1. X-ray Analysis of 2,2,5,5-Tetrakis(trimethylsilyl)-1-silacyclopentane-1,1-diyl (1)

Experimetal Details

1. Crystal Data

Molecular Formula :	$C_{16}H_{40}Si_5$
Molecular Weight :	372.92
Crystal Color, Habit	orange, prismatic
Crystal Sizes :	0.40 × 0.50 × 0.60 mm
Crystal System :	monoclinic
Space Group :	P21/a(#14)
Cell Constants :	a = 13.483(3)Å, b = 11.302(4) Å, c = 16.667(2) Å, β = 113.28(1)° V = 2333.3(9)$Å^3$
Z :	4
Dcalcd :	1.061 g/cm^3
μ(MoKα):	3.01 cm^{-1}

2. Intensity Measurements

Diffractometer :	Rigaku AFC5R
Radiation :	MoKα (λ = 0.71069 Å)
Temperature :	-123.0 °C
Scan Type :	ω-2θ
Scan Speed :	8.0°/min
Scan Width :	(1.21+0.30tan θ)°
No. of Reflections Measured :	Total = 6452, Unique = 6204
Correction :	Lorentz-polarization, Absorption (trans. factors: 0.9697-0.9991), Decay (10.93% decline)

3. Structure Solution and Refinements

Structure Solution :	Direct Methods (SIR92)
Refinements :	Full-matrix least-squares
Function Minimized :	$\Sigma w(\|Fo\| - \|Fc\|)^2$
Least Squares Weights :	$w = 1/\sigma^2(Fo)$
p-factor :	0.0200
Temperature Factores :	Anisotropic for Si, C. Isotropic for H
Final R Factor = $(\Sigma\|\|Fo\|-\|Fc\|\|/\Sigma w\|Fo\|)$:	0.034
Rw = $[(\Sigma w(\|Fo\|-\|Fc\|)^2/\Sigma wFo^2)]^{1/2}$:	0.036
Goodness of Fit Indicator:	2.08

Table 1. Positional parameters and B(eq) for $C_{14}H_{40}Si_5$

atom	x	y	z	B(eq)
Si(1)	0.42793(4)	0.13688(5)	0.77962(3)	1.632(9)
Si(2)	0.32295(4)	0.03556(5)	0.59910(3)	1.877(9)
Si(3)	0.50660(4)	-0.11461(4)	0.73669(3)	1.878(9)
Si(4)	0.51549(4)	0.39545(4)	0.76097(3)	1.850(9)
Si(5)	0.62419(4)	0.23549(5)	0.92592(3)	1.842(9)
C(1)	0.4581(1)	0.0410(2)	0.6975(1)	1.62(3)
C(2)	0.5451(1)	0.1102(2)	0.6754(1)	1.74(3)
C(3)	0.6188(1)	0.1774(2)	0.7569(1)	1.70(3)
C(4)	0.5490(1)	0.2377(2)	0.8015(1)	1.56(3)
C(5)	0.2269(2)	-0.0744(2)	0.6126(1)	2.64(4)
C(6)	0.3424(2)	0.0056(2)	0.4957(1)	2.85(5)
C(7)	0.2522(2)	0.1824(2)	0.5807(2)	2.91(4)
C(8)	0.4834(2)	-0.2186(2)	0.6433(2)	3.09(5)
C(9)	0.4418(2)	-0.1766(2)	0.8079(2)	2.89(5)
C(10)	0.6568(2)	-0.1216(2)	0.7991(2)	2.74(4)
C(11)	0.4872(2)	0.4085(2)	0.6416(1)	2.63(4)
C(12)	0.3939(2)	0.4541(2)	0.7754(2)	3.02(5)
C(13)	0.6326(2)	0.4970(2)	0.8162(2)	2.61(4)
C(14)	0.6092(2)	0.0879(2)	0.9712(2)	3.26(5)
C(15)	0.5724(2)	0.3444(2)	0.9843(1)	2.77(5)
C(16)	0.7725(2)	0.2582(3)	0.9565(1)	2.89(4)
H(1)	0.511(2)	0.167(2)	0.629(1)	1.9(4)
H(2)	0.585(2)	0.058(2)	0.654(1)	1.9(4)
H(3)	0.664(2)	0.235(2)	0.745(1)	1.9(4)
H(4)	0.667(2)	0.123(2)	0.794(1)	2.1(4)
H(5)	0.683(2)	-0.078(3)	0.850(2)	4.1(6)
H(6)	0.675(2)	-0.200(2)	0.814(2)	3.6(6)
H(7)	0.181(2)	0.176(2)	0.536(2)	4.0(6)
H(8)	0.277(2)	0.016(3)	0.447(2)	4.4(6)
H(9)	0.250(2)	-0.155(2)	0.616(2)	3.1(5)
H(10)	0.371(2)	-0.184(3)	0.785(2)	4.1(6)
H(12)	0.652(2)	0.086(2)	1.030(2)	3.7(6)
H(13)	0.578(2)	0.425(2)	0.971(2)	3.4(6)
H(14)	0.693(2)	0.470(2)	0.811(2)	3.3(5)
H(15)	0.619(2)	0.574(3)	0.790(2)	4.0(6)
H(16)	0.545(2)	0.378(3)	0.628(2)	4.4(7)
H(17)	0.475(2)	0.487(2)	0.626(2)	3.1(5)
H(18)	0.401(2)	0.456(3)	0.831(2)	4.5(7)
H(19)	0.814(2)	0.253(3)	1.019(2)	5.0(7)

Table 1 (continued). Positional parameters and B(eq) for $C_{14}H_{40}Si_5$

atom	x	y	z	B(eq)
H(20)	0.799(3)	0.190(3)	0.937(2)	6.2(8)
H(21)	0.634(2)	0.030(2)	0.949(2)	3.0(5)
H(22)	0.541(3)	0.070(3)	0.965(2)	5.2(8)
H(23)	0.694(2)	-0.094(2)	0.766(2)	3.4(6)
H(24)	0.513(2)	-0.292(3)	0.664(2)	4.7(7)
H(25)	0.412(2)	-0.235(2)	0.608(2)	3.7(6)
H(26)	0.388(2)	0.059(3)	0.487(2)	4.4(7)
H(27)	0.371(2)	-0.068(3)	0.493(2)	4.4(7)
H(28)	0.286(2)	0.239(3)	0.561(2)	4.8(7)
H(29)	0.243(2)	0.216(3)	0.626(2)	5.3(8)
H(30)	0.428(2)	0.368(3)	0.606(2)	4.4(7)
H(31)	0.336(2)	0.410(3)	0.748(2)	4.7(7)
H(32)	0.389(2)	0.536(3)	0.760(2)	4.7(7)
H(33)	0.609(2)	0.335(2)	1.043(2)	3.3(5)
H(34)	0.503(2)	0.328(3)	0.971(2)	4.6(7)
H(35)	0.649(2)	0.511(2)	0.878(2)	4.1(6)
H(36)	0.454(3)	-0.132(3)	0.856(2)	5.8(8)
H(37)	0.461(2)	-0.252(3)	0.819(2)	5.1(7)
H(38)	0.215(2)	-0.057(2)	0.661(2)	3.4(6)
H(39)	0.162(2)	-0.069(2)	0.563(2)	4.0(6)
H(40)	0.516(2)	-0.191(3)	0.607(2)	4.3(7)
H(41)	0.792(3)	0.324(3)	0.936(2)	5.6(8)

Table 2. Intramolecular Bond Lengths Involving the nonhydrogen atoms for $C_{14}H_{40}Si_5$

atom	atom	distance	atom	atom	distance
Si(1)	C(1)	1.911(2)	Si(4)	C(11)	1.878(2)
Si(1)	C(4)	1.904(2)	Si(4)	C(12)	1.870(2)
Si(2)	C(1)	1.911(2)	Si(4)	C(13)	1.873(2)
Si(2)	C(5)	1.872(2)	Si(5)	C(4)	1.915(2)
Si(2)	C(6)	1.874(2)	Si(5)	C(14)	1.875(3)
Si(2)	C(7)	1.878(2)	Si(5)	C(15)	1.868(2)
Si(3)	C(1)	1.901(2)	Si(5)	C(16)	1.876(2)
Si(3)	C(8)	1.876(2)	C(1)	C(2)	1.569(2)
Si(3)	C(9)	1.867(2)	C(2)	C(3)	1.530(2)
Si(3)	C(10)	1.878(2)	C(3)	C(4)	1.568(2)
Si(4)	C(4)	1.897(2)			

Table 3. Intramolecular Bond Lengths Involving hydrogen atoms for $C_{14}H_{40}Si_5$

atom	atom	distance	atom	atom	distance
C(2)	H(1)	0.97(2)	C(10)	H(6)	0.93(3)
C(2)	H(2)	0.96(2)	C(10)	H(23)	0.93(3)
C(3)	H(3)	0.97(2)	C(11)	H(16)	0.96(3)
C(3)	H(4)	0.93(2)	C(11)	H(17)	0.92(3)
C(5)	H(9)	0.96(3)	C(11)	H(30)	0.91(3)
C(5)	H(38)	0.90(3)	C(12)	H(18)	0.90(3)
C(5)	H(39)	0.94(3)	C(12)	H(31)	0.88(3)
C(6)	H(8)	0.94(3)	C(12)	H(32)	0.96(3)
C(6)	H(26)	0.91(3)	C(13)	H(14)	0.91(3)
C(6)	H(27)	0.93(3)	C(13)	H(15)	0.96(3)
C(7)	H(7)	0.96(3)	C(13)	H(35)	0.97(3)
C(7)	H(28)	0.91(3)	C(14)	H(12)	0.92(3)
C(7)	H(29)	0.89(3)	C(14)	H(21)	0.89(3)
C(8)	H(24)	0.93(3)	C(14)	H(22)	0.90(3)
C(8)	H(25)	0.93(3)	C(15)	H(13)	0.95(3)
C(8)	H(40)	0.93(3)	C(15)	H(33)	0.92(3)
C(9)	H(10)	0.88(3)	C(15)	H(34)	0.89(3)
C(9)	H(36)	0.90(3)	C(16)	H(19)	0.97(3)
C(9)	H(37)	0.89(3)	C(16)	H(20)	0.96(3)
C(10)	H(5)	0.93(3)	C(16)	H(41)	0.90(3)

Table 4. Intramolecular Bond Angles Involving the nonhydrogen atoms for $C_{14}H_{40}Si_5$

atom	atom	atom	angle	atom	atom	atom	angle
C(1)	Si(1)	C(4)	93.88(7)	C(4)	Si(5)	C(15)	114.13(9)
C(1)	Si(2)	C(5)	112.86(9)	C(4)	Si(5)	C(16)	110.10(9)
C(1)	Si(2)	C(6)	111.3(1)	C(14)	Si(5)	C(15)	104.8(1)
C(1)	Si(2)	C(7)	111.23(9)	C(14)	Si(5)	C(16)	106.6(1)
C(5)	Si(2)	C(6)	110.2(1)	C(15)	Si(5)	C(16)	110.3(1)
C(5)	Si(2)	C(7)	106.0(1)	Si(1)	C(1)	Si(2)	103.44(8)
C(6)	Si(2)	C(7)	104.8(1)	Si(1)	C(1)	Si(3)	114.85(9)
C(1)	Si(3)	C(8)	111.91(9)	Si(1)	C(1)	C(2)	106.0(1)
C(1)	Si(3)	C(9)	112.5(1)	Si(2)	C(1)	Si(3)	110.31(9)
C(1)	Si(3)	C(10)	112.27(9)	Si(2)	C(1)	C(2)	111.3(1)
C(8)	Si(3)	C(9)	109.0(1)	Si(3)	C(1)	C(2)	110.8(1)
C(8)	Si(3)	C(10)	102.9(1)	C(1)	C(2)	C(3)	108.9(1)
C(9)	Si(3)	C(10)	107.8(1)	C(2)	C(3)	C(4)	109.6(1)
C(4)	Si(4)	C(11)	111.78(9)	Si(1)	C(4)	Si(4)	115.39(9)
C(4)	Si(4)	C(12)	112.7(1)	Si(1)	C(4)	Si(5)	104.26(8)
C(4)	Si(4)	C(13)	111.43(9)	Si(1)	C(4)	C(3)	106.2(1)
C(11)	Si(4)	C(12)	106.7(1)	Si(4)	C(4)	Si(5)	110.34(9)
C(11)	Si(4)	C(13)	104.5(1)	Si(4)	C(4)	C(3)	110.1(1)
C(12)	Si(4)	C(13)	109.3(1)	Si(5)	C(4)	C(3)	110.4(1)
C(4)	Si(5)	C(14)	110.62(9)				

Table 5. Intramolecular Bond Angles Involving hydrogen atoms for $C_{14}H_{40}Si_5$

atom	atom	atom	angle	atom	atom	atom	angle
C(1)	C(2)	H(1)	111(1)	H(7)	C(7)	H(29)	104(2)
C(1)	C(2)	H(2)	111(1)	H(28)	C(7)	H(29)	105(3)
C(3)	C(2)	H(1)	108(1)	Si(3)	C(8)	H(24)	110(2)
C(3)	C(2)	H(2)	112(1)	Si(3)	C(8)	H(25)	116(2)
H(1)	C(2)	H(2)	106(2)	Si(3)	C(8)	H(40)	112(2)
C(2)	C(3)	H(3)	113(1)	H(24)	C(8)	H(25)	104(2)
C(2)	C(3)	H(4)	107(1)	H(24)	C(8)	H(40)	107(2)
C(4)	C(3)	H(3)	111(1)	H(25)	C(8)	H(40)	107(2)
C(4)	C(3)	H(4)	111(1)	Si(3)	C(9)	H(10)	117(2)
H(3)	C(3)	H(4)	105(2)	Si(3)	C(9)	H(36)	112(2)
Si(2)	C(5)	H(9)	114(1)	Si(3)	C(9)	H(37)	109(2)
Si(2)	C(5)	H(38)	110(2)	H(10)	C(9)	H(36)	104(3)
Si(2)	C(5)	H(39)	108(2)	H(10)	C(9)	H(37)	100(3)
H(9)	C(5)	H(38)	109(2)	H(36)	C(9)	H(37)	114(3)
H(9)	C(5)	H(39)	106(2)	Si(3)	C(10)	H(5)	115(2)
H(38)	C(5)	H(39)	109(2)	Si(3)	C(10)	H(6)	107(2)
Si(2)	C(6)	H(8)	110(2)	Si(3)	C(10)	H(23)	112(2)
Si(2)	C(6)	H(26)	112(2)	H(5)	C(10)	H(6)	108(2)
Si(2)	C(6)	H(27)	115(2)	H(5)	C(10)	H(23)	105(2)
H(8)	C(6)	H(26)	104(2)	H(6)	C(10)	H(23)	110(2)
H(8)	C(6)	H(27)	110(2)	Si(4)	C(11)	H(16)	113(2)
H(26)	C(6)	H(27)	105(2)	Si(4)	C(11)	H(17)	109(2)
Si(2)	C(7)	H(7)	110(2)	Si(4)	C(11)	H(30)	114(2)
Si(2)	C(7)	H(28)	112(2)	H(16)	C(11)	H(17)	110(2)
Si(2)	C(7)	H(29)	118(2)	H(16)	C(11)	H(30)	104(2)
H(7)	C(7)	H(28)	106(2)	H(17)	C(11)	H(30)	107(2
Si(4)	C(12)	H(18)	114(2)	Si(5)	C(16)	H(41)	117(2)
Si(4)	C(12)	H(31)	112(2)	H(19)	C(16)	H(20)	100(2)
Si(4)	C(12)	H(32)	107(2)	H(19)	C(16)	H(41)	109(3)
H(18)	C(12)	H(31)	105(3)	H(20)	C(16)	H(41)	110(3)
H(18)	C(12)	H(32)	102(2)	H(31)	C(12)	H(32)	117(2)
Si(4)	C(13)	H(14)	111(2)	Si(4)	C(13)	H(15)	111(2)
Si(4)	C(13)	H(35)	114(2)	H(14)	C(13)	H(15)	106(2)
H(14)	C(13)	H(35)	109(2)	H(15)	C(13)	H(35)	105(2)
Si(5)	C(14)	H(12)	109(2)	Si(5)	C(14)	H(21)	112(2)
Si(5)	C(14)	H(22)	115(2)	H(12)	C(14)	H(21)	105(2)
H(12)	C(14)	H(22)	108(2)	H(21)	C(14)	H(22)	108(2)
Si(5)	C(15)	H(13)	115(2)	Si(5)	C(15)	H(33)	109(2)
Si(5)	C(15)	H(34)	108(2)	H(13)	C(15)	H(33)	108(2)
H(13)	C(15)	H(34)	109(2)	H(33)	C(15)	H(34)	108(2)
Si(5)	C(16)	H(19)	112(2)	Si(5)	C(16)	H(20)	107(2)

Table 6. Intramolecular Torsional Angles Involving the nonhydrogen atoms for $C_{14}H_{40}Si_5$

(1)	(2)	(3)	(4)	angle	(1)	(2)	(3)	(4)	angle
Si(1)	C(1)	Si(2)	C(5)	-80.2(1)	Si(4)	C(4)	Si(5)	C(14)	157.2(1)
Si(1)	C(1)	Si(2)	C(6)	155.3(1)	Si(4)	C(4)	Si(5)	C(15)	39.4(1)
Si(1)	C(1)	Si(2)	C(7)	38.8(1)	Si(4)	C(4)	Si(5)	C(16)	-85.3(1)
Si(1)	C(1)	Si(3)	C(8)	157.9(1)	Si(4)	C(4)	C(3)	C(2)	-93.6(1)
Si(1)	C(1)	Si(3)	C(9)	34.8(1)	Si(5)	C(4)	Si(1)	C(1)	-126.87(8)
Si(1)	C(1)	Si(3)	C(10)	-87.0(1)	Si(5)	C(4)	Si(4)	C(11)	160.0(1)
Si(1)	C(1)	C(2)	C(3)	33.6(2)	Si(5)	C(4)	Si(4)	C(12)	-79.8(1)
Si(1)	C(4)	Si(4)	C(11)	-82.1(1)	Si(5)	C(4)	Si(4)	C(13)	43.5(1)
Si(1)	C(4)	Si(4)	C(12)	38.0(1)	Si(5)	C(4)	C(3)	C(2)	144.4(1)
Si(1)	C(4)	Si(4)	C(13)	161.3(1)	C(1)	Si(1)	C(4)	C(3)	-10.3(1)
Si(1)	C(4)	Si(5)	C(14)	32.7(1)	C(1)	C(2)	C(3)	C(4)	-43.5(2)
Si(1)	C(4)	Si(5)	C(15)	-85.1(1)	C(2)	C(1)	Si(1)	C(4)	-12.8(1)
Si(1)	C(4)	Si(5)	C(16)	150.3(1)	C(2)	C(1)	Si(2)	C(5)	166.5(1)
Si(1)	C(4)	C(3)	C(2)	32.0(2)	C(2)	C(1)	Si(2)	C(6)	42.0(2)
Si(2)	C(1)	Si(1)	C(4)	-129.90(8)	C(2)	C(1)	Si(2)	C(7)	-74.5(1)
Si(2)	C(1)	Si(3)	C(8)	41.5(1)	C(2)	C(1)	Si(3)	C(8)	-82.1(1)
Si(2)	C(1)	Si(3)	C(9)	-81.6(1)	C(2)	C(1)	Si(3)	C(9)	154.7(1)
Si(2)	C(1)	Si(3)	C(10)	156.6(1)	C(2)	C(1)	Si(3)	C(10)	33.0(2)
Si(2)	C(1)	C(2)	C(3)	145.3(1)	C(3)	C(4)	Si(4)	C(11)	38.0(2)
Si(3)	C(1)	Si(1)	C(4)	109.8(1)	C(3)	C(4)	Si(4)	C(12)	158.1(1)
Si(3)	C(1)	Si(2)	C(5)	43.1(1)	C(3)	C(4)	Si(4)	C(13)	-78.6(1)
Si(3)	C(1)	Si(2)	C(6)	-81.4(1)	C(3)	C(4)	Si(5)	C(14)	-80.9(2)
Si(3)	C(1)	Si(2)	C(7)	162.1(1)	C(3)	C(4)	Si(5)	C(15)	161.2(1)
Si(3)	C(1)	C(2)	C(3)	-91.6(1)	C(3)	C(4)	Si(5)	C(16)	36.6(2)
Si(4)	C(4)	Si(1)	C(1)	112.0(1)					

The sign is positive if when looking from atom 2 to atom 3 a clockwise motion of atom 1 would superimpose it on atom 4.

Table 7. Special Contacts Involving the Nonhydrogen Atoms

atom	atom	distance	ADC(*)	atom	atom	distance	ADC(*)
Si(1)	Si(1)	7.210(1)	4	Si(1)	Si(1)	7.486(1)	65703
Si(1	Si(1)	7.210(1)	45504				

Contacts out to10.00 angstroms. Estimated standard deviations in the least significant figure are given in parentheses.

(*)footnote

The ADC (atom designator code) specifies the position of an atom in a crystal. The 5-digit number shown in the table is a composite of three one digit numbers and one two digit number: TA(1st digit) + TB(2nd digit) + TC(3rd digit) + SN(4th and 5th digit). TA, TB, & TC are the crystal lattice translation digits along cell edges a, b, and c. A translation digit of 5 indicates the origin unit cell. If TA=4, this indicates a translation of one unit cell length along the a axis in the negative direction. Each translation digit can range in value from 1 to 9 and thus (+/-)4 lattice translations from the origin (TA=5,TB=5,TC=5) can be represented. The SN or symmetry operator number refers to the number of the symmetry operator used to generate the coordinates of the target atom. A list of the symmetry operators relevant to this structure are given below. For a given intermolecular contact, the first atom (origin atom) is located in the origin unit cell (TA=5,TB=5,TC=5) and its position can be generated using the identity operator (SN=1). Thus, the ADC for an origin atom is always ADC=55501. The position of the second atom (target atom) can be generated using the ADC and the coordinates of that atom in the parameter table. For example, an ADC of 47502 refers to the target atom moved through operator two, then translated -1 cell translations along the a axis, +2 cell translations along the b axis, and 0 cell translations along the c axis. An ADC of 1 indicates an intermolecular contact between two fragments (i.e.cation and anion) that reside in the same asymmetric unit.

Symmetry Operators:

(1)	+X,	+Y,	+Z	(2)	1/2-X, 1/2+Y, -Z
(3)	-X,	-Y,	-Z	(4)	1/2+X, 1/2-Y, +Z

Table 8. Anisotropic Displacement Parameters

atom	U11	U22	U33	U12	U13	U23
Si(1)	0.0214(2)	0.0219(2)	0.0192(2)	-0.0023(2)	0.0086(2)	-0.0023(2)
Si(2)	0.0242(2)	0.0265(3)	0.0181(2)	-0.0017(2)	0.0056(2)	-0.0015(2)
Si(3)	0.0279(3)	0.0191(2)	0.0228(2)	-0.0004(2)	0.0084(2)	0.0003(2)
Si(4)	0.0230(2)	0.0186(2)	0.0264(2)	0.0000(2)	0.0072(2)	0.0000(2)
Si(5)	0.0232(2)	0.0260(2)	0.0188(2)	-0.0017(2)	0.0063(2)	-0.0020(2)
C(1)	0.0231(8)	0.0200(8)	0.0185(7)	-0.0014(6)	0.0084(6)	-0.0008(6)
C(2)	0.0252(8)	0.0221(8)	0.0204(8)	-0.0005(7)	0.0109(7)	0.0000(7)
C(3)	0.0227(8)	0.0205(8)	0.0232(8)	-0.0012(7)	0.0108(7)	-0.0005(7)
C(4)	0.0213(8)	0.0183(8)	0.0191(7)	-0.0002(6)	0.0074(6)	-0.0014(6)
C(5)	0.030(1)	0.038(1)	0.029(1)	-0.0066(9)	0.0083(9)	-0.0039(9)
C(6)	0.040(1)	0.045(1)	0.0216(9)	-0.004(1)	0.0104(9)	-0.0042(9)
C(7)	0.033(1)	0.037(1)	0.033(1)	0.0050(9)	0.0050(9)	0.0031(9)
C(8)	0.050(1)	0.027(1)	0.034(1)	0.0062(10)	0.010(1)	-0.0060(9)
C(9)	0.043(1)	0.032(1)	0.035(1)	-0.0056(10)	0.017(1)	0.0061(9)
C(10)	0.033(1)	0.028(1)	0.039(1)	0.0041(8)	0.0089(9)	0.0057(9)
C(11)	0.039(1)	0.0259(10)	0.030(1)	-0.0014(9)	0.0074(9)	0.0063(8)
C(12)	0.033(1)	0.032(1)	0.051(1)	0.0061(9)	0.017(1)	-0.001(1)
C(13)	0.034(1)	0.0240(10)	0.036(1)	-0.0058(8)	0.0092(9)	-0.0004(8)
C(14)	0.055(2)	0.038(1)	0.026(1)	-0.005(1)	0.010(1)	0.0052(9)
C(15)	0.034(1)	0.045(1)	0.026(1)	-0.0002(10)	0.0123(9)	-0.0075(9)
C(16)	0.0248(10)	0.051(1)	0.028(1)	-0.0003(10)	0.0044(8)	-0.0033(10)

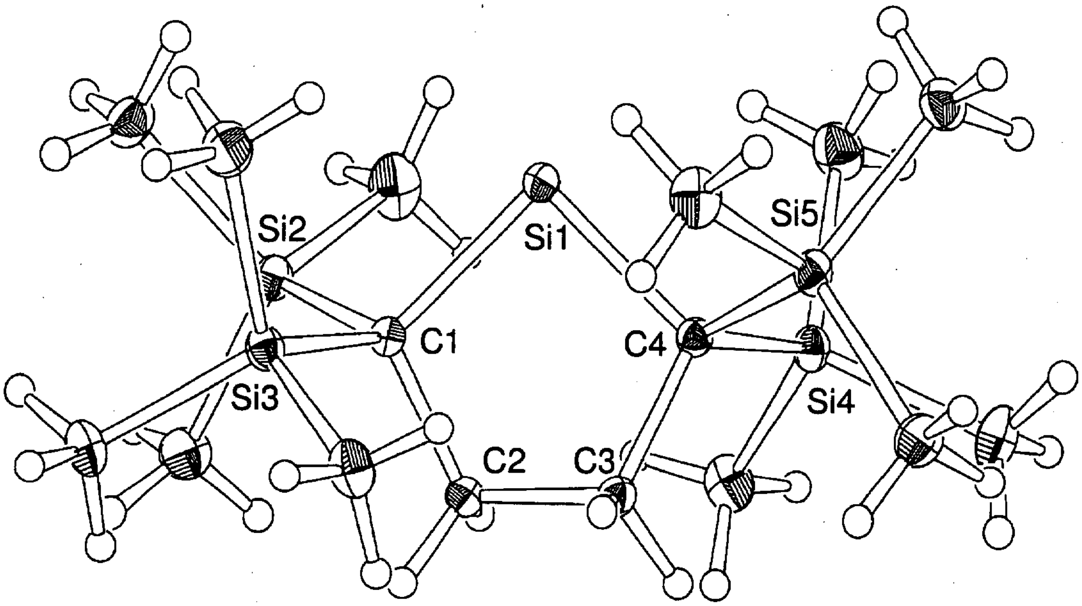

Figure S1. ORTEP drawing of silylene **1** (top view).

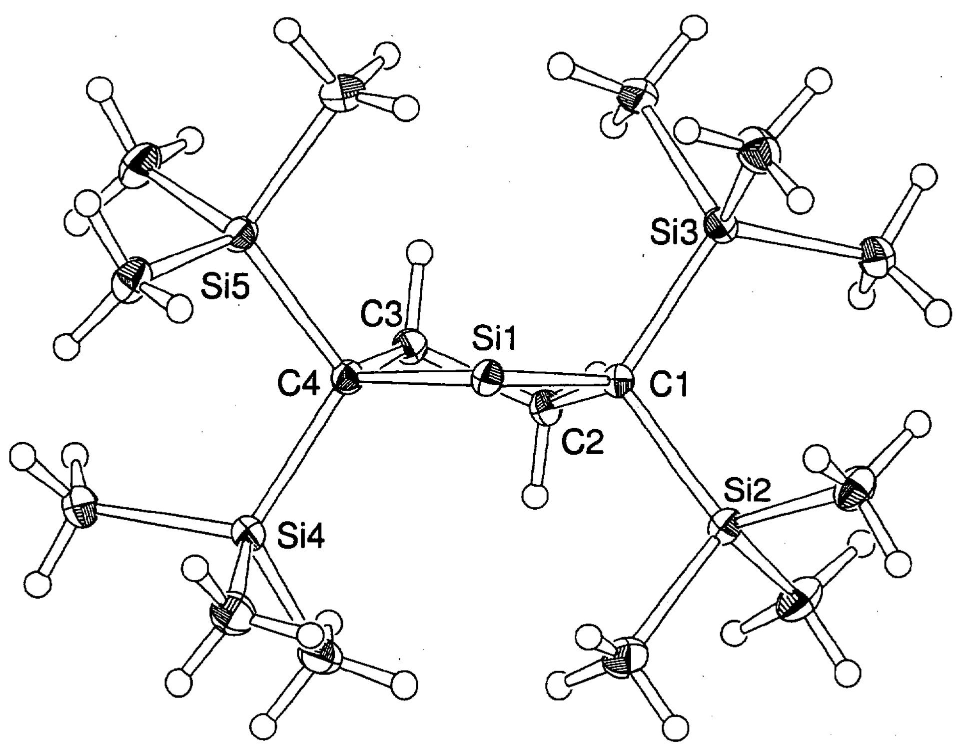

Figure S2. ORTEP Drawing of Silylene **1** (side view).

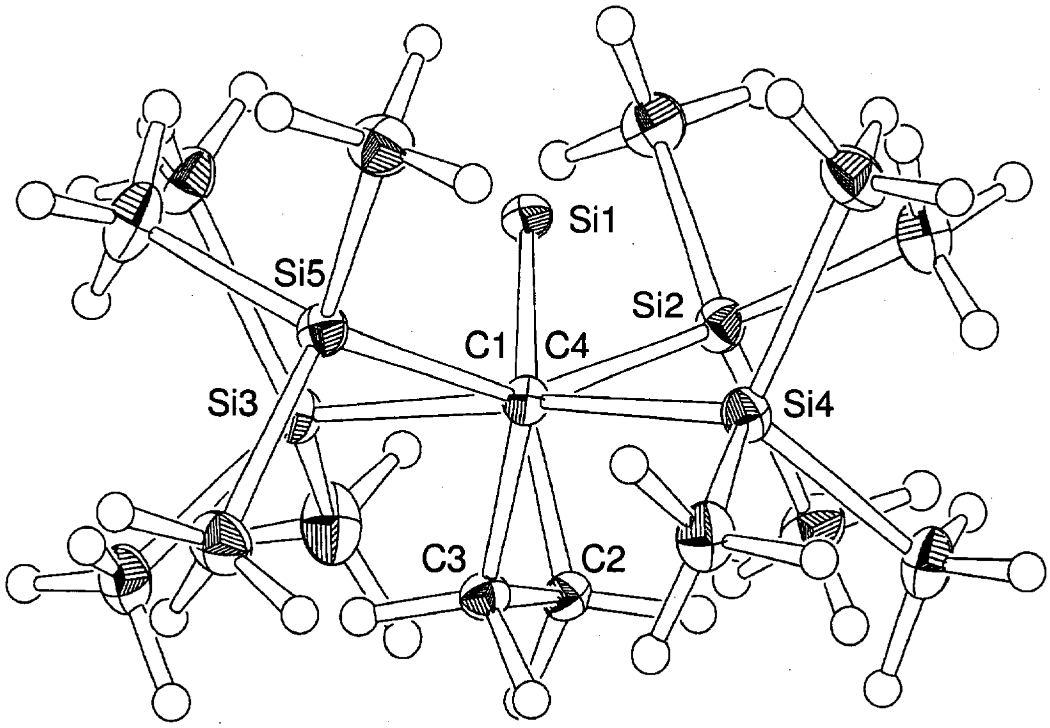

Figure S3. ORTEP drawing of silylene **1** along C1-C4 axis.

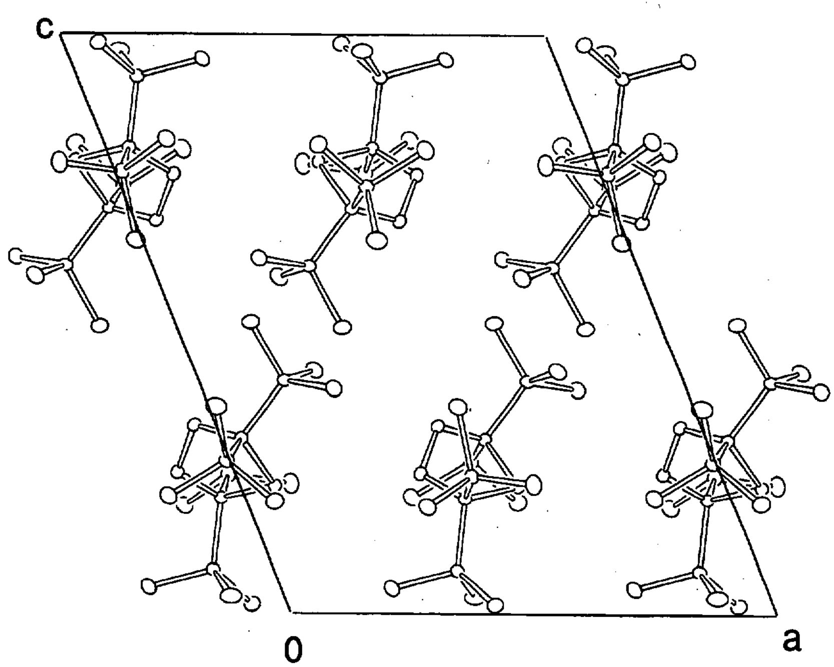

Figure S4. Crystal Packing along the b axis.

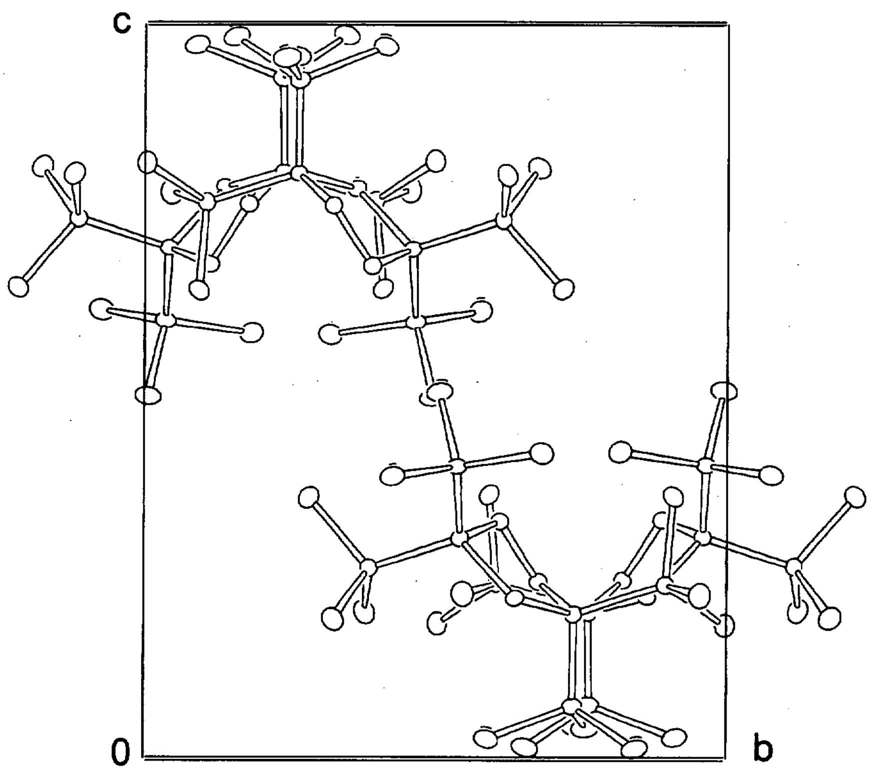

Figure S5. Crystal Packing along the a axis.

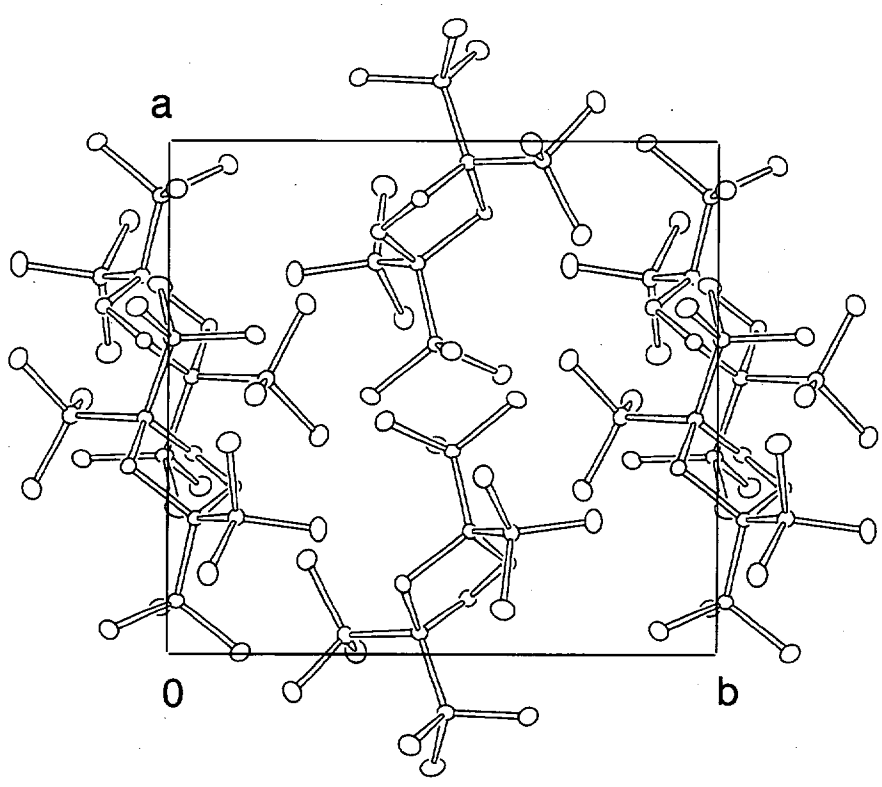

Figure S6. Crystal Packing along the c axis.

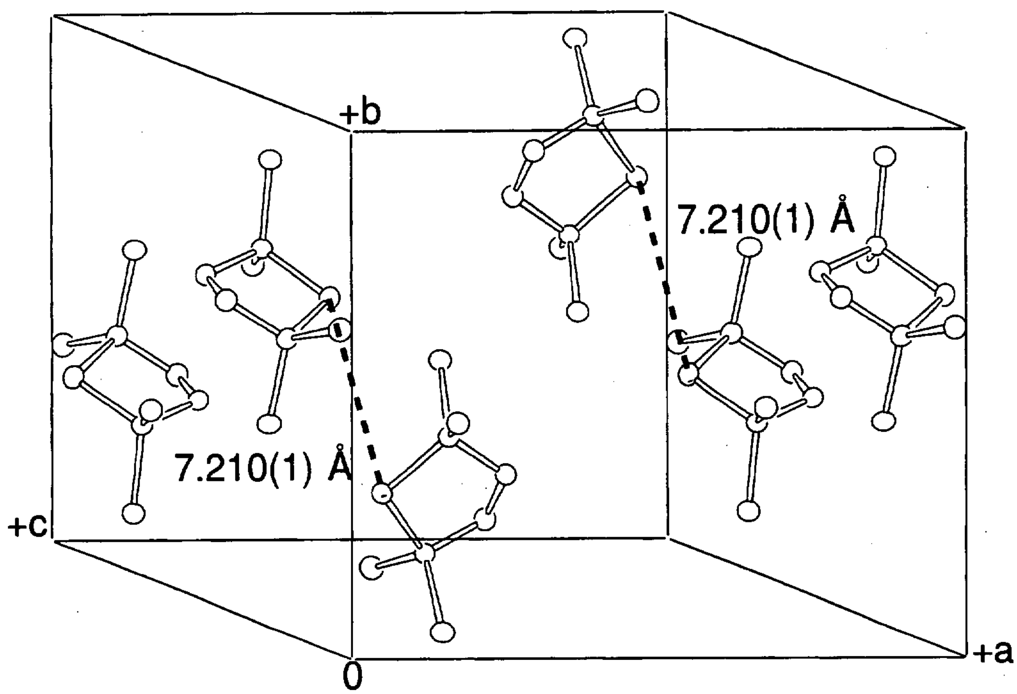

Figure S7. Special Contacts between Silicon Atoms.

2. UV-vis spectrum of **1** in hexane

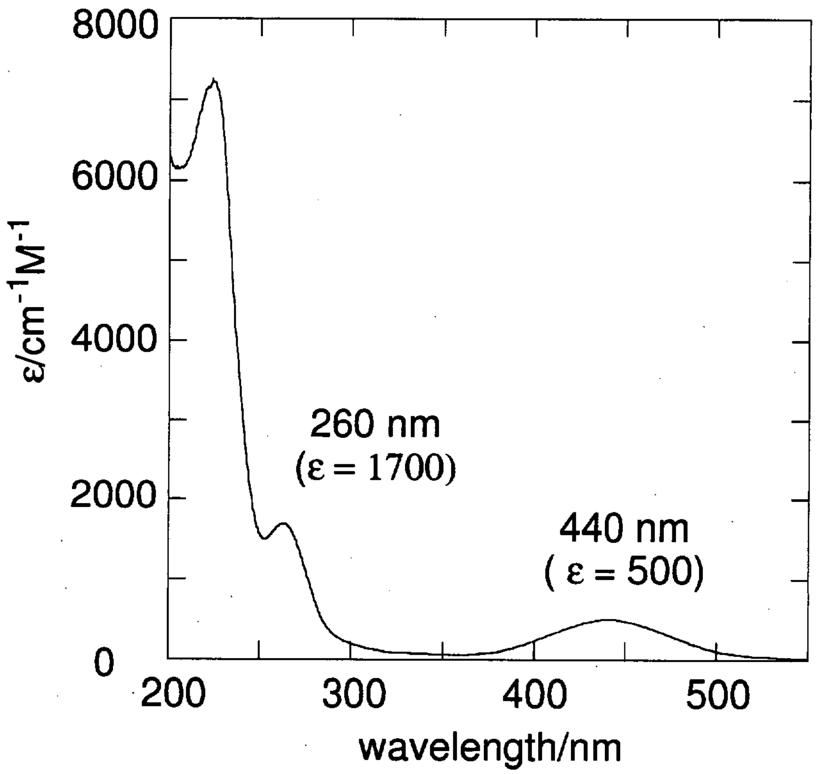

Figure S8. UV-vis spectrum of silylene **1** in hexane at room temperature.