O(9)-C(54)-C(53)	105.7(2)
O(9)-C(54)-H(54A)	110.6
C(53)-C(54)-H(54A)	110.6
O(9)-C(54)-H(54B)	110.6
C(53)-C(54)-H(54B)	110.6
H(54A)-C(54)-H(54B)	108.7

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Symmetry transformations used to generate equivalent atoms:

Table 4. Anisotropic displacement parameters ( $\text{\AA}^2 \times 10^3$ ) for compound.  
The anisotropic displacement factor exponent takes the form:  
 $-2 \pi^2 [ h^2 a^*^2 U_{11} + \dots + 2 h k a^* b^* U_{12} ]$

	U11	U22	U33	U23	U13	U12
Co(1)	20(1)	19(1)	20(1)	-1(1)	3(1)	2(1)
K(1)	23(1)	25(1)	26(1)	-2(1)	2(1)	2(1)
Si(1)	30(1)	20(1)	17(1)	-1(1)	2(1)	4(1)
Si(2)	26(1)	16(1)	20(1)	0(1)	2(1)	3(1)
Si(3)	28(1)	19(1)	17(1)	-1(1)	4(1)	3(1)
Si(4)	26(1)	17(1)	20(1)	-1(1)	3(1)	2(1)
Si(5)	51(1)	24(1)	18(1)	-1(1)	2(1)	6(1)
Si(6)	24(1)	16(1)	24(1)	-1(1)	4(1)	2(1)
Si(7)	30(1)	23(1)	18(1)	0(1)	5(1)	5(1)
Si(8)	24(1)	18(1)	24(1)	1(1)	4(1)	4(1)
O(1)	35(1)	30(1)	45(1)	-6(1)	-3(1)	-4(1)
O(2)	24(1)	33(1)	40(1)	-4(1)	6(1)	7(1)
O(3)	33(1)	46(1)	28(1)	-8(1)	1(1)	2(1)
O(4)	28(1)	30(1)	34(1)	1(1)	3(1)	-1(1)
O(5)	25(1)	45(1)	44(1)	-5(1)	-1(1)	6(1)
O(6)	44(1)	31(1)	28(1)	-4(1)	4(1)	4(1)
O(7)	29(1)	33(1)	38(1)	-1(1)	5(1)	0(1)
O(8)	53(1)	31(1)	42(1)	9(1)	0(1)	5(1)
O(9)	45(1)	26(1)	51(1)	0(1)	14(1)	0(1)
C(1)	163(4)	26(2)	30(2)	-4(1)	12(2)	13(2)
C(2)	38(2)	48(2)	26(1)	4(1)	-5(1)	-8(1)
C(3)	57(2)	61(2)	43(2)	0(2)	-8(2)	30(2)
C(4)	74(2)	54(2)	32(2)	4(2)	-16(2)	-3(2)
C(5)	48(2)	160(5)	56(2)	46(3)	-8(2)	-34(3)
C(6)	48(2)	56(2)	23(1)	1(1)	9(1)	20(1)
C(7)	59(3)	85(3)	108(4)	-30(3)	46(2)	-24(2)
C(8)	79(3)	225(6)	62(2)	62(4)	35(2)	95(4)
C(9)	82(3)	98(3)	27(2)	0(2)	22(2)	6(2)
C(10)	39(2)	28(1)	30(1)	-5(1)	4(1)	-1(1)
C(11)	27(1)	21(1)	42(1)	2(1)	7(1)	4(1)
C(12)	27(1)	37(1)	50(2)	7(1)	0(1)	5(1)
C(13)	34(2)	33(1)	54(2)	-1(1)	19(1)	6(1)
C(14)	38(2)	24(1)	71(2)	6(1)	13(1)	11(1)
C(15)	29(1)	22(1)	28(1)	2(1)	4(1)	0(1)
C(16)	37(2)	24(1)	46(2)	4(1)	6(1)	-5(1)
C(17)	32(1)	35(1)	40(1)	8(1)	12(1)	3(1)
C(18)	41(2)	42(2)	29(1)	5(1)	2(1)	0(1)
C(19)	70(2)	33(1)	28(1)	-1(1)	13(1)	17(1)
C(20)	31(1)	36(1)	26(1)	4(1)	7(1)	7(1)
C(21)	54(2)	35(2)	66(2)	-1(2)	23(2)	-8(1)
C(22)	26(2)	106(3)	62(2)	33(2)	2(1)	4(2)
C(23)	59(2)	67(2)	38(2)	-1(2)	27(2)	-7(2)
C(24)	31(1)	37(1)	22(1)	-3(1)	0(1)	0(1)
C(25)	50(2)	67(2)	25(1)	1(1)	-2(1)	5(2)

C(26)	46(2)	72(2)	45(2)	5(2)	-5(1)	-23(2)
C(27)	45(2)	64(2)	44(2)	-5(2)	-8(1)	21(2)
C(28)	37(2)	33(1)	28(1)	-3(1)	7(1)	7(1)
C(29)	30(1)	18(1)	45(2)	1(1)	5(1)	3(1)
C(30)	35(2)	33(1)	50(2)	-6(1)	-6(1)	-1(1)
C(31)	44(2)	20(1)	66(2)	-1(1)	4(1)	1(1)
C(32)	29(1)	32(1)	62(2)	5(1)	14(1)	1(1)
C(33)	36(1)	27(1)	26(1)	7(1)	6(1)	12(1)
C(34)	49(2)	34(1)	49(2)	8(1)	4(1)	22(1)
C(35)	45(2)	43(2)	31(1)	8(1)	6(1)	8(1)
C(36)	34(2)	44(2)	31(1)	3(1)	-1(1)	9(1)
C(37)	27(1)	28(1)	28(1)	-1(1)	6(1)	4(1)
C(38)	23(1)	24(1)	27(1)	0(1)	1(1)	1(1)
C(39)	40(2)	70(2)	32(1)	-1(2)	4(1)	6(2)
C(40)	38(2)	36(1)	33(1)	-7(1)	-5(1)	4(1)
C(41)	37(2)	28(1)	42(2)	-3(1)	-4(1)	-1(1)
C(42)	28(1)	44(2)	34(1)	9(1)	3(1)	-6(1)
C(43)	20(1)	51(2)	35(1)	7(1)	3(1)	1(1)
C(44)	32(2)	51(2)	51(2)	-5(1)	9(1)	6(1)
C(45)	76(2)	45(2)	35(2)	6(1)	13(2)	1(2)
C(46)	35(2)	42(2)	31(1)	-14(1)	0(1)	7(1)
C(47)	31(2)	36(1)	42(2)	-11(1)	1(1)	2(1)
C(48)	38(2)	30(1)	56(2)	4(1)	17(1)	-1(1)
C(49)	50(2)	29(1)	52(2)	11(1)	12(1)	6(1)
C(50)	56(2)	48(2)	38(2)	16(2)	4(1)	6(2)
C(51)	35(2)	47(2)	92(3)	-9(2)	15(2)	-2(1)
C(52)	42(2)	46(2)	87(3)	-10(2)	14(2)	8(2)
C(53)	47(2)	32(1)	39(2)	1(1)	5(1)	1(1)
C(54)	42(2)	35(1)	35(1)	2(1)	9(1)	-2(1)

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Table 5. Hydrogen coordinates ( x 10<sup>4</sup>) and isotropic displacement parameters (Å<sup>2</sup> x 10<sup>3</sup>) for compound.

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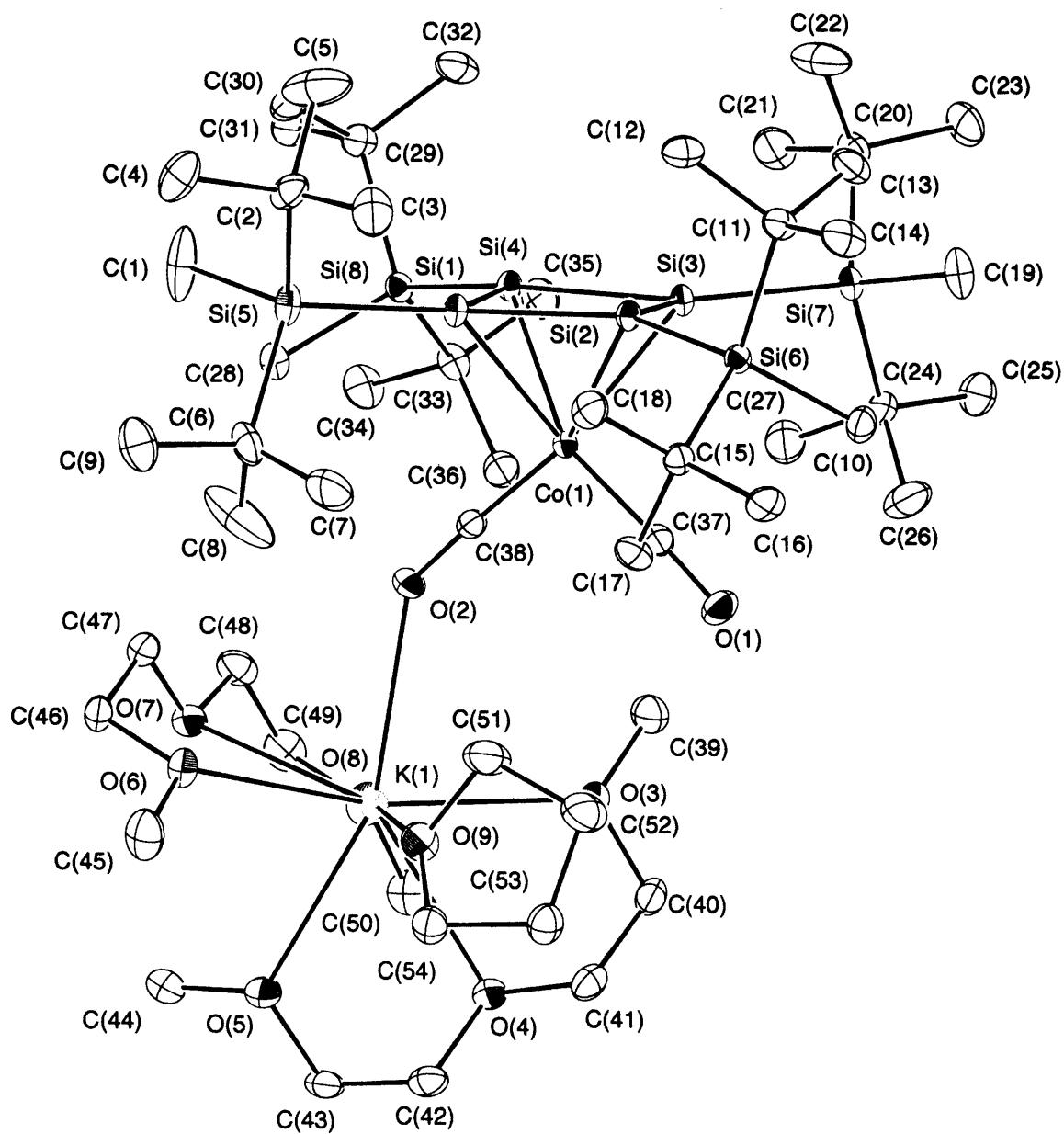
	x	y	z	U(eq)
H(1A)	2205	4076	4804	109
H(1B)	3304	4069	4820	109
H(1C)	2797	3926	5631	109
H(3A)	3128	975	5309	80
H(3B)	4236	1072	5335	80
H(3C)	3625	1134	4496	80
H(4A)	3290	2143	6458	83
H(4B)	3871	3011	6327	83
H(4C)	4390	2196	6429	83
H(5A)	4482	2531	4306	136
H(5B)	5109	2420	5126	136
H(5C)	4597	3241	5031	136
H(7A)	1606	977	5190	128
H(7B)	1086	1192	4350	128
H(7C)	531	1112	5143	128
H(8A)	782	3312	4905	169
H(8B)	28	2531	4965	169
H(8C)	588	2609	4175	169
H(9A)	1541	2974	6263	103
H(9B)	1850	2067	6382	103
H(9C)	773	2195	6273	103
H(10A)	1305	-401	1170	49
H(10B)	1944	-1146	1129	49
H(10C)	2295	-262	815	49
H(12A)	4371	554	3107	57
H(12B)	5032	-175	3102	57
H(12C)	4141	-245	3611	57
H(13A)	3883	-474	1088	59
H(13B)	4880	-344	1589	59
H(13C)	4246	405	1554	59
H(14A)	3463	-1737	1902	65
H(14B)	3584	-1646	2874	65
H(14C)	4478	-1572	2370	65
H(16A)	1189	-1760	2229	54
H(16B)	1034	-1949	3150	54
H(16C)	2037	-1979	2828	54
H(17A)	493	-400	2470	53
H(17B)	909	238	3215	53
H(17C)	369	-638	3383	53
H(18A)	2334	-75	4115	57
H(18B)	2742	-946	3976	57
H(18C)	1742	-918	4306	57
H(19A)	3611	773	-100	64
H(19B)	3078	776	-985	64
H(19C)	2527	461	-242	64

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H(21A)	3122	3746	-677	78	
H(21B)	4212	3985	-461	78	S24
H(21C)	3555	3775	247	78	
H(22A)	4795	1980	92	96	
H(22B)	4563	2706	712	96	
H(22C)	5224	2917	8	96	
H(23A)	3520	2605	-1704	82	
H(23B)	4198	1948	-1399	82	
H(23C)	4591	2903	-1440	82	
H(25A)	2083	2639	-1793	72	
H(25B)	1042	2209	-1983	72	
H(25C)	1885	1650	-1924	72	
H(26A)	812	1268	-71	86	
H(26B)	1111	813	-876	86	
H(26C)	265	1369	-933	86	
H(27A)	1546	3376	-515	76	
H(27B)	1038	2828	126	76	
H(27C)	530	2908	-757	76	
H(28A)	1956	4749	3688	49	
H(28B)	1000	4586	3123	49	
H(28C)	1519	5508	3278	49	
H(30A)	3938	4596	3384	61	
H(30B)	3499	5378	3765	61	
H(30C)	4528	5491	3483	61	
H(31A)	3039	6522	2883	65	
H(31B)	3240	6499	1946	65	
H(31C)	4083	6644	2640	65	
H(32A)	4229	4535	1854	61	
H(32B)	4814	5428	2023	61	
H(32C)	3980	5288	1321	61	
H(34A)	1665	6392	1708	64	
H(34B)	774	5909	2044	64	
H(34C)	748	6124	1110	64	
H(35A)	2588	5615	688	59	
H(35B)	1636	5382	129	59	
H(35C)	2249	4665	402	59	
H(36A)	303	4381	1625	54	
H(36B)	853	3913	973	54	
H(36C)	241	4630	702	54	
H(39A)	-690	2686	971	71	
H(39B)	-1478	2795	264	71	
H(39C)	-1083	1916	348	71	
H(40A)	-2640	1253	435	44	
H(40B)	-3037	2133	345	44	
H(41A)	-4074	1221	1034	44	
H(41B)	-3258	1152	1734	44	
H(42A)	-4321	1741	2688	43	
H(42B)	-5061	1881	1948	43	
H(43A)	-4738	3374	2273	43	
H(43B)	-5216	2897	2982	43	
H(44A)	-3378	4236	4010	67	
H(44B)	-4483	4037	3932	67	
H(44C)	-3977	4466	3216	67	
H(45A)	-2514	2241	4751	78	

H(45B)	-2799	3080	5168	78	
H(45C)	-1864	2720	5494	78	S25
H(46A)	-963	4034	5265	44	
H(46B)	-1923	4380	4977	44	
H(47A)	-638	5112	4389	45	
H(47B)	-440	4255	3938	45	
H(48A)	-747	4815	2610	49	
H(48B)	-954	5682	3037	49	
H(49A)	-2520	5458	2408	51	
H(49B)	-1785	5507	1734	51	
H(50A)	-3405	3760	1097	70	
H(50B)	-3044	4663	833	70	
H(50C)	-3685	4570	1570	70	
H(51A)	-913	891	3620	70	
H(51B)	-950	1346	2780	70	
H(52A)	-1264	-281	2784	70	
H(52B)	-1735	211	2068	70	
H(53A)	-3139	-136	2518	48	
H(53B)	-2663	-596	3256	48	
H(54A)	-3416	808	3516	45	
H(54B)	-2610	538	4139	45	

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**Figure 1.** ORTEP view of  $\mathbf{2}^{\bullet}\cdot[\text{K}(\text{diglyme})_2(\text{THF})]^+$ . Thermal ellipsoids are drawn at the 30% probability level. Hydrogen atoms are omitted for clarity.

Table 6. Crystal data and structure refinement for compound.

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Identification code	$(^t\text{Bu}_2\text{MeSi})_4\text{Si}_4\text{Co}(\text{CO})_2 \cdot [\text{K}(\text{Kryptfix}222)](\text{THF})_2$	
Empirical formula	C64 H136 Co K N2 O10 Si8	
Formula weight	1416.50	
Temperature	120.0(1) K	
Wavelength	0.71070 Å	
Crystal system, space group	Triclinic, P -1	
Unit cell dimensions	a = 12.9740(7) Å b = 16.1730(9) Å c = 20.1670(7) Å	alpha = 91.686(3) deg. beta = 103.374(3) deg. gamma = 100.456(2) deg.
Volume	4037.2(3) Å^3	
Z, Calculated density	2, 1.165 Mg/m^3	
Absorption coefficient	0.432 mm^-1	
F(000)	1544	
Crystal size	0.3 x 0.25 x 0.2 mm	
Theta range for data collection	2.08 to 28.04 deg.	
Limiting indices	0<=h<=17, -21<=k<=21, -25<=l<=25	
Reflections collected / unique	40393 / 17995 [R(int) = 0.0380]	
Completeness to theta = 28.04	91.9 %	
Absorption correction	None	
Refinement method	Full-matrix least-squares on F^2	
Data / restraints / parameters	17995 / 206 / 772	
Goodness-of-fit on F^2	1.098	
Final R indices [I>2sigma(I)]	R1 = 0.0656, wR2 = 0.1812	
R indices (all data)	R1 = 0.0928, wR2 = 0.1999	
Extinction coefficient	0.0125(10)	

Table 7. Atomic coordinates ( $\times 10^4$ ) and equivalent isotropic displacement parameters ( $\text{\AA}^2 \times 10^3$ ) for compound.

$U(\text{eq})$  is defined as one third of the trace of the orthogonalized  $U_{ij}$  tensor.

	x	y	z	$U(\text{eq})$
Co(1)	-1765(1)	-2932(1)	7589(1)	23(1)
K(1)	2764(1)	469(1)	5801(1)	28(1)
Si(1)	-2102(1)	-3012(1)	8706(1)	25(1)
Si(2)	-607(1)	-3438(1)	8559(1)	24(1)
Si(3)	-1563(1)	-4381(1)	7665(1)	27(1)
Si(4)	-3080(1)	-4025(1)	7861(1)	25(1)
Si(5)	-2394(1)	-2066(1)	9525(1)	30(1)
Si(6)	1278(1)	-2998(1)	8995(1)	25(1)
Si(7)	-977(1)	-5275(1)	6952(1)	40(1)
Si(8)	-4969(1)	-4368(1)	7427(1)	25(1)
Si(58)	-4858(3)	-4904(2)	7338(2)	25(1)
O(1)	103(2)	-2113(2)	7129(1)	40(1)
O(2)	-3439(2)	-2106(2)	6842(1)	44(1)
O(3)	4787(2)	6(2)	6022(1)	33(1)
O(4)	4543(2)	1622(2)	5577(1)	34(1)
O(5)	1479(2)	-1141(2)	5193(1)	34(1)
O(6)	1449(2)	331(2)	4469(1)	36(1)
O(7)	2490(2)	337(2)	7132(1)	36(1)
O(8)	1792(2)	1680(2)	6396(1)	34(1)
O(9)	-1487(3)	829(2)	7258(1)	59(1)
O(10)	-4616(4)	608(3)	8070(3)	109(2)
N(1)	3079(2)	-1117(2)	6496(1)	33(1)
N(2)	2401(2)	2044(2)	5088(1)	33(1)
C(1)	-1279(3)	-1110(2)	9733(2)	37(1)
C(2)	-2353(4)	-2643(2)	10356(2)	44(1)
C(3)	-3097(5)	-3494(3)	10245(2)	67(2)
C(4)	-2583(4)	-2089(3)	10920(2)	54(1)
C(5)	-1194(5)	-2805(3)	10630(2)	63(1)
C(6)	-3679(3)	-1644(2)	9193(2)	46(1)
C(7)	-3708(5)	-1383(4)	8480(2)	74(2)
C(8)	-4661(4)	-2314(3)	9262(3)	72(2)
C(9)	-3759(5)	-875(3)	9620(3)	75(2)
C(10)	1994(3)	-3044(2)	8286(2)	39(1)
C(11)	1709(3)	-3814(2)	9624(2)	36(1)
C(12)	1059(4)	-3926(3)	10178(2)	45(1)
C(13)	2931(3)	-3599(3)	9969(2)	51(1)
C(14)	1477(3)	-4677(2)	9212(2)	43(1)
C(15)	1667(3)	-1844(2)	9378(2)	32(1)
C(16)	992(3)	-1314(2)	8904(2)	36(1)
C(17)	1450(4)	-1761(2)	10090(2)	44(1)
C(18)	2862(3)	-1489(3)	9422(2)	49(1)
C(19)	567(4)	-5112(6)	7261(3)	123(3)
C(20)	-1425(6)	-6415(3)	7098(2)	82(2)

C(21)	-872(10)	-7011(4)	6804(4)	161(5)	S29
C(22)	-2688(9)	-6702(5)	6718(4)	180(6)	
C(23)	-1409(7)	-6520(3)	7846(3)	108(3)	
C(24)	-1222(5)	-4966(3)	6037(2)	62(1)	
C(25)	-472(6)	-4143(3)	5998(3)	102(3)	
C(26)	-1031(5)	-5634(3)	5545(2)	74(2)	
C(27)	-2388(6)	-4844(6)	5804(3)	140(4)	
C(28)	-5612(4)	-3433(3)	7527(3)	43(1)	
C(29)	-5454(3)	-5198(3)	8004(2)	38(1)	
C(30)	-4846(5)	-5927(3)	8037(3)	65(1)	
C(31)	-6665(4)	-5554(4)	7772(3)	65(1)	
C(32)	-5226(5)	-4781(4)	8731(2)	65(1)	
C(33)	-5366(3)	-4697(2)	6466(2)	38(1)	
C(34)	-4860(5)	-3995(4)	6081(3)	65(1)	
C(35)	-4955(5)	-5496(3)	6319(3)	65(1)	
C(36)	-6594(4)	-4879(4)	6183(3)	65(1)	
C(37)	-639(3)	-2448(2)	7334(2)	31(1)	
C(38)	-2776(3)	-2460(2)	7143(2)	30(1)	
C(39)	4093(3)	-1330(2)	6408(2)	38(1)	
C(40)	5022(3)	-590(2)	6522(2)	39(1)	
C(41)	5671(3)	704(3)	6113(2)	46(1)	
C(42)	5438(3)	1261(2)	5530(2)	42(1)	
C(43)	4333(3)	2189(2)	5050(2)	40(1)	
C(44)	3443(3)	2619(2)	5157(2)	42(1)	
C(45)	2169(3)	-1816(2)	6207(2)	41(1)	
C(46)	1844(3)	-1884(2)	5431(2)	41(1)	
C(47)	1195(3)	-1168(2)	4469(2)	40(1)	
C(48)	685(3)	-431(2)	4245(2)	41(1)	
C(49)	1013(3)	1048(3)	4228(2)	40(1)	
C(50)	1889(3)	1810(2)	4358(2)	39(1)	
C(51)	3151(3)	-952(3)	7230(2)	43(1)	
C(52)	2310(4)	-492(2)	7372(2)	44(1)	
C(53)	1806(3)	837(2)	7351(2)	38(1)	
C(54)	2062(3)	1712(2)	7127(2)	42(1)	
C(55)	1968(4)	2510(2)	6167(2)	43(1)	
C(56)	1681(3)	2457(2)	5396(2)	41(1)	
C(57)	-1865(3)	-52(2)	7278(2)	42(1)	
C(58)	-997(3)	-343(2)	7810(2)	38(1)	
C(59)	-638(4)	417(2)	8328(2)	49(1)	
C(60)	-795(4)	1147(2)	7902(2)	45(1)	
C(61)	-5124(6)	945(4)	8543(3)	91(2)	
C(62)	-4885(5)	1843(3)	8528(3)	71(1)	
C(63)	-3945(6)	2024(4)	8186(3)	85(2)	
C(64)	-3636(5)	1191(4)	8150(3)	85(2)	
C(78)	-4619(13)	-5874(7)	6904(8)	43(1)	
C(79)	-5478(7)	-5294(6)	8071(4)	38(1)	
C(80)	-4643(11)	-5629(10)	8610(5)	65(1)	
C(81)	-6455(10)	-6009(9)	7813(6)	65(1)	
C(82)	-5846(13)	-4588(8)	8424(6)	65(1)	
C(83)	-5736(6)	-4384(5)	6637(4)	38(1)	
C(84)	-5190(11)	-4226(10)	6043(5)	65(1)	
C(85)	-5892(11)	-3533(6)	6912(6)	65(1)	
C(86)	-6853(7)	-4944(9)	6368(6)	65(1)	

Table 8. Bond lengths [ $\text{\AA}$ ] and angles [deg] for compound.

---

Co(1)-C(37)	1.722(3)
Co(1)-C(38)	1.723(3)
Co(1)-Si(4)	2.3940(9)
Co(1)-Si(1)	2.3945(9)
Co(1)-Si(3)	2.4110(10)
Co(1)-Si(2)	2.4352(9)
K(1)-O(7)	2.798(2)
K(1)-O(3)	2.799(2)
K(1)-O(6)	2.808(2)
K(1)-O(4)	2.825(2)
K(1)-O(8)	2.886(2)
K(1)-O(5)	2.890(2)
K(1)-N(1)	3.006(3)
K(1)-N(2)	3.019(3)
Si(1)-Si(2)	2.2506(12)
Si(1)-Si(4)	2.2980(12)
Si(1)-Si(5)	2.3588(12)
Si(2)-Si(3)	2.2858(12)
Si(2)-Si(6)	2.3666(12)
Si(3)-Si(4)	2.2615(12)
Si(3)-Si(7)	2.3501(12)
Si(4)-Si(8)	2.3590(14)
Si(4)-Si(58)	2.460(3)
Si(5)-C(1)	1.879(4)
Si(5)-C(6)	1.901(4)
Si(5)-C(2)	1.936(4)
Si(6)-C(10)	1.884(3)
Si(6)-C(11)	1.924(4)
Si(6)-C(15)	1.931(3)
Si(7)-C(20)	1.883(5)
Si(7)-C(24)	1.897(5)
Si(7)-C(19)	1.922(6)
Si(8)-C(28)	1.882(5)
Si(8)-C(29)	1.918(4)
Si(8)-C(33)	1.919(4)
Si(58)-C(78)	1.883(6)
Si(58)-C(79)	1.913(5)
Si(58)-C(83)	1.916(5)
O(1)-C(37)	1.183(4)
O(2)-C(38)	1.181(4)
O(3)-C(41)	1.429(4)
O(3)-C(40)	1.437(4)
O(4)-C(42)	1.411(4)
O(4)-C(43)	1.433(4)
O(5)-C(47)	1.418(4)
O(5)-C(46)	1.427(4)
O(6)-C(48)	1.422(4)
O(6)-C(49)	1.429(4)
O(7)-C(53)	1.434(4)
O(7)-C(52)	1.436(4)

O(8)-C(55)	1.427(4)
O(8)-C(54)	1.433(4)
O(9)-C(60)	1.419(5)
O(9)-C(57)	1.426(5)
O(10)-C(64)	1.411(7)
O(10)-C(61)	1.425(7)
N(1)-C(39)	1.466(5)
N(1)-C(45)	1.473(5)
N(1)-C(51)	1.475(4)
N(2)-C(44)	1.470(5)
N(2)-C(50)	1.473(4)
N(2)-C(56)	1.476(4)
C(1)-H(1A)	0.9600
C(1)-H(1B)	0.9600
C(1)-H(1C)	0.9600
C(2)-C(3)	1.510(6)
C(2)-C(4)	1.543(5)
C(2)-C(5)	1.550(7)
C(3)-H(3A)	0.9600
C(3)-H(3B)	0.9600
C(3)-H(3C)	0.9600
C(4)-H(4A)	0.9600
C(4)-H(4B)	0.9600
C(4)-H(4C)	0.9600
C(5)-H(5A)	0.9600
C(5)-H(5B)	0.9600
C(5)-H(5C)	0.9600
C(6)-C(7)	1.505(7)
C(6)-C(9)	1.524(6)
C(6)-C(8)	1.551(6)
C(7)-H(7A)	0.9600
C(7)-H(7B)	0.9600
C(7)-H(7C)	0.9600
C(8)-H(8A)	0.9600
C(8)-H(8B)	0.9600
C(8)-H(8C)	0.9600
C(9)-H(9A)	0.9600
C(9)-H(9B)	0.9600
C(9)-H(9C)	0.9600
C(10)-H(10A)	0.9600
C(10)-H(10B)	0.9600
C(10)-H(10C)	0.9600
C(11)-C(12)	1.545(5)
C(11)-C(14)	1.547(5)
C(11)-C(13)	1.547(5)
C(12)-H(12A)	0.9600
C(12)-H(12B)	0.9600
C(12)-H(12C)	0.9600
C(13)-H(13A)	0.9600
C(13)-H(13B)	0.9600
C(13)-H(13C)	0.9600
C(14)-H(14A)	0.9600
C(14)-H(14B)	0.9600
C(14)-H(14C)	0.9600

C(15)-C(18)	1.533(5)
C(15)-C(17)	1.532(5)
C(15)-C(16)	1.533(5)
C(16)-H(16A)	0.9600
C(16)-H(16B)	0.9600
C(16)-H(16C)	0.9600
C(17)-H(17A)	0.9600
C(17)-H(17B)	0.9600
C(17)-H(17C)	0.9600
C(18)-H(18A)	0.9600
C(18)-H(18B)	0.9600
C(18)-H(18C)	0.9600
C(19)-H(19A)	0.9600
C(19)-H(19B)	0.9600
C(19)-H(19C)	0.9600
C(20)-C(21)	1.485(8)
C(20)-C(23)	1.520(7)
C(20)-C(22)	1.616(12)
C(21)-H(21A)	0.9600
C(21)-H(21B)	0.9600
C(21)-H(21C)	0.9600
C(22)-H(22A)	0.9600
C(22)-H(22B)	0.9600
C(22)-H(22C)	0.9600
C(23)-H(23A)	0.9600
C(23)-H(23B)	0.9600
C(23)-H(23C)	0.9600
C(24)-C(25)	1.516(7)
C(24)-C(27)	1.527(8)
C(24)-C(26)	1.536(6)
C(25)-H(25A)	0.9600
C(25)-H(25B)	0.9600
C(25)-H(25C)	0.9600
C(26)-H(26A)	0.9600
C(26)-H(26B)	0.9600
C(26)-H(26C)	0.9600
C(27)-H(27A)	0.9600
C(27)-H(27B)	0.9600
C(27)-H(27C)	0.9600
C(28)-H(28A)	0.9600
C(28)-H(28B)	0.9600
C(28)-H(28C)	0.9600
C(29)-C(31)	1.528(4)
C(29)-C(30)	1.528(4)
C(29)-C(32)	1.537(4)
C(30)-H(30A)	0.9600
C(30)-H(30B)	0.9600
C(30)-H(30C)	0.9600
C(31)-H(31A)	0.9600
C(31)-H(31B)	0.9600
C(31)-H(31C)	0.9600
C(32)-H(32A)	0.9600
C(32)-H(32B)	0.9600
C(32)-H(32C)	0.9600

C(33)-C(35)	1.530(4)
C(33)-C(34)	1.529(4)
C(33)-C(36)	1.533(4)
C(34)-H(34A)	0.9600
C(34)-H(34B)	0.9600
C(34)-H(34C)	0.9600
C(35)-H(35A)	0.9600
C(35)-H(35B)	0.9600
C(35)-H(35C)	0.9600
C(36)-H(36A)	0.9600
C(36)-H(36B)	0.9600
C(36)-H(36C)	0.9600
C(39)-C(40)	1.507(5)
C(39)-H(39A)	0.9700
C(39)-H(39B)	0.9700
C(40)-H(40A)	0.9700
C(40)-H(40B)	0.9700
C(41)-C(42)	1.510(5)
C(41)-H(41A)	0.9700
C(41)-H(41B)	0.9700
C(42)-H(42A)	0.9700
C(42)-H(42B)	0.9700
C(43)-C(44)	1.504(5)
C(43)-H(43A)	0.9700
C(43)-H(43B)	0.9700
C(44)-H(44A)	0.9700
C(44)-H(44B)	0.9700
C(45)-C(46)	1.520(5)
C(45)-H(45A)	0.9700
C(45)-H(45B)	0.9700
C(46)-H(46A)	0.9700
C(46)-H(46B)	0.9700
C(47)-C(48)	1.497(6)
C(47)-H(47A)	0.9700
C(47)-H(47B)	0.9700
C(48)-H(48A)	0.9700
C(48)-H(48B)	0.9700
C(49)-C(50)	1.488(5)
C(49)-H(49A)	0.9700
C(49)-H(49B)	0.9700
C(50)-H(50A)	0.9700
C(50)-H(50B)	0.9700
C(51)-C(52)	1.500(6)
C(51)-H(51A)	0.9700
C(51)-H(51B)	0.9700
C(52)-H(52A)	0.9700
C(52)-H(52B)	0.9700
C(53)-C(54)	1.502(5)
C(53)-H(53A)	0.9700
C(53)-H(53B)	0.9700
C(54)-H(54A)	0.9700
C(54)-H(54B)	0.9700
C(55)-C(56)	1.508(5)
C(55)-H(55A)	0.9700

C(55)-H(55B)	0.9700
C(56)-H(56A)	0.9700
C(56)-H(56B)	0.9700
C(57)-C(58)	1.517(5)
C(57)-H(57A)	0.9700
C(57)-H(57B)	0.9700
C(58)-C(59)	1.520(5)
C(58)-H(58A)	0.9700
C(58)-H(58B)	0.9700
C(59)-C(60)	1.497(5)
C(59)-H(59A)	0.9700
C(59)-H(59B)	0.9700
C(60)-H(60A)	0.9700
C(60)-H(60B)	0.9700
C(61)-C(62)	1.431(8)
C(61)-H(61A)	0.9700
C(61)-H(61B)	0.9700
C(62)-C(63)	1.524(7)
C(62)-H(62A)	0.9700
C(62)-H(62B)	0.9700
C(63)-C(64)	1.477(8)
C(63)-H(63A)	0.9700
C(63)-H(63B)	0.9700
C(64)-H(64A)	0.9700
C(64)-H(64B)	0.9700
C(78)-H(78A)	0.9600
C(78)-H(78B)	0.9600
C(78)-H(78C)	0.9600
C(79)-C(82)	1.531(4)
C(79)-C(81)	1.531(4)
C(79)-C(80)	1.533(4)
C(80)-H(80A)	0.9600
C(80)-H(80B)	0.9600
C(80)-H(80C)	0.9600
C(81)-H(81A)	0.9600
C(81)-H(81B)	0.9600
C(81)-H(81C)	0.9600
C(82)-H(82A)	0.9600
C(82)-H(82B)	0.9600
C(82)-H(82C)	0.9600
C(83)-C(86)	1.532(4)
C(83)-C(84)	1.531(4)
C(83)-C(85)	1.532(4)
C(84)-H(84A)	0.9600
C(84)-H(84B)	0.9600
C(84)-H(84C)	0.9600
C(85)-H(85A)	0.9600
C(85)-H(85B)	0.9600
C(85)-H(85C)	0.9600
C(86)-H(86A)	0.9600
C(86)-H(86B)	0.9600
C(86)-H(86C)	0.9600

C(37)-Co(1)-C(38) 103.46(15)

C(37)-Co(1)-Si(4)	159.92(12)
C(38)-Co(1)-Si(4)	90.51(11)
C(37)-Co(1)-Si(1)	130.38(11)
C(38)-Co(1)-Si(1)	103.80(10)
Si(4)-Co(1)-Si(1)	57.36(3)
C(37)-Co(1)-Si(3)	104.02(11)
C(38)-Co(1)-Si(3)	132.91(12)
Si(4)-Co(1)-Si(3)	56.15(3)
Si(1)-Co(1)-Si(3)	86.11(3)
C(37)-Co(1)-Si(2)	89.87(11)
C(38)-Co(1)-Si(2)	158.96(11)
Si(4)-Co(1)-Si(2)	81.30(3)
Si(1)-Co(1)-Si(2)	55.54(3)
Si(3)-Co(1)-Si(2)	56.28(3)
O(7)-K(1)-O(3)	97.74(7)
O(7)-K(1)-O(6)	137.56(8)
O(3)-K(1)-O(6)	119.63(7)
O(7)-K(1)-O(4)	119.11(7)
O(3)-K(1)-O(4)	60.57(7)
O(6)-K(1)-O(4)	97.74(7)
O(7)-K(1)-O(8)	59.80(7)
O(3)-K(1)-O(8)	137.36(7)
O(6)-K(1)-O(8)	97.77(7)
O(4)-K(1)-O(8)	97.07(7)
O(7)-K(1)-O(5)	98.85(7)
O(3)-K(1)-O(5)	97.38(7)
O(6)-K(1)-O(5)	59.54(7)
O(4)-K(1)-O(5)	137.12(7)
O(8)-K(1)-O(5)	120.27(7)
O(7)-K(1)-N(1)	60.91(8)
O(3)-K(1)-N(1)	61.12(7)
O(6)-K(1)-N(1)	118.72(8)
O(4)-K(1)-N(1)	120.86(8)
O(8)-K(1)-N(1)	119.62(7)
O(5)-K(1)-N(1)	59.85(8)
O(7)-K(1)-N(2)	119.25(8)
O(3)-K(1)-N(2)	119.82(8)
O(6)-K(1)-N(2)	60.29(8)
O(4)-K(1)-N(2)	60.20(8)
O(8)-K(1)-N(2)	60.31(7)
O(5)-K(1)-N(2)	119.06(8)
N(1)-K(1)-N(2)	178.82(9)
Si(2)-Si(1)-Si(4)	87.52(4)
Si(2)-Si(1)-Si(5)	132.51(5)
Si(4)-Si(1)-Si(5)	139.34(5)
Si(2)-Si(1)-Co(1)	63.15(3)
Si(4)-Si(1)-Co(1)	61.31(3)
Si(5)-Si(1)-Co(1)	136.07(5)
Si(1)-Si(2)-Si(3)	92.64(4)
Si(1)-Si(2)-Si(6)	136.19(5)
Si(3)-Si(2)-Si(6)	130.58(5)
Si(1)-Si(2)-Co(1)	61.31(3)
Si(3)-Si(2)-Co(1)	61.32(3)
Si(6)-Si(2)-Co(1)	128.01(4)

Si(4)-Si(3)-Si(2)	87.55(4)
Si(4)-Si(3)-Si(7)	141.76(6)
Si(2)-Si(3)-Si(7)	130.68(5)
Si(4)-Si(3)-Co(1)	61.54(3)
Si(2)-Si(3)-Co(1)	62.39(3)
Si(7)-Si(3)-Co(1)	131.16(5)
Si(3)-Si(4)-Si(1)	92.03(4)
Si(3)-Si(4)-Si(8)	139.60(5)
Si(1)-Si(4)-Si(8)	128.29(5)
Si(3)-Si(4)-Co(1)	62.30(3)
Si(1)-Si(4)-Co(1)	61.33(3)
Si(8)-Si(4)-Co(1)	130.30(5)
Si(3)-Si(4)-Si(58)	120.28(9)
Si(1)-Si(4)-Si(58)	146.21(9)
Si(8)-Si(4)-Si(58)	21.95(8)
Co(1)-Si(4)-Si(58)	140.37(8)
C(1)-Si(5)-C(6)	105.29(17)
C(1)-Si(5)-C(2)	106.99(17)
C(6)-Si(5)-C(2)	114.59(19)
C(1)-Si(5)-Si(1)	111.27(11)
C(6)-Si(5)-Si(1)	111.66(14)
C(2)-Si(5)-Si(1)	107.00(12)
C(10)-Si(6)-C(11)	107.75(17)
C(10)-Si(6)-C(15)	106.00(16)
C(11)-Si(6)-C(15)	114.82(16)
C(10)-Si(6)-Si(2)	109.99(13)
C(11)-Si(6)-Si(2)	105.74(12)
C(15)-Si(6)-Si(2)	112.46(11)
C(20)-Si(7)-C(24)	117.8(2)
C(20)-Si(7)-C(19)	102.6(4)
C(24)-Si(7)-C(19)	104.6(3)
C(20)-Si(7)-Si(3)	111.10(17)
C(24)-Si(7)-Si(3)	112.40(15)
C(19)-Si(7)-Si(3)	107.10(17)
C(28)-Si(8)-C(29)	107.5(2)
C(28)-Si(8)-C(33)	105.5(2)
C(29)-Si(8)-C(33)	115.86(17)
C(28)-Si(8)-Si(4)	111.23(18)
C(29)-Si(8)-Si(4)	104.41(13)
C(33)-Si(8)-Si(4)	112.30(12)
C(78)-Si(58)-C(79)	105.5(6)
C(78)-Si(58)-C(83)	105.8(6)
C(79)-Si(58)-C(83)	116.7(4)
C(78)-Si(58)-Si(4)	107.4(5)
C(79)-Si(58)-Si(4)	106.7(3)
C(83)-Si(58)-Si(4)	114.0(3)
C(41)-O(3)-C(40)	110.7(3)
C(41)-O(3)-K(1)	114.0(2)
C(40)-O(3)-K(1)	117.63(19)
C(42)-O(4)-C(43)	110.6(3)
C(42)-O(4)-K(1)	114.45(19)
C(43)-O(4)-K(1)	117.6(2)
C(47)-O(5)-C(46)	111.8(3)
C(47)-O(5)-K(1)	112.2(2)

C(46)-O(5)-K(1)	117.8(2)
C(48)-O(6)-C(49)	111.4(3)
C(48)-O(6)-K(1)	117.78(19)
C(49)-O(6)-K(1)	118.1(2)
C(53)-O(7)-C(52)	110.4(3)
C(53)-O(7)-K(1)	117.81(19)
C(52)-O(7)-K(1)	117.7(2)
C(55)-O(8)-C(54)	110.5(3)
C(55)-O(8)-K(1)	115.8(2)
C(54)-O(8)-K(1)	112.2(2)
C(60)-O(9)-C(57)	108.7(3)
C(64)-O(10)-C(61)	103.5(4)
C(39)-N(1)-C(45)	110.2(3)
C(39)-N(1)-C(51)	109.4(3)
C(45)-N(1)-C(51)	109.5(3)
C(39)-N(1)-K(1)	108.59(19)
C(45)-N(1)-K(1)	110.8(2)
C(51)-N(1)-K(1)	108.2(2)
C(44)-N(2)-C(50)	109.7(3)
C(44)-N(2)-C(56)	110.0(3)
C(50)-N(2)-C(56)	109.2(3)
C(44)-N(2)-K(1)	109.5(2)
C(50)-N(2)-K(1)	109.1(2)
C(56)-N(2)-K(1)	109.34(19)
Si(5)-C(1)-H(1A)	109.5
Si(5)-C(1)-H(1B)	109.5
H(1A)-C(1)-H(1B)	109.5
Si(5)-C(1)-H(1C)	109.5
H(1A)-C(1)-H(1C)	109.5
H(1B)-C(1)-H(1C)	109.5
C(3)-C(2)-C(4)	110.8(3)
C(3)-C(2)-C(5)	106.4(4)
C(4)-C(2)-C(5)	106.4(3)
C(3)-C(2)-Si(5)	113.2(3)
C(4)-C(2)-Si(5)	111.3(3)
C(5)-C(2)-Si(5)	108.4(3)
C(2)-C(3)-H(3A)	109.5
C(2)-C(3)-H(3B)	109.5
H(3A)-C(3)-H(3B)	109.5
C(2)-C(3)-H(3C)	109.5
H(3A)-C(3)-H(3C)	109.5
H(3B)-C(3)-H(3C)	109.5
C(2)-C(4)-H(4A)	109.5
C(2)-C(4)-H(4B)	109.5
H(4A)-C(4)-H(4B)	109.5
C(2)-C(4)-H(4C)	109.5
H(4A)-C(4)-H(4C)	109.5
H(4B)-C(4)-H(4C)	109.5
C(2)-C(5)-H(5A)	109.5
C(2)-C(5)-H(5B)	109.5
H(5A)-C(5)-H(5B)	109.5
C(2)-C(5)-H(5C)	109.5
H(5A)-C(5)-H(5C)	109.5
H(5B)-C(5)-H(5C)	109.5

C(7)-C(6)-C(9)	107.1(4)
C(7)-C(6)-C(8)	115.0(4)
C(9)-C(6)-C(8)	103.5(4)
C(7)-C(6)-Si(5)	108.8(3)
C(9)-C(6)-Si(5)	113.5(4)
C(8)-C(6)-Si(5)	108.9(3)
C(6)-C(7)-H(7A)	109.5
C(6)-C(7)-H(7B)	109.5
H(7A)-C(7)-H(7B)	109.5
C(6)-C(7)-H(7C)	109.5
H(7A)-C(7)-H(7C)	109.5
H(7B)-C(7)-H(7C)	109.5
C(6)-C(8)-H(8A)	109.5
C(6)-C(8)-H(8B)	109.5
H(8A)-C(8)-H(8B)	109.5
C(6)-C(8)-H(8C)	109.5
H(8A)-C(8)-H(8C)	109.5
H(8B)-C(8)-H(8C)	109.5
C(6)-C(9)-H(9A)	109.5
C(6)-C(9)-H(9B)	109.5
H(9A)-C(9)-H(9B)	109.5
C(6)-C(9)-H(9C)	109.5
H(9A)-C(9)-H(9C)	109.5
H(9B)-C(9)-H(9C)	109.5
Si(6)-C(10)-H(10A)	109.5
Si(6)-C(10)-H(10B)	109.5
H(10A)-C(10)-H(10B)	109.5
Si(6)-C(10)-H(10C)	109.5
H(10A)-C(10)-H(10C)	109.5
H(10B)-C(10)-H(10C)	109.5
C(12)-C(11)-C(14)	106.7(3)
C(12)-C(11)-C(13)	109.5(3)
C(14)-C(11)-C(13)	107.8(3)
C(12)-C(11)-Si(6)	112.8(2)
C(14)-C(11)-Si(6)	107.8(2)
C(13)-C(11)-Si(6)	112.0(3)
C(11)-C(12)-H(12A)	109.5
C(11)-C(12)-H(12B)	109.5
H(12A)-C(12)-H(12B)	109.5
C(11)-C(12)-H(12C)	109.5
H(12A)-C(12)-H(12C)	109.5
H(12B)-C(12)-H(12C)	109.5
C(11)-C(13)-H(13A)	109.5
C(11)-C(13)-H(13B)	109.5
H(13A)-C(13)-H(13B)	109.5
C(11)-C(13)-H(13C)	109.5
H(13A)-C(13)-H(13C)	109.5
H(13B)-C(13)-H(13C)	109.5
C(11)-C(14)-H(14A)	109.5
C(11)-C(14)-H(14B)	109.5
H(14A)-C(14)-H(14B)	109.5
C(11)-C(14)-H(14C)	109.5
H(14A)-C(14)-H(14C)	109.5
H(14B)-C(14)-H(14C)	109.5

C(18)-C(15)-C(17)	109.3(3)
C(18)-C(15)-C(16)	107.9(3)
C(17)-C(15)-C(16)	108.6(3)
C(18)-C(15)-Si(6)	110.6(2)
C(17)-C(15)-Si(6)	111.9(2)
C(16)-C(15)-Si(6)	108.5(2)
C(15)-C(16)-H(16A)	109.5
C(15)-C(16)-H(16B)	109.5
H(16A)-C(16)-H(16B)	109.5
C(15)-C(16)-H(16C)	109.5
H(16A)-C(16)-H(16C)	109.5
H(16B)-C(16)-H(16C)	109.5
C(15)-C(17)-H(17A)	109.5
C(15)-C(17)-H(17B)	109.5
H(17A)-C(17)-H(17B)	109.5
C(15)-C(17)-H(17C)	109.5
H(17A)-C(17)-H(17C)	109.5
H(17B)-C(17)-H(17C)	109.5
C(15)-C(18)-H(18A)	109.5
C(15)-C(18)-H(18B)	109.5
H(18A)-C(18)-H(18B)	109.5
C(15)-C(18)-H(18C)	109.5
H(18A)-C(18)-H(18C)	109.5
H(18B)-C(18)-H(18C)	109.5
Si(7)-C(19)-H(19A)	109.5
Si(7)-C(19)-H(19B)	109.5
H(19A)-C(19)-H(19B)	109.5
Si(7)-C(19)-H(19C)	109.5
H(19A)-C(19)-H(19C)	109.5
H(19B)-C(19)-H(19C)	109.5
C(21)-C(20)-C(23)	113.4(5)
C(21)-C(20)-C(22)	105.2(6)
C(23)-C(20)-C(22)	103.4(6)
C(21)-C(20)-Si(7)	114.8(5)
C(23)-C(20)-Si(7)	110.9(3)
C(22)-C(20)-Si(7)	108.3(5)
C(20)-C(21)-H(21A)	109.5
C(20)-C(21)-H(21B)	109.5
H(21A)-C(21)-H(21B)	109.5
C(20)-C(21)-H(21C)	109.5
H(21A)-C(21)-H(21C)	109.5
H(21B)-C(21)-H(21C)	109.5
C(20)-C(22)-H(22A)	109.5
C(20)-C(22)-H(22B)	109.5
H(22A)-C(22)-H(22B)	109.5
C(20)-C(22)-H(22C)	109.5
H(22A)-C(22)-H(22C)	109.5
H(22B)-C(22)-H(22C)	109.5
C(20)-C(23)-H(23A)	109.5
C(20)-C(23)-H(23B)	109.5
H(23A)-C(23)-H(23B)	109.5
C(20)-C(23)-H(23C)	109.5
H(23A)-C(23)-H(23C)	109.5
H(23B)-C(23)-H(23C)	109.5

C(25)-C(24)-C(27)	108.7(6)	S40
C(25)-C(24)-C(26)	108.2(4)	
C(27)-C(24)-C(26)	108.8(5)	
C(25)-C(24)-Si(7)	109.7(4)	
C(27)-C(24)-Si(7)	108.8(4)	
C(26)-C(24)-Si(7)	112.5(3)	
C(24)-C(25)-H(25A)	109.5	
C(24)-C(25)-H(25B)	109.5	
H(25A)-C(25)-H(25B)	109.5	
C(24)-C(25)-H(25C)	109.5	
H(25A)-C(25)-H(25C)	109.5	
H(25B)-C(25)-H(25C)	109.5	
C(24)-C(26)-H(26A)	109.5	
C(24)-C(26)-H(26B)	109.5	
H(26A)-C(26)-H(26B)	109.5	
C(24)-C(26)-H(26C)	109.5	
H(26A)-C(26)-H(26C)	109.5	
H(26B)-C(26)-H(26C)	109.5	
C(24)-C(27)-H(27A)	109.5	
C(24)-C(27)-H(27B)	109.5	
H(27A)-C(27)-H(27B)	109.5	
C(24)-C(27)-H(27C)	109.5	
H(27A)-C(27)-H(27C)	109.5	
H(27B)-C(27)-H(27C)	109.5	
Si(8)-C(28)-H(28A)	109.5	
Si(8)-C(28)-H(28B)	109.5	
H(28A)-C(28)-H(28B)	109.5	
Si(8)-C(28)-H(28C)	109.5	
H(28A)-C(28)-H(28C)	109.5	
H(28B)-C(28)-H(28C)	109.5	
C(31)-C(29)-C(30)	108.8(4)	
C(31)-C(29)-C(32)	107.8(3)	
C(30)-C(29)-C(32)	107.9(4)	
C(31)-C(29)-Si(8)	112.6(3)	
C(30)-C(29)-Si(8)	111.2(3)	
C(32)-C(29)-Si(8)	108.4(3)	
C(29)-C(30)-H(30A)	109.5	
C(29)-C(30)-H(30B)	109.5	
H(30A)-C(30)-H(30B)	109.5	
C(29)-C(30)-H(30C)	109.5	
H(30A)-C(30)-H(30C)	109.5	
H(30B)-C(30)-H(30C)	109.5	
C(29)-C(31)-H(31A)	109.5	
C(29)-C(31)-H(31B)	109.5	
H(31A)-C(31)-H(31B)	109.5	
C(29)-C(31)-H(31C)	109.5	
H(31A)-C(31)-H(31C)	109.5	
H(31B)-C(31)-H(31C)	109.5	
C(29)-C(32)-H(32A)	109.5	
C(29)-C(32)-H(32B)	109.5	
H(32A)-C(32)-H(32B)	109.5	
C(29)-C(32)-H(32C)	109.5	
H(32A)-C(32)-H(32C)	109.5	
H(32B)-C(32)-H(32C)	109.5	

C(35)-C(33)-C(34)	108.0(4)
C(35)-C(33)-C(36)	107.6(4)
C(34)-C(33)-C(36)	109.0(3)
C(35)-C(33)-Si(8)	110.8(3)
C(34)-C(33)-Si(8)	109.6(3)
C(36)-C(33)-Si(8)	111.8(3)
C(33)-C(34)-H(34A)	109.5
C(33)-C(34)-H(34B)	109.5
H(34A)-C(34)-H(34B)	109.5
C(33)-C(34)-H(34C)	109.5
H(34A)-C(34)-H(34C)	109.5
H(34B)-C(34)-H(34C)	109.5
C(33)-C(35)-H(35A)	109.5
C(33)-C(35)-H(35B)	109.5
H(35A)-C(35)-H(35B)	109.5
C(33)-C(35)-H(35C)	109.5
H(35A)-C(35)-H(35C)	109.5
H(35B)-C(35)-H(35C)	109.5
C(33)-C(36)-H(36A)	109.5
C(33)-C(36)-H(36B)	109.5
H(36A)-C(36)-H(36B)	109.5
C(33)-C(36)-H(36C)	109.5
H(36A)-C(36)-H(36C)	109.5
H(36B)-C(36)-H(36C)	109.5
O(1)-C(37)-Co(1)	176.9(3)
O(2)-C(38)-Co(1)	177.3(3)
N(1)-C(39)-C(40)	114.3(3)
N(1)-C(39)-H(39A)	108.7
C(40)-C(39)-H(39A)	108.7
N(1)-C(39)-H(39B)	108.7
C(40)-C(39)-H(39B)	108.7
H(39A)-C(39)-H(39B)	107.6
O(3)-C(40)-C(39)	109.9(3)
O(3)-C(40)-H(40A)	109.7
C(39)-C(40)-H(40A)	109.7
O(3)-C(40)-H(40B)	109.7
C(39)-C(40)-H(40B)	109.7
H(40A)-C(40)-H(40B)	108.2
O(3)-C(41)-C(42)	108.6(3)
O(3)-C(41)-H(41A)	110.0
C(42)-C(41)-H(41A)	110.0
O(3)-C(41)-H(41B)	110.0
C(42)-C(41)-H(41B)	110.0
H(41A)-C(41)-H(41B)	108.4
O(4)-C(42)-C(41)	109.1(3)
O(4)-C(42)-H(42A)	109.9
C(41)-C(42)-H(42A)	109.9
O(4)-C(42)-H(42B)	109.9
C(41)-C(42)-H(42B)	109.9
H(42A)-C(42)-H(42B)	108.3
O(4)-C(43)-C(44)	108.8(3)
O(4)-C(43)-H(43A)	109.9
C(44)-C(43)-H(43A)	109.9
O(4)-C(43)-H(43B)	109.9

C(44)-C(43)-H(43B)	109.9
H(43A)-C(43)-H(43B)	108.3
N(2)-C(44)-C(43)	113.9(3)
N(2)-C(44)-H(44A)	108.8
C(43)-C(44)-H(44A)	108.8
N(2)-C(44)-H(44B)	108.8
C(43)-C(44)-H(44B)	108.8
H(44A)-C(44)-H(44B)	107.7
N(1)-C(45)-C(46)	113.3(3)
N(1)-C(45)-H(45A)	108.9
C(46)-C(45)-H(45A)	108.9
N(1)-C(45)-H(45B)	108.9
C(46)-C(45)-H(45B)	108.9
H(45A)-C(45)-H(45B)	107.7
O(5)-C(46)-C(45)	109.9(3)
O(5)-C(46)-H(46A)	109.7
C(45)-C(46)-H(46A)	109.7
O(5)-C(46)-H(46B)	109.7
C(45)-C(46)-H(46B)	109.7
H(46A)-C(46)-H(46B)	108.2
O(5)-C(47)-C(48)	109.7(3)
O(5)-C(47)-H(47A)	109.7
C(48)-C(47)-H(47A)	109.7
O(5)-C(47)-H(47B)	109.7
C(48)-C(47)-H(47B)	109.7
H(47A)-C(47)-H(47B)	108.2
O(6)-C(48)-C(47)	109.7(3)
O(6)-C(48)-H(48A)	109.7
C(47)-C(48)-H(48A)	109.7
O(6)-C(48)-H(48B)	109.7
C(47)-C(48)-H(48B)	109.7
H(48A)-C(48)-H(48B)	108.2
O(6)-C(49)-C(50)	109.7(3)
O(6)-C(49)-H(49A)	109.7
C(50)-C(49)-H(49A)	109.7
O(6)-C(49)-H(49B)	109.7
C(50)-C(49)-H(49B)	109.7
H(49A)-C(49)-H(49B)	108.2
N(2)-C(50)-C(49)	114.2(3)
N(2)-C(50)-H(50A)	108.7
C(49)-C(50)-H(50A)	108.7
N(2)-C(50)-H(50B)	108.7
C(49)-C(50)-H(50B)	108.7
H(50A)-C(50)-H(50B)	107.6
N(1)-C(51)-C(52)	113.9(3)
N(1)-C(51)-H(51A)	108.8
C(52)-C(51)-H(51A)	108.8
N(1)-C(51)-H(51B)	108.8
C(52)-C(51)-H(51B)	108.8
H(51A)-C(51)-H(51B)	107.7
O(7)-C(52)-C(51)	108.9(3)
O(7)-C(52)-H(52A)	109.9
C(51)-C(52)-H(52A)	109.9
O(7)-C(52)-H(52B)	109.9

C(51)-C(52)-H(52B)	109.9
H(52A)-C(52)-H(52B)	108.3
O(7)-C(53)-C(54)	108.8(3)
O(7)-C(53)-H(53A)	109.9
C(54)-C(53)-H(53A)	109.9
O(7)-C(53)-H(53B)	109.9
C(54)-C(53)-H(53B)	109.9
H(53A)-C(53)-H(53B)	108.3
O(8)-C(54)-C(53)	109.2(3)
O(8)-C(54)-H(54A)	109.8
C(53)-C(54)-H(54A)	109.8
O(8)-C(54)-H(54B)	109.8
C(53)-C(54)-H(54B)	109.8
H(54A)-C(54)-H(54B)	108.3
O(8)-C(55)-C(56)	109.4(3)
O(8)-C(55)-H(55A)	109.8
C(56)-C(55)-H(55A)	109.8
O(8)-C(55)-H(55B)	109.8
C(56)-C(55)-H(55B)	109.8
H(55A)-C(55)-H(55B)	108.3
N(2)-C(56)-C(55)	113.7(3)
N(2)-C(56)-H(56A)	108.8
C(55)-C(56)-H(56A)	108.8
N(2)-C(56)-H(56B)	108.8
C(55)-C(56)-H(56B)	108.8
H(56A)-C(56)-H(56B)	107.7
O(9)-C(57)-C(58)	105.2(3)
O(9)-C(57)-H(57A)	110.7
C(58)-C(57)-H(57A)	110.7
O(9)-C(57)-H(57B)	110.7
C(58)-C(57)-H(57B)	110.7
H(57A)-C(57)-H(57B)	108.8
C(57)-C(58)-C(59)	101.1(3)
C(57)-C(58)-H(58A)	111.6
C(59)-C(58)-H(58A)	111.6
C(57)-C(58)-H(58B)	111.6
C(59)-C(58)-H(58B)	111.6
H(58A)-C(58)-H(58B)	109.4
C(60)-C(59)-C(58)	103.8(3)
C(60)-C(59)-H(59A)	111.0
C(58)-C(59)-H(59A)	111.0
C(60)-C(59)-H(59B)	111.0
C(58)-C(59)-H(59B)	111.0
H(59A)-C(59)-H(59B)	109.0
O(9)-C(60)-C(59)	108.1(3)
O(9)-C(60)-H(60A)	110.1
C(59)-C(60)-H(60A)	110.1
O(9)-C(60)-H(60B)	110.1
C(59)-C(60)-H(60B)	110.1
H(60A)-C(60)-H(60B)	108.4
O(10)-C(61)-C(62)	106.8(5)
O(10)-C(61)-H(61A)	110.4
C(62)-C(61)-H(61A)	110.4
O(10)-C(61)-H(61B)	110.4

C(62)-C(61)-H(61B)	110.4	S44
H(61A)-C(61)-H(61B)	108.6	
C(61)-C(62)-C(63)	105.3(5)	
C(61)-C(62)-H(62A)	110.7	
C(63)-C(62)-H(62A)	110.7	
C(61)-C(62)-H(62B)	110.7	
C(63)-C(62)-H(62B)	110.7	
H(62A)-C(62)-H(62B)	108.8	
C(64)-C(63)-C(62)	102.3(5)	
C(64)-C(63)-H(63A)	111.3	
C(62)-C(63)-H(63A)	111.3	
C(64)-C(63)-H(63B)	111.3	
C(62)-C(63)-H(63B)	111.3	
H(63A)-C(63)-H(63B)	109.2	
O(10)-C(64)-C(63)	104.3(5)	
O(10)-C(64)-H(64A)	110.9	
C(63)-C(64)-H(64A)	110.9	
O(10)-C(64)-H(64B)	110.9	
C(63)-C(64)-H(64B)	110.9	
H(64A)-C(64)-H(64B)	108.9	
Si(58)-C(78)-H(78A)	109.5	
Si(58)-C(78)-H(78B)	109.5	
H(78A)-C(78)-H(78B)	109.5	
Si(58)-C(78)-H(78C)	109.5	
H(78A)-C(78)-H(78C)	109.5	
H(78B)-C(78)-H(78C)	109.5	
C(82)-C(79)-C(81)	108.2(5)	
C(82)-C(79)-C(80)	107.9(5)	
C(81)-C(79)-C(80)	108.1(5)	
C(82)-C(79)-Si(58)	111.8(4)	
C(81)-C(79)-Si(58)	110.9(4)	
C(80)-C(79)-Si(58)	109.9(4)	
C(79)-C(80)-H(80A)	109.5	
C(79)-C(80)-H(80B)	109.5	
H(80A)-C(80)-H(80B)	109.5	
C(79)-C(80)-H(80C)	109.5	
H(80A)-C(80)-H(80C)	109.5	
H(80B)-C(80)-H(80C)	109.5	
C(79)-C(81)-H(81A)	109.5	
C(79)-C(81)-H(81B)	109.5	
H(81A)-C(81)-H(81B)	109.5	
C(79)-C(81)-H(81C)	109.5	
H(81A)-C(81)-H(81C)	109.5	
H(81B)-C(81)-H(81C)	109.5	
C(79)-C(82)-H(82A)	109.5	
C(79)-C(82)-H(82B)	109.5	
H(82A)-C(82)-H(82B)	109.5	
C(79)-C(82)-H(82C)	109.5	
H(82A)-C(82)-H(82C)	109.5	
H(82B)-C(82)-H(82C)	109.5	
C(86)-C(83)-C(84)	109.1(5)	
C(86)-C(83)-C(85)	108.0(5)	
C(84)-C(83)-C(85)	108.0(5)	
C(86)-C(83)-Si(58)	110.9(4)	

C(84)-C(83)-Si(58)	109.9(4)	S45
C(85)-C(83)-Si(58)	110.8(4)	
C(83)-C(84)-H(84A)	109.5	
C(83)-C(84)-H(84B)	109.5	
H(84A)-C(84)-H(84B)	109.5	
C(83)-C(84)-H(84C)	109.5	
H(84A)-C(84)-H(84C)	109.5	
H(84B)-C(84)-H(84C)	109.5	
C(83)-C(85)-H(85A)	109.5	
C(83)-C(85)-H(85B)	109.5	
H(85A)-C(85)-H(85B)	109.5	
C(83)-C(85)-H(85C)	109.5	
H(85A)-C(85)-H(85C)	109.5	
H(85B)-C(85)-H(85C)	109.5	
C(83)-C(86)-H(86A)	109.5	
C(83)-C(86)-H(86B)	109.5	
H(86A)-C(86)-H(86B)	109.5	
C(83)-C(86)-H(86C)	109.5	
H(86A)-C(86)-H(86C)	109.5	
H(86B)-C(86)-H(86C)	109.5	

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Symmetry transformations used to generate equivalent atoms:

Table 9. Anisotropic displacement parameters ( $\text{\AA}^2 \times 10^3$ ) for compound.  
The anisotropic displacement factor exponent takes the form:  
 $-2 \pi^2 [ h^2 a^{*2} U_{11} + \dots + 2 h k a^* b^* U_{12} ]$

	U11	U22	U33	U23	U13	U12
Co(1)	22(1)	23(1)	26(1)	4(1)	8(1)	6(1)
K(1)	28(1)	28(1)	27(1)	2(1)	7(1)	3(1)
Si(1)	24(1)	28(1)	26(1)	0(1)	8(1)	7(1)
Si(2)	19(1)	24(1)	29(1)	-1(1)	4(1)	4(1)
Si(3)	24(1)	26(1)	31(1)	-3(1)	7(1)	5(1)
Si(4)	19(1)	28(1)	28(1)	2(1)	6(1)	3(1)
Si(5)	34(1)	22(1)	38(1)	-1(1)	19(1)	5(1)
Si(6)	20(1)	26(1)	29(1)	0(1)	4(1)	3(1)
Si(7)	53(1)	28(1)	45(1)	-2(1)	24(1)	11(1)
Si(8)	20(1)	25(1)	27(1)	-1(1)	4(1)	2(1)
Si(58)	20(1)	25(1)	27(1)	-1(1)	4(1)	2(1)
O(1)	32(1)	50(2)	40(1)	13(1)	14(1)	2(1)
O(2)	37(2)	47(2)	55(2)	22(1)	14(1)	20(1)
O(3)	27(1)	34(1)	37(1)	10(1)	6(1)	3(1)
O(4)	32(1)	34(1)	37(1)	10(1)	12(1)	5(1)
O(5)	38(1)	28(1)	36(1)	-3(1)	8(1)	3(1)
O(6)	34(1)	38(1)	31(1)	3(1)	0(1)	2(1)
O(7)	38(1)	37(1)	33(1)	5(1)	14(1)	5(1)
O(8)	39(1)	30(1)	29(1)	-2(1)	6(1)	4(1)
O(9)	95(3)	34(2)	43(2)	12(1)	4(2)	16(2)
O(10)	97(4)	82(3)	137(4)	-45(3)	7(3)	26(3)
N(1)	32(2)	31(2)	38(2)	9(1)	13(1)	4(1)
N(2)	34(2)	30(2)	36(2)	6(1)	10(1)	6(1)
C(1)	37(2)	28(2)	46(2)	-2(1)	13(2)	3(2)
C(2)	66(3)	34(2)	35(2)	-3(1)	30(2)	-4(2)
C(3)	106(4)	44(3)	52(2)	6(2)	38(3)	-8(3)
C(4)	62(3)	64(3)	37(2)	-10(2)	22(2)	9(2)
C(5)	99(4)	66(3)	40(2)	19(2)	27(2)	39(3)
C(6)	34(2)	29(2)	80(3)	-6(2)	25(2)	7(2)
C(7)	74(4)	111(5)	45(2)	-7(2)	-5(2)	68(3)
C(8)	46(3)	67(3)	105(4)	0(3)	19(3)	12(3)
C(9)	119(5)	64(3)	78(3)	22(3)	57(3)	62(3)
C(10)	32(2)	44(2)	43(2)	1(2)	15(2)	4(2)
C(11)	29(2)	32(2)	41(2)	2(1)	-1(1)	7(1)
C(12)	56(3)	44(2)	36(2)	12(2)	10(2)	11(2)
C(13)	35(2)	51(3)	59(2)	3(2)	-8(2)	10(2)
C(14)	43(2)	33(2)	52(2)	2(2)	1(2)	15(2)
C(15)	24(2)	29(2)	40(2)	-2(1)	3(1)	2(1)
C(16)	37(2)	26(2)	42(2)	0(1)	7(2)	2(1)
C(17)	51(2)	38(2)	40(2)	-7(2)	0(2)	12(2)
C(18)	28(2)	37(2)	73(3)	-5(2)	2(2)	-3(2)
C(19)	47(3)	221(9)	96(4)	-81(5)	-5(3)	59(5)
C(20)	183(7)	29(2)	46(2)	3(2)	44(3)	28(3)
C(21)	376(16)	54(4)	130(6)	34(4)	158(8)	109(7)

C(22)	253(13)	125(7)	105(6)	-23(5)	56(7)	-125(8)
C(23)	240(9)	41(3)	85(4)	30(3)	97(5)	54(4)
C(24)	96(4)	62(3)	46(2)	7(2)	32(3)	36(3)
C(25)	196(8)	46(3)	100(4)	4(3)	113(5)	16(4)
C(26)	120(5)	63(3)	51(3)	6(2)	34(3)	34(3)
C(27)	124(6)	275(12)	43(3)	-18(4)	-8(3)	136(7)
C(28)	35(3)	41(3)	57(3)	4(2)	11(2)	14(2)
C(29)	30(2)	39(2)	39(2)	1(1)	3(1)	-5(1)
C(30)	61(2)	76(2)	50(1)	6(1)	13(1)	-11(1)
C(31)	61(2)	76(2)	50(1)	6(1)	13(1)	-11(1)
C(32)	61(2)	76(2)	50(1)	6(1)	13(1)	-11(1)
C(33)	30(2)	39(2)	39(2)	1(1)	3(1)	-5(1)
C(34)	61(2)	76(2)	50(1)	6(1)	13(1)	-11(1)
C(35)	61(2)	76(2)	50(1)	6(1)	13(1)	-11(1)
C(36)	61(2)	76(2)	50(1)	6(1)	13(1)	-11(1)
C(37)	34(2)	31(2)	28(2)	8(1)	6(1)	10(1)
C(38)	30(2)	31(2)	32(2)	9(1)	13(1)	6(1)
C(39)	39(2)	33(2)	45(2)	12(2)	12(2)	10(2)
C(40)	32(2)	41(2)	44(2)	14(2)	4(2)	11(2)
C(41)	27(2)	40(2)	64(2)	18(2)	1(2)	-2(2)
C(42)	29(2)	38(2)	56(2)	14(2)	12(2)	0(2)
C(43)	36(2)	41(2)	45(2)	18(2)	14(2)	5(2)
C(44)	45(2)	32(2)	50(2)	11(2)	17(2)	3(2)
C(45)	40(2)	30(2)	56(2)	11(2)	18(2)	4(2)
C(46)	37(2)	31(2)	51(2)	-5(2)	10(2)	4(2)
C(47)	38(2)	43(2)	34(2)	-8(1)	10(2)	-2(2)
C(48)	35(2)	49(2)	31(2)	-4(2)	3(2)	-4(2)
C(49)	39(2)	52(2)	28(2)	7(2)	3(2)	13(2)
C(50)	46(2)	43(2)	32(2)	12(1)	8(2)	12(2)
C(51)	53(2)	45(2)	34(2)	14(2)	13(2)	11(2)
C(52)	54(3)	40(2)	40(2)	8(2)	22(2)	1(2)
C(53)	38(2)	53(2)	25(2)	0(1)	10(1)	8(2)
C(54)	51(2)	46(2)	28(2)	-7(1)	8(2)	11(2)
C(55)	55(3)	30(2)	46(2)	-2(2)	16(2)	8(2)
C(56)	48(2)	38(2)	45(2)	11(2)	18(2)	19(2)
C(57)	45(2)	40(2)	39(2)	0(2)	7(2)	10(2)
C(58)	40(2)	30(2)	44(2)	4(1)	6(2)	9(2)
C(59)	63(3)	33(2)	40(2)	3(2)	-4(2)	6(2)
C(60)	51(3)	30(2)	55(2)	6(2)	11(2)	8(2)
C(61)	104(5)	74(4)	96(5)	-13(3)	36(4)	12(4)
C(62)	68(4)	69(4)	83(4)	0(3)	30(3)	17(3)
C(63)	101(5)	71(4)	99(4)	6(3)	56(4)	18(3)
C(64)	52(3)	99(5)	99(4)	-44(4)	1(3)	29(3)
C(78)	35(3)	41(3)	57(3)	4(2)	11(2)	14(2)
C(79)	30(2)	39(2)	39(2)	1(1)	3(1)	-5(1)
C(80)	61(2)	76(2)	50(1)	6(1)	13(1)	-11(1)
C(81)	61(2)	76(2)	50(1)	6(1)	13(1)	-11(1)
C(82)	61(2)	76(2)	50(1)	6(1)	13(1)	-11(1)
C(83)	30(2)	39(2)	39(2)	1(1)	3(1)	-5(1)
C(84)	61(2)	76(2)	50(1)	6(1)	13(1)	-11(1)
C(85)	61(2)	76(2)	50(1)	6(1)	13(1)	-11(1)
C(86)	61(2)	76(2)	50(1)	6(1)	13(1)	-11(1)

Table 10. Hydrogen coordinates ( $\times 10^4$ ) and isotropic displacement parameters ( $\text{\AA}^2 \times 10^3$ ) for compound.

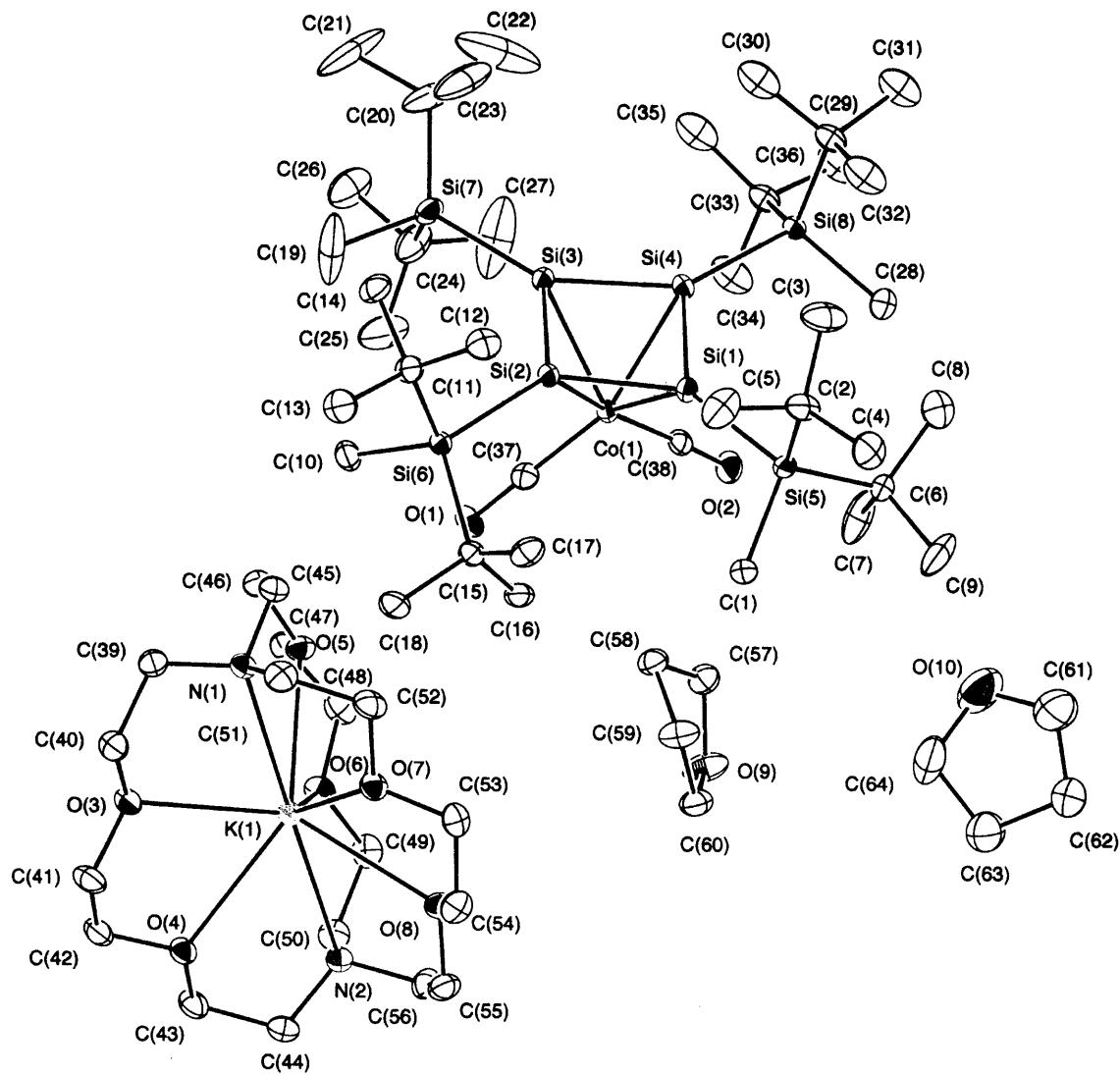
	x	y	z	U(eq)
H(1A)	-602	-1280	9906	55
H(1B)	-1412	-741	10072	55
H(1C)	-1253	-819	9327	55
H(3A)	-2937	-3831	9896	100
H(3B)	-3833	-3422	10107	100
H(3C)	-2995	-3772	10663	100
H(4A)	-2093	-1555	10988	80
H(4B)	-2486	-2366	11338	80
H(4C)	-3312	-2001	10785	80
H(5A)	-690	-2278	10713	95
H(5B)	-1020	-3159	10298	95
H(5C)	-1156	-3080	11048	95
H(7A)	-3662	-1854	8196	111
H(7B)	-3110	-931	8491	111
H(7C)	-4372	-1196	8299	111
H(8A)	-4577	-2443	9731	108
H(8B)	-4703	-2817	8984	108
H(8C)	-5312	-2097	9113	108
H(9A)	-3768	-1024	10076	113
H(9B)	-4411	-683	9418	113
H(9C)	-3148	-434	9634	113
H(10A)	1792	-2642	7964	58
H(10B)	1794	-3600	8059	58
H(10C)	2760	-2914	8473	58
H(12A)	1178	-3401	10446	67
H(12B)	1291	-4350	10469	67
H(12C)	304	-4096	9964	67
H(13A)	3097	-3064	10228	77
H(13B)	3336	-3572	9625	77
H(13C)	3118	-4028	10268	77
H(14A)	1869	-4636	8861	65
H(14B)	717	-4837	9007	65
H(14C)	1700	-5095	9513	65
H(16A)	239	-1522	8871	53
H(16B)	1132	-1351	8458	53
H(16C)	1182	-736	9085	53
H(17A)	701	-1978	10064	67
H(17B)	1625	-1177	10256	67
H(17C)	1887	-2074	10396	67
H(18A)	3000	-1539	8976	74
H(18B)	3302	-1799	9729	74
H(18C)	3031	-905	9587	74
H(19A)	882	-4541	7207	184
H(19B)	833	-5491	6997	184
H(19C)	758	-5222	7735	184

H(21A)	-893	-6904	6336	242	S49
H(21B)	-1232	-7579	6827	242	
H(21C)	-135	-6934	7059	242	
H(22A)	-3097	-6343	6889	270	
H(22B)	-2939	-7275	6804	270	
H(22C)	-2780	-6658	6235	270	
H(23A)	-1769	-6115	8007	163	
H(23B)	-675	-6433	8109	163	
H(23C)	-1773	-7079	7895	163	
H(25A)	-579	-3716	6303	153	
H(25B)	-626	-3973	5539	153	
H(25C)	263	-4217	6129	153	
H(26A)	-1503	-6161	5560	111	
H(26B)	-294	-5704	5680	111	
H(26C)	-1177	-5456	5089	111	
H(27A)	-2870	-5363	5826	210	
H(27B)	-2518	-4682	5342	210	
H(27C)	-2507	-4411	6097	210	
H(28A)	-5440	-3237	8001	65	
H(28B)	-6382	-3595	7362	65	
H(28C)	-5344	-2990	7269	65	
H(30A)	-4083	-5711	8188	98	
H(30B)	-5001	-6214	7591	98	
H(30C)	-5070	-6314	8351	98	
H(31A)	-7055	-5101	7751	98	
H(31B)	-6877	-5939	8091	98	
H(31C)	-6824	-5844	7327	98	
H(32A)	-4467	-4556	8891	98	
H(32B)	-5447	-5192	9029	98	
H(32C)	-5621	-4332	8727	98	
H(34A)	-5078	-3479	6184	98	
H(34B)	-5098	-4145	5598	98	
H(34C)	-4088	-3920	6219	98	
H(35A)	-5264	-5947	6555	98	
H(35B)	-4182	-5393	6473	98	
H(35C)	-5161	-5649	5836	98	
H(36A)	-6917	-5322	6420	98	
H(36B)	-6762	-5050	5704	98	
H(36C)	-6871	-4379	6248	98	
H(39A)	3974	-1586	5949	46	
H(39B)	4291	-1747	6725	46	
H(40A)	5144	-322	6977	47	
H(40B)	5674	-784	6487	47	
H(41A)	6332	503	6118	55	
H(41B)	5760	1022	6544	55	
H(42A)	6063	1702	5552	50	
H(42B)	5282	930	5097	50	
H(43A)	4120	1879	4605	48	
H(43B)	4981	2605	5067	48	
H(44A)	3659	2908	5610	50	
H(44B)	3350	3042	4828	50	
H(45A)	1552	-1737	6380	49	
H(45B)	2365	-2341	6362	49	
H(46A)	2457	-1956	5252	49	

H(46B)	1273	-2373	5269	49	S50
H(47A)	694	-1689	4286	48	
H(47B)	1835	-1151	4295	48	
H(48A)	439	-473	3751	49	
H(48B)	64	-433	4436	49	
H(49A)	461	1133	4461	48	
H(49B)	683	952	3742	48	
H(50A)	2439	1712	4128	47	
H(50B)	1592	2281	4160	47	
H(51A)	3860	-622	7443	52	
H(51B)	3081	-1485	7439	52	
H(52A)	1596	-798	7142	53	
H(52B)	2355	-451	7859	53	
H(53A)	1925	856	7845	46	
H(53B)	1054	588	7152	46	
H(54A)	1653	2072	7307	50	
H(54B)	2825	1946	7302	50	
H(55A)	2720	2779	6340	52	
H(55B)	1526	2846	6340	52	
H(56A)	946	2149	5231	49	
H(56B)	1707	3023	5246	49	
H(57A)	-1959	-346	6835	50	
H(57B)	-2549	-155	7408	50	
H(58A)	-409	-452	7619	46	
H(58B)	-1288	-845	8009	46	
H(59A)	-1078	377	8659	58	
H(59B)	113	468	8568	58	
H(60A)	-1116	1539	8124	55	
H(60B)	-105	1443	7843	55	
H(61A)	-4848	781	8999	109	
H(61B)	-5899	738	8411	109	
H(62A)	-4683	2113	8988	85	
H(62B)	-5505	2046	8268	85	
H(63A)	-4170	2217	7734	102	
H(63B)	-3355	2442	8459	102	
H(64A)	-3322	1129	7763	103	
H(64B)	-3121	1115	8565	103	
H(78A)	-4309	-5718	6526	65	
H(78B)	-5293	-6262	6740	65	
H(78C)	-4133	-6137	7224	65	
H(80A)	-4017	-5192	8772	98	
H(80B)	-4439	-6101	8409	98	
H(80C)	-4950	-5804	8984	98	
H(81A)	-6242	-6457	7586	98	
H(81B)	-7010	-5802	7499	98	
H(81C)	-6726	-6219	8193	98	
H(82A)	-5239	-4139	8601	98	
H(82B)	-6145	-4804	8791	98	
H(82C)	-6385	-4377	8099	98	
H(84A)	-4704	-4608	6044	98	
H(84B)	-4794	-3656	6095	98	
H(84C)	-5730	-4314	5619	98	
H(85A)	-5200	-3170	7081	98	
H(85B)	-6254	-3619	7276	98	

H(85C)	-6318	-3277	6551	98	S51
H(86A)	-7198	-5047	6739	98	
H(86B)	-6777	-5470	6171	98	
H(86C)	-7285	-4665	6027	98	

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**Figure 2.** ORTEP view of  $\mathbf{2} \bullet [\text{K}([\text{2.2.2}] \text{cryptand})(\text{THF})_2]^+$ . Thermal ellipsoids are drawn at the 30% probability level. Hydrogen atoms are omitted for clarity.