

Stereodivergent sila-germylenation vs sila-stannylenation of an internal alkyne

V. S. Ajithkumar,^{ab} Pratiksha B. Ghanwat,^{ab} Sougata Saha,^c Swapan K Pati,^{*c} and Sakya S.

Sen^{*ab}

^aInorganic Chemistry and Catalysis Division, CSIR-National Chemical Laboratory, Dr. Homi Bhabha Road, Pashan, Pune 411008, India.

^bAcademy of Scientific and Innovative Research (AcSIR), Ghaziabad-201002, India.

^cTheoretical Sciences Unit, School of Advanced Materials (SAMat), Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore-560064, India.

Content

- ❖ NMR data of [PhC(NtBu)₂]Ge{CCO₂Me}₂Si(SiMe₃)₃] (**3_{cis}**).
- ❖ NMR data of [PhC(NtBu)₂]Sn{CCO₂Me}₂Si(SiMe₃)₃] (**4_{trans}**).
- ❖ Crystallographic data for the structural analysis of compounds **3_{cis}** and **4_{trans}**
- ❖ Details of theoretical calculations
- ❖ VT-NMR
- ❖ References

General Experimental Information. All experiments were carried out under argon atmosphere using Schlenk techniques or inside a MBRAUN or VTPL glove box. THF was purified by MBRAUN solvent purification system MB SPS-800 and stored over activated 4 Å molecular sieves prior to use. Benzene-d₆ was distilled over Na/benzophenone and stored over activated 4 Å molecular sieves prior to use. The precursors, [PhC(NtBu)₂ESi(SiMe₃)₃] [E = Ge(**1**) and E = Sn(**2**)]^{S1} were synthesized by previously reported literature procedures. Chemicals purchased from Sigma Aldrich and TCI Chemicals were used without further purification. The ¹H, ¹³C, and ²⁹Si NMR spectra were recorded in C₆D₆ using a Bruker Advance DPX 200 or a Bruker Advance DRX 400 or 500 spectrometers. NMR spectra were referenced to external SiMe₄ (¹H, ¹³C, ²⁹Si) and SnMe₄ (¹¹⁹Sn) respectively. Melting points were measured in a sealed glass tube using Stuart SMP-30 melting point apparatus and are uncorrected. High resolution mass spectra (HRMS) were obtained using a Q Exactive Thermo Scientific.

Synthesis of compound **3_{cis}.** To a THF (5 mL) solution of **1** (0.150 g, 0.27 mmol), dimethyl acetylenedicarboxylate (0.038 g, 0.27 mmol) dissolved in THF (5 mL) was added drop by drop via a cannula at -78 °C. Upon addition, the solution turned red in color. The reaction mixture was allowed to reach room temperature slowly and stirred further for 6 hr. Subsequently the solution was filtered through a celite pad and the resulting filtrate was concentrated to get red crystals of **3**_{cis} (0.181 g, 96 %). Mp: 109 °C.

¹H NMR (400 MHz, C₆D₆, 298 K): δ 7.52-7.51 (d, 1H, *Ph*), δ 7.10-7.09 (d, 1H, *Ph*), δ 7.03-6.96 (m, 3H, *Ph*), δ 3.51 (s, 3H, GeCCOOMe), δ 3.42 (s, 3H, CCOOMeSi), δ 1.10 (s, 18H, *tBu*), δ 0.54 (s, 27H, SiMe₃) ppm;

¹³C{¹H} NMR (100.5 MHz, C₆D₆, 298 K): δ 172.4 (GeCCOOMe), δ 169.1 (COOMeSi), δ 167.4 (GeC=C), δ 164.7 (GeC=C), δ 144.6 (NCN), δ 133.4 (*Ph*), δ 128.3 (*Ph*), δ 126.5 (*Ph*), δ 50.5 (CMe₃), δ 48.5 (GeCCOOMe), δ 47.4 (CCOOMeSi), δ 28.8 (CMe₃), δ 0.22 (SiMe₃) ppm;

²⁹Si{¹H} NMR (79.49 MHz, C₆D₆, 298 K): δ -12.13 {s, Si(SiMe₃)₃}, δ -74.97 {s, Si(SiMe₃)₃} ppm.

HRMS (CH₃CN): m/z calcd for C₃₀H₅₆N₂O₄Si₄Ge [M+H]⁺, 694.25; found, 694.6173.

Elemental analysis: C₃₀H₅₆N₂O₄Si₄Ge; Calculated: C, 51.94; H, 8.14; N, 4.04; Found: C, 51.63; H, 7.99; N, 3.92.

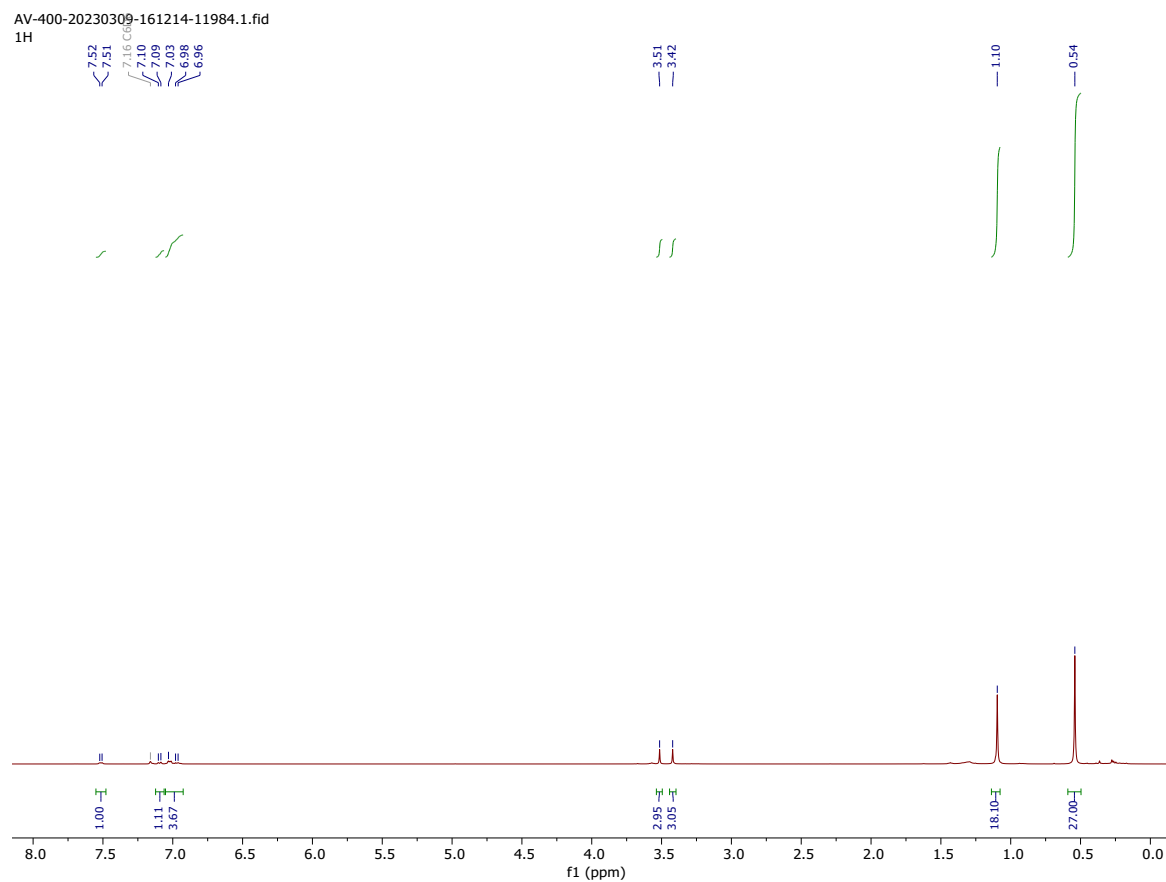


Figure S1. ¹H NMR Spectrum of **3_{cis}** (C₆D₆, 400 MHz, 298 K)

AV-400-20230309-161214-11984.3.fid
13 C

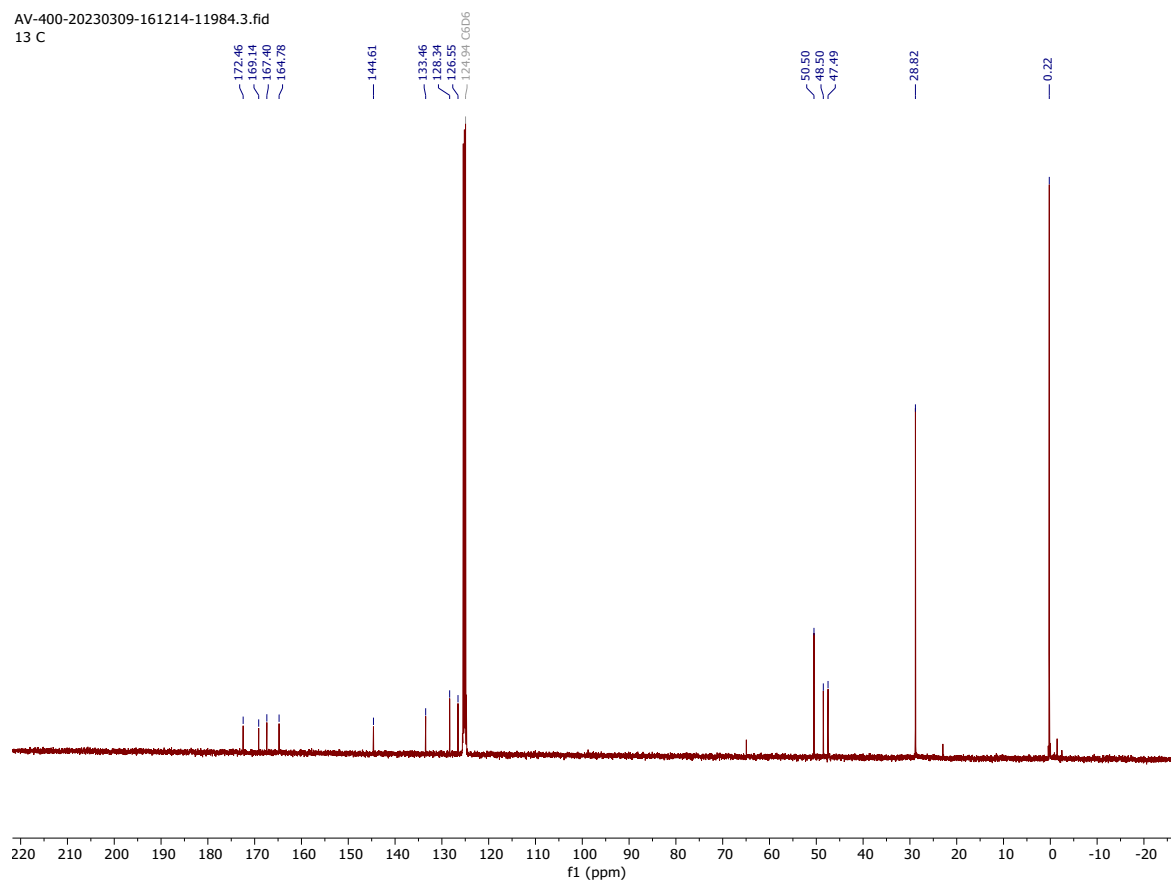


Figure S2. ¹³C NMR Spectrum of **3_{cis}** (C₆D₆, 100.61 MHz, 298 K)

AV-400-20230309-161214-11984
29 Si

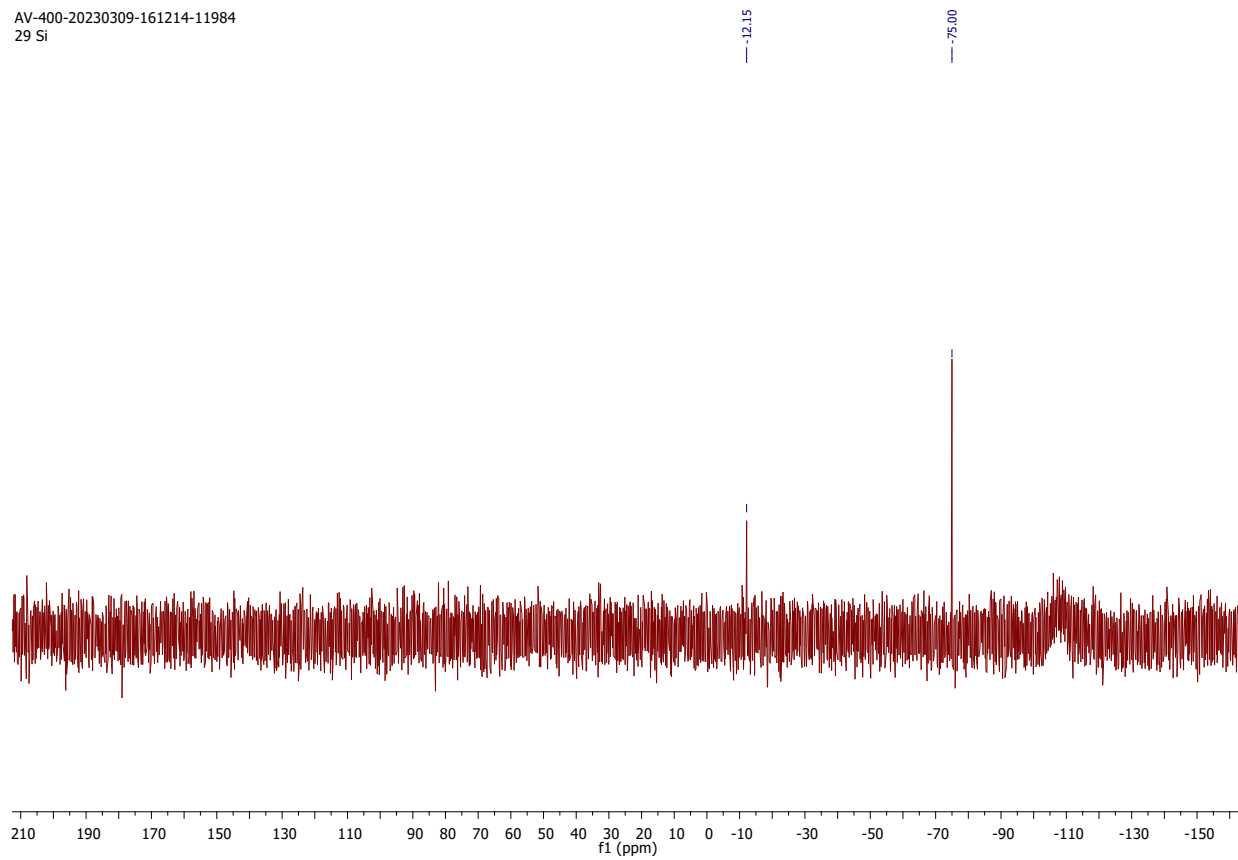


Figure S3. ^{29}Si NMR Spectrum of $\mathbf{3}_{cis}$ (C_6D_6 , 79.49 MHz, 298 K).

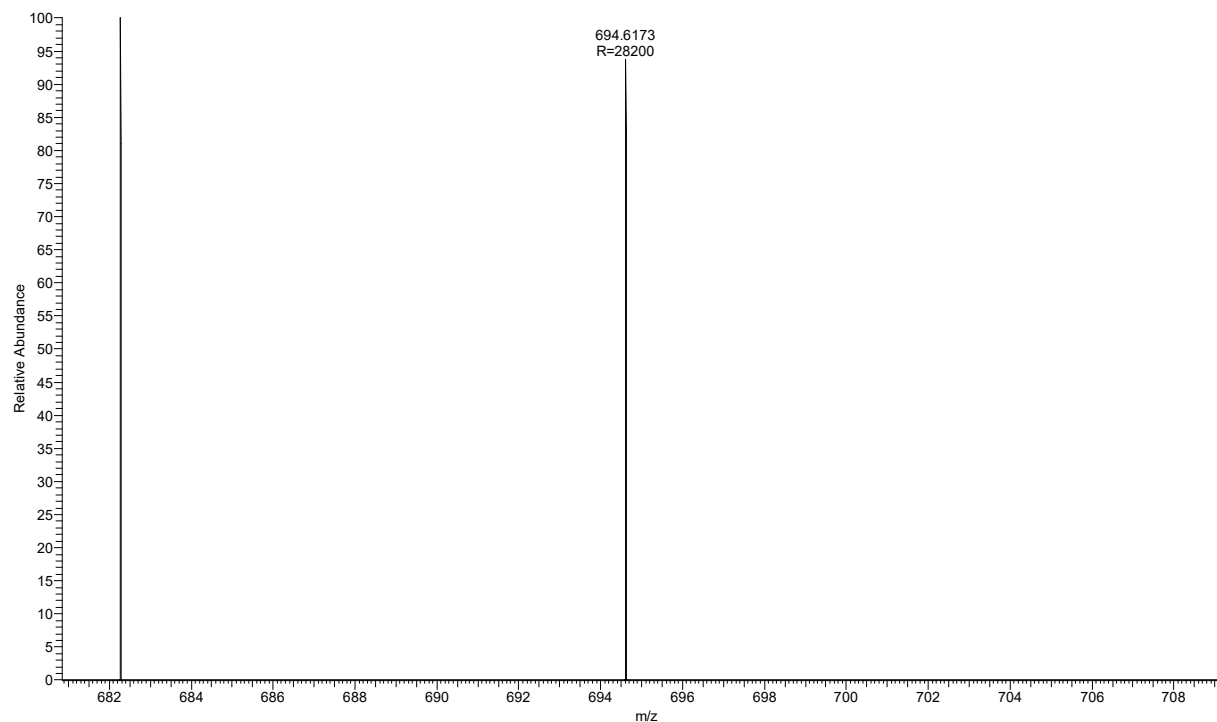


Figure S4. HRMS Spectrum of **3_{cis}**

Synthesis of compound 4_{trans}. To a THF (5 mL) solution of **2** (0.150 g, 0.25 mmol), dimethyl acetylenedicarboxylate (0.035 g, 0.25 mmol) dissolved in THF (5 mL) was added drop by drop via a cannula at $-78\text{ }^{\circ}\text{C}$. Upon addition, the solution turned dark red in color. The reaction mixture was allowed to reach room temperature slowly and stirred further for 6 hr. Subsequently the solution was filtered through a celite pad and the resulting filtrate was concentrated to get red crystals of **4_{trans}** (0.130 g, 70 %). Mp: $70\text{ }^{\circ}\text{C}$.

^1H NMR (400 MHz, C_6D_6 , 298 K): δ 7.66-7.64 (d, 1H, *Ph*), 7.11-7.09 (m, 1H, *Ph*), 7.03-6.96 (m, 3H, *Ph*), δ 3.74 (s, 3H, SnCCOOMe), δ 3.50 (s, 3H, COOMeSi), 1.06 (s, 18H, *tBu*), 0.41 (s, 27H, SiMe₃) ppm;

$^{13}\text{C}\{^1\text{H}\}$ NMR (100.66 MHz, C_6D_6 , 298 K): 174.4 (SnCCOOMe), δ 172.9 (COOMeSi), 171.9 (SnC=C), 171.0 (SnC=C), 153.0 (NCN), 141 (Ph), 139.7 (Ph), 131.0 (Ph), 53.0 (CMe₃), 52.5

(CMe₃), 51.7 (CMe₃), 50.8 (SnCCOOMe), 50.2 (CCOOMeSi), 32.6 (CMe₃), 29.2 (CMe₃), 2.6 (SiMe₃), 1.4 (SiMe₃), 0.5 (SiMe₃) ppm;

²⁹Si{¹H} NMR (79.49 MHz, C₆D₆, 298 K): -11.4 {s, Si(SiMe₃)₃}, -76.9 {s, Si(SiMe₃)₃} ppm.

¹¹⁹Sn{¹H} NMR (149.21 MHz, C₆D₆, 298 K): 0.66 ppm.

HRMS (CH₃CN): m/z calcd for C₃₀H₅₆N₂O₄Si₄Sn [M+H]⁺, 740.23; found, 741.2376.

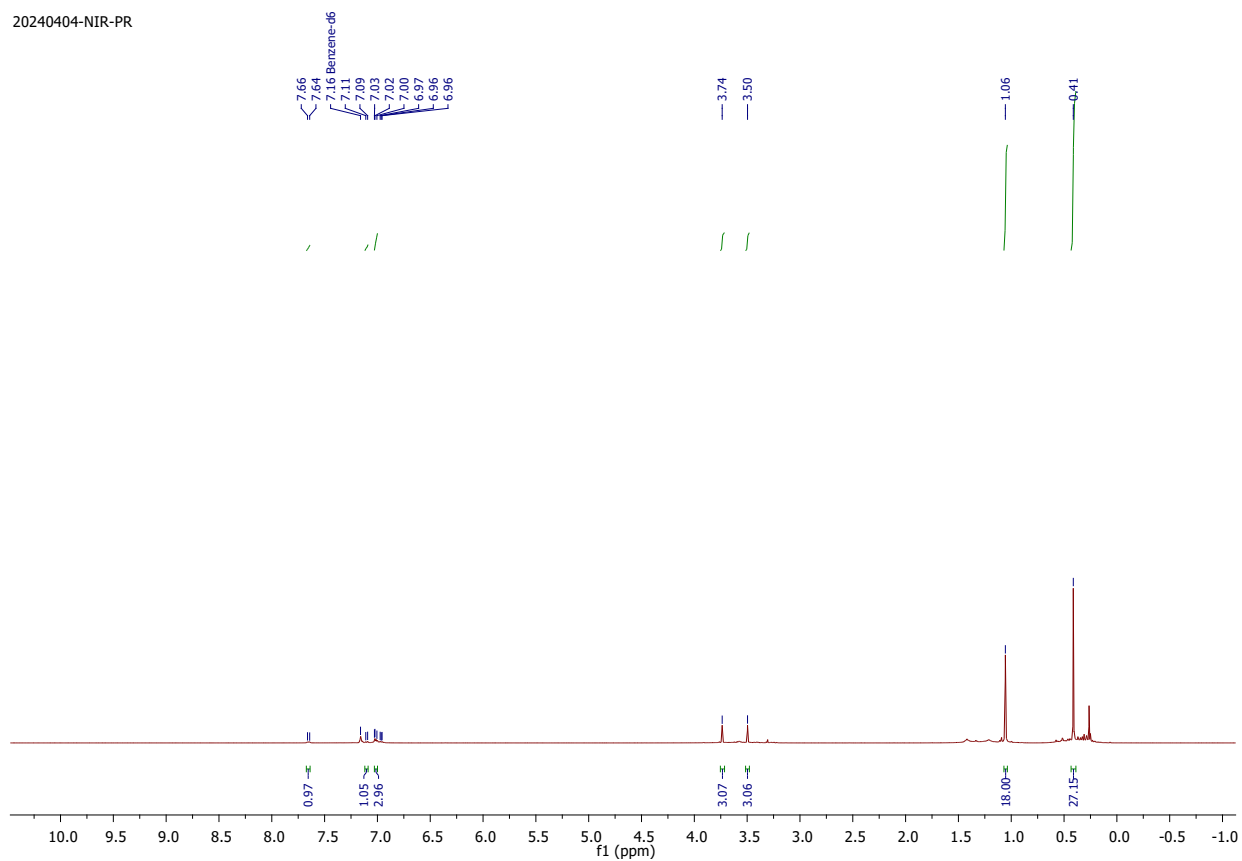


Figure S5. ¹H NMR Spectrum of **4_{trans}** (C₆D₆, 400 MHz, 298 K)

20240404-NIR-PR

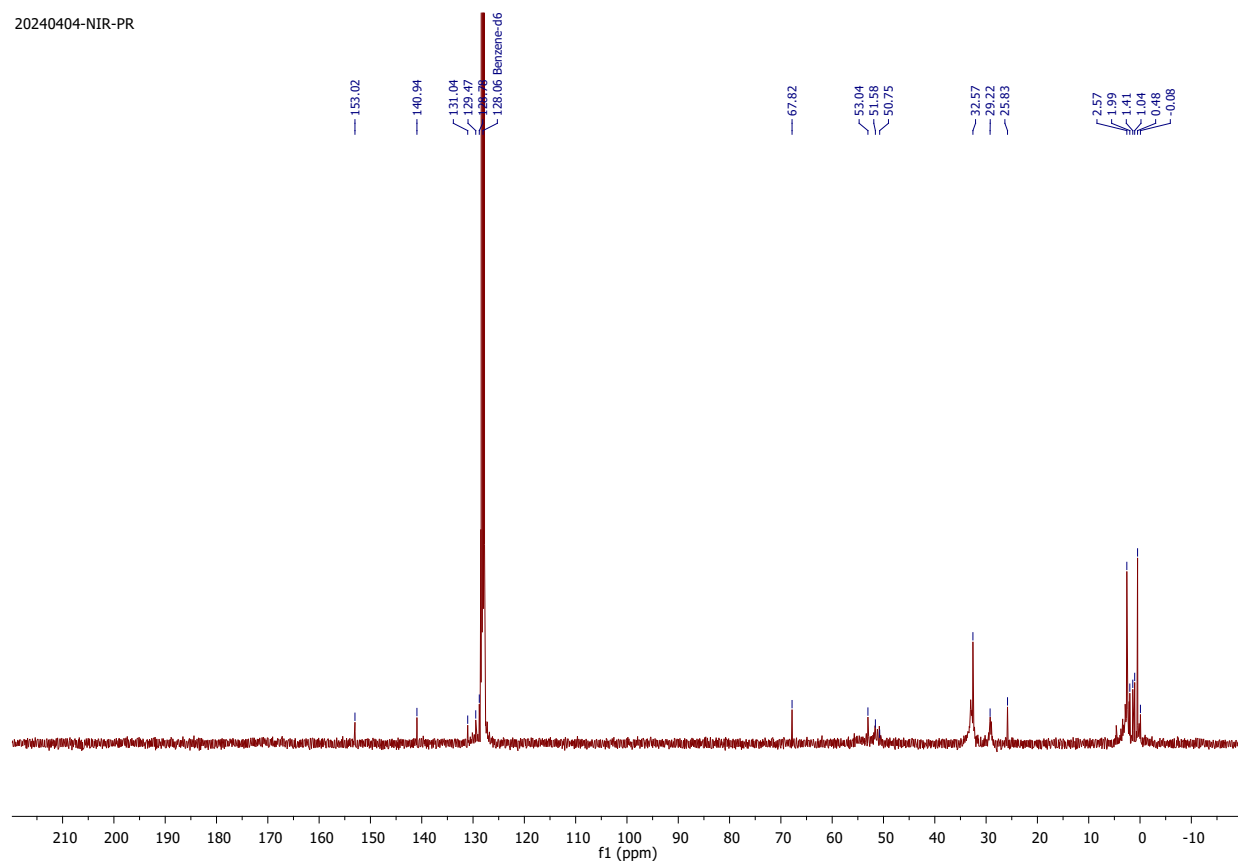


Figure S6. ^{13}C NMR Spectrum of **4_{trans}** (C_6D_6 , 100.61 MHz, 298 K)

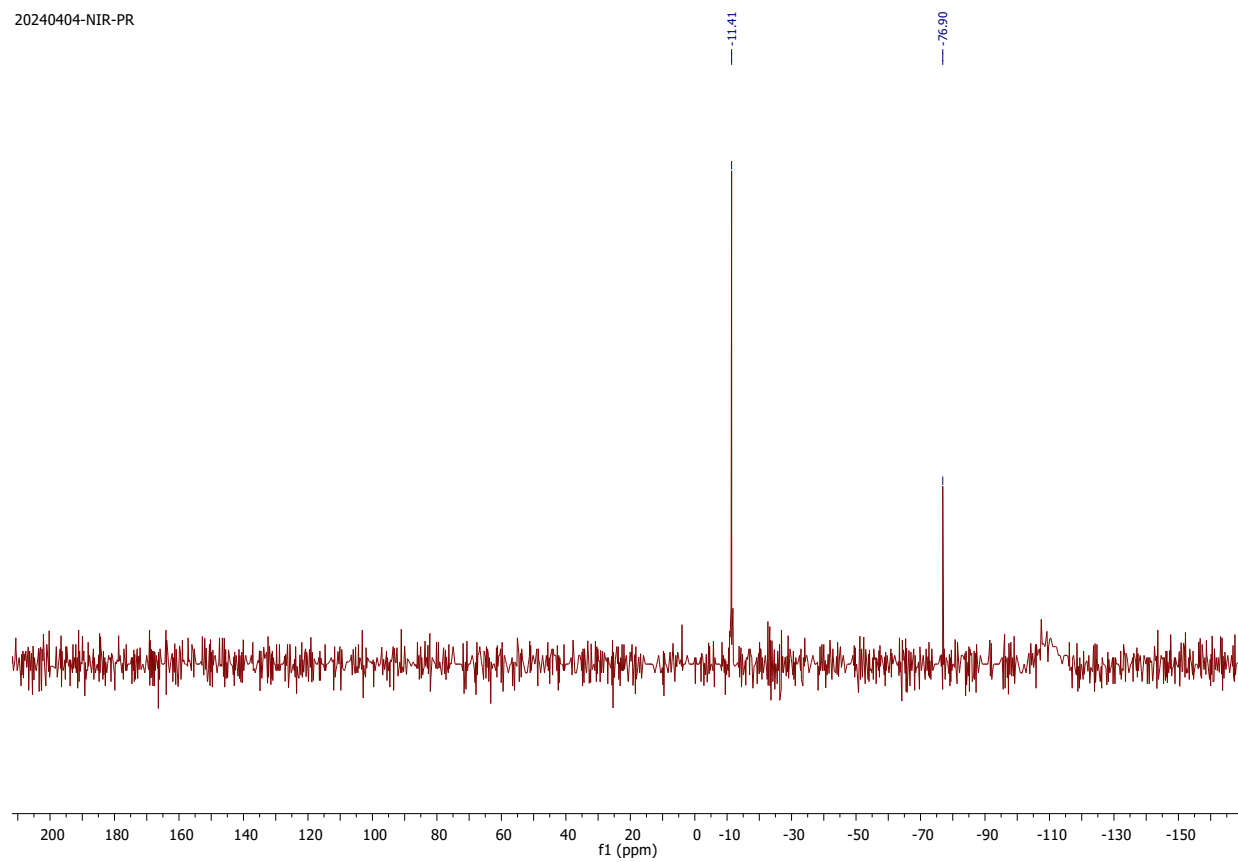


Figure S7. ^{29}Si NMR Spectrum of **4***trans* (C_6D_6 , 79.49 MHz, 298 K)

AV-400-20240427-104254-45272
SN 119

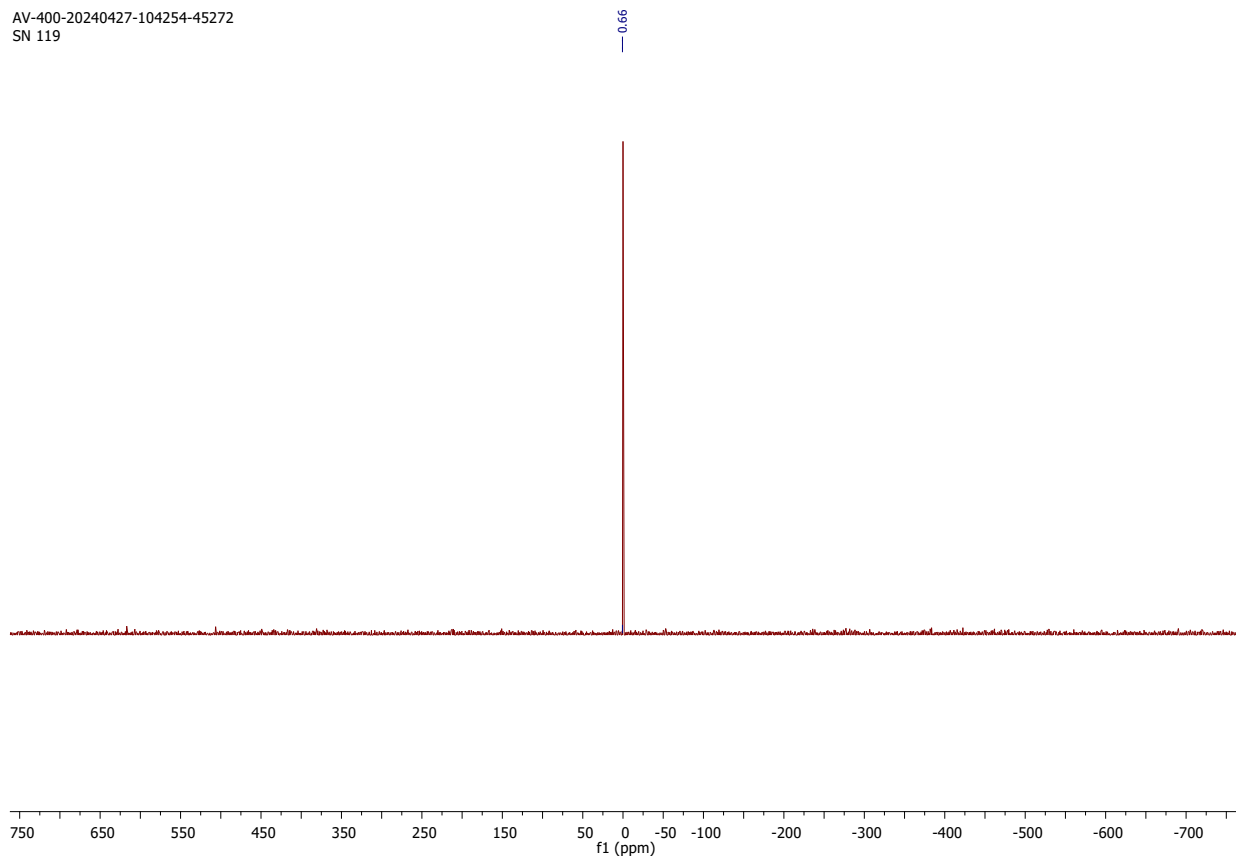


Figure S8. ^{119}Sn NMR Spectrum of **4**_{trans} (C_6D_6 , 149.21 MHz, 298 K)

AJ-2_240417112510 #929 RT: 5.00 AV: 1 NL: 1.61E4
T: FTMS + p ESI Full ms [100.0000-1500.0000]

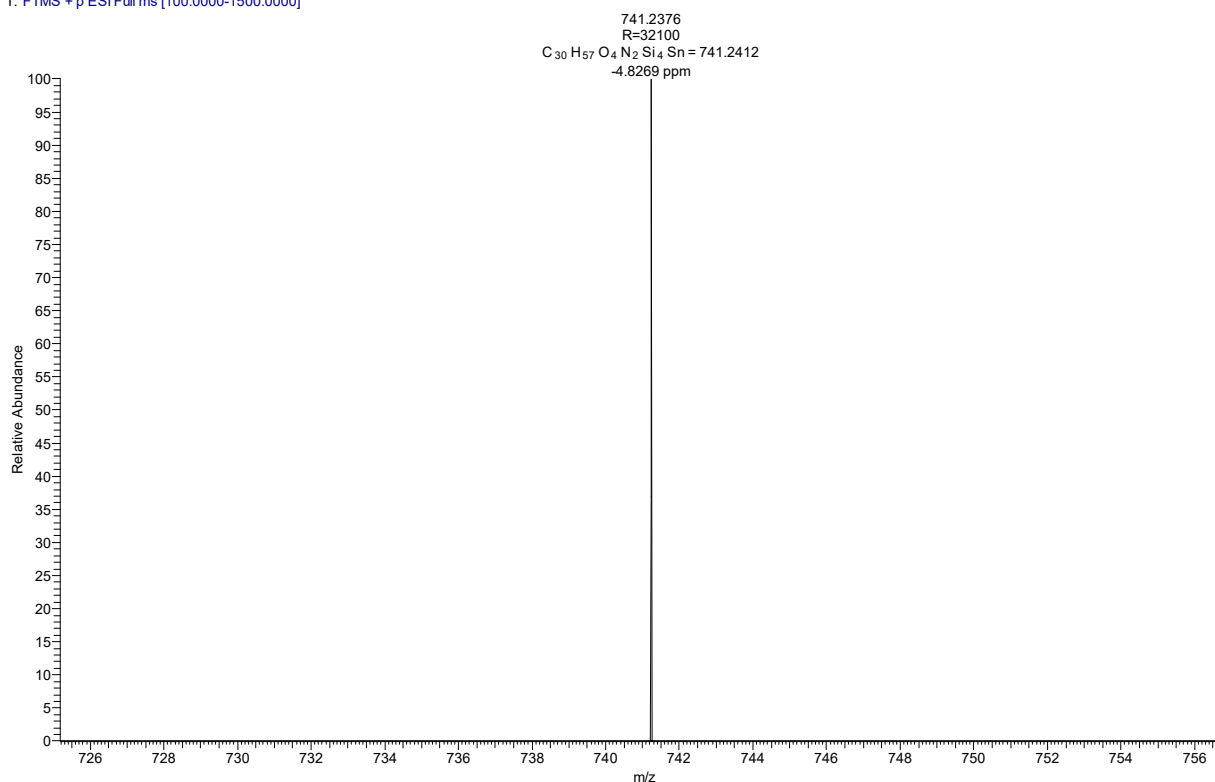


Figure S9. HRMS Spectrum of **4_{trans}**

Crystal Data and Structure Refinement for **3_{cis}** and **4_{trans}**

X-ray Crystallography Details. X-ray intensity data measurements were carried out on a Bruker SMART APEX II CCD diffractometer with graphite-monochromatized (MoK α = 0.71073Å) radiation. The X-ray generator was operated at 50 kV and 30 mA. A preliminary set of cell constants and an orientation matrix were calculated from three sets of 36 frames. Data were collected with ω scan width of 0.5° at different settings of φ and 2θ keeping the sample-to-detector distance fixed at 5.00 cm. The X-ray data collection was monitored by APEX2 program (Bruker, 2006).^{S2} All the data were corrected for Lorentzian, polarization, and absorption effects using SAINT and SADABS programs (Bruker, 2006). SHELX-97 was used for structure solution and full matrix least-squares refinement on

F2.^{S3} All the hydrogen atoms were placed in geometrically idealized position and constrained to ride on their parent atoms.

Identification code	3_{cis}	4_{trans}
Empirical formula	C ₃₄ H ₆₄ GeN ₂ O ₅ Si ₄	C ₃₀ H ₅₆ N ₂ O ₄ Si ₄ Sn
Formula weight	765.84	739.81
Temperature/K	100(2)	100(2)
Crystal system	Triclinic	monoclinic
Space group	<i>P</i> -1	<i>P</i> 2 ₁ / <i>n</i>
<i>a</i> /Å	9.5714(9)	10.2751(10)
<i>b</i> /Å	13.2520(12)	15.1910(14)
<i>c</i> /Å	17.5019(15)	25.182(3)
α /°	97.149(3)	90
β /°	97.276(3)	99.290(3)
γ /°	102.064(3)	90
Volume/Å ³	2127.2(3)	3879.1(6)
<i>Z</i>	2	4
ρ_{calc} /cm ³	1.196	1.267
μ /mm ⁻¹	0.870	0.815
<i>F</i> (000)	820.0	1552.0
Crystal size/mm ³	0.11 × 0.07 × 0.02	0.11 × 0.1 × 0.06
Radiation	MoK α (λ = 0.71073)	MoK α (λ = 0.71073)
2 θ range for data collection/°	5.29 to 56.814	4.576 to 56.756
Index ranges	-12 ≤ <i>h</i> ≤ 12, -17 ≤ <i>k</i> ≤	-13 ≤ <i>h</i> ≤ 13, -20 ≤ <i>k</i> ≤

	17, $-23 \leq l \leq 23$	20, $-33 \leq l \leq 33$
Reflections collected	97219	218442
Independent reflections	10635 [$R_{\text{int}} = 0.0555$, $R_{\text{sigma}} = 0.0275$]	9701 [$R_{\text{int}} = 0.0683$, $R_{\text{sigma}} = 0.0208$]
Data/restraints/parameters	10635/0/432	9701/0/387
Goodness-of-fit on F^2	1.041	1.151
Final R indexes [$l \geq 2\sigma$ (I)]	$R_1 = 0.0317$, $wR_2 =$ 0.0833	$R_1 = 0.0311$, $wR_2 =$ 0.0706
Final R indexes [all data]	$R_1 = 0.0357$, $wR_2 =$ 0.0861	$R_1 = 0.0354$, $wR_2 =$ 0.0724
Largest diff. peak/hole / e \AA^{-3}	0.70/-0.93	0.61/-0.87
CCDC No.	2347985	2347987

Details theoretical calculations

All DFT calculations were conducted utilizing the Gaussian 16^{S4} software codes. The M062X^{S5} global hybrid functional was used which comprises 54% Hartree-Fock exchange, specifically tailored for the study of main group elements. Grimme's D3^{S6} dispersion model was taken into account to consider the non-covalent interactions. We used the 6-311++G(d,p) basis set for lighter elements (C, H, N, O, Si) and the Def2TZVP^{S7} basis set with SDD^{S8} ECP for heavy elements (Ge and Sn).

Optimized structures were confirmed as minima through harmonic vibrational frequency analysis. True minima were detected by possessing all positive frequencies, while transition state (TS) structures were distinguished by a single vibrational negative frequency. In addition, intrinsic reaction coordinate (IRC) calculations were performed on all the TS structures to elucidate the connectivity between successive minimum chemical structures (reactant and product) via the corresponding TS structure.

Thermochemical data were calculated employing the ideal gas rigid rotor simple harmonic oscillator approximation at 298.15K and 1atm. For the estimation of Gibbs free energy, zero-point energy corrections were included. To account for solvent effects, we employed the SMD^{S9} continuum solvation model with tetrahydrofuran (THF) solvent, which was also being used experimentally. All natural bonding orbital analysis (NBO) was conducted using NBO 3.1,^{S10} the built-in version in Gaussian 16.

The hypersilyl moiety stabilizes both germylene and the stannylene systems, with a Ge-Si bond length of 2.49 Å and a Sn-Si bond length of 2.68 Å (Figure S10) and. As germylene and stannylene are the heavier analogs of carbene, they contain two electrons which are not shared by other atoms. Thus, there are two possible spin states, one is singlet with $S=0$ and $S_z=0$, where electrons exhibit antiparallel alignment and the other is triplet with $S=1$ and three degenerate S_z states; we target $S=1$ and $S_z=1$ state, where electrons are parallel to each other. In both the systems, the singlet state is found to be more stable than the triplet state. The singlet state exhibits a stability advantage of 35.88 kcal/mol over the triplet state in the germylene system, whereas in the stannylene system, this energy difference is 33.69 kcal/mol.

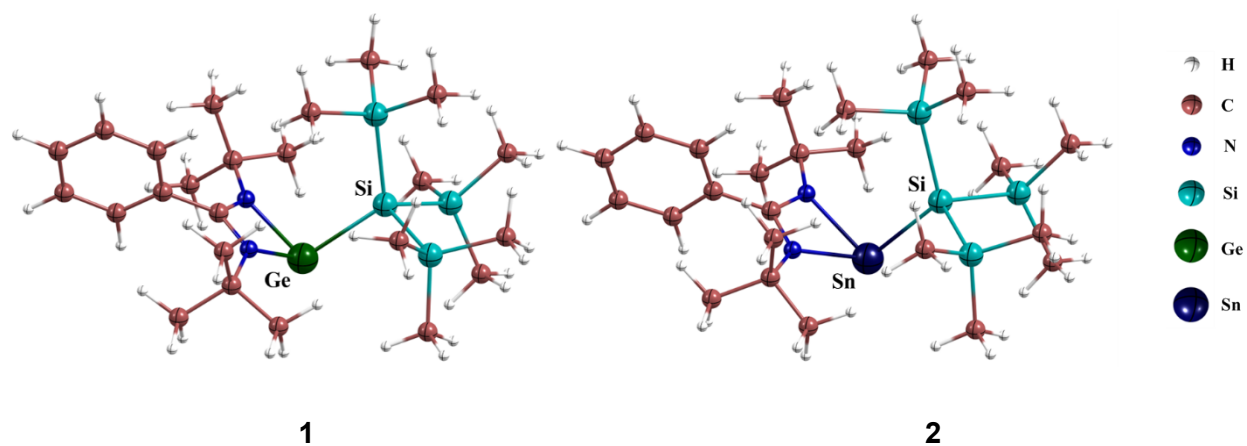


Figure S10. Optimized structures of germylene (left) and stannylene (right)

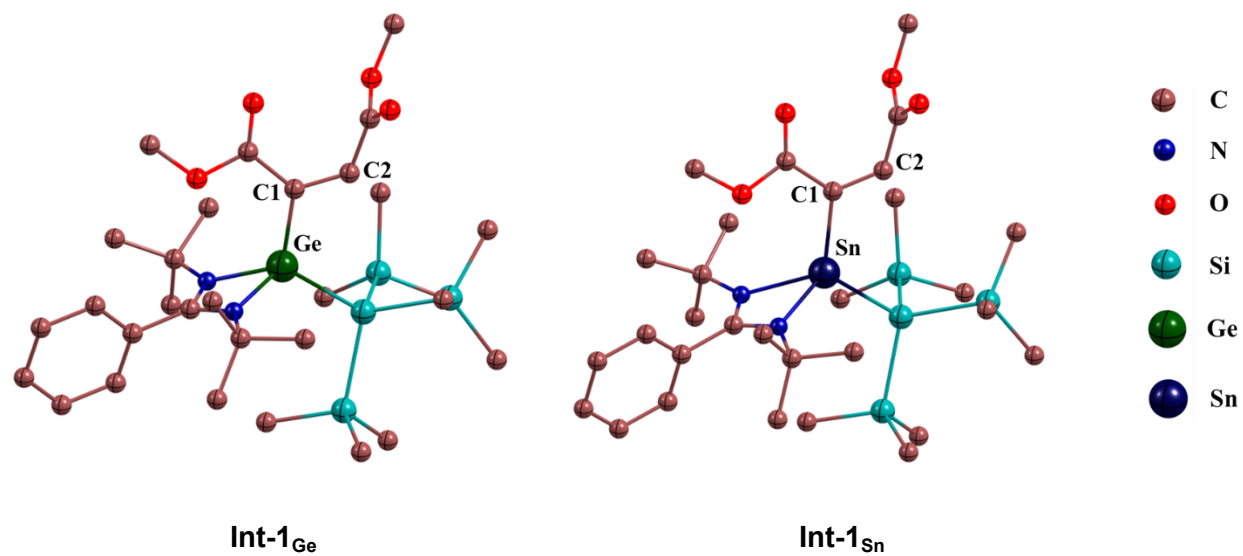


Figure S11. Reaction intermediates for germylene and stannylene. For visual clarity hydrogen atoms are removed.

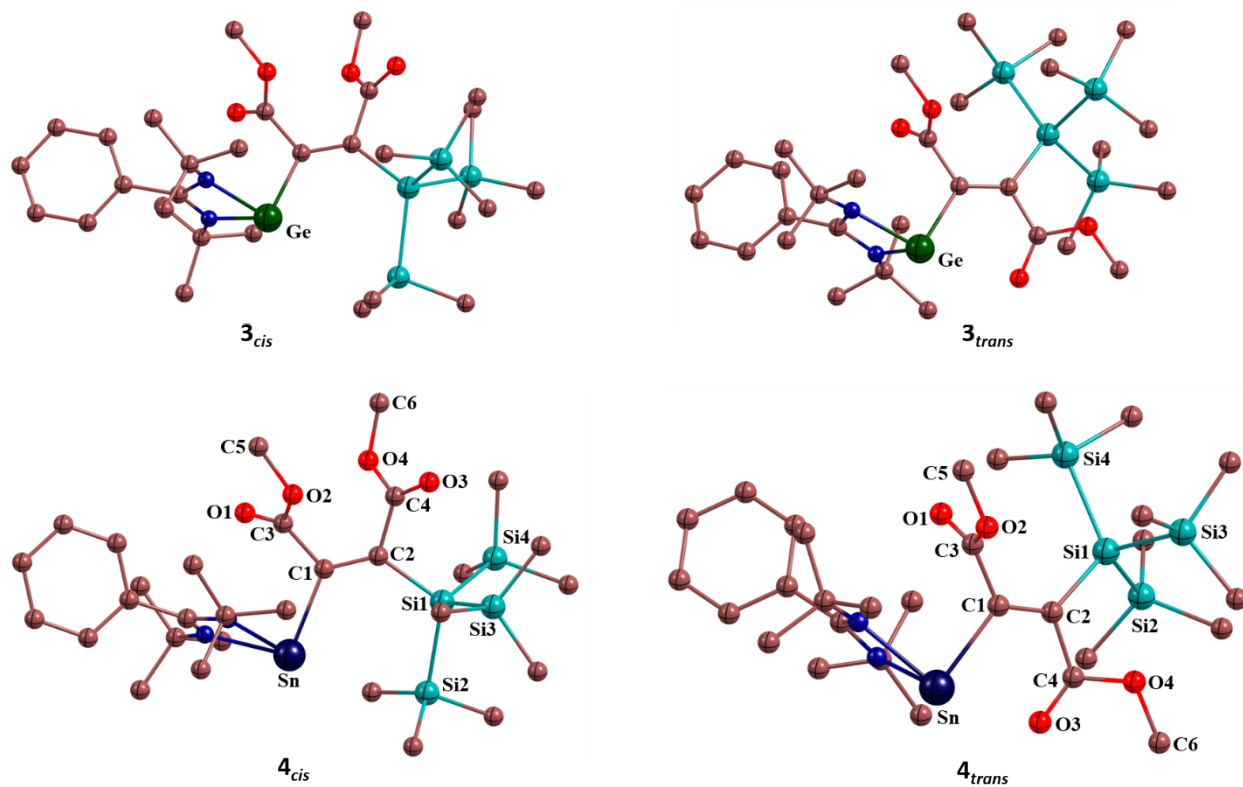


Figure S12. All possible products of the reactions are demonstrated here. Cis ($\mathbf{3}_{cis}$) and trans ($\mathbf{3}_{trans}$) products from the germylene ($\mathbf{1}$) (above) and cis ($\mathbf{4}_{cis}$) and trans ($\mathbf{4}_{trans}$) products from the stannylene ($\mathbf{2}$) (below). The labelled atoms indicate those involved in the electron transfer process, with similar notations applied to both systems for the same configurations (cis or trans).

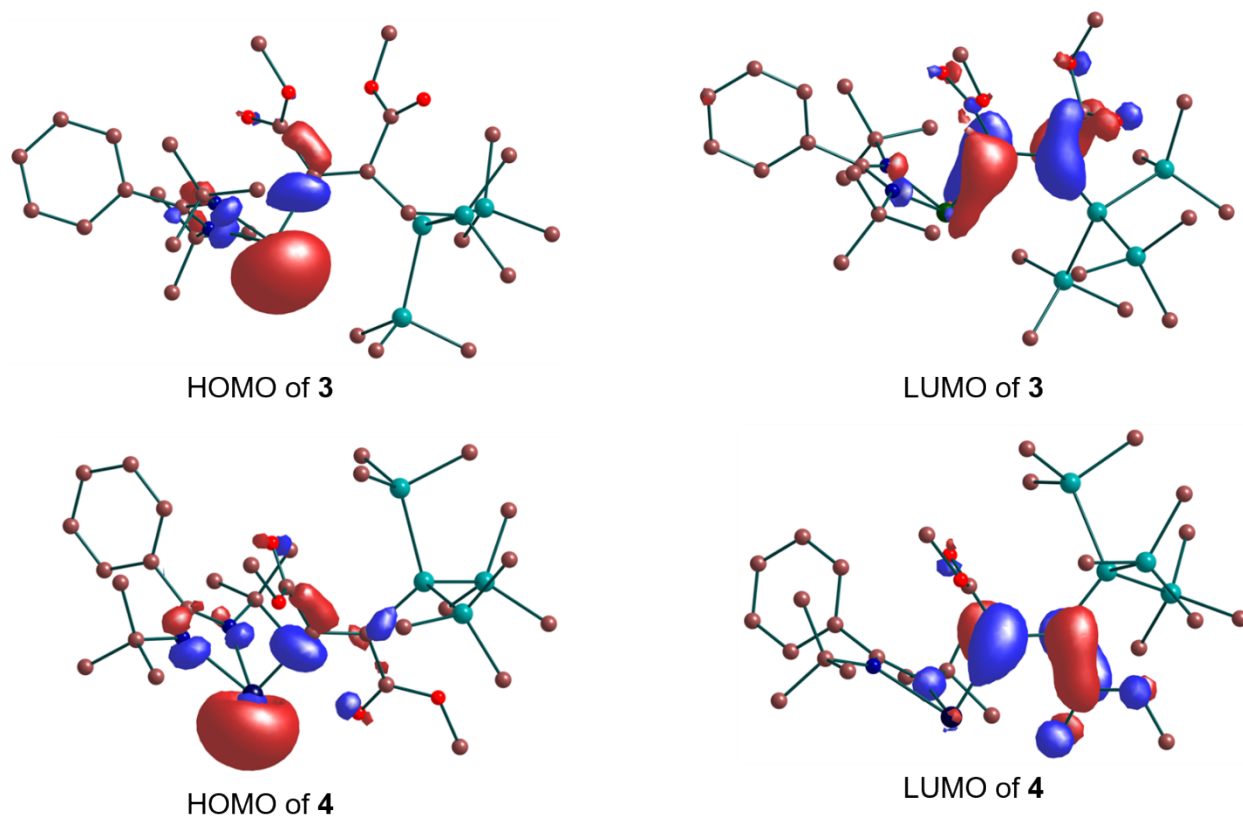


Figure S13. The molecular orbital plots of $\mathbf{3}_{cis}$ and $\mathbf{4}_{trans}$ with an isosurface value of 0.05 au. Hydrogen atoms are removed for clarity.

VT NMR

In DFT calculations, the $\mathbf{3}_{cis}$ formation requires 12.4 kcal/mol, while the $\mathbf{4}_{trans}$ requires 29.7 kcal/mol energy barrier after the formation of kinetic product $\mathbf{4}_{cis}$. Hence, we have performed a VT NMR, which indicates the formation of both $\mathbf{4}_{cis}$ and $\mathbf{4}_{trans}$ at low temperature.

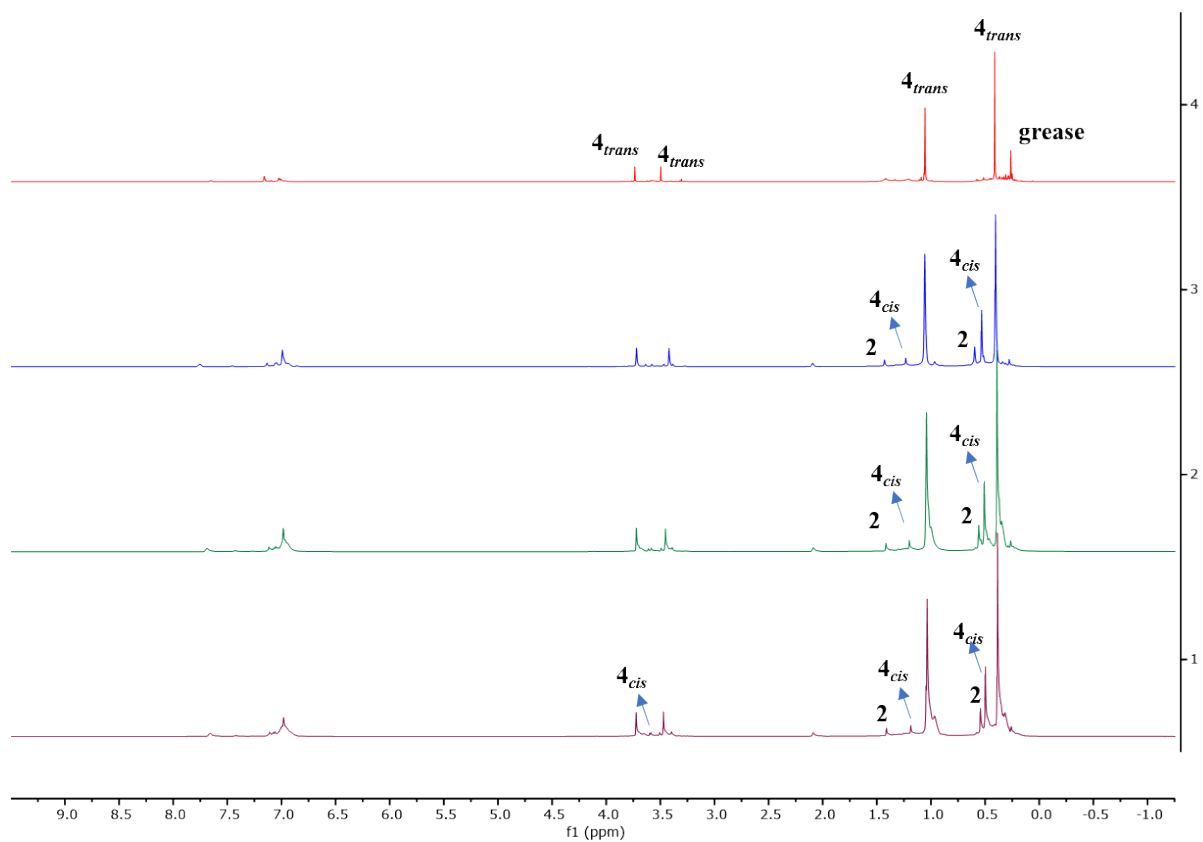


Figure S14. The full spectrum of VT NMR. The lowest set was recorded at $-20\text{ }^{\circ}\text{C}$, followed by $-10\text{ }^{\circ}\text{C}$, then at $0\text{ }^{\circ}\text{C}$, and the highest one was done at room temperature.

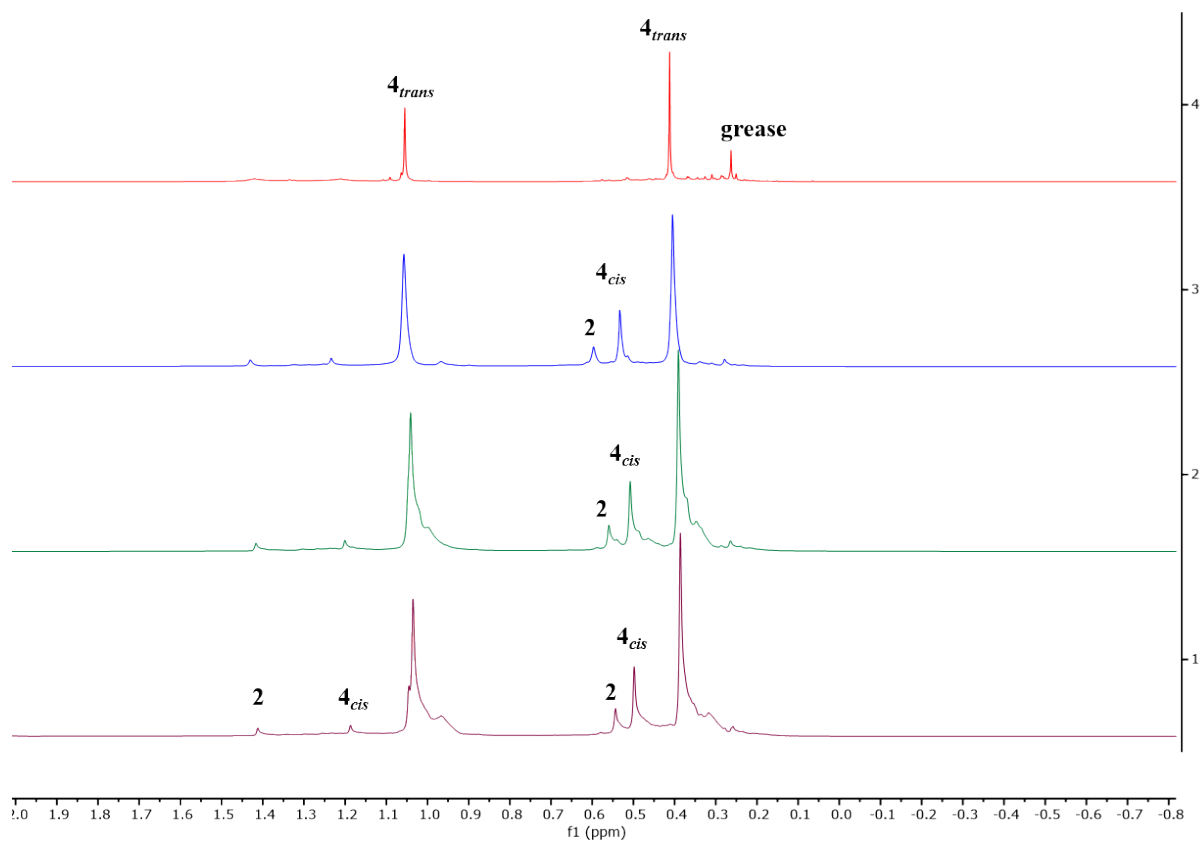


Figure S15. The enlarged version of the VT NMR for hypersilyl and *t*Bu region, which clearly indicates the formation of 4_{cis} at low temperature, but diminishes with gradual increase of the temperature. The lowest set was recorded at -20 °C, followed by -10 °C, then at 0 °C, and the highest one was done at room temperature.

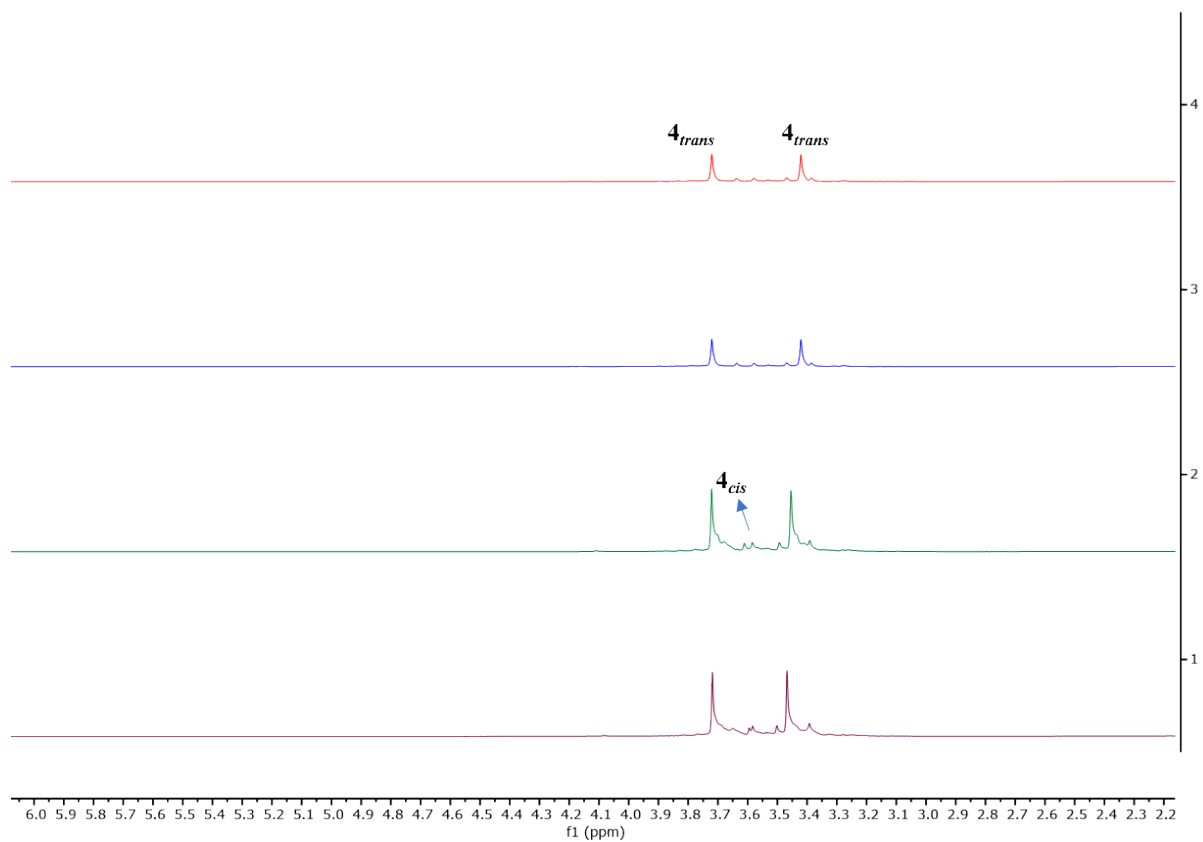


Figure S16. The enlarged version of the VT NMR for $-\text{COOMe}$ resonances, which also indicates the formation of 4_{cis} at low temperature as an intermediate, but diminishes with gradual increase of the temperature. The lowest set was recorded at $-20\text{ }^{\circ}\text{C}$, followed by $-10\text{ }^{\circ}\text{C}$, then at $0\text{ }^{\circ}\text{C}$, and the highest one was done at room temperature.

References:

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1			H	2.33933200	-2.51676200	-2.76194000	
81			C	3.60029500	-0.02510500	0.16020000	
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H	3.71664600	-2.48757800	-1.63993400	C	-1.94606300	3.15913500	1.45536500
H	2.77501700	-3.96904600	-1.83990800	H	-2.16584700	4.21575200	1.26530700

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C	-4.63972500	1.96780400	0.78752200	Si	-1.92877700	0.00446000	0.16380700
H	-5.27943800	1.44368200	0.07245500	Si	-3.59710600	-1.45781000	-0.61543800
H	-4.72529000	1.46522100	1.75493400	Si	-1.46178900	-0.62935100	2.37019800
H	-5.03290700	2.98484900	0.90273100	Si	-2.99783100	2.09963200	0.16992400
C	0.77831600	3.35357600	-1.17385100	N	1.62667300	1.08320600	-0.66359800
H	-0.12089600	3.20714700	-0.57311800	N	1.60758600	-1.11515600	-0.60437900
H	1.01986700	4.41887400	-1.17403800	C	3.92500500	0.12653800	1.59697900
H	0.56722500	3.04995100	-2.20348400	H	3.09112200	0.17305700	2.28820500
C	-2.88612900	2.90634400	-1.49415800	C	2.29942300	-0.01344600	-0.32747400
H	-1.91105400	2.92732700	-1.98630000	C	1.94707200	2.49958500	-0.43590600
H	-3.57870000	2.38123400	-2.15860300	C	1.97995800	-2.52957200	-0.45701400
H	-3.23816200	3.93931000	-1.39430400	C	3.36824500	2.90263700	-0.85178700
C	0.19797600	-0.00382800	2.81188500	H	3.59977400	2.52773600	-1.85251100
H	0.49116300	-0.35902900	3.80568000	H	3.43471500	3.99417300	-0.87149400
H	0.97584100	-0.28720500	2.09801900	H	4.12388600	2.53644800	-0.15577900
H	0.14494800	1.08904100	2.83743600	C	2.36274200	-2.87192500	0.98854900
C	-2.82392500	-0.16709800	3.39600600	H	1.60756100	-2.49495600	1.68445900
H	-2.92172200	0.92139900	3.40418100	H	2.42839300	-3.95752400	1.10458600
C	5.15872500	0.01112300	2.00393600	H	3.33014100	-2.44747300	1.26082100
C	4.65860000	-0.25094900	-0.72129200	C	3.10503000	-2.94011900	-1.41503500
H	-4.39697400	-2.35853200	1.26412600	H	4.06002100	-2.49961900	-1.12638200
H	-1.38636900	-2.87766600	3.51270500	H	3.22030900	-4.02801800	-1.40609500
H	-2.19771900	-3.12581700	1.96195900	H	2.86635700	-2.62763400	-2.43573000
H	2.42656300	4.12970000	0.79141200	C	3.69090200	0.00208000	0.22819700
H	-3.78779100	-0.59278500	3.10129100	C	-4.44644500	-0.74004300	-2.14355300
H	-2.61404300	-0.49247000	4.42144000	H	-5.14974200	-1.47007600	-2.55973400
H	5.34941800	0.11298000	3.06604100	H	-5.00910300	0.16696700	-1.90559500
C	6.21128400	-0.22246100	1.12329100	H	-3.71927200	-0.49282500	-2.92341000
H	4.46292600	-0.33650900	-1.78447100	C	0.71374800	-3.30511100	-0.83275500
C	5.96029100	-0.34692000	-0.24082000	H	0.45598500	-3.12843700	-1.88269900
H	7.22526500	-0.30271700	1.49805600	H	0.85745600	-4.37953200	-0.69595500
H	6.77748500	-0.51742100	-0.93215300	H	-0.12484700	-2.98246100	-0.21046400
Ge	0.06174500	0.11878000	-1.58624900	C	-4.92058100	-1.78934800	0.69367700
				H	-5.70692600	-2.42679000	0.27302500

H	-5.38864100	-0.86721000	1.04719300	H	-2.37874900	-2.96024400	2.31368700
C	-2.88700100	-3.13654900	-1.11546500	H	1.82933000	3.93227300	1.19208600
H	-2.15474500	-3.04099500	-1.92311300	H	-3.77531100	-0.40642500	3.29431500
H	-2.40120700	-3.63921000	-0.27413800	H	-2.56354500	-0.30048200	4.58084300
H	-3.69485500	-3.78557800	-1.47236500	H	5.40349800	0.27815500	3.14563200
C	-1.41036600	-2.51017500	2.55101000	C	6.30513100	0.11254500	1.19942900
H	-0.65663100	-2.97127400	1.90821100	H	4.59010600	-0.16093600	-1.71769300
C	1.70854400	2.85591700	1.03569600	C	6.07416400	-0.01778900	-0.16798800
H	2.41617000	2.33472000	1.68435800	H	7.32023200	0.15801600	1.57702100
H	0.69568700	2.57007000	1.32863300	H	6.90780800	-0.07225300	-0.85872100
C	-2.12243200	3.37054400	1.26361800	Sn	-0.00209900	-0.03228800	-1.70304500
H	-2.78026400	4.23430400	1.41293800				
H	-1.87810800	2.96378100	2.24963600	Int-1_{Ge}			
H	-1.19784500	3.73454800	0.80945200	97			
C	-4.77217100	1.96429100	0.80921100	Si	-1.70414300	-1.29406000	0.02928200
H	-5.38779200	1.33432200	0.16128500	Si	-3.46297400	-0.90006900	-1.50451700
H	-4.80970400	1.55081100	1.82120700	Si	-0.76672800	-3.42291900	-0.35273300
H	-5.22767600	2.96094200	0.83587100	Si	-2.71431800	-1.24962600	2.16474800
C	0.95018100	3.27728700	-1.30058300	N	1.66089100	0.01043800	1.04921100
H	-0.07430200	2.98773900	-1.04532000	N	1.63694200	-0.06870300	-1.11437900
H	1.04871700	4.35257000	-1.13359200	C	4.38958200	-1.63089700	0.33820000
H	1.11750900	3.07321900	-2.36240100	H	3.71535100	-2.43069300	0.62272100
C	-3.09354800	2.80017900	-1.58372200	C	2.41497300	-0.15188300	-0.03663200
H	-2.10275000	2.95187100	-2.02186200	C	2.02126400	0.21349300	2.46660600
H	-3.65128900	2.13198900	-2.24608400	C	1.91427300	-0.21258300	-2.55531100
H	-3.60634600	3.76871200	-1.57525500	C	3.32089800	1.00395200	2.64617100
C	0.20970200	0.06329700	2.90875600	H	3.30928100	1.90719600	2.03138200
H	0.57039700	-0.43593400	3.81488900	H	3.40071800	1.30244300	3.69464100
H	0.94565900	-0.08375400	2.11378800	H	4.20462800	0.41457800	2.39888900
H	0.14564500	1.13560000	3.11497000	C	2.78239300	-1.43931600	-2.84636100
C	-2.79355700	0.00187600	3.55273700	H	2.37600700	-2.32651400	-2.35242200
H	-2.86473300	1.09338800	3.53207500	H	2.79667500	-1.62038700	-3.92420100
C	5.22947500	0.18192200	2.08005900	H	3.81278400	-1.29686800	-2.51566900
C	4.77174100	-0.07203500	-0.65187800	C	2.56679500	1.05945500	-3.10543300
H	-4.50122800	-2.30909500	1.56010400	H	3.58167300	1.18245900	-2.72559200
H	-1.16845500	-2.77116600	3.58778800	H	2.61851200	1.00195700	-4.19607000

H	1.97511800	1.93703100	-2.83142800	H	-3.86139100	0.94474200	1.89711300
C	3.88169900	-0.38938100	-0.04173700	H	-3.69097200	0.51020500	3.60914200
C	-4.77826500	0.27102600	-0.84342700	C	0.95009000	-3.53003200	0.41484700
H	-5.59398700	0.32407800	-1.57372900	H	1.39520900	-4.51051500	0.21219800
H	-5.20318900	-0.05968800	0.10721600	H	1.59955200	-2.76721200	-0.02364200
H	-4.36246800	1.27163100	-0.71001500	H	0.92665000	-3.38267400	1.49768700
C	0.54000500	-0.37863400	-3.20509900	C	-1.88149900	-4.71924900	0.44113700
H	-0.08210900	0.50092000	-3.00877700	H	-1.96751900	-4.56818900	1.52095100
H	0.64041700	-0.48584400	-4.28729800	C	5.76488300	-1.84061200	0.33968900
H	0.02877600	-1.26279100	-2.81593800	C	4.74524400	0.64134200	-0.40893400
C	-4.28007400	-2.58928200	-1.74783000	H	-3.60131500	-3.32380100	-2.18960700
H	-5.13757300	-2.48153800	-2.42188000	H	-0.59358400	-4.92258100	-2.31388200
H	-4.65104300	-2.99546700	-0.80237600	H	-1.39002900	-3.42454200	-2.80794400
C	-2.90408800	-0.26086200	-3.18154600	H	2.31818600	-0.99967400	4.23408900
H	-2.44957200	0.72948600	-3.09338100	H	-2.88756900	-4.70525300	0.01253700
H	-2.19568100	-0.93186400	-3.67355400	H	-1.45888400	-5.71615700	0.27391700
H	-3.78498100	-0.16886400	-3.82706500	H	6.16008400	-2.80779900	0.62742000
C	-0.58735500	-3.83402900	-2.18972700	C	6.62950300	-0.81188100	-0.02423000
H	0.36285700	-3.46503700	-2.58476800	H	4.34090100	1.60747300	-0.68630300
C	2.12364100	-1.14271900	3.16749200	C	6.11922000	0.42981200	-0.39506800
H	2.93819900	-1.73614600	2.74523700	H	7.70069400	-0.97706900	-0.01738500
H	1.19207600	-1.70119000	3.05542100	H	6.79037400	1.23430200	-0.67212800
C	-1.64123000	-2.01291300	3.51696500	Ge	0.06305100	0.33132000	-0.03620300
H	-2.27986100	-2.25930600	4.37284200	O	0.13233200	4.48380800	-0.12150300
H	-1.15953800	-2.93790800	3.18624000	C	0.43521200	3.31682900	-0.06705700
H	-0.86709300	-1.32996500	3.87285100	O	1.71976500	2.91886000	0.09069500
C	-4.27958600	-2.29987400	2.06573700	C	2.67782000	3.97364800	0.20054900
H	-4.99261100	-1.92824200	1.32660500	H	2.69998200	4.56753900	-0.71455100
H	-4.05057900	-3.34175300	1.82565700	H	3.64305700	3.49799800	0.36035200
H	-4.77515300	-2.28388800	3.04320500	H	2.43870000	4.62151700	1.04527100
C	0.87024900	1.02637800	3.06405300	C	-1.83328300	2.29123400	-0.33289000
H	-0.08788600	0.52714500	2.89217900	C	-0.50393100	2.16704100	-0.14731700
H	1.00365000	1.13449800	4.14254400	C	-2.48012200	3.56421600	-0.54012700
H	0.82750600	2.02264300	2.61443900	O	-2.94415400	4.10161000	0.61760000
C	-3.18424700	0.51039400	2.63744400	O	-2.73784500	4.05703400	-1.62642300
H	-2.31192100	1.16581200	2.70861800	C	-3.66281700	5.32389100	0.48063800

H	-3.02955100	6.09972500	0.04616300	H	0.91503500	-0.70848800	-4.33787000
H	-3.96012400	5.60982900	1.48825600	H	0.16098000	-1.27443500	-2.83806400
H	-4.54790000	5.19140900	-0.14416100	C	-4.31042300	-2.96560100	-1.69054300
Int-1_{Sn}				H	-5.15878000	-2.91193900	-2.38200100
97				H	-4.68856900	-3.31768400	-0.72615900
Si	-1.79225900	-1.50768000	0.05779200	C	-2.84360200	-0.71736300	-3.20109700
Si	-3.51644800	-1.26068200	-1.53197000	H	-2.38961800	0.27582700	-3.13278500
Si	-0.68574200	-3.56574100	-0.20520000	H	-2.09705800	-1.41626700	-3.58859800
Si	-2.75377100	-1.35894300	2.20392000	H	-3.66288200	-0.66110100	-3.92623500
N	1.75697600	0.12869000	1.03255500	C	-0.45795500	-4.04318300	-2.01393400
N	1.76953000	-0.06219200	-1.16007200	H	0.27985700	-3.41440300	-2.51687200
C	4.44720400	-1.57441600	0.43009300	C	2.30154500	-0.92518400	3.19226100
H	3.74860600	-2.35159100	0.71961100	H	3.14517500	-1.49650700	2.79913700
C	2.50345300	-0.08391600	-0.04816200	H	1.39881700	-1.53424200	3.10415500
C	2.13393000	0.39378500	2.43301100	C	-1.59082200	-1.99968500	3.54070700
C	2.11720400	-0.36776200	-2.55976500	H	-2.13946800	-2.09142500	4.48479900
C	3.39723400	1.24998000	2.57233300	H	-1.18656400	-2.98550200	3.29290800
H	3.34349300	2.12187600	1.91507600	H	-0.75443100	-1.31796400	3.71153200
H	3.46996800	1.60227300	3.60468500	C	-4.29627300	-2.44260700	2.20361200
H	4.30519100	0.68955300	2.34636000	H	-5.04165900	-2.09338000	1.48460000
C	2.88054100	-1.69006900	-2.69280400	H	-4.05598500	-3.48361700	1.96959000
H	2.37510000	-2.48690700	-2.13930200	H	-4.75606400	-2.42016000	3.19796500
H	2.92579600	-1.97769900	-3.74665700	C	0.95267300	1.17543000	3.01780500
H	3.90431200	-1.60543600	-2.32446800	H	0.01776100	0.61840900	2.88595800
C	2.91358600	0.77624200	-3.19633000	H	1.09314500	1.34357000	4.08774800
H	3.91865200	0.84374300	-2.77911700	H	0.85204800	2.14645000	2.52232100
H	3.00642300	0.60395200	-4.27219600	C	-3.22527100	0.42406700	2.56763400
H	2.39944200	1.72863300	-3.04188400	H	-2.34609400	1.07474600	2.60355000
C	3.97211600	-0.33908300	-0.00957600	H	-3.89447500	0.81982500	1.79859800
C	-4.83366800	-0.04836500	-0.96175600	H	-3.73530200	0.49053600	3.53506000
H	-5.61201100	0.02153700	-1.73009400	C	1.00336800	-3.47524800	0.61998600
H	-5.30927900	-0.37175700	-0.03213300	H	1.58076900	-4.38515800	0.42348000
H	-4.40973100	0.94655200	-0.80785800	H	1.56564600	-2.62096700	0.23297900
C	0.77006900	-0.48081500	-3.27957500	H	0.90978000	-3.35687700	1.70329600
H	0.21919100	0.46416600	-3.20995800	C	-1.73586400	-4.89174500	0.62548800
				H	-1.86937900	-4.69218600	1.69247200

C	5.81717300	-1.81047900	0.48289900	Si	5.14184300	-4.05900100	1.12134500
C	4.86832700	0.65860200	-0.39003700	Si	7.16382500	-2.06899400	-1.19429700
H	-3.61174600	-3.71246400	-2.07679200	Si	7.04641000	-1.25266400	2.58302800
H	-0.09961200	-5.07758500	-2.06585900	O	4.06728500	3.16513000	0.82773200
H	-1.39305100	-3.98731400	-2.57743900	O	2.08224400	2.14591700	1.01238500
H	2.48543600	-0.72760000	4.25215000	O	5.49418600	1.80344700	-1.61485900
H	-2.72569800	-4.96258400	0.16497900	O	6.98721300	2.18113200	0.02058000
H	-1.24873800	-5.86776700	0.52362500	N	1.58374700	-1.33634000	1.80405800
H	6.18396000	-2.77359800	0.81834900	N	2.00141700	-1.24417300	-0.32139200
C	6.71286100	-0.81263200	0.10771000	C	4.05011500	0.81458200	0.88509700
H	4.49430400	1.62187400	-0.71742900	C	-1.23701100	-0.62588100	-0.02354200
C	6.23733200	0.42214000	-0.32674400	H	-0.85843800	0.39013800	-0.02128800
H	7.78004300	-0.99667200	0.15432000	C	1.04699100	-1.42174900	0.58520700
H	6.93194800	1.20273100	-0.61441500	C	3.28720300	2.07963000	0.91589200
O	-0.03559600	4.69713700	-0.07180800	C	5.24530700	0.56814700	0.33571100
C	0.24893100	3.52529400	-0.12803300	C	0.98258000	-1.42348600	3.14749100
O	1.53022400	3.09416600	-0.07522000	C	1.96192200	-1.18554100	-1.79484100
C	2.52267800	4.11251000	0.05665900	C	6.00335700	1.60198700	-0.38077000
H	2.45097600	4.82642800	-0.76495600	C	0.67533600	-2.88019400	3.50707600
H	3.48473800	3.60570600	0.02600900	H	1.56471600	-3.50334900	3.38389800
H	2.40585800	4.64022900	1.00505200	H	0.34824900	-2.94398200	4.54852900
C	-2.02826100	2.52451600	-0.45437100	H	-0.12229500	-3.27841300	2.87710600
C	-0.70448500	2.39296800	-0.25515500	C	1.53554400	0.21627300	-2.23901600
C	-2.66242600	3.81434500	-0.61515900	H	2.19127100	0.96982800	-1.79478900
O	-3.14919300	4.29411700	0.55788400	H	1.59673100	0.29697500	-3.32786000
O	-2.88473100	4.36910600	-1.67789000	H	0.50755900	0.42576300	-1.93547100
C	-3.84107800	5.53626100	0.47095300	C	1.04337100	-2.24927800	-2.40490400
H	-3.18393700	6.32020700	0.08981600	H	-0.01265300	-2.03516000	-2.23729900
H	-4.15342200	5.77572000	1.48606300	H	1.21166800	-2.27511400	-3.48453300
H	-4.71539500	5.45452700	-0.17728500	H	1.27405100	-3.23854800	-1.99912100
Sn	-0.06060400	0.38830400	-0.10826300	C	-0.38684200	-1.68567400	0.28883100
				C	4.49318400	-4.16403000	2.90303700
Ts-1 Ge				H	5.30198600	-4.15706500	3.63873000
97				H	3.82823100	-3.32558500	3.13397400
Ge	3.38113700	-0.99927600	1.06611200	H	3.92047700	-5.08758500	3.04527400
Si	5.76524700	-1.78922000	0.68419600	C	3.39549600	-1.45455700	-2.26043100

H	3.72759000	-2.43655700	-1.91342000	H	6.50601500	-0.45163400	4.87434000
H	3.43933000	-1.43792800	-3.35199100	H	5.26393400	0.07857800	3.72939800
H	4.08422000	-0.69208900	-1.88172000	C	7.63196400	-0.51189700	-2.14469200
C	3.39006200	4.42481800	0.81452700	H	8.38587300	-0.77148500	-2.89665800
H	2.81965000	4.56213800	1.73401300	H	6.76899500	-0.08760800	-2.66340600
H	4.17056600	5.17863800	0.73984500	H	8.05691300	0.25456100	-1.49100700
H	2.71929100	4.48866300	-0.04330800	C	8.76091000	-2.82663100	-0.51845800
C	6.45697400	-5.40914300	0.91803000	H	9.42889700	-3.07396000	-1.35143000
H	6.03542400	-6.38312700	1.19198700	C	-2.57189500	-0.87905500	-0.32021500
H	7.32499700	-5.22912400	1.55864400	C	-0.86735500	-2.99405800	0.30634600
C	3.66498900	-4.56960100	0.03931500	H	6.81041700	-5.47915300	-0.11491000
H	2.82003900	-3.88298400	0.16579600	H	7.27577900	-3.60751800	-3.12794100
H	3.91618600	-4.60009500	-1.02497500	H	6.06279100	-4.19662300	-1.98593900
H	3.32206600	-5.56928400	0.33024800	H	5.69811100	2.74006100	-3.39135200
C	6.46886000	-3.29608500	-2.45469700	H	-0.57471700	-0.51699000	4.32062600
H	5.68344900	-2.84664900	-3.06738100	H	9.28784600	-2.12664200	0.13666100
C	6.20334500	2.74044800	-2.42746800	H	8.57369200	-3.74494300	0.04438700
H	7.24480000	2.43785700	-2.54805800	H	-3.23482400	-0.05561100	-0.55881100
H	6.16426500	3.73670600	-1.98368800	C	-3.05433200	-2.18554400	-0.30864300
C	-0.28471400	-0.57075900	3.26803900	H	-0.19665300	-3.81408100	0.53899400
H	-1.12024500	-0.99946800	2.71317800	C	-2.20252400	-3.24153700	0.00488700
H	-0.10338900	0.44506100	2.90821100	H	-4.09454600	-2.38065400	-0.54272000
C	8.24962600	0.15583900	2.25651900	H	-2.57585900	-4.25889300	0.01187600
H	8.86010700	0.32460000	3.15111700				
H	8.92556800	-0.07637700	1.42776300				
H	7.73137800	1.08296900	2.00508200	Ts-1 Sn			
C	8.07117400	-2.73939700	3.14324700	97			
H	7.45556600	-3.60245200	3.40655400	Si	5.96429200	-1.84459600	0.70534300
H	8.78229800	-3.05067900	2.37345900	Si	5.34523200	-4.09362100	1.20192400
H	8.64694600	-2.45816800	4.03268300	Si	7.29371600	-2.11967400	-1.21580500
C	2.04707700	-0.87342100	4.09943300	Si	7.18380000	-1.19489400	2.60515500
H	2.28332000	0.16685400	3.85503100	O	4.21867100	3.28654000	0.69824800
H	1.68809200	-0.91391100	5.12982000	O	2.26356300	2.30773500	1.18074400
H	2.96451000	-1.46628600	4.03835800	O	5.58313900	1.79373600	-1.73150800
C	5.91092800	-0.75934500	4.00718700	O	7.12354100	2.16872500	-0.13978700
H	5.27930000	-1.59759400	4.31474200	N	1.37944200	-1.38867300	1.85179600
				N	1.85979800	-1.29991000	-0.29753000

C	4.18432900	0.93939500	0.87505300	H	7.56402500	-5.17343600	1.68406500
C	-1.34818600	-0.51257400	0.05054000	C	3.91205600	-4.64789000	0.08777400
H	-0.92497900	0.48322000	0.12518500	H	3.03069000	-4.00652700	0.20684100
C	0.89950800	-1.44143500	0.60918000	H	4.18580900	-4.64537000	-0.97123800
C	3.44658900	2.21737100	0.93638400	H	3.61148800	-5.66787400	0.35363500
C	5.32945300	0.64328700	0.26944300	C	6.54148000	-3.38163800	-2.40130700
C	0.73121400	-1.60185100	3.15533000	H	5.60233700	-3.02342900	-2.83186100
C	1.79894400	-1.16283000	-1.76310900	C	6.30591800	2.68186400	-2.58496900
C	6.10898200	1.61373200	-0.50061300	H	7.33276000	2.33855900	-2.72175300
C	0.52159900	-3.09907900	3.40582600	H	6.31363600	3.69070200	-2.16871800
H	1.46557300	-3.64039900	3.29154900	C	-0.59448500	-0.84576100	3.30331500
H	0.14916600	-3.26326300	4.42094800	H	-1.39399700	-1.29561200	2.71353900
H	-0.20585600	-3.51444200	2.70543100	H	-0.47728500	0.19865600	3.00194000
C	1.45817200	0.28388600	-2.13409500	C	8.32302400	0.26106200	2.27161200
H	2.16640800	0.97241100	-1.66428300	H	8.88465600	0.50128400	3.18155400
H	1.51042200	0.41782400	-3.21836600	H	9.04495100	0.02901500	1.48249700
H	0.44963400	0.54268800	-1.80383800	H	7.76799100	1.14661000	1.95613100
C	0.81600600	-2.13135600	-2.43115400	C	8.25550800	-2.63129100	3.20392100
H	-0.22475000	-1.85404400	-2.26093900	H	7.66448900	-3.50644800	3.48494400
H	0.99247500	-2.11855100	-3.50990700	H	8.97570200	-2.93774100	2.43976100
H	0.97261500	-3.15230000	-2.07155500	H	8.82271300	-2.31469300	4.08675400
C	-0.54422800	-1.62762700	0.28235500	C	1.72517600	-1.05363400	4.18499400
C	4.66450500	-4.18528300	2.97130600	H	1.90433600	0.01261200	4.01498500
H	5.45203600	-4.07966300	3.72250900	H	1.33913000	-1.18423900	5.19810900
H	3.91022400	-3.41527800	3.16935400	H	2.68125500	-1.58573000	4.12013900
H	4.18204700	-5.15692000	3.12807000	C	5.98150000	-0.73343300	3.98571600
C	3.21301600	-1.49222600	-2.25630400	H	5.33560200	-1.57669200	4.24851600
H	3.48751900	-2.50958800	-1.96259400	H	6.53385900	-0.44124100	4.88585200
H	3.26212200	-1.41780600	-3.34535000	H	5.34901900	0.11087900	3.69332700
H	3.94678300	-0.79384900	-1.83832400	C	7.68090500	-0.57346200	-2.21241400
C	3.55741700	4.55448600	0.71792600	H	8.40457300	-0.83312500	-2.99345400
H	3.10828000	4.73694200	1.69502900	H	6.78560500	-0.17793400	-2.69763500
H	4.32936700	5.29339200	0.51488500	H	8.11861100	0.21338700	-1.59291200
H	2.78468900	4.59425800	-0.05103600	C	8.92604300	-2.82805400	-0.57693000
C	6.70336500	-5.40407000	1.05010900	H	9.56459700	-3.10737200	-1.42275500
H	6.31195500	-6.38023800	1.35814100	C	-2.69330700	-0.68376800	-0.25939200

C	-1.08371300	-2.91015300	0.20539200	C	1.73099700	2.28640200	-0.66689100
H	7.05903400	-5.49926300	0.02018900	C	-3.42072800	-0.86148400	3.27992800
H	7.24018800	-3.55809800	-3.22713200	H	-2.73018500	-1.70972700	3.27737000
H	6.35159000	-4.34271600	-1.91621600	H	-3.62032300	-0.58066200	4.31803000
H	5.77802500	2.67427700	-3.53667900	H	-4.36302800	-1.17613100	2.82421800
H	-0.89936300	-0.86900600	4.35295900	C	-3.76294500	-0.77649000	-2.87459100
H	9.46823700	-2.08971300	0.02169500	H	-3.53052700	0.28855200	-2.81128600
H	8.77344300	-3.71945100	0.03730500	H	-3.74251700	-1.07699700	-3.92570200
H	-3.31879500	0.18334300	-0.43720500	H	-4.77277900	-0.94746900	-2.49862100
C	-3.23482500	-1.96463300	-0.33741000	C	-3.14142000	-3.06306100	-2.03734600
H	-0.45001800	-3.77413300	0.37356700	H	-4.08303500	-3.15540200	-1.48931200
C	-2.42963900	-3.07675300	-0.10455900	H	-3.28288400	-3.47426600	-3.04084500
H	-4.28335200	-2.09590000	-0.57896300	H	-2.37975500	-3.65587100	-1.52257800
H	-2.84769100	-4.07474000	-0.16783100	C	-4.67092000	-0.22709000	-0.00871200
Sn	3.43063000	-1.03804600	1.19696400	C	1.97755800	-3.18863100	1.95679600
3_{cis}				H	1.94792100	-4.28453900	1.94964600
97				H	2.65803900	-2.88404500	2.75620400
Ge	-0.84796800	-1.06937800	0.44065000	H	0.97698800	-2.82687500	2.19690000
Si	2.81504800	-0.24735300	0.05692100	C	-1.37849900	-1.48235700	-2.86395400
Si	2.57997400	-2.59665800	0.26928500	H	-0.59138300	-2.03042100	-2.33656100
Si	4.37177100	0.05845100	-1.69355500	H	-1.46934300	-1.90734100	-3.86655200
Si	3.74742700	0.49837100	2.09144900	H	-1.08221400	-0.43382100	-2.94436200
O	-0.91704600	2.75217800	0.22468000	C	-1.79493200	3.84661200	-0.05184200
O	-1.78985500	1.68734000	-1.54272100	H	-2.83574000	3.51960000	-0.04538400
O	1.19918400	2.75425800	-1.80206500	H	-1.62346600	4.57396200	0.73883200
O	2.46893800	2.93707700	0.03157000	H	-1.56333600	4.28255500	-1.02553100
N	-2.44549500	-0.08590700	1.15132100	C	4.34451600	-3.26304100	0.09408900
N	-2.44937100	-1.10098300	-0.75886100	H	4.32619700	-4.33497800	0.32298200
C	-0.01986300	0.63682200	-0.30154800	H	5.04903700	-2.78992000	0.78171400
C	-5.11195000	1.01811600	-0.45723800	C	1.57998900	-3.43652600	-1.09453200
H	-4.38147500	1.78408200	-0.69701700	H	0.51373300	-3.46742800	-0.86142500
C	-3.20859700	-0.47426500	0.12453100	H	1.71027200	-2.94514100	-2.06245800
C	-0.99247400	1.71945000	-0.63645400	H	1.93028400	-4.47028200	-1.19395900
C	1.30404600	0.88123100	-0.34761600	C	3.96572700	-1.08681000	-3.13826000
C	-2.81482700	0.32050800	2.51596200	H	2.95928700	-0.88094900	-3.51702200
C	-2.71188000	-1.59461800	-2.11821600	C	1.48406200	4.12644100	-2.09742800

H	2.55715700	4.27266400	-2.22938400	H	-6.81525900	2.21947400	-0.96796400
H	1.12699300	4.76826600	-1.29053400	C	-7.39310700	0.25048200	-0.31733700
C	-3.77764400	1.51189000	2.53381900	H	-5.23958700	-2.20145300	0.62638800
H	-4.77970800	1.23616900	2.20308100	C	-6.95187100	-0.99071100	0.13160100
H	-3.40159400	2.31526700	1.89441600	H	-8.45416500	0.43639900	-0.43886500
C	4.68270100	2.13142200	2.01485400	H	-7.66670300	-1.77239500	0.36124400
H	5.25753000	2.25824500	2.93910700				
H	5.38699400	2.15213500	1.17775800	4_{cis}			
H	4.00266800	2.97517700	1.90135500	97			
C	4.99854900	-0.77203300	2.72037800	Si	2.99555400	-0.16914900	0.05502900
H	4.57475900	-1.76786900	2.86433600	Si	2.76152200	-2.51766400	0.15669400
H	5.84858300	-0.85870700	2.03632200	Si	4.59686600	0.19778100	-1.63707200
H	5.38746800	-0.43265800	3.68720600	Si	3.78574000	0.61434000	2.12331300
C	-1.49884700	0.74144900	3.17599400	O	-0.84947800	2.67380900	-0.07135700
H	-1.04701800	1.56835900	2.62129000	O	-1.61690200	1.44575800	-1.78302900
H	-1.67282100	1.05933500	4.20666400	O	1.35890100	2.71400100	-1.90866400
H	-0.79153100	-0.09424800	3.19591400	O	2.46825800	2.97877300	0.01756900
C	2.31652100	0.62458600	3.31287800	N	-2.49756600	-0.02826900	1.14861600
H	1.57880300	1.35496400	2.96670400	N	-2.63383600	-1.24737800	-0.67904400
H	1.81289600	-0.34183500	3.41916900	C	0.12778500	0.54678200	-0.40983800
H	2.66569200	0.93633100	4.30313700	C	-4.95308600	1.18933500	-0.70198900
C	4.38324000	1.81656800	-2.37786800	H	-4.11998100	1.75238800	-1.10937200
H	5.19033400	1.89745300	-3.11476000	C	-3.28020000	-0.44247800	0.15142900
H	3.44615000	2.05819000	-2.88679700	C	-0.86276700	1.57091300	-0.84736400
H	4.55783200	2.56093500	-1.59713700	C	1.43904800	0.86449000	-0.41257700
C	6.11181100	-0.29448400	-1.05390300	C	-2.83992700	0.63677900	2.41415300
H	6.38629700	0.41790800	-0.26964600	C	-3.07032500	-1.87811500	-1.93293700
C	-6.47200700	1.25452000	-0.61306500	C	1.81729600	2.28548500	-0.72681400
C	-5.58857400	-1.23360500	0.28277100	C	-3.55583600	-0.34273200	3.35166300
H	4.72948000	-3.15120000	-0.92286800	H	-2.95400800	-1.24606400	3.48791500
H	4.67180800	-0.92053700	-3.95930700	H	-3.71814900	0.11610600	4.33146200
H	4.01265200	-2.14387700	-2.86453400	H	-4.52814300	-0.63014800	2.94430900
H	0.95532100	4.34641400	-3.02206600	C	-3.83122400	-0.93367000	-2.87242300
H	-3.85425200	1.89333500	3.55568600	H	-3.31014100	0.02318700	-2.94648300
H	6.21929900	-1.30324000	-0.64977500	H	-3.87880300	-1.38736300	-3.86646700
H	6.83253900	-0.18109700	-1.87139400	H	-4.85499000	-0.75940900	-2.53907800

C	-3.92209400	-3.11587900	-1.62835400	C	4.81883100	-0.75599400	2.91324400
H	-4.85268000	-2.83237100	-1.13099800	H	4.24828500	-1.67923500	3.04729000
H	-4.17576900	-3.63965100	-2.55481400	H	5.69728200	-0.98371400	2.30067500
H	-3.37484500	-3.80474300	-0.97850200	H	5.17661000	-0.43643700	3.89828400
C	-4.69789300	-0.00481500	-0.02620600	C	-1.49155200	1.03037500	3.02714000
C	2.13812500	-3.17093500	1.82711100	H	-0.95487400	1.70454400	2.35371400
H	2.96756000	-3.65124100	2.35611300	H	-1.63338400	1.52898900	3.98905500
H	1.73014900	-2.39115400	2.47355300	H	-0.87526300	0.14098800	3.19963700
H	1.35444000	-3.92001400	1.68308200	C	2.27276200	0.96909400	3.18880600
C	-1.77709300	-2.31460800	-2.62803700	H	1.66221400	1.75333600	2.73152100
H	-1.21209300	-3.00240700	-1.99014700	H	1.65285100	0.07283000	3.29384800
H	-1.99715200	-2.83005200	-3.56584700	H	2.56130400	1.29990900	4.19218300
H	-1.15431900	-1.44133500	-2.84561900	C	4.66961300	1.99070400	-2.21754400
C	-1.68034200	3.74874000	-0.51616200	H	5.52194300	2.10635000	-2.89654800
H	-2.72742000	3.44662800	-0.55156700	H	3.76801800	2.27062600	-2.76865700
H	-1.54600800	4.55020900	0.20757500	H	4.79874800	2.68634600	-1.38438700
H	-1.37079100	4.07831600	-1.51007300	C	6.31084400	-0.24207900	-0.98030000
C	4.49051800	-3.25880800	-0.03647600	H	6.61001200	0.45304800	-0.19020400
H	4.40658800	-4.34847300	0.05101100	C	-6.26010200	1.63008800	-0.86484600
H	5.16851900	-2.91605400	0.75058700	C	-5.75418200	-0.75960700	0.47742100
C	1.72458300	-3.13308300	-1.30811200	H	4.94267200	-3.03798400	-1.00602700
H	1.12983400	-2.33875300	-1.76776700	H	4.87763800	-0.65569500	-3.95886300
H	2.38915400	-3.52794900	-2.08334400	H	4.23410600	-1.93506100	-2.92018200
H	1.04757900	-3.93868500	-1.00855100	H	1.13552600	4.28283200	-3.16342600
C	4.18099800	-0.86563100	-3.13988000	H	-3.70830000	2.44526400	3.19462300
H	3.16920700	-0.64582200	-3.49587000	H	6.36712100	-1.25587700	-0.57878800
C	1.59235700	4.09853800	-2.19366400	H	7.04607100	-0.15956800	-1.78853400
H	2.66271400	4.30569100	-2.23214800	H	-6.45586500	2.55665600	-1.39247700
H	1.13064000	4.72386500	-1.42779200	C	-7.31830600	0.87951000	-0.35360700
C	-3.68272100	1.90628800	2.24334400	H	-5.55580700	-1.69053500	0.99747200
H	-4.71164900	1.68609800	1.95671600	C	-7.06479400	-0.31465400	0.31386200
H	-3.23763900	2.56217900	1.49104600	H	-8.33838000	1.22422400	-0.47935000
C	4.87695400	2.14401200	2.01701500	H	-7.88551600	-0.90262600	0.70847600
H	5.20489200	2.43121800	3.02241500	Sn	-0.78127100	-1.28438900	0.53228000
H	5.77267900	1.95355200	1.41874900				
H	4.33557000	2.98072700	1.57355500				

Ts-2 Ge

Ge	-2.289000	-0.389000	1.341000	H	-1.734000	3.628000	4.956000
Si	1.079000	2.226000	1.770000	H	-1.049000	4.616000	3.653000
Si	0.278000	2.550000	3.954000	H	-2.035000	3.204000	3.256000
Si	2.646000	0.451000	1.731000	C	-2.668000	-0.740000	-1.983000
Si	1.971000	4.169000	0.726000	H	-1.963000	-1.417000	-1.490000
O	-2.105000	3.633000	-0.147000	H	-2.724000	-1.012000	-3.039000
O	-3.919000	2.432000	0.469000	H	-2.286000	0.283000	-1.902000
O	0.240000	-0.151000	-0.792000	C	-3.003000	4.662000	-0.527000
O	0.548000	1.916000	-1.619000	H	-3.566000	5.040000	0.330000
N	-4.058000	0.060000	2.158000	H	-2.380000	5.459000	-0.935000
N	-3.847000	-0.537000	0.085000	H	-3.707000	4.321000	-1.289000
C	-1.673000	1.620000	0.823000	C	1.588000	3.422000	4.993000
C	-6.809000	1.062000	0.622000	H	1.314000	3.344000	6.051000
H	-6.190000	1.949000	0.550000	H	1.671000	4.483000	4.747000
C	-4.715000	-0.213000	1.035000	C	0.038000	0.840000	4.717000
C	-2.692000	2.493000	0.405000	H	-0.480000	0.146000	4.052000
C	-0.318000	1.663000	0.598000	H	1.020000	0.414000	4.950000
C	-4.550000	0.457000	3.486000	H	-0.527000	0.907000	5.653000
C	-4.051000	-0.846000	-1.338000	C	1.774000	-1.175000	2.107000
C	0.197000	1.178000	-0.733000	H	1.030000	-1.401000	1.339000
C	-5.634000	-0.488000	4.017000	C	0.677000	-0.722000	-2.036000
H	-5.303000	-1.528000	3.953000	H	1.688000	-0.389000	-2.273000
H	-5.831000	-0.254000	5.067000	H	-0.002000	-0.436000	-2.840000
H	-6.572000	-0.382000	3.470000	C	-5.063000	1.901000	3.467000
C	-4.991000	0.157000	-2.019000	H	-5.989000	1.987000	2.897000
H	-4.724000	1.176000	-1.728000	H	-4.321000	2.558000	3.010000
H	-4.893000	0.058000	-3.103000	C	3.316000	3.722000	-0.509000
H	-6.035000	-0.021000	-1.760000	H	3.712000	4.644000	-0.949000
C	-4.574000	-2.276000	-1.515000	H	4.145000	3.193000	-0.031000
H	-5.570000	-2.387000	-1.083000	H	2.924000	3.102000	-1.318000
H	-4.637000	-2.522000	-2.579000	C	2.732000	5.219000	2.094000
H	-3.901000	-2.990000	-1.033000	H	1.961000	5.629000	2.751000
C	-6.195000	-0.166000	0.868000	H	3.443000	4.658000	2.707000
C	-1.290000	3.591000	3.955000	H	3.268000	6.061000	1.642000
				C	-3.331000	0.388000	4.406000
				H	-2.555000	1.065000	4.041000

H	-3.602000	0.691000	5.420000	O	1.759000	-0.171000	1.772000
H	-2.922000	-0.626000	4.443000	O	-0.982000	-2.361000	-1.876000
C	0.626000	5.161000	-0.125000	O	-2.671000	-2.758000	-0.209000
H	0.164000	4.576000	-0.921000	N	2.478000	1.150000	-0.770000
H	-0.160000	5.448000	0.578000	N	2.842000	-1.059000	-0.664000
H	1.063000	6.072000	-0.551000	C	-0.059000	-0.449000	0.259000
C	3.499000	0.305000	0.049000	C	4.577000	0.806000	1.705000
H	4.484000	0.779000	0.075000	H	3.620000	0.949000	2.195000
H	3.640000	-0.752000	-0.201000	C	3.312000	0.132000	-0.363000
H	2.935000	0.773000	-0.761000	C	0.735000	-0.735000	1.395000
C	3.934000	0.788000	3.064000	C	-1.455000	-0.832000	-0.100000
H	4.424000	1.755000	2.917000	C	2.797000	2.571000	-1.022000
C	-8.189000	1.118000	0.451000	C	3.298000	-2.394000	-0.197000
C	-6.956000	-1.332000	0.943000	C	-1.743000	-1.977000	-0.845000
H	2.574000	2.965000	4.872000	C	4.127000	2.761000	-1.797000
H	2.510000	-1.987000	2.119000	H	4.143000	2.183000	-2.716000
H	1.272000	-1.161000	3.077000	H	4.261000	3.833000	-2.051000
H	0.659000	-1.799000	-1.886000	H	5.004000	2.464000	-1.186000
H	-5.261000	2.233000	4.491000	C	3.877000	-2.400000	1.250000
H	3.484000	0.781000	4.062000	H	3.236000	-1.753000	1.913000
H	4.707000	0.013000	3.041000	H	3.898000	-3.439000	1.639000
H	-8.668000	2.070000	0.254000	H	4.902000	-2.001000	1.267000
C	-8.952000	-0.045000	0.527000	C	4.334000	-2.959000	-1.179000
H	-6.473000	-2.282000	1.144000	H	5.244000	-2.349000	-1.172000
C	-8.336000	-1.269000	0.773000	H	4.613000	-3.999000	-0.902000
H	-10.027000	0.003000	0.393000	H	3.933000	-2.978000	-2.201000
H	-8.928000	-2.174000	0.836000	C	4.599000	0.373000	0.361000
				C	-0.996000	3.056000	0.448000
				H	-0.686000	4.019000	0.023000
				H	-1.175000	3.186000	1.522000
				H	-0.171000	2.337000	0.322000
				C	2.063000	-3.313000	-0.215000
				H	1.593000	-3.304000	-1.222000
				H	2.355000	-4.355000	0.011000
				H	1.305000	-3.009000	0.518000
				C	0.857000	-2.059000	3.379000
Ts-2 Sn							
Sn	0.855000	-0.095000	-1.528000				
Si	-3.052000	0.206000	0.289000				
Si	-2.547000	2.434000	-0.422000				
Si	-4.892000	-0.566000	-1.018000				
Si	-3.690000	0.341000	2.592000				
O	0.191000	-1.805000	2.121000				

H	0.916000	-1.122000	3.974000
H	0.218000	-2.796000	3.905000
H	1.876000	-2.464000	3.241000
C	-3.988000	3.599000	0.062000
H	-3.735000	4.632000	-0.222000
H	-4.149000	3.567000	1.167000
C	-2.341000	2.533000	-2.301000
H	-1.541000	1.858000	-2.658000
H	-3.267000	2.280000	-2.830000
H	-2.047000	3.560000	-2.593000
C	-4.329000	-1.102000	-2.738000
H	-3.703000	-2.021000	-2.717000
C	-1.107000	-3.762000	-2.224000
H	-2.128000	-3.995000	-2.507000
H	-0.806000	-4.369000	-1.355000
C	2.838000	3.352000	0.317000
H	3.738000	3.116000	0.884000
H	1.954000	3.091000	0.921000
C	-3.605000	-1.403000	3.311000
H	-3.825000	-1.415000	4.396000
H	-4.340000	-2.048000	2.787000
H	-2.597000	-1.836000	3.157000
C	-5.449000	1.036000	2.749000
H	-5.532000	2.067000	2.363000
H	-6.195000	0.415000	2.210000
H	-5.727000	1.046000	3.814000
C	1.686000	3.128000	-1.909000
H	0.698000	2.980000	-1.431000
H	1.818000	4.205000	-2.069000
H	1.666000	2.629000	-2.893000
C	-2.552000	1.497000	3.588000
H	-1.478000	1.310000	3.393000
H	-2.746000	2.572000	3.367000
H	-2.734000	1.344000	4.672000
C	-5.831000	-1.987000	-0.181000
H	-6.254000	-1.677000	0.767000

H	-6.658000	-2.330000	-0.837000
H	-5.158000	-2.844000	-0.016000
C	-6.124000	0.853000	-1.269000
H	-6.462000	1.283000	-0.310000
C	5.781000	0.988000	2.375000
C	5.837000	0.162000	-0.282000
H	-4.935000	3.329000	-0.420000
H	-5.202000	-1.337000	-3.362000
H	-3.756000	-0.312000	-3.239000
H	-0.432000	-3.923000	-3.050000
H	2.823000	4.440000	0.128000
H	-5.697000	1.683000	-1.866000
H	-7.014000	0.463000	-1.796000
H	5.742000	1.293000	3.437000
C	6.996000	0.762000	1.762000
H	5.863000	-0.138000	-1.325000
C	7.032000	0.366000	0.422000
H	7.938000	0.916000	2.289000
H	7.986000	0.207000	-0.098000

3_{trans}

97			
Si	-2.72620400	0.23705700	0.33876300
Si	-3.99795000	1.75338200	-0.93741100
Si	-2.24353800	1.28441100	2.39996000
O	0.90471100	1.20821500	1.09011500
C	0.43398700	1.25449600	-0.02222000
O	0.28054400	2.38633100	-0.72889600
C	4.29997000	2.52214500	-0.86302900
H	4.72776600	3.36254700	-1.41688200
H	5.07410100	2.12838600	-0.20259900
H	3.47706900	2.89514500	-0.24879300
C	3.79932800	1.46629900	-1.85547900
C	-1.55594900	3.03668900	2.30227400
H	-2.08816100	3.64683000	1.56617400
H	-0.49258000	3.03580300	2.06441000

H	-1.68122300	3.51342500	3.28112100	H	-0.08601400	0.32441800	3.15683200
C	-3.95678800	1.43979000	3.21688400	H	-1.40802400	-0.79068700	3.54252600
H	-4.00580000	0.83526600	4.12701700	H	4.63623200	0.04080500	-3.26213400
H	-4.77936800	1.12910100	2.56925300	H	5.54584100	1.55919100	-3.13596500
H	-4.13517900	2.48223800	3.49898500	H	5.67128500	0.34981200	-1.85169400
C	2.91080600	2.14067300	-2.90490000	C	3.25722300	-0.39886100	-0.22670900
H	2.58678700	1.41596400	-3.65814200	O	-2.87836600	-1.41832100	-2.09891000
H	3.46397900	2.93249200	-3.41508600	O	-0.82636600	-2.30187900	-2.13737100
H	2.02136900	2.57269900	-2.44196100	H	-5.89270200	-3.00063400	0.24197300
C	-2.82524200	3.05665700	-1.63113400	H	-5.21667100	-2.13762800	-1.14927800
H	-3.38497600	3.77852400	-2.23631600	H	-6.14780300	-1.25992600	0.07449500
H	-2.05554100	2.60304400	-2.26107100	H	-3.10444700	-4.10427000	1.18956800
H	-2.31708300	3.60311300	-0.83139000	H	-2.45603100	-3.46045300	-0.31809600
C	-4.90612000	0.94880100	-2.37956000	H	-1.71260800	-3.01477500	1.22446200
H	-5.54451600	0.12468800	-2.05045200	H	-4.76293200	-2.81857000	2.96351800
H	-4.20139200	0.55962100	-3.11779900	H	-5.23480400	-1.11708300	2.94084100
H	-5.54047000	1.69522300	-2.87076500	H	-3.60014300	-1.57616000	3.44048000
C	0.76190900	3.62181000	-0.18681300	N	2.42669300	-1.43371000	-0.25678500
H	-0.09365300	4.24272700	0.07827600	C	4.34658000	-0.19453900	0.77237800
H	1.33974600	4.11474400	-0.96856800	C	-3.30024900	-2.40395700	-3.04618100
H	1.38345100	3.44901500	0.69003300	C	2.15667900	-2.47117200	0.75700600
C	-5.27114100	2.62507500	0.14992900	C	5.60856100	-0.75817000	0.59090700
H	-4.79931400	3.16069900	0.97890400	C	4.07882300	0.57451600	1.90490800
H	-5.99907200	1.92467700	0.56991900	H	-2.66858800	-2.37212100	-3.93419300
H	-5.82124400	3.35695600	-0.45196500	H	-4.32569000	-2.14887700	-3.30508000
C	-1.26427800	-0.36035000	-0.76829800	H	-3.25714700	-3.40051900	-2.60208700
Si	-3.86185900	-1.76220800	0.93474500	C	1.35767300	-3.55955300	0.03851600
C	-1.11655000	0.26292700	3.51212200	C	3.43308200	-3.09974300	1.33032600
C	0.00527700	0.08353700	-0.82576600	C	1.31030200	-1.88419200	1.89163300
C	4.98745200	0.80939800	-2.56784400	H	5.80862500	-1.36895900	-0.28251600
N	2.95037200	0.44863600	-1.21021300	C	6.60405400	-0.54674600	1.53925600
C	-1.59549900	-1.46618700	-1.71767100	H	3.09232700	1.00876100	2.02821500
C	-5.42213000	-2.06476400	-0.07986100	C	5.07499900	0.77597400	2.85528700
C	-2.66712900	-3.21346700	0.72512300	H	1.08484500	-4.34879800	0.74323000
C	-4.40967900	-1.80471900	2.74276600	H	1.94911500	-4.00276000	-0.76828400
H	-1.15658500	0.65385800	4.53504900	H	0.44195400	-3.14925200	-0.39256600

H	4.11822000	-3.39114100	0.52979300	H	2.20297900	-0.00312900	-3.48467600
H	3.15619300	-3.99855100	1.88802500	C	-3.04895200	0.80085200	-3.31293100
H	3.95507100	-2.43106900	2.01559900	H	-3.64054200	0.83297200	-4.23461900
H	1.85220000	-1.08873900	2.40796900	H	-2.30169400	0.00884300	-3.41307100
H	1.06328300	-2.66765600	2.61503600	H	-2.51285800	1.74949900	-3.21819500
H	0.38513700	-1.45777400	1.49801400	C	-5.08747400	-1.13198500	-2.11199000
H	7.58539200	-0.98433900	1.39631300	H	-5.68936700	-1.41378900	-1.24418300
C	6.33803300	0.21855000	2.67238500	H	-4.38807900	-1.94503900	-2.31962100
H	4.86513300	1.37078300	3.73688500	H	-5.75785700	-1.02810800	-2.97251400
H	7.11410800	0.37858200	3.41216800	C	0.65524900	2.29873600	-3.02010700
Ge	1.52677200	-0.78437900	-1.95075400	H	-0.21271200	2.80986000	-3.43767800
4_{trans}				H	1.35671100	2.06083400	-3.82023400
97				H	1.13801500	2.92802800	-2.27518800
Si	-2.80084100	0.47683800	0.08410000	C	-5.44312500	1.88170100	-1.73852200
Si	-4.17110100	0.49046300	-1.82919700	H	-4.96895200	2.86001300	-1.61682900
Si	-2.31152900	2.73334000	0.57817900	H	-6.14248100	1.73924500	-0.90931800
O	0.77621200	1.69392200	-0.35533800	H	-6.02574700	1.90393000	-2.66615200
C	0.32584000	0.87156300	-1.11957700	C	-1.35278200	-0.73435700	-0.30302800
O	0.21235200	1.06293000	-2.44699000	Si	-3.81575200	-0.39785200	2.04348300
C	4.17196200	1.45639300	-2.18732800	C	-1.08076800	2.96881800	1.98471800
H	4.56893100	1.75412300	-3.16221800	C	-0.10914300	-0.49238600	-0.75792700
H	4.88976300	1.76563200	-1.42607000	C	5.27946900	-0.79922200	-2.14140100
H	3.23470500	1.99038900	-2.01391800	N	3.06243600	-0.49903100	-1.07427100
C	3.93570400	-0.06038100	-2.17271800	C	-1.65086100	-2.18086600	-0.08462100
C	-1.76467500	3.77045800	-0.89749800	C	-5.40198700	-1.35396400	1.69055800
H	-2.42451400	3.63088700	-1.75914900	C	-2.57150600	-1.51449500	2.92762300
H	-0.74059300	3.54442500	-1.19194100	C	-4.28009500	0.93874300	3.29462700
H	-1.80597800	4.82893700	-0.61604500	H	-1.09441000	4.01520600	2.31008600
C	-3.99322700	3.44255800	1.12038200	H	-0.07194000	2.71918700	1.65154200
H	-4.18663800	4.37630200	0.58232500	H	-1.32350600	2.34495700	2.84984500
H	-3.98902900	3.66957600	2.18993800	H	5.11731800	-1.88075100	-2.12013600
H	-4.83366700	2.77176400	0.92766700	H	5.86396400	-0.55516900	-3.03371600
C	3.19468700	-0.46133900	-3.45360900	H	5.86650000	-0.51613600	-1.26607700
H	3.06997100	-1.54811300	-3.49870900	C	3.20080200	-0.31996900	0.23432100
H	3.75559400	-0.14934500	-4.33774400	O	-2.94703200	-2.46173100	-0.22100000
				O	-0.82615000	-3.04281600	0.15693400

H	-5.81576700	-1.74050200	2.62870100	H	4.29374700	3.92163900	1.77837700
H	-5.23636000	-2.19740100	1.01820400	H	6.58484200	3.22590100	2.42451400
H	-6.15680300	-0.70170200	1.23991400	Sn	1.51376100	-2.10857800	-0.85906900
H	-2.97404100	-1.78969900	3.90892600				
H	-2.35163400	-2.44290600	2.39487000				
H	-1.62612400	-0.98813900	3.09408000				
H	-4.59200100	0.44439400	4.22182700				
H	-5.11387500	1.55484000	2.95079400				
H	-3.44371900	1.59993500	3.53580200				
N	2.39056600	-1.10354300	0.94362300				
C	4.15240200	0.66280000	0.84330600				
C	-3.32954500	-3.83449400	-0.07770500				
C	2.04333900	-1.02358200	2.37461500				
C	5.43999500	0.27144400	1.20754000				
C	3.74210700	1.98027100	1.04690300				
H	-2.75737600	-4.46048300	-0.76243700				
H	-4.38794100	-3.87564200	-0.32514300				
H	-3.16586200	-4.16743500	0.94888800				
C	1.28006300	-2.31458400	2.68311200				
C	3.26111300	-0.95534200	3.30828000				
C	1.12305700	0.17549300	2.63676000				
H	5.75327700	-0.75668700	1.06236700				
C	6.31518700	1.19445000	1.77155000				
H	2.74287600	2.27448100	0.74482600				
C	4.61658700	2.89897300	1.61929000				
H	0.96132200	-2.32794200	3.72837400				
H	1.91530900	-3.18756200	2.50313400				
H	0.39066900	-2.39795100	2.05408900				
H	4.00255400	-1.71170000	3.03622200				
H	2.92991100	-1.15443500	4.33142300				
H	3.73976000	0.02421000	3.29999900				
H	1.64236100	1.11532200	2.44085500				
H	0.79389400	0.17490100	3.68112700				
H	0.24573400	0.13462500	1.98658600				
H	7.31544900	0.88591200	2.05349900				
C	5.90373000	2.50845700	1.98104600				