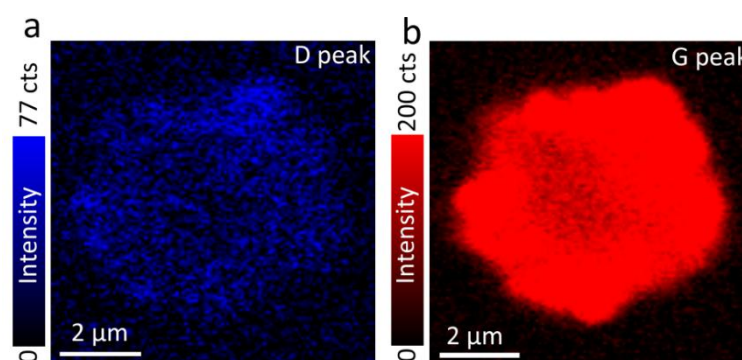
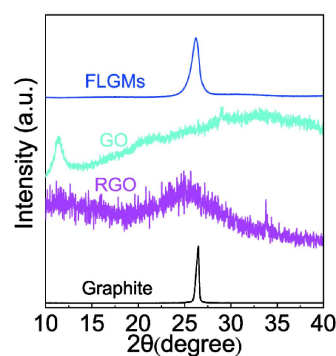


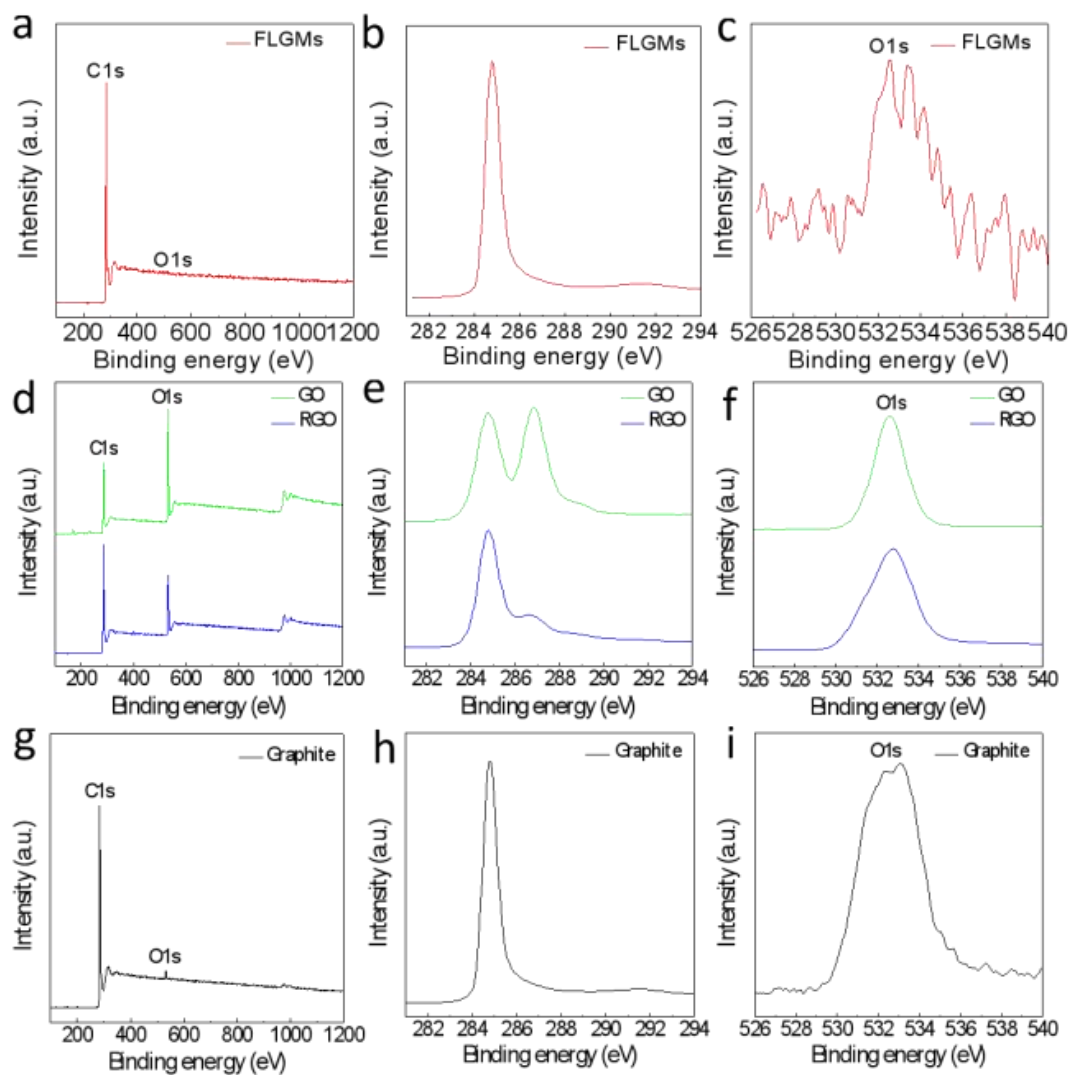
Supplementary Figure 1. SEM image of few layered graphene microspheres (FLGMs).



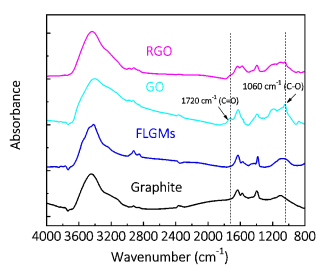
Supplementary Figure 2. Raman maps of FLGMs. (a) *D* band. (b) *G* band.



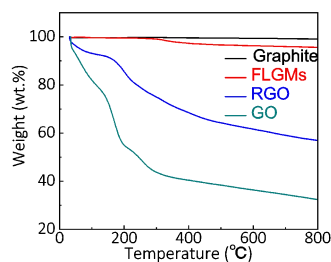
Supplementary Figure 3. XRD pattern of FLGMs compared to that of GO, RGO and graphite powders.



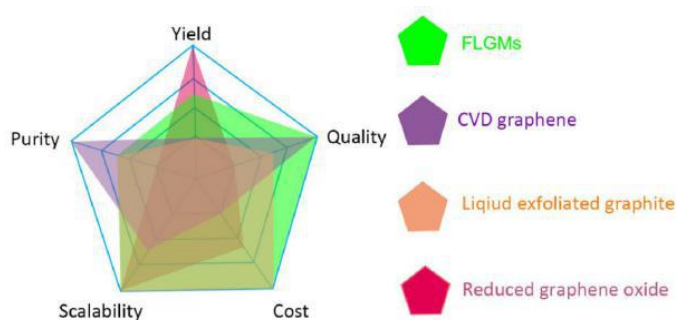
Supplementary Figure 4. XPS analyses of FLGMs together with that of GO, RGO and graphite powders. Survey, C 1s, and O 1s spectra of (a-c) FLGMs, (d-f) GO and RGO, and (g-i) graphite.



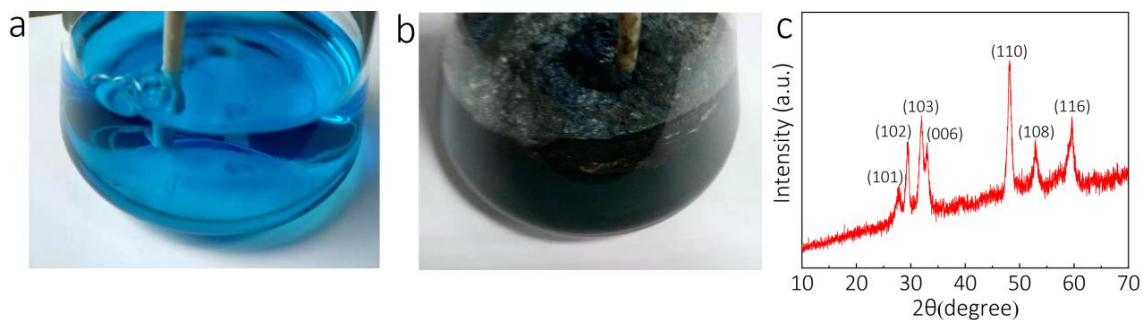
Supplementary Figure 5. FTIR spectra of FLGMs, GO, RGO and graphite powders.



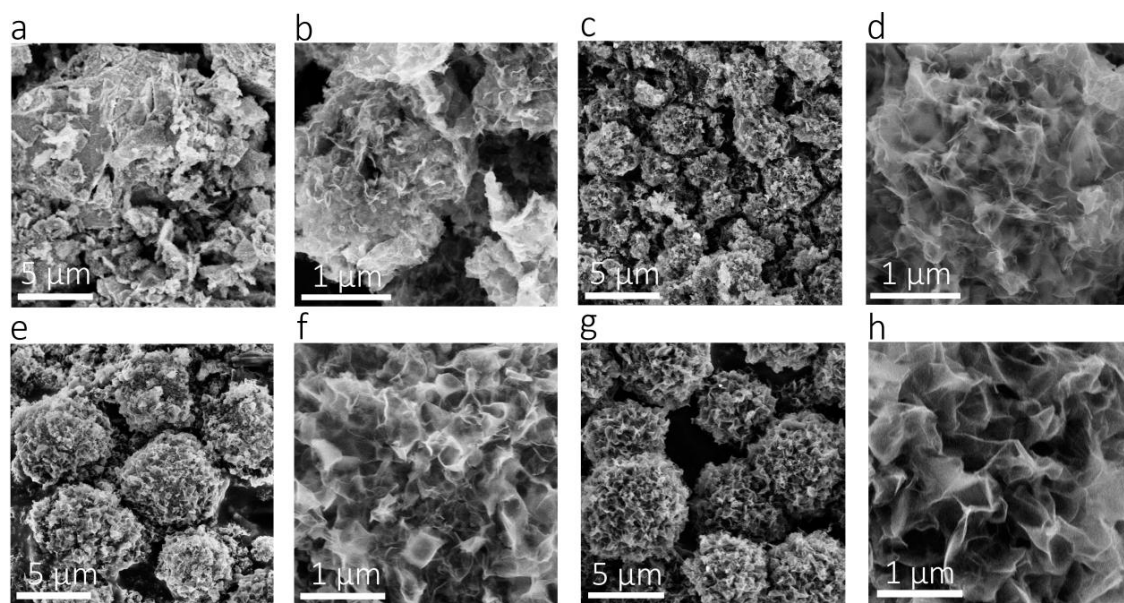
Supplementary Figure 6. Thermogravimetric analyses (TGA) of FLGMs together with that of GO, RGO and graphite powders under Ar atmosphere.



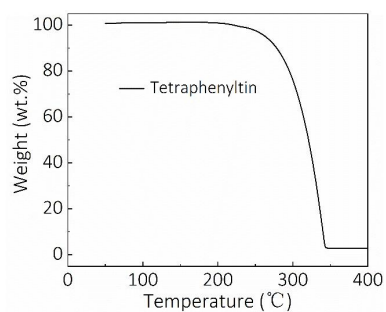
Supplementary Figure 7. A comparison of the important parameters (such as, yield, quality, cost, scalability, and purity) of FLGMs with corresponding parameters reported for graphene production in open literature¹⁻². The large size of the green colored area implies that FLGMs offer more integrated advantages.



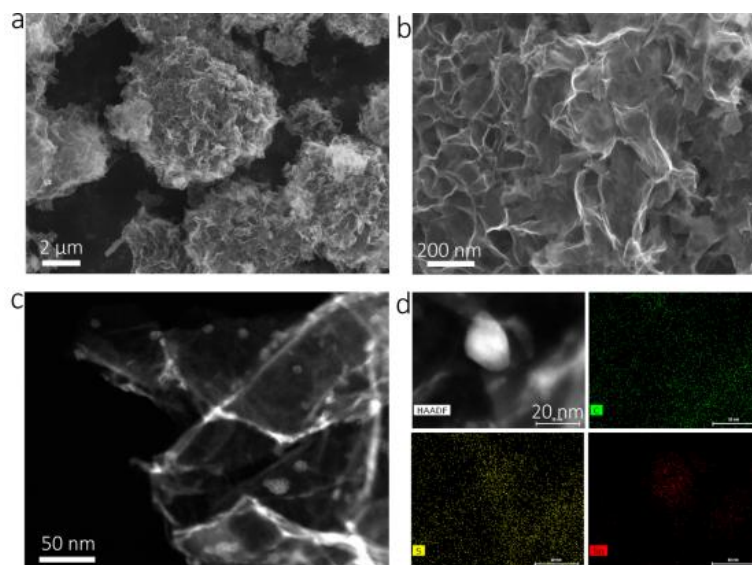
Supplementary Figure 8. (a) Neat aqueous CuSO_4 solution. (b) Upon bubbling the exhaust gases through the CuSO_4 solution, it turns dark in color due to the formation of CuS deposits. (c) XRD pattern of the CuS (JCPDS card number 06-0464) deposits.



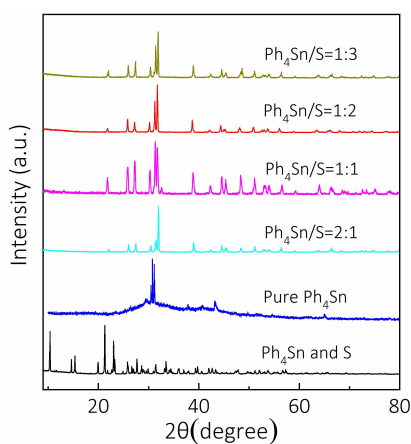
Supplementary Figure 9. SEM images of products formed with different tetraphenyltin/sulfur mass ratios at 650 °C: (a-b) pure tetraphenyltin, (c-d) 2:1, (e-f) 1:2, (g-h) 1:3.



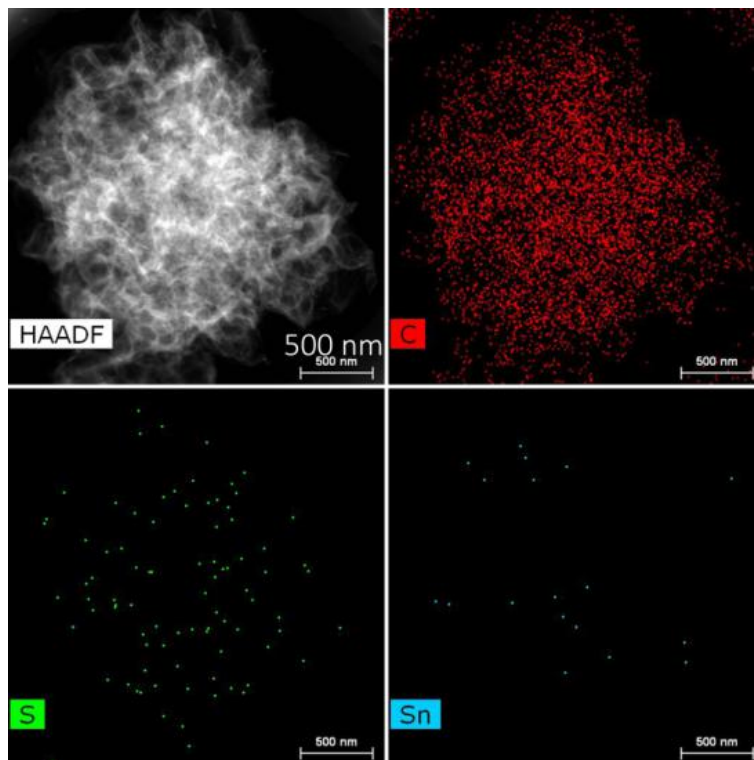
Supplementary Figure 10. TGA of tetraphenyltin under Ar atmosphere.



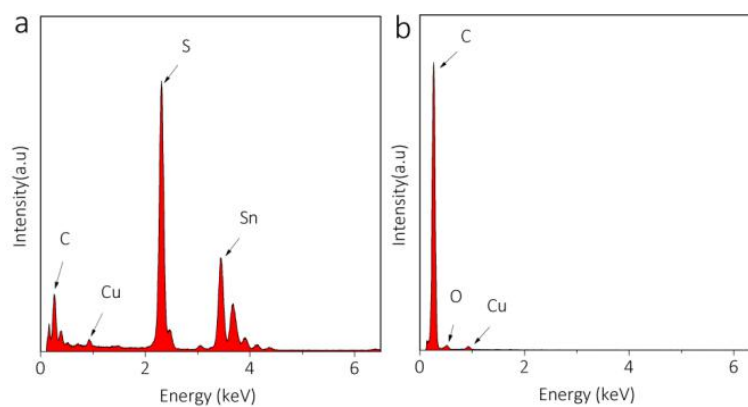
Supplementary Figure 11. (a-b) SEM images of the product obtained after annealing at 650 °C. (c) STEM image of this product, and (d) the corresponding energy-dispersive x-ray (EDX) maps for C, S and Sn elements.



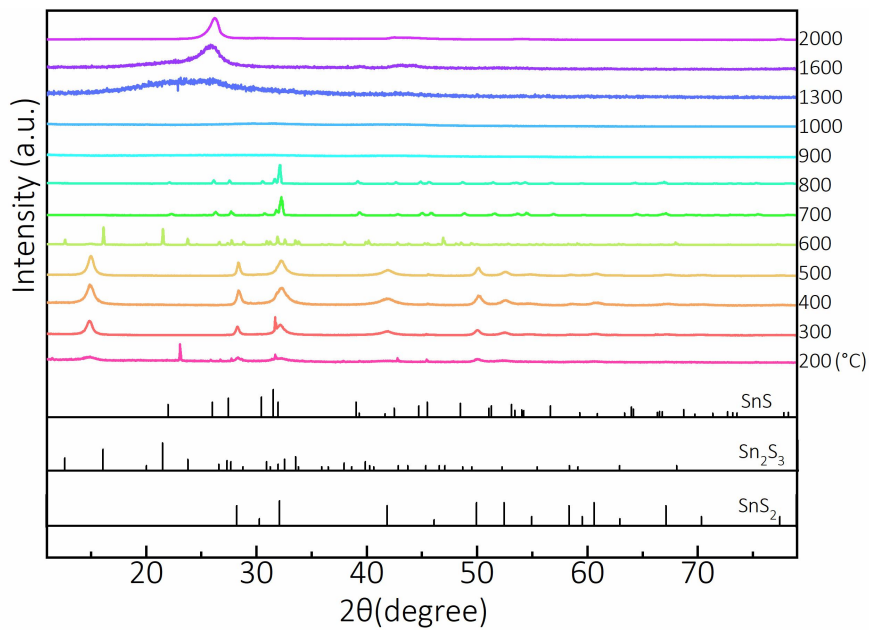
Supplementary Figure 12. The bottom most XRD pattern corresponds to that of a tetraphenyltin/sulfur mixture (mass ratio of 1:1) prior to annealing. The XRD patterns for tetraphenyltin/sulfur mixtures annealed at 650 °C are also shown in the figure for pure tetraphenyltin, 2:1, 1:1, 1:2, and 1:3 mixtures, indicating all tetraphenyltin/sulfur mixtures could form SnS (JCPDS card number 39-0354) and pure tetraphenyltin could form Sn (JCPDS card number 49-1455).



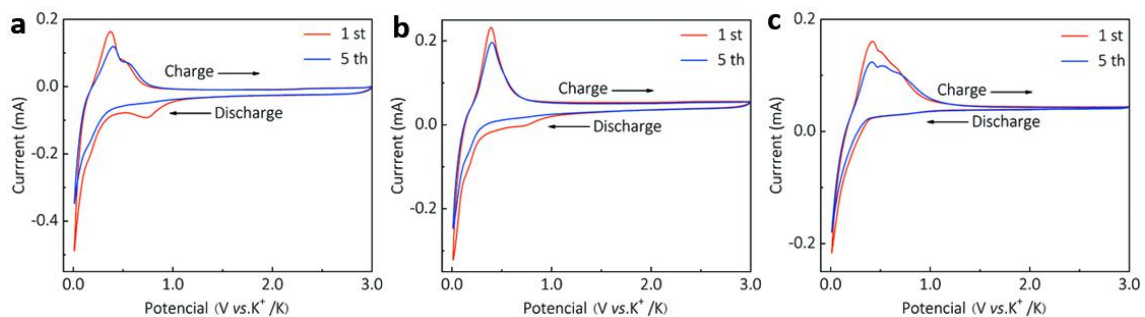
Supplementary Figure 13. STEM image of the product obtained after annealing at 900 °C, and the corresponding EDX maps for C, S and Sn elements.



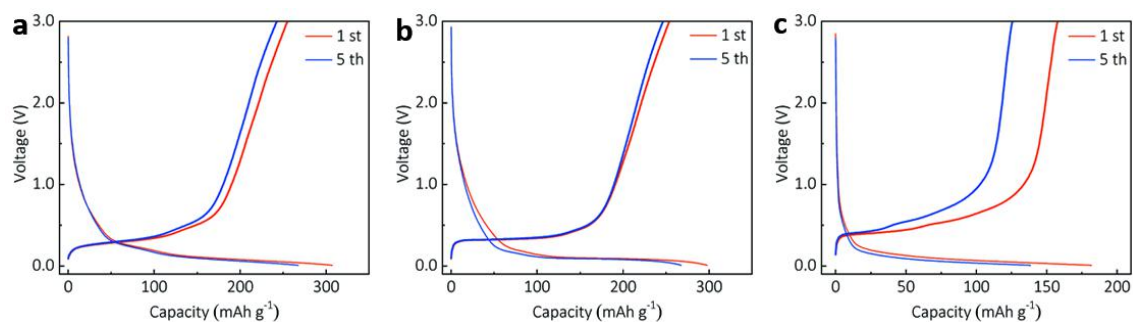
Supplementary Figure 14. EDX analyses of (a) the product obtained after annealing at 350 °C, and (b) FLGMs.



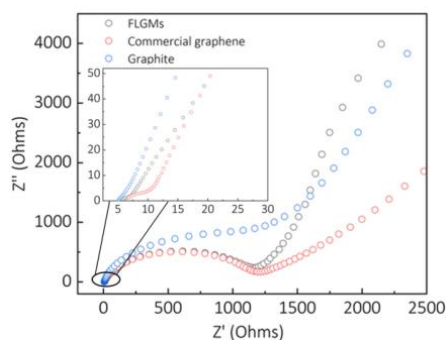
Supplementary Figure 15. XRD patterns of products obtained at different reaction temperatures.



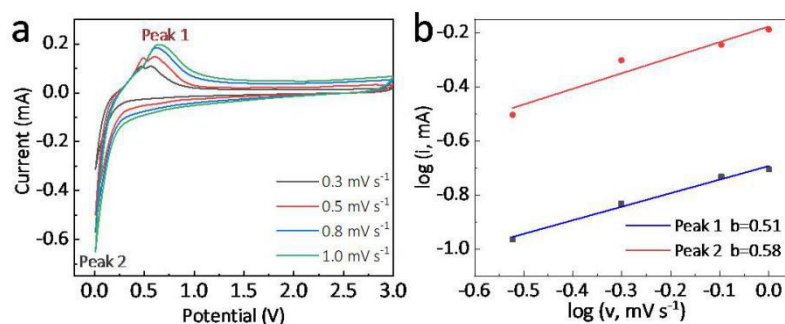
Supplementary Figure 16. CV curves of (a) FLGMs, (b) commercial graphene, and (c) graphite anodes at a scan rate of 0.2 mV s^{-1} for PIBs.



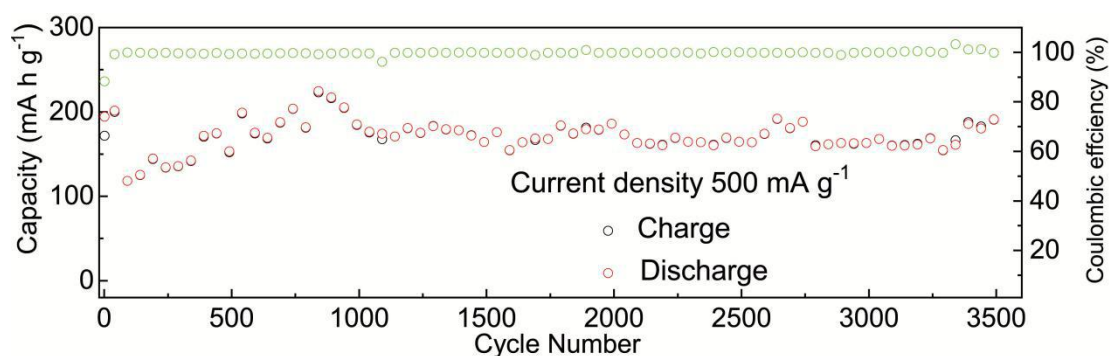
Supplementary Figure 17. Voltage profiles of (a) FLGMs, (b) commercial graphene, and (c) graphite anodes at 100 mA g⁻¹ for PIBs.



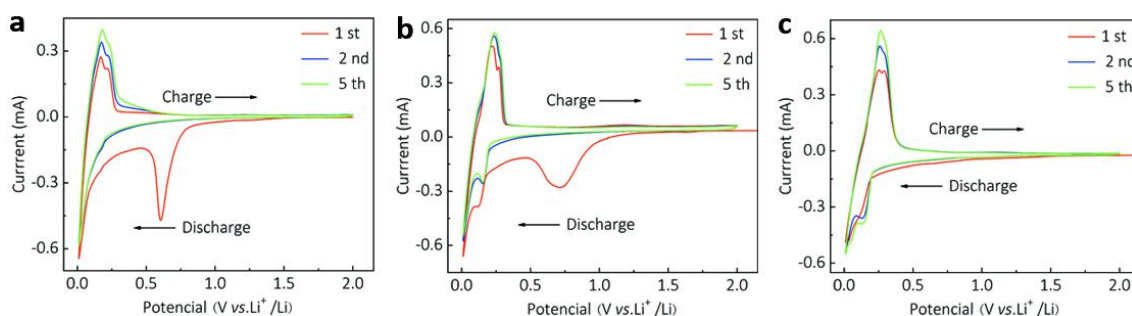
Supplementary Figure 18. The EIS plots of FLGMs, commercial graphene, and graphite anodes for PIBs.



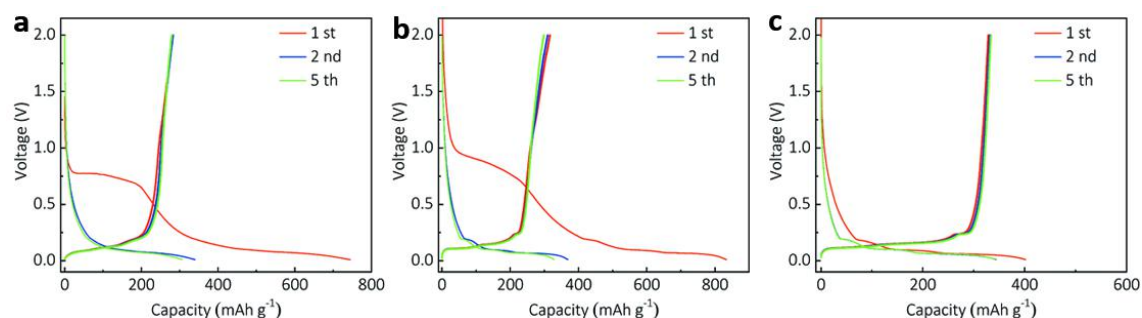
Supplementary Figure 19. (a) The cyclic voltammograms of FLGMs at various scan rates. (b) *b* values of anodic and cathodic peaks.



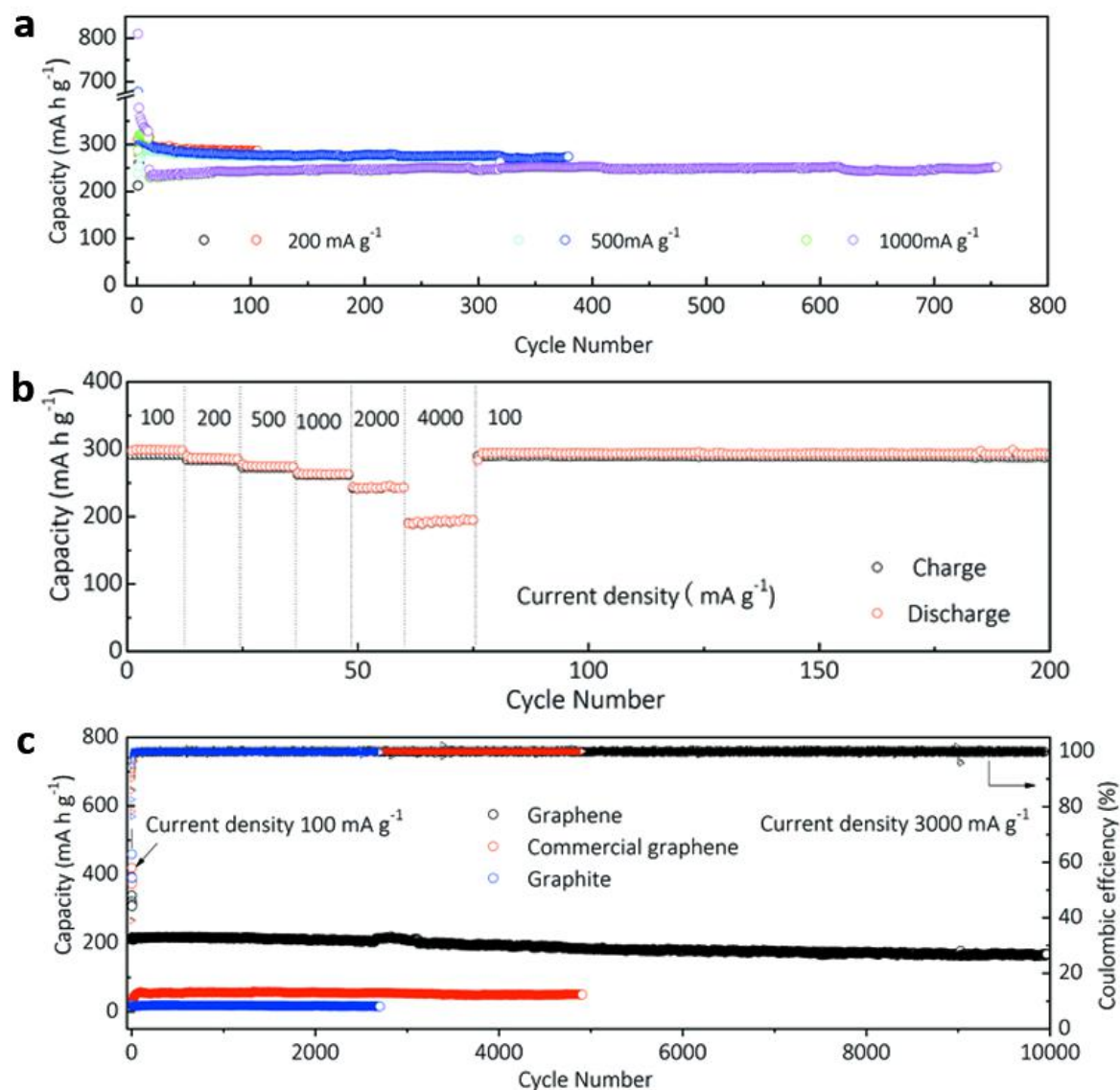
Supplementary Figure 20. Cycling performance of FLGMs at a current density of 500 mA g^{-1} in 3M KFSI/DME electrolyte.



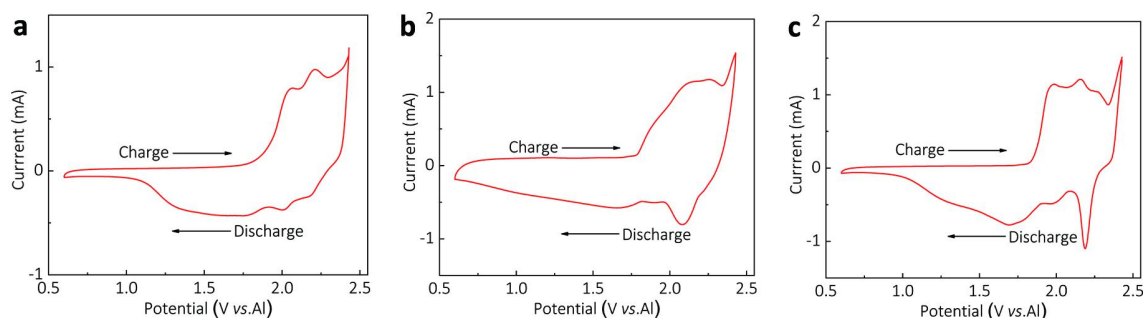
Supplementary Figure 21. CV curves of (a) FLGMs, (b) commercial graphene, and (c) graphite anodes at a scan rate of 0.2 mV s^{-1} for LIBs. The peak at $\sim 0.1 \text{ V}$ is attributed to the lithiation of graphene. Correspondingly, the peak at $\sim 0.27 \text{ V}$ is related to the delithiation of graphene.



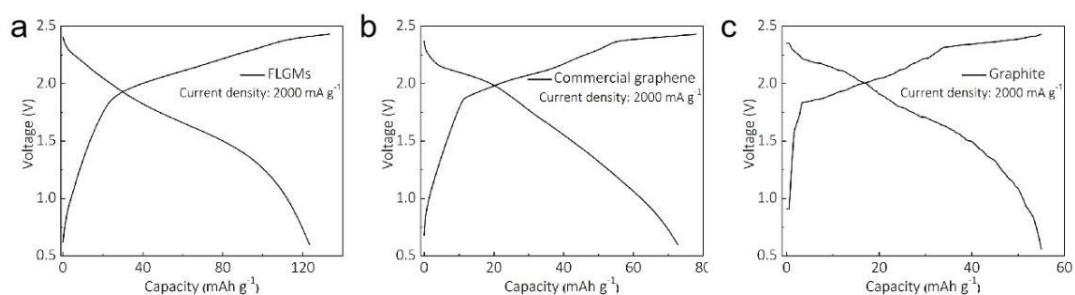
Supplementary Figure 22. Voltage profiles of (a) FLGMs, (b) commercial graphene, and (c) graphite anodes at 100 mA g^{-1} for LIBs.



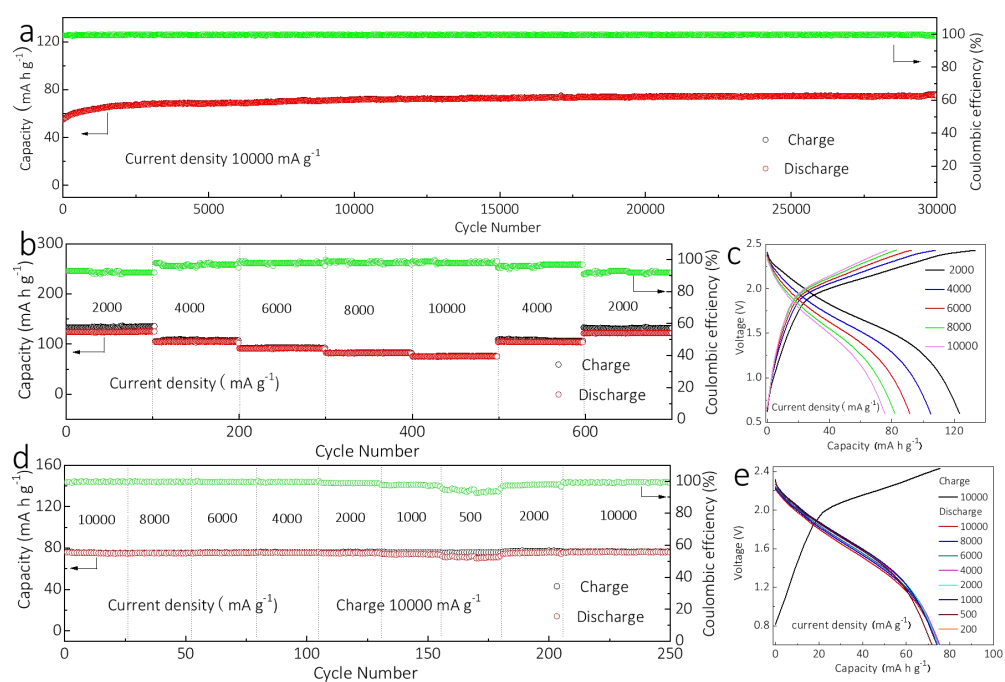
Supplementary Figure 23. (a) Galvanostatic cycling of FLGMs at 200, 500 and 1000 mA g⁻¹ for LIBs. (b) Rate performance of FLGMs at 100, 200, 500, 1000, 2000, and 4000 mA g⁻¹ for LIBs. (c) Galvanostatic cycling of the FLGMs, commercial graphene and graphite anodes at 3,000 mA g⁻¹ for LIBs.



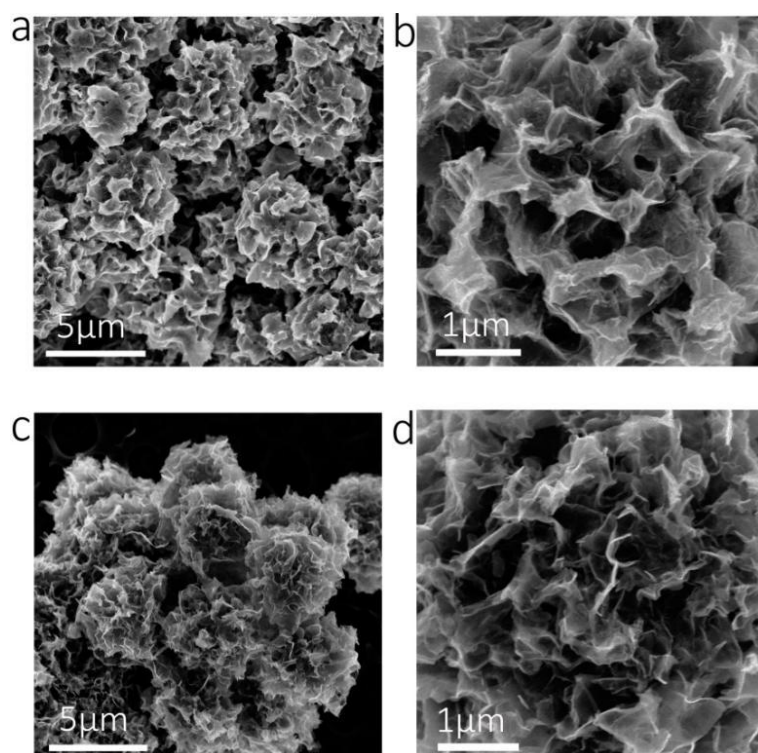
Supplementary Figure 24. CV curves of (a) FLGMs, (b) commercial graphene, and (c) graphite cathodes at a scan rate of 5 mV s^{-1} for Al batteries. The Al storage behavior of FLGMs was studied using CV of a pouch cell at 5 mV s^{-1} between 0.6 and 2.43 V. During deintercalation, the two reduction peaks at ~ 1.65 and ~ 2.1 V correspond to the deintercalation of AlCl_4^- ions from graphene. The oxidation peak present at ~ 2.2 V is due to the intercalation of AlCl_4^- ions.



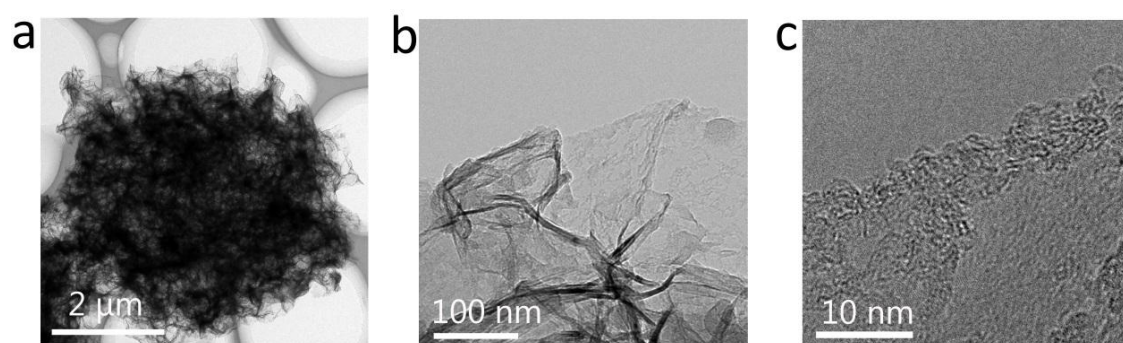
Supplementary Figure 25. Voltage profiles of (a) FLGMs, (b) commercial graphene, and (c) graphite cathodes at 2000 mA g^{-1} for Al batteries.



Supplementary Figure 26. (a) Galvanostatic cycling of the FLGMs cathode at 10,000 mA g⁻¹ for Al batteries. (b) Rate performance of FLGMs cathode and the (c) corresponding charge/discharge curves. (d) Fast charge- slow discharge performance of FLGMs cathode and the (e) corresponding charge/discharge curves.



Supplementary Figure 27. SEM images of a FLGMs anode that were collected after 100 cycles for a LIB (a-b), and 1000 cycles for an Al battery (c-d).



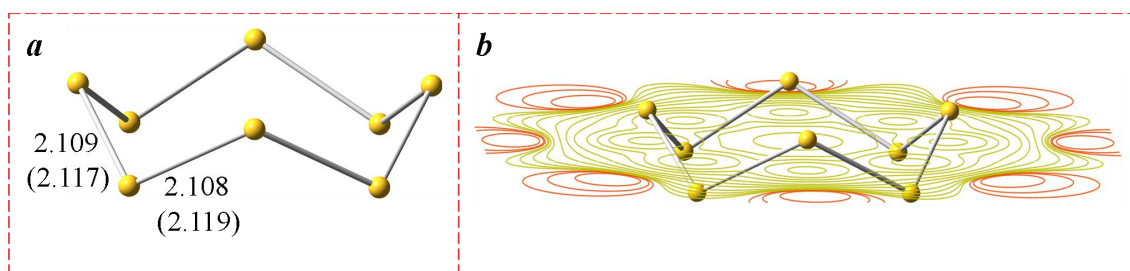
Supplementary Figure 28. TEM images of a FLGMs cathode after 1000 cycles in an Al battery.

Notes regarding DFT

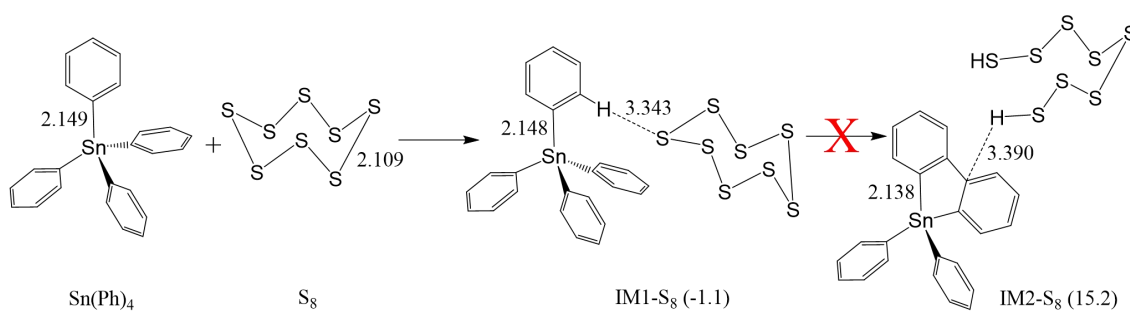
The S-S bonds of S₈ are arranged alternatively, and the isoelectric potential surface proves that this symmetrical configuration has no outstanding atoms (Supplementary Fig. 29). Our theoretical model also shows no reaction activities for this inactive S₈ cluster (Supplementary Fig. 30). Without doubt, the S₈ cluster can be melted and pyrolyzed to small fragments such as gaseous disulfur molecules. Like dioxygen O₂, the triplet diatomic sulfur S₂ ($X^3\Sigma_g^-$, labeled as ³S₂) is more stable than the singlet one ($a^1\Delta_g$, abbreviated as ¹S₂). Our B3LYP calculation shows that the Gibbs free energy difference between ¹S₂ and ³S₂ is 23.3 kcal/mol, according well with the experimental and theoretical results³⁻⁴. However, the DFT calculations proves that, due to spin inhibition⁵, the benzene ring fusion of Sn(Ph)₄ aided with triplet ³S₂ is spin-forbidden.

Two-dimensional and planar polycyclic aromatics with large π -conjugated planes are among the stable low-energy allotropes of carbon, and can be prepared from various polyaromatic compounds. To form fused polycyclic aromatics, sulfur must capture hydrogen atoms from Sn(Ph)₄.

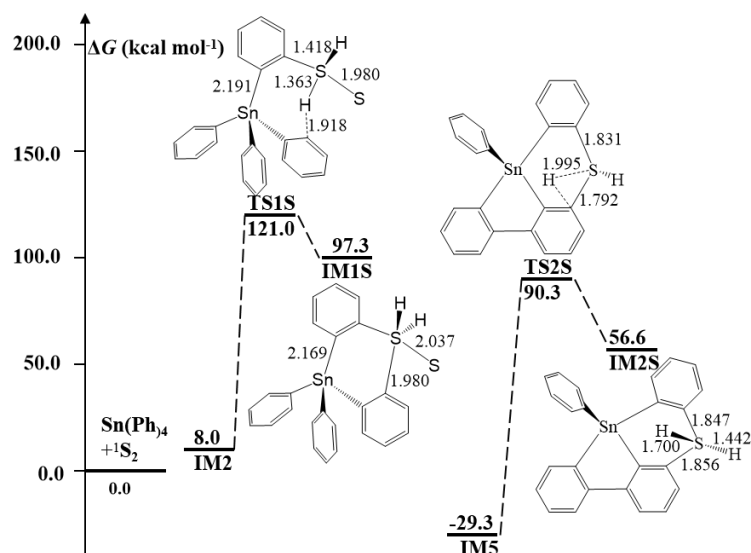
In **IM2**, the terminal rather than the intervening sulfur atom extracts a hydrogen atom from the benzene ring because the barrier of the hydrogen-abstraction by this intervening S atom is as high as 113.0 kcal mol⁻¹, See the step via **TS1S** in Supplementary Fig. 31. Then through the shortest reaction route, the two sulfhydryl (-SH) groups can explicitly abstract hydrogen to fuse benzene rings to generate a polyaromatic compound **IM7**. However, these two synergetic ring-fusion and H₂S-release processes via **TS3'** and **TS4'** are energetically unfavorable due to their high barriers of 86.7 and 114.1 kcal mol⁻¹, so there must exist more favorable pathways. For **IM5'**, the -SH group can also insert into a C-H bond to form an eccentric intermediate with a bridging SH₂, but the barrier is even higher than that via **TS4'** by 5.5 kcal mol⁻¹ (Supplementary Fig. 32).



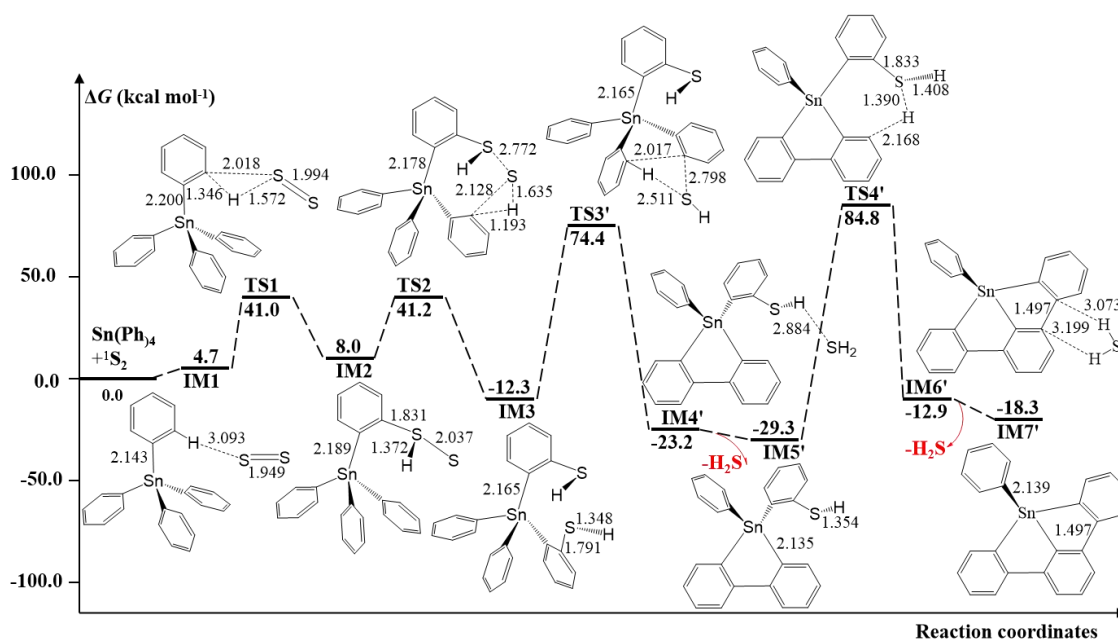
Supplementary Figure 29 | B3LYP-optimized structural parameters and isoelectric potential surface for the S_8 cluster. *a*, Structural parameters optimized at 6-311+G(d) basis set level based on the B3LYP and BP86 (in brackets) functionals. *b*, Isoelectric potential (isovalue = 0.02 e) surface in 0.004 e/Bohr^3 obtained at B3LYP/6-311+G(d) level. Bond lengths are in Å.



Supplementary Figure 30 | B3LYP-optimized structural parameters (in Å) and relative free-energy differences (shown in brackets). The relative energies given in kcal/mol are compared with $\text{Sn(Ph)}_4 + S_8$.



Supplementary Figure 31 | Optimized structural parameters and relative Gibbs free energies for the reaction steps via TS1S and TS2S. Bond lengths are in Å. The relative energies given in kcal/mol are compared with $\text{Sn}(\text{Ph})_4 + ^1\text{S}_2$.



Supplementary Figure 32 | Optimized structural parameters and relative Gibbs free energies for the reaction steps via TS1, TS2, TS3' and TS4'. Bond lengths are in Å. The relative energies given in kcal/mol are compared with $\text{Sn}(\text{Ph})_4 + ^1\text{S}_2$.

Table S1

Table S1 | Cartesian coordinates of all species shown in Fig. 3 and Fig. S28 obtained at B3LYP/6-311+G(d)- LanL2DZ level (6-311+G(d) for C, H and S, and LanL2DZ for Sn)

Species	Cartesian coordinates			
S ₈	S	-1.68049500	1.75448100	-0.49681300
	S	-2.42889400	0.05272200	0.49704700
	S	0.05312200	2.42827300	0.49726200
	S	-1.75442000	-1.67982000	-0.49758300
	S	1.75472000	1.67965400	-0.49749400
	S	2.42881000	-0.05261400	0.49689800
	S	-0.05317000	-2.42810400	0.49729400
	S	1.68032800	-1.75459200	-0.49661000
¹ S ₂	S	0.00000000	0.00000000	0.96431100
	S	0.00000000	0.00000000	-0.96431100
³ S ₂	S	0.00000000	0.00000000	0.96365400
	S	0.00000000	0.00000000	-0.96365400
Sn(Ph) ₄	Sn	0.00033800	0.00136300	-0.00022900
	C	1.28978000	1.71159600	0.16896900
	C	0.99191900	2.76214500	1.04985800
	C	2.45042600	1.81858100	-0.61319100
	C	1.81884600	3.88217900	1.14269900
	H	0.10950700	2.71025700	1.68202700
	C	3.28044500	2.93658000	-0.52478300
	H	2.72612700	1.01865000	-1.29582200
	C	2.96401600	3.97204300	0.35326100
	H	1.56987500	4.68250600	1.83315900
	H	4.17401800	2.99730200	-1.13885300
	H	3.60846900	4.84278500	0.42415000
	C	-1.24989100	0.18628500	-1.73762300
	C	-2.42274400	-0.57469800	-1.86343400
	C	-0.91536700	1.05676000	-2.78566200
	C	-3.22888800	-0.47635900	-2.99802000
	H	-2.72627400	-1.24868100	-1.06623500
	C	-1.71804500	1.15889200	-3.92245700
	H	-0.02262700	1.67295300	-2.71950000
	C	-2.87576800	0.39033800	-4.03112600
	H	-4.13258500	-1.07378800	-3.07360000
	H	-1.44050200	1.84019200	-4.72122400
	H	-3.50180000	0.46895400	-4.91455900
	C	-1.26750100	-0.14200200	1.72873700
	C	-2.40778400	0.66679100	1.85480500
	C	-0.97555800	-1.03400600	2.77146400

	C	-3.22337700	0.59331400	2.98449400
	H	-2.67888300	1.35893000	1.06155500
	C	-1.78815800	-1.11185600	3.90311200
	H	-0.10874700	-1.68624900	2.70449000
	C	-2.91293400	-0.29601300	4.01216800
	H	-4.10158000	1.22759700	3.06007500
	H	-1.54400000	-1.81109000	4.69728400
	H	-3.54657000	-0.35523500	4.89166600
	C	1.22891100	-1.75386800	-0.16009700
	C	0.89951800	-2.79300200	-1.04315700
	C	2.37981600	-1.90134300	0.62974800
	C	1.68707500	-3.94153000	-1.13092000
	H	0.02277600	-2.71006000	-1.68011300
	C	3.17014000	-3.04820500	0.54671600
	H	2.67867000	-1.11164900	1.31455900
	C	2.82317200	-4.07163000	-0.33388100
	H	1.41451200	-4.73276400	-1.82294500
	H	4.05720600	-3.14037100	1.16632000
	H	3.43723600	-4.96434900	-0.40105200
IM1	Sn	0.59873300	0.03808800	0.03655600
	C	-1.08542200	0.05533700	-1.31379500
	C	-1.60918900	-1.14966100	-1.85805300
	C	-1.68697100	1.25686900	-1.69607200
	C	-2.65184000	-1.13967700	-2.78662900
	H	-1.16116600	-2.10086000	-1.58655600
	C	-2.80794400	1.26043600	-2.52641900
	H	-1.33185800	2.20161000	-1.29575100
	C	-3.28163500	0.05720000	-3.09282700
	H	-3.01222400	-2.07298200	-3.20564000
	H	-3.28876900	2.19889500	-2.78259600
	H	-4.12785600	0.07748800	-3.77047100
	C	2.40548100	0.21364200	-1.11266600
	C	3.63652100	-0.20925100	-0.58745600
	C	2.39911100	0.78355400	-2.39470800
	C	4.81876500	-0.06777000	-1.31506500
	H	3.68347500	-0.66538800	0.39818300
	C	3.57820400	0.92778300	-3.12641700
	H	1.46526900	1.11726300	-2.83965700
	C	4.79094000	0.50261700	-2.58663400
	H	5.75947600	-0.40421900	-0.88957300
	H	3.54907100	1.36927300	-4.11810700
	H	5.70928900	0.61296200	-3.15491300
	C	0.65509800	-1.83238600	1.08495100
	C	1.25442000	-2.96138100	0.50526500

TS1	C	0.08297600	-1.96953200	2.35857900
	C	1.27485600	-4.18772100	1.17079100
	H	1.72420000	-2.89137200	-0.47266900
	C	0.10336300	-3.19283700	3.02844100
	H	-0.38192200	-1.11549900	2.84303300
	C	0.69744000	-4.30499700	2.43389700
	H	1.74383300	-5.04897300	0.70438800
	H	-0.34423300	-3.27661100	4.01413900
	H	0.71316400	-5.25776700	2.95395600
	C	0.39632900	1.71066200	1.36165700
	C	1.50483600	2.51217200	1.67399600
	C	-0.83924600	2.02873900	1.94742700
	C	1.38631200	3.59399600	2.54686600
	H	2.47431900	2.30212000	1.23008000
	C	-0.95973700	3.10986500	2.82134800
	H	-1.72180500	1.43631300	1.72175900
	C	0.15310900	3.89306800	3.12356100
	H	2.25602700	4.20329100	2.77405800
	H	-1.92447300	3.34099000	3.26283400
	H	0.05899400	4.73505800	3.80244100
	S	-3.33392700	-0.86485700	0.42753600
	S	-4.60820500	0.36421000	-0.38859600
	Sn	-0.28112200	-0.05072100	0.06168700
	C	0.72554300	0.01126000	1.95411500
	C	0.56477700	-0.99382500	2.91835400
	C	1.54257500	1.10603800	2.27434200
	C	1.19497400	-0.90789900	4.15837100
	H	-0.04461700	-1.86674300	2.70197600
	C	2.18206400	1.19340500	3.51275900
	H	1.68885300	1.91284600	1.55922000
	C	2.00699400	0.18581200	4.45802000
	H	1.05772800	-1.69902100	4.88935300
	H	2.81405100	2.04774700	3.73674500
	H	2.50147300	0.25037400	5.42225300
	C	-1.82994400	1.46576200	0.17513500
	C	-2.92970000	1.43592000	-0.69751600
	C	-1.77340700	2.50470100	1.11600100
	C	-3.92527900	2.41260700	-0.64454800
	H	-3.02661800	0.63380100	-1.42496500
	C	-2.76749800	3.48254000	1.17744000
	H	-0.95164700	2.55284800	1.82502200
	C	-3.84428500	3.44062600	0.29349200
	H	-4.76629500	2.36621500	-1.33028400
	H	-2.70276100	4.27400800	1.91841400

	H	-4.61900900	4.19987700	0.33946400
	C	-1.40255300	-1.80439900	-0.45954900
	C	-2.57078900	-2.07517700	0.27003300
	C	-1.07668400	-2.65342400	-1.52547300
	C	-3.37628100	-3.17119200	-0.04121600
	H	-2.87332600	-1.42566800	1.08734900
	C	-1.89007300	-3.73897900	-1.85084900
	H	-0.17340200	-2.48359600	-2.10021200
	C	-3.03723900	-4.00478600	-1.10517800
	H	-4.26906300	-3.36877500	0.54447800
	H	-1.62070600	-4.38239300	-2.68307700
	H	-3.66509000	-4.85502200	-1.35334900
	C	1.06927500	0.84761400	-1.42437600
	C	0.51898900	1.88011900	-2.20322400
	C	2.45544400	0.66772100	-1.55968300
	C	1.28705100	2.65802200	-3.06841000
	H	-0.54119200	2.09643500	-2.12127900
	C	3.25853500	1.45159600	-2.41051900
	H	3.03776200	0.46806900	-0.36298400
	C	2.66612300	2.45196300	-3.16153400
	H	0.81075400	3.43006100	-3.66369200
	H	4.32501200	1.26174600	-2.48324300
	H	3.27144500	3.05689800	-3.82863100
	S	2.15230700	-2.35494700	-0.28328400
	S	3.44213600	-0.95816800	-0.88501800
IM2	Sn	0.28518900	0.03477600	0.07726200
	C	-0.82215500	-0.16041400	1.91153300
	C	-0.88992100	0.88226500	2.84687200
	C	-1.47405200	-1.36613800	2.22283700
	C	-1.57186000	0.72466800	4.05241900
	H	-0.41747400	1.83592500	2.63198000
	C	-2.16795700	-1.52524500	3.42573400
	H	-1.43978500	-2.20469200	1.53039600
	C	-2.21510100	-0.47855800	4.34322300
	H	-1.60994600	1.54579700	4.76164800
	H	-2.66543000	-2.46563200	3.64365800
	H	-2.75050300	-0.59844600	5.27985300
	C	1.93596900	-1.36527600	0.21857600
	C	3.05251800	-1.22574600	-0.62179800
	C	1.93823500	-2.43325100	1.12837700
	C	4.12057000	-2.12230900	-0.56754500
	H	3.10625700	-0.39683200	-1.32315700
	C	3.00416700	-3.33209900	1.19097800
	H	1.10585700	-2.56791400	1.81323000

	C	4.09712600	-3.18034400	0.33961900
	H	4.97252000	-1.99030700	-1.22816700
	H	2.98237800	-4.14769600	1.90791400
	H	4.92786200	-3.87773600	0.38706100
	C	1.28073100	1.89504600	-0.30719600
	C	2.43103500	2.20007300	0.43660100
	C	0.87191000	2.80099600	-1.29519500
	C	3.14066900	3.38080800	0.21331500
	H	2.79395000	1.51258300	1.19613800
	C	1.58869100	3.97382500	-1.53227100
	H	-0.02155200	2.60330200	-1.87692100
	C	2.72070100	4.26952400	-0.77426600
	H	4.02180700	3.60215400	0.80816200
	H	1.25649100	4.66055000	-2.30506100
	H	3.27351200	5.18661700	-0.95338600
	C	-0.91418100	-0.82109100	-1.54216900
	C	-0.24613500	-1.62516300	-2.47783600
	C	-2.29702500	-0.69801200	-1.72041900
	C	-0.91380700	-2.23549400	-3.54238100
	H	0.82158000	-1.79255600	-2.37499100
	C	-2.98813500	-1.30050200	-2.76962000
	H	-3.02314600	-0.36557800	0.53194900
	C	-2.28665300	-2.07418800	-3.69284000
	H	-0.35522100	-2.83761900	-4.25208800
	H	-4.06053900	-1.16532400	-2.86850100
	H	-2.81245400	-2.54192600	-4.51856200
	S	-2.45143100	2.13030500	-0.35955800
	S	-3.34467100	0.31758700	-0.61378700
TS2	Sn	-0.22642000	-0.11848400	0.04706000
	C	0.26130500	0.67907800	-1.89027000
	C	-0.07612700	1.98990300	-2.25766300
	C	0.91711900	-0.12163600	-2.83962000
	C	0.22612800	2.48265200	-3.52678500
	H	-0.57251300	2.64345000	-1.54639800
	C	1.22381100	0.36759800	-4.11093700
	H	1.20604100	-1.14076300	-2.59254200
	C	0.87717000	1.67222500	-4.45636900
	H	-0.04208600	3.50189500	-3.78824800
	H	1.73376300	-0.26927900	-4.82751000
	H	1.11530400	2.05663000	-5.44324300
	C	-1.75686500	-1.63402700	-0.23017700
	C	-2.55905100	-2.05071500	0.84460000
	C	-1.98738200	-2.23074600	-1.47895700
	C	-3.54253900	-3.02801900	0.68473000

IM3	H	-2.42782500	-1.60639600	1.82887200
	C	-2.96993100	-3.20765800	-1.64809600
	H	-1.40295300	-1.92811000	-2.34363400
	C	-3.74877500	-3.61041300	-0.56479600
	H	-4.14831500	-3.33166400	1.53360300
	H	-3.12899000	-3.65099600	-2.62677700
	H	-4.51373800	-4.36994600	-0.69384500
	C	-1.33502100	1.40537600	1.14301700
	C	-2.69363500	1.65697600	0.95271900
	C	-0.59545200	2.36396900	1.86058700
	C	-3.28405100	2.82604900	1.44953800
	H	-3.30388300	0.95010500	0.39806600
	C	-1.16685800	3.54002000	2.36294100
	H	0.29319200	1.93965800	2.53422800
	C	-2.52349700	3.76574100	2.14716000
	H	-4.34141800	3.00652900	1.28235200
	H	-0.56126600	4.24753600	2.91819000
	H	-2.98818500	4.67051500	2.52561100
	C	1.48045700	-1.25443200	0.78095900
	C	1.18901700	-2.50044200	1.35921400
	C	2.83814900	-0.87390400	0.74267800
	C	2.17476800	-3.31523300	1.91510600
	H	0.16159900	-2.85118400	1.37574600
	C	3.83294700	-1.69151000	1.28834900
	H	2.70663800	0.74354100	-1.04299500
	C	3.50291500	-2.90444900	1.88601100
	H	1.90289700	-4.26672800	2.36132600
	H	4.87079600	-1.37943300	1.23275900
	H	4.28465100	-3.52692800	2.30935200
	S	1.46523500	2.09124900	1.40481200
	S	3.45786900	0.69171100	0.08071800
	Sn	0.24757200	-0.07823700	0.04336300
	C	-0.23922800	0.07841200	2.12803000
	C	-0.20497200	1.32367000	2.77270500
	C	-0.52778400	-1.05810100	2.90028100
	C	-0.45228600	1.43184100	4.14165700
	H	0.01381900	2.22486800	2.20673600
	C	-0.77299900	-0.95459500	4.26908100
	H	-0.58098000	-2.03927100	2.43572100
	C	-0.73571400	0.29226300	4.89204900
	H	-0.42496400	2.40604200	4.62030900
	H	-0.99872400	-1.84574700	4.84674300
	H	-0.92973600	0.37499800	5.95689900
	C	2.17674900	-1.03763700	-0.09294800

	C	2.92745200	-1.04738300	-1.28001600
	C	2.72714000	-1.67516900	1.02916200
	C	4.17075500	-1.67617600	-1.34828300
	H	2.55510600	-0.54789300	-2.17088500
	C	3.97058500	-2.30613300	0.96757100
	H	2.18919400	-1.67835600	1.97283400
	C	4.69442100	-2.31021500	-0.22272000
	H	4.73067200	-1.66776300	-2.27875600
	H	4.37363900	-2.79172400	1.85129300
	H	5.66185600	-2.80011000	-0.27273700
	C	0.55188300	1.89985400	-0.78341100
	C	1.86742400	2.36357600	-0.93433500
	C	-0.49057300	2.77389200	-1.14156000
	C	2.14292400	3.65009500	-1.39947200
	H	2.69885600	1.71752000	-0.67008600
	C	-0.22041800	4.06022600	-1.61624500
	H	-2.28162200	1.33138200	-1.81183800
	C	1.09612500	4.50057600	-1.74000100
	H	3.17188500	3.98368800	-1.49082400
	H	-1.04237900	4.71161900	-1.89197300
	H	1.29755300	5.50223400	-2.10634700
	C	-1.13043300	-1.29694100	-1.11280600
	C	-0.54961100	-1.88404400	-2.25282000
	C	-2.49268600	-1.57730500	-0.87234500
	C	-1.26115600	-2.69989700	-3.12682500
	H	0.50208800	-1.71655000	-2.46310300
	C	-3.21153800	-2.40273000	-1.75245000
	H	-2.57140500	-0.15277100	1.05583100
	C	-2.60513300	-2.95889900	-2.87003300
	H	-0.76913900	-3.13127600	-3.99241500
	H	-4.25976500	-2.60672900	-1.55438900
	H	-3.18294300	-3.59277400	-3.53524900
	S	-2.22526500	2.32857800	-0.89950500
	S	-3.46955900	-0.99761800	0.51191100
TS3'	Sn	0.45385500	-0.24553800	0.07827600
	C	-1.00714600	-0.62969100	1.65573800
	C	-1.17712700	-1.75870400	2.43234200
	C	-2.13440400	0.26032700	1.47098100
	C	-2.41620300	-2.03068400	3.04369300
	H	-0.36585600	-2.47015300	2.55937300
	C	-3.34724200	0.01253400	2.18545400
	H	-1.90960600	1.30350400	1.30650000
	C	-3.49713200	-1.14770100	2.91963500
	H	-2.53642200	-2.94269700	3.62108300

	H	-4.14480500	0.74711500	2.13526900
	H	-4.43160400	-1.36330600	3.42704200
	C	1.80876300	-1.86671500	-0.23196800
	C	3.19245800	-1.68209800	-0.09704800
	C	1.33654200	-3.14672200	-0.56140000
	C	4.07793100	-2.74411400	-0.28219500
	H	3.59110900	-0.70227600	0.15080600
	C	2.21963400	-4.21020600	-0.74631600
	H	0.27144500	-3.32445600	-0.68440700
	C	3.59229900	-4.00956200	-0.60653000
	H	5.14618700	-2.58157800	-0.17667700
	H	1.83639100	-5.19311100	-1.00313500
	H	4.28070200	-4.83602100	-0.75273600
	C	1.49136400	1.56756300	0.53739700
	C	2.02000900	1.76514800	1.82047600
	C	1.69663200	2.55815100	-0.43726700
	C	2.76428700	2.90455500	2.12385200
	H	1.85682500	1.02367300	2.59881700
	C	2.44002300	3.70165500	-0.13220500
	H	-0.29486700	2.58497400	-1.71903700
	C	2.97882900	3.86900500	1.14205200
	H	3.17306100	3.03720500	3.12057700
	H	2.58304300	4.46258800	-0.89114200
	H	3.55510200	4.76039100	1.36913700
	C	-1.29212500	-0.38590200	-1.15218200
	C	-1.43891100	-1.01779800	-2.39340100
	C	-2.45512900	-0.01982400	-0.50082100
	C	-2.70681600	-1.27882200	-2.91719200
	H	-0.55502200	-1.31939300	-2.94872000
	C	-3.73226200	-0.28091900	-0.95555700
	H	-3.05881900	2.77950400	-1.86422200
	C	-3.84410000	-0.92249200	-2.19384200
	H	-2.80624200	-1.77083300	-3.87925400
	H	-4.61440500	0.04161200	-0.41766900
	H	-4.83360400	-1.12035300	-2.59505000
	S	1.01788200	2.35870500	-2.09368400
	S	-2.44640600	2.77370800	-0.65709900
IM4'	Sn	0.13007100	-0.48381500	0.08657800
	C	-1.52685400	-0.96225300	1.36000300
	C	-1.56584000	-1.58546900	2.60792800
	C	-2.73112600	-0.53100400	0.75450700
	C	-2.77504500	-1.77838600	3.27805900
	H	-0.64769600	-1.93739600	3.07182100
	C	-3.93922100	-0.72716300	1.43911600

	H	-0.05712700	3.84122500	0.28264300
	C	-3.95956700	-1.34218100	2.68857100
	H	-2.79304400	-2.26617700	4.24783500
	H	-4.88023800	-0.40617100	1.00605300
	H	-4.90658300	-1.48453100	3.19995400
	C	1.26784700	-2.16934100	-0.57442300
	C	2.62583300	-2.30084800	-0.25426200
	C	0.65645600	-3.19351100	-1.31217100
	C	3.35302400	-3.42097300	-0.65828400
	H	3.13226700	-1.52535300	0.31418600
	C	1.38073300	-4.31305800	-1.72038700
	H	-0.39506100	-3.12582000	-1.57854700
	C	2.73111500	-4.42851700	-1.39319600
	H	4.40461900	-3.50449300	-0.40093600
	H	0.89054100	-5.09437800	-2.29334700
	H	3.29583200	-5.29980100	-1.71009300
	C	1.40567200	0.95422100	1.06163600
	C	1.32135400	1.15370800	2.44815200
	C	2.34962100	1.70770400	0.34565700
	C	2.15513600	2.05999400	3.10234700
	H	0.58720800	0.60276400	3.02886900
	C	3.19842700	2.60666900	0.99756400
	H	1.72253600	2.57571700	-1.76918500
	C	3.09760500	2.78454500	2.37597200
	H	2.06920500	2.19831300	4.17559500
	H	3.92993100	3.16648800	0.42539600
	H	3.75422100	3.48800200	2.87795900
	C	-1.39564400	0.25072400	-1.22009600
	C	-1.30380600	0.80165700	-2.49811100
	C	-2.66162900	0.09939200	-0.60385100
	C	-2.44689300	1.21946000	-3.18231400
	H	-0.33241600	0.90655500	-2.97226900
	C	-3.80033000	0.53056700	-1.30071600
	H	-1.17406600	3.35794600	-1.24751900
	C	-3.69351400	1.08535000	-2.57372300
	H	-2.36533600	1.64294200	-4.17862500
	H	-4.78641700	0.43467800	-0.86007800
	H	-4.59011700	1.40912200	-3.09316400
	S	2.49341300	1.50495300	-1.44884500
	S	-0.35728400	4.38275900	-0.91761300
IM5'	Sn	0.07514500	0.11016000	-0.08882000
	C	-1.61884100	-0.12671700	-1.37883100
	C	-1.71217200	-0.12849500	-2.77084800
	C	-2.78651700	-0.29340100	-0.59627700

	C	-2.94073800	-0.30806600	-3.40865400
	H	-0.82229800	0.01911600	-3.37776300
	C	-4.01413100	-0.47551600	-1.24913300
	C	-4.08902500	-0.48510500	-2.63988100
	H	-3.00168600	-0.30647600	-4.49266300
	H	-4.92862500	-0.60919700	-0.68179800
	H	-5.05082700	-0.62672400	-3.12323700
	C	1.09980500	1.97850000	-0.29121400
	C	2.40680900	2.03689700	-0.79392500
	C	0.46211700	3.18253100	0.04118700
	C	3.05947400	3.25918900	-0.95832500
	H	2.93218900	1.12367600	-1.06114000
	C	1.11197900	4.40601900	-0.11902200
	H	-0.55145300	3.17612100	0.43333400
	C	2.41254400	4.44612900	-0.61990800
	H	4.07274300	3.28306600	-1.34804900
	H	0.60269100	5.32729200	0.14745700
	H	2.91923700	5.39804100	-0.74492800
	C	1.46424600	-1.51773400	-0.35088300
	C	1.37311000	-2.35703600	-1.47182300
	C	2.48469000	-1.77575300	0.57754700
	C	2.26682800	-3.40937200	-1.66538100
	H	0.58377100	-2.19829200	-2.20092900
	C	3.39637800	-2.81661100	0.38059300
	H	2.15698400	-1.59225300	2.93558800
	C	3.28112300	-3.63816700	-0.73820500
	H	2.17138800	-4.04778400	-2.53812600
	H	4.19063500	-2.98161400	1.10050800
	H	3.98508300	-4.45115800	-0.88476600
	C	-1.37945200	-0.04676500	1.46614600
	C	-1.23452100	0.02113400	2.85100200
	C	-2.65972800	-0.25056500	0.89702600
	C	-2.33887700	-0.11393700	3.69361800
	H	-0.25256100	0.18611000	3.28484700
	C	-3.75904500	-0.38965600	1.75676800
	C	-3.59952400	-0.32336700	3.13866100
	H	-2.21677300	-0.05696200	4.77093400
	H	-4.75506500	-0.54873200	1.35864200
	H	-4.46637300	-0.43287500	3.78313000
	S	2.65965700	-0.71338600	2.03615900
H ₂ S	S	0.00000000	0.00000000	0.10349500
	H	0.00000000	-0.97726600	-0.82796000
	H	0.00000000	0.97726600	-0.82796000
TS4'	Sn	0.08766300	0.28749000	-0.16723800

	C	-1.77435400	0.63419400	-1.17638800
	C	-2.11658500	1.42269400	-2.27406900
	C	-2.79166400	-0.01041500	-0.41813000
	C	-3.45139400	1.58855900	-2.65063600
	H	-1.34196600	1.91876600	-2.85313300
	C	-4.12635500	0.18137700	-0.80301100
	C	-4.45179700	0.96805100	-1.90582100
	H	-3.70596600	2.19796100	-3.51237100
	H	-4.92714000	-0.28795300	-0.24161200
	H	-5.49388300	1.09637900	-2.18275700
	C	0.88561900	2.11062800	0.62237600
	C	2.08519100	2.13364000	1.34982000
	C	0.18842600	3.31621500	0.45409800
	C	2.57404100	3.32293800	1.88935500
	H	2.64857200	1.21846700	1.50877400
	C	0.67743800	4.50854600	0.98917900
	H	-0.74841200	3.33276100	-0.09570200
	C	1.87166500	4.51362800	1.70726200
	H	3.50061900	3.31859500	2.45554900
	H	0.12327800	5.43148200	0.84711100
	H	2.25165700	5.44000300	2.12675000
	C	1.85564400	-0.78276300	-0.86568100
	C	2.94993400	-0.04408000	-1.34820700
	C	2.10709700	-2.13585400	-0.60159700
	C	4.20211800	-0.61663200	-1.56341200
	H	2.82621400	1.01637600	-1.54616500
	C	3.35914400	-2.72605400	-0.77405600
	H	0.67853100	-3.83121600	-1.39553300
	C	4.41265300	-1.95925600	-1.26280400
	H	5.01504700	-0.01021600	-1.94972600
	H	3.51556100	-3.77350800	-0.53502100
	H	5.38847500	-2.41199000	-1.40239900
	C	-1.01869900	-1.07422000	0.99684500
	C	-0.47250500	-1.97426400	1.92832800
	C	-2.40068900	-0.89289300	0.72951700
	C	-1.42865900	-2.64023100	2.71789200
	H	-0.30805400	-2.50887700	-0.16598600
	C	-3.29919500	-1.61597800	1.52121100
	C	-2.80431600	-2.45737800	2.52382100
	H	-1.11179000	-3.34371700	3.48820300
	H	-4.37214200	-1.55042200	1.36947300
	H	-3.51303700	-3.00998500	3.13812200
	S	0.81216900	-3.32750800	-0.08794000
IM6'	Sn	-0.55310500	0.08105300	-0.23008700

	C	-0.30608400	-2.05496200	-0.56702800
	C	-1.01425100	-2.93307100	-1.38501500
	C	0.55588900	-2.57669000	0.44394400
	C	-0.88202400	-4.31673000	-1.23696600
	H	-1.67056400	-2.54814700	-2.16046500
	C	0.65948500	-3.96443200	0.59018600
	C	-0.05145500	-4.82698300	-0.24250200
	H	-1.42544400	-4.98884100	-1.89389700
	H	1.29669100	-4.38006100	1.36494100
	H	0.04358400	-5.90039900	-0.11147000
	C	-2.61507500	0.51517800	0.13508500
	C	-3.05542600	1.83726800	0.29884400
	C	-3.55762300	-0.51950200	0.23265400
	C	-4.39759500	2.11682700	0.55495600
	H	-2.35049400	2.66079800	0.23172200
	C	-4.90003800	-0.24137900	0.48904100
	H	-3.24808400	-1.55365800	0.11315700
	C	-5.32175600	1.07751100	0.65031400
	H	-4.72040000	3.14573200	0.68180800
	H	-5.61536100	-1.05472800	0.56435200
	H	-6.36650000	1.29462000	0.84972100
	C	0.54410600	1.94931500	-0.47866300
	C	0.25754800	3.07527900	-1.24946700
	C	1.53203900	2.03632900	0.54953300
	C	0.93613200	4.28001100	-1.04337100
	H	-0.49254100	3.02346400	-2.03376200
	C	2.18696200	3.25653700	0.75317600
	H	2.92254300	0.97605200	-1.97715800
	C	1.89393200	4.36743000	-0.03608300
	H	0.71564200	5.14228500	-1.66500900
	H	2.92944900	3.34604400	1.54023500
	H	2.41415900	5.30380100	0.13968400
	C	0.99361300	-0.27326900	1.12750300
	C	1.88601100	0.78495200	1.29078800
	C	1.38106400	-1.60832400	1.23238800
	C	3.11903100	0.50876300	1.90188000
	H	3.33389500	-0.73014600	-1.12645500
	C	2.61559600	-1.88073200	1.84196700
	C	3.43896900	-0.81502600	2.22261900
	H	3.85852100	1.28623000	2.06759000
	H	2.97665600	-2.89732900	1.96440800
	H	4.39634800	-1.02832200	2.68804400
	S	3.32892800	-0.24474000	-2.38673600
IM7'	Sn	-0.00077700	0.34258500	0.36735700

	C	2.04401400	-0.28517200	0.77925600
	C	3.06407800	0.34670900	1.48830600
	C	2.35923500	-1.38435300	-0.07624500
	C	4.38826300	-0.08933900	1.38497400
	H	2.83668300	1.18388400	2.14250800
	C	3.69344400	-1.79292900	-0.18185500
	C	4.69833000	-1.15392700	0.54257600
	H	5.16945600	0.40117300	1.95753100
	H	3.95530100	-2.61595500	-0.83990100
	H	5.72656300	-1.48820100	0.44495500
	C	-0.00685200	2.36662400	-0.32400600
	C	-1.21427100	3.04031000	-0.56250400
	C	1.19627900	3.04788900	-0.56270900
	C	-1.21919100	4.35450500	-1.02943200
	H	-2.16277000	2.54023100	-0.38942700
	C	1.19275400	4.36206200	-1.02968600
	H	2.14802200	2.55396000	-0.38972400
	C	-0.01531600	5.01724100	-1.26354400
	H	-2.16299800	4.85947300	-1.21167400
	H	2.13330400	4.87298700	-1.21218500
	H	-0.01852800	6.04021700	-1.62676400
	C	-2.04197800	-0.29639200	0.77926200
	C	-3.06547000	0.32977200	1.48844900
	C	-2.35109400	-1.39734900	-0.07617500
	C	-4.38719600	-0.11374500	1.38528300
	H	-2.84274500	1.16826300	2.14256900
	C	-3.68298400	-1.81352000	-0.18153900
	C	-4.69134300	-1.18012900	0.54301000
	H	-5.17108600	0.37232500	1.95794500
	H	-3.94034800	-2.63805500	-0.83945500
	H	-5.71769700	-1.52018400	0.44557400
	C	0.00425500	-1.43914200	-0.71755800
	C	-1.21687200	-2.11056600	-0.74357600
	C	1.22897300	-2.10386600	-0.74359800
	C	-1.21116900	-3.45369800	-1.14930700
	C	1.23071400	-3.44699900	-1.14931900
	C	0.01150200	-4.08318200	-1.40615100
	H	-2.12641300	-4.03559000	-1.20032800
	H	2.14915600	-4.02381200	-1.20030500
	H	0.01432100	-5.12477900	-1.71267600
TS3	Sn	0.17195000	0.07342800	-0.42530400
	C	0.76143900	2.13374300	-0.50951700
	C	2.08396300	2.52289400	-0.25334300
	C	-0.15113400	3.11617500	-0.92259500

	C	2.47932300	3.85349300	-0.38738100
	H	2.82234400	1.78583300	0.04628400
	C	0.24047500	4.44799500	-1.05562800
	H	-1.17615100	2.84717000	-1.15851500
	C	1.55604600	4.81966500	-0.78349600
	H	3.50831700	4.13482400	-0.18463000
	H	-0.48057700	5.19311800	-1.37765100
	H	1.86241300	5.85581200	-0.88764000
	C	-1.59858800	-0.43338700	-1.43505300
	C	-2.24817200	-0.10587400	-2.60802500
	C	-2.28045300	-1.10733200	-0.32794000
	C	-3.63639000	-0.28531300	-2.73128700
	H	-1.69821600	0.37168900	-3.41605700
	C	-3.71649300	-1.18405600	-0.45871600
	H	-1.79404500	-3.31996500	-1.23605100
	C	-4.34404500	-0.78203800	-1.62536800
	H	-4.15695100	0.02414800	-3.63051300
	H	-4.29615200	-1.61072700	0.35338700
	H	-5.42486600	-0.88150100	-1.68834000
	C	1.94561600	-1.15690300	-0.49622200
	C	2.25752500	-1.83887600	-1.68075600
	C	2.82331700	-1.27522300	0.58909500
	C	3.43116300	-2.57967800	-1.79553900
	H	1.57860100	-1.79393300	-2.52870200
	C	3.98864400	-2.04207700	0.49051600
	H	3.39173200	0.34638800	2.26733500
	C	4.30022500	-2.67572800	-0.70904300
	H	3.66250300	-3.08919800	-2.72554100
	H	4.63975200	-2.15266900	1.35112200
	H	5.20958300	-3.26289600	-0.78677900
	S	-1.55413300	-2.90887400	0.02693300
	S	2.35822700	-0.52226700	2.16495500
	C	-1.62850900	-0.28583500	1.14666100
	C	-1.33721900	-0.96978700	2.36259300
	C	-2.18370200	1.02038900	1.28290000
	C	-1.55285600	-0.37982300	3.59946600
	H	-0.92815500	-1.97299200	2.32858900
	C	-2.36161100	1.62381900	2.51448000
	H	-2.51803800	1.53051400	0.38399400
	C	-2.05410900	0.92154000	3.68599300
	H	-1.31910100	-0.93124600	4.50503500
	H	-2.77009600	2.62787900	2.57297200
	H	-2.22263200	1.37792100	4.65592600
IM4	Sn	0.51621800	-0.13339300	0.64501800

C	-0.23857000	1.82355500	0.21255700
C	-0.43307600	2.23734100	-1.11225800
C	-0.47150100	2.74525800	1.24113700
C	-0.86043000	3.53321600	-1.40164700
H	-0.25499400	1.55225700	-1.93696500
C	-0.90019900	4.04156300	0.95483800
H	-0.30663800	2.45789400	2.27555400
C	-1.09495500	4.43804000	-0.36751500
H	-1.00803800	3.83534000	-2.43407100
H	-1.07380500	4.74382400	1.76480700
H	-1.42445500	5.44797700	-0.59140100
C	-0.74781700	-1.88612100	0.52420000
C	-0.11098900	-3.07348800	0.92624200
C	-2.05408200	-1.97304400	-0.00135000
C	-0.72913600	-4.31633800	0.81072600
H	0.89554700	-3.03643900	1.33518400
C	-2.66139500	-3.23320400	-0.12677300
H	0.33105500	-1.00565700	3.38536700
C	-2.01099000	-4.39555200	0.27335200
H	-0.21026400	-5.21319800	1.13438000
H	-3.67037000	-3.29093300	-0.52303800
H	-2.50761900	-5.35574100	0.17460600
C	2.14475500	-0.54130900	-0.71116700
C	2.06550700	-1.60667100	-1.61875400
C	3.28866600	0.27387000	-0.75390100
C	3.09615100	-1.87058500	-2.52156300
H	1.19427100	-2.25506300	-1.61538100
C	4.32741600	0.00867800	-1.64887500
H	2.72375200	2.54082300	-0.24269400
C	4.23046600	-1.06436300	-2.53347300
H	3.01384600	-2.70810500	-3.20739200
H	5.20620500	0.64391000	-1.65240600
H	5.03988000	-1.26533900	-3.22812000
S	1.27961600	-0.13679400	2.96544300
S	3.49294100	1.64251800	0.41600300
C	-2.84871500	-0.78232600	-0.42093400
C	-3.21400500	0.20260400	0.50463600
C	-3.30302200	-0.65964100	-1.74145700
C	-4.00737400	1.28180500	0.12237900
H	-2.89353300	0.11069400	1.53754500
C	-4.09135600	0.42249700	-2.12662300
H	-3.02904100	-1.41532600	-2.47131000
C	-4.44659000	1.39647200	-1.19460200
H	-4.28061000	2.03396200	0.85499600

TS4	H	-4.42728400	0.50486200	-3.15566300
	H	-5.06224400	2.23879900	-1.49311300
	Sn	0.67823000	0.14152300	0.38388400
	C	2.77960600	-0.17023000	-0.02578300
	C	3.69848700	-0.15324200	1.03258200
	C	3.25828400	-0.37618900	-1.32697400
	C	5.06063600	-0.34319800	0.79613400
	H	3.35612000	0.00118000	2.05140000
	C	4.62046200	-0.55658900	-1.56518900
	H	2.56996400	-0.41010900	-2.16598800
	C	5.52349300	-0.54224200	-0.50289800
	H	5.75799300	-0.33560700	1.62824900
	H	4.97537200	-0.71276200	-2.57943700
	H	6.58333700	-0.68670900	-0.68752800
	C	-2.46605000	-0.15476200	-0.76516700
	C	-3.57293300	-1.00981300	-0.77162500
	C	-2.68124800	1.20196900	-0.42662500
	C	-4.86357100	-0.53195200	-0.57032300
	H	-3.43008100	-2.07136900	-0.97368200
	C	-3.98234700	1.66546300	-0.10470800
	H	1.42982400	2.14984100	2.31342400
	C	-5.06415100	0.81003700	-0.20541800
	H	-5.72059700	-1.19108700	-0.68934300
	H	-4.15307900	2.69470700	0.19954000
	H	-6.06599000	1.17486600	-0.00063500
	C	-0.80458300	-1.42205800	0.35417300
	C	-1.36469600	-1.74029000	1.61843900
	C	-0.59208300	-2.50190800	-0.54387400
	C	-1.71109600	-3.04592800	1.94709800
	H	-1.54667900	-0.94983300	2.33952700
	C	-0.95440000	-3.80169000	-0.21579200
	H	0.87715600	-3.04401900	-2.33377200
	C	-1.49665000	-4.08522800	1.04201200
	H	-2.14427400	-3.25308300	2.92071400
	H	-0.82906000	-4.59720900	-0.94382300
	H	-1.76457900	-5.10463200	1.29774600
	S	0.59806700	1.12927100	2.62504500
	S	-0.03184300	-2.05031700	-2.18440900
	C	-1.53876600	2.10964100	-0.48008600
	C	-1.53585600	3.40985800	0.06850700
	C	-0.32581900	1.67291200	-1.12956000
	C	-0.46803400	4.27028400	-0.11198800
	H	-2.39512600	3.75608300	0.62985700
	C	0.72513000	2.61675100	-1.38089900

IM5	H	-0.48395800	0.82822700	-1.80884100
	C	0.66700500	3.88676400	-0.85939700
	H	-0.51298200	5.26851900	0.31236400
	H	1.58531500	2.30305100	-1.96383300
	H	1.47530100	4.59037200	-1.02615900
	Sn	2.40306900	0.67060800	1.05611200
	C	3.38064100	-0.80399700	-0.27042100
	C	4.39846300	-0.57723300	-1.20924200
	C	2.91296000	-2.12266400	-0.13344100
	C	4.92766200	-1.61428000	-1.97627000
	H	4.79224800	0.42459600	-1.36137800
	C	3.44093800	-3.17009900	-0.89010500
	H	2.11536400	-2.34811400	0.57299700
	C	4.45128000	-2.91587100	-1.81496400
	H	5.71316000	-1.40914000	-2.69789000
	H	3.06349600	-4.18017200	-0.75945500
	H	4.86490000	-3.72522800	-2.40865600
	C	-3.73295500	0.28683600	0.21039200
	C	-5.10941400	0.27259200	0.47537900
	C	-3.18757800	1.35927900	-0.52893400
	C	-5.94695400	1.28950300	0.02951800
	H	-5.52083200	-0.54647900	1.05608000
	C	-4.04728900	2.37914100	-0.96638600
	H	4.95082600	1.99030200	0.02971600
	C	-5.41070600	2.35053800	-0.69534600
	H	-7.00845800	1.25429200	0.25183900
	H	-3.63551600	3.19405500	-1.55269400
	H	-6.05060900	3.14977900	-1.05525000
	C	-2.89645100	-0.80620400	0.79823900
	C	-2.05745600	-0.52749400	1.88324100
	C	-2.96942500	-2.13147700	0.33015100
	C	-1.30868700	-1.52406200	2.50055400
	H	-2.00100400	0.49343700	2.24600600
	C	-2.21905200	-3.13555700	0.95356100
	H	-3.62903400	-3.77096300	-1.21848800
	C	-1.39422800	-2.83343600	2.03195200
	H	-0.66727200	-1.28006100	3.34037400
	H	-2.27785400	-4.15867100	0.59623500
	H	-0.82252900	-3.62528100	2.50552900
	S	4.03530800	2.53886300	0.86058100
	S	-4.01403400	-2.48292100	-1.08311500
	C	-1.74369800	1.45605800	-0.88621500
	C	-1.03836300	2.64405600	-0.64287800
	C	-1.07397700	0.40132100	-1.52390800

	C	0.29294300	2.77950300	-1.02814300
	H	-1.53576700	3.46476700	-0.13605500
	C	0.25468500	0.53507500	-1.91626100
	H	-1.60637000	-0.51742200	-1.74173300
	C	0.94539600	1.72561500	-1.67282300
	H	0.82578100	3.70289500	-0.82669900
	H	0.75398100	-0.28567100	-2.42008200
	H	1.96926800	1.84475000	-2.01136100
TS5	Sn	-3.18766000	-0.81511800	1.04222700
	C	-3.73615900	0.90816100	-0.23714000
	C	-3.52492000	1.06720600	-1.61663600
	C	-4.40118100	1.94946600	0.43106500
	C	-3.95510700	2.20645800	-2.29596300
	H	-3.01415400	0.29622000	-2.18845300
	C	-4.83053400	3.09822300	-0.23681400
	H	-4.60005500	1.87291600	1.49945100
	C	-4.60887400	3.22750600	-1.60544600
	H	-3.77975500	2.29910300	-3.36404300
	H	-5.34146300	3.88570900	0.30959100
	H	-4.94440400	4.11510000	-2.13285300
	C	4.07253700	-0.40604800	0.04469900
	C	5.45216400	-0.56214300	-0.14548800
	C	3.20817700	-1.46933400	-0.29786800
	C	5.98634500	-1.73939500	-0.65924500
	H	6.11378900	0.25163100	0.13262900
	C	3.76516300	-2.65300400	-0.80639300
	H	-3.96903300	-1.81321900	-1.96980300
	C	5.13660900	-2.79206600	-0.98940600
	H	7.05891800	-1.83423900	-0.79380500
	H	3.10195500	-3.46491400	-1.08650800
	H	5.53746000	-3.71572500	-1.39437200
	C	3.58513400	0.85576100	0.68450500
	C	3.10927200	0.82176100	2.00085400
	C	3.63206200	2.09515200	0.02062600
	C	2.68939700	1.97541300	2.65402000
	H	3.07485300	-0.13334600	2.51464600
	C	3.21318000	3.25741700	0.67930500
	H	3.91500000	3.43973900	-1.88543800
	C	2.74386500	3.19753200	1.98682500
	H	2.32591800	1.92147000	3.67463600
	H	3.24925200	4.21432000	0.16851700
	H	2.42127200	4.10829100	2.48106300
	S	-3.65911900	-2.70677200	-1.00581300
	S	4.20261800	2.13588100	-1.67802900

IM6	C	1.72879900	-1.38585000	-0.15640300
	C	1.02307700	-2.40163100	0.50852600
	C	0.99571200	-0.33052300	-0.71662600
	C	-0.36027400	-2.35096600	0.61548200
	H	1.57011100	-3.22523200	0.95779000
	C	-0.39111300	-0.29398600	-0.61676100
	H	1.51537200	0.45595200	-1.25311100
	C	-1.11706400	-1.30103700	0.05210400
	H	-0.86941100	-3.15764300	1.14019600
	H	-0.91694200	0.54109500	-1.06816700
	H	-2.25925900	-2.01148300	-0.69877800
	Sn	-3.14814800	-0.36309300	1.29258900
	C	-3.86272700	0.90332700	-0.38418100
	C	-3.37007000	0.87443300	-1.70075300
	C	-4.92382000	1.78563700	-0.11918600
	C	-3.91177300	1.67932500	-2.70344000
	H	-2.53875000	0.22095800	-1.95437700
	C	-5.46758000	2.60351400	-1.11209400
	H	-5.34368700	1.84126600	0.88394000
	C	-4.96285600	2.54885800	-2.40957000
	H	-3.51006000	1.63487500	-3.71207400
	H	-6.28442700	3.27900700	-0.87399500
	H	-5.38323300	3.17957100	-3.18700800
	C	4.10331400	-0.61765900	-0.19900600
	C	5.40223800	-0.94275600	-0.61324400
	C	3.04131100	-1.49526000	-0.51123000
	C	5.66866900	-2.11081300	-1.32013100
	H	6.21592000	-0.27128300	-0.35899200
	C	3.33057500	-2.67219200	-1.21873700
	H	-5.33193900	-2.48090100	-0.40244400
	C	4.62498000	-2.98195800	-1.62223100
	H	6.68422400	-2.33971300	-1.62662700
	H	2.51468400	-3.34062100	-1.47417200
	H	4.81518400	-3.89587800	-2.17612800
	C	3.91366500	0.61409900	0.62931200
	C	3.62244300	0.49075200	1.99312500
	C	4.06318500	1.90521300	0.09128200
	C	3.48087700	1.60543300	2.81245100
	H	3.50624100	-0.50424000	2.40990700
	C	3.92494400	3.02785500	0.91642200
	H	4.28745800	3.41633700	-1.69379900
	C	3.63375600	2.87889500	2.26790200
	H	3.25312200	1.48099200	3.86572300
	H	4.04069200	4.02423100	0.50193600

	H	3.52693300	3.76028900	2.89215700
	S	-4.00661300	-2.74354400	-0.40361100
	S	4.39774100	2.06996300	-1.66244200
	C	1.62697300	-1.22094900	-0.13207200
	C	0.87502600	-2.18755300	0.55014000
	C	0.99459500	-0.01887600	-0.47338000
	C	-0.45534700	-1.94888000	0.88867800
	H	1.34518400	-3.12309900	0.84038600
	C	-0.34369600	0.20062400	-0.15096300
	H	1.54618900	0.74121800	-1.01682300
	C	-1.10941700	-0.75685300	0.53537600
	H	-0.98544700	-2.71761300	1.44900000
	H	-0.79238400	1.14411200	-0.44979700
	H	-3.81216700	-2.10284800	-1.57623500
IM7	Sn	-3.44046400	-1.07994500	1.00755900
	C	-4.20638100	0.42689600	-0.39250900
	C	-3.69395200	0.65634000	-1.68303800
	C	-5.35748900	1.14542900	-0.01895100
	C	-4.29442600	1.56631400	-2.55260200
	H	-2.81415200	0.11693500	-2.02156800
	C	-5.95117100	2.07351400	-0.87391700
	H	-5.80640500	0.98149400	0.95931000
	C	-5.41997900	2.28303000	-2.14592000
	H	-3.88304800	1.72000800	-3.54614600
	H	-6.83136000	2.62387000	-0.55433700
	H	-5.88463500	2.99631900	-2.81986300
	C	3.83706800	-0.47536500	-0.25618800
	C	5.15952800	-0.63923900	-0.69032900
	C	2.85074800	-1.38380800	-0.69999200
	C	5.52108000	-1.67811000	-1.54201000
	H	5.91639200	0.05293700	-0.33611600
	C	3.23536600	-2.43045400	-1.55209900
	C	4.55225000	-2.58086100	-1.97291000
	H	6.55312900	-1.78382800	-1.86029400
	H	2.47650500	-3.12011000	-1.90717400
	H	4.81775900	-3.39502000	-2.63975100
	C	3.54527600	0.61025000	0.73134600
	C	3.23993200	0.27227500	2.05534000
	C	3.61056100	1.97256500	0.38621700
	C	3.00444500	1.24489600	3.02081200
	H	3.18949700	-0.77811900	2.32260600
	C	3.37874500	2.95230700	1.35922500
	H	3.75020300	3.73683300	-1.15920300
	C	3.07572400	2.59082800	2.66725000

TS6	H	2.76889700	0.95502400	4.03923600
	H	3.43008200	4.00356600	1.09451600
	H	2.89617900	3.36397900	3.40749100
	S	3.95966900	2.41128400	-1.31659200
	C	1.41628300	-1.27250800	-0.31496500
	C	0.73769200	-2.37758200	0.21708900
	C	0.69552700	-0.08539600	-0.50783900
	C	-0.61043500	-2.28977400	0.55595800
	H	1.27865200	-3.30330300	0.39137900
	C	-0.65905700	-0.01533600	-0.19504700
	H	1.19443200	0.78080900	-0.92954900
	C	-1.35350800	-1.11482500	0.34256200
	H	-1.08644300	-3.16308200	0.99895600
	H	-1.18013100	0.92008300	-0.37688000
	Sn	2.90567800	-1.63159000	-0.74792500
	C	3.87176200	0.11776000	0.15519500
	C	3.52234800	0.67718300	1.39839700
	C	4.98601300	0.66479300	-0.50856400
	C	4.24356000	1.73724200	1.94680100
	H	2.67669400	0.27980800	1.95204100
	C	5.69945200	1.73873100	0.02247500
	H	5.30888000	0.24843900	-1.46123000
	C	5.32889700	2.27530900	1.25496100
	H	3.95822000	2.14665000	2.91156800
	H	6.54727900	2.15017100	-0.51740500
	H	5.88717800	3.10486500	1.67792300
	C	-3.87852300	0.06169800	-0.18978300
	C	-5.25899900	-0.00729400	-0.52426100
	C	-3.32002900	-1.00462600	0.60905700
	C	-6.06922900	-1.01077300	-0.05455500
	H	-5.69136500	0.79503200	-1.11210200
	C	-4.19514100	-2.02955000	1.07291000
	C	-5.53207000	-2.02970100	0.76781700
	H	-7.12902600	-1.00668100	-0.28823300
	H	-3.79456600	-2.80394400	1.71810500
	H	-6.18142800	-2.80224600	1.16685800
	C	-3.03133900	1.08608800	-0.70747900
	C	-3.21910900	1.64057100	-1.99120000
	C	-1.85631800	1.48326600	0.10036200
	C	-2.31789900	2.51967200	-2.54699100
	H	-4.07415800	1.31669200	-2.57551300
	C	-0.94597600	2.44129400	-0.55062300
	H	-3.07652300	3.32490800	1.17424700
	C	-1.16544800	2.91372900	-1.80462500

	H	-2.47388600	2.90283400	-3.54934000
	H	-0.09315400	2.78772200	0.02261800
	H	-0.46663000	3.62222700	-2.23954800
	S	-2.44540400	2.26537600	1.73128700
	C	-1.90358200	-1.12355800	0.71800400
	C	-1.27960800	-2.38631500	0.61292300
	C	-1.04055100	0.08726800	0.74034500
	C	0.06392900	-2.52288800	0.35227100
	H	-1.90370200	-3.27433300	0.62576300
	C	0.36442500	-0.13860500	0.31151500
	H	-0.97926800	0.44340800	1.77834700
	C	0.91429000	-1.37900500	0.14981900
	H	0.46684700	-3.52406600	0.22018300
	H	0.97605700	0.74827700	0.18273700
IM8	Sn	2.80728900	-1.81536300	-0.43560800
	C	3.77108200	0.13065200	-0.12137100
	C	3.48248700	1.00272500	0.94462900
	C	4.82811000	0.48795800	-0.97952700
	C	4.20682400	2.17855300	1.13873800
	H	2.68305800	0.76047000	1.63860200
	C	5.54345800	1.67213700	-0.80524800
	H	5.10327200	-0.16746900	-1.80403800
	C	5.23397700	2.51901600	0.25852400
	H	3.97098300	2.83033800	1.97516600
	H	6.34586700	1.93008200	-1.49024300
	H	5.79558700	3.43654600	0.40534800
	C	-3.61400100	0.04613800	-0.59371900
	C	-4.81001900	-0.09401000	-1.37554500
	C	-3.22332300	-1.08907500	0.24607700
	C	-5.60647500	-1.19601400	-1.29071200
	H	-5.12177100	0.72647800	-2.00966200
	C	-4.11895800	-2.21583600	0.31834800
	C	-5.26450400	-2.27007100	-0.41169200
	H	-6.52232000	-1.24882700	-1.87041600
	H	-3.87549100	-3.03523400	0.98394400
	H	-5.92604200	-3.12608700	-0.32694200
	C	-2.83179000	1.20958200	-0.63329900
	C	-2.95633900	2.21983200	-1.62931000
	C	-1.83090100	1.41427100	0.46847700
	C	-2.11377900	3.29521500	-1.68512500
	H	-3.70903000	2.11254700	-2.40140700
	C	-0.89591400	2.55481400	0.27360100
	H	-3.34045000	3.03436100	1.55298600
	C	-1.05320500	3.44744700	-0.72635800

	H	-2.22225900	4.02689000	-2.47860200
	H	-0.10626400	2.67346500	1.00804300
	H	-0.37388400	4.28960600	-0.81474000
	S	-2.87188800	1.87392800	2.06184000
	C	-1.95048600	-1.12852700	0.81184900
	C	-1.27446700	-2.33469100	1.19390700
	C	-1.09405400	0.10764100	0.89430000
	C	0.08613900	-2.42110000	1.11960800
	H	-1.84477000	-3.22848800	1.42394700
	C	0.29965800	-0.14914900	0.34160400
	H	-0.89942200	0.25715100	1.97124100
	C	0.89467300	-1.35317400	0.54064800
	H	0.55809500	-3.36861600	1.36775600
	H	0.82141100	0.67605400	-0.13043500
TS7	Sn	-2.94458900	-1.79300800	0.33212900
	C	-3.82072200	0.20571900	0.13824400
	C	-3.47897600	1.13751800	-0.85935200
	C	-4.87499100	0.54576500	1.00674500
	C	-4.14899100	2.35480400	-0.97658700
	H	-2.68232100	0.91071400	-1.56185000
	C	-5.53561100	1.76975400	0.90981900
	H	-5.19145400	-0.15436300	1.77792300
	C	-5.17324900	2.67623200	-0.08588800
	H	-3.87287700	3.05345000	-1.76102600
	H	-6.33670500	2.01288100	1.60156900
	H	-5.69220700	3.62585200	-0.17270900
	C	3.59312400	-0.05601800	0.69845800
	C	4.78177400	-0.22482800	1.46249300
	C	3.16337200	-1.17223900	-0.12588600
	C	5.53740800	-1.36533500	1.39057400
	H	5.12604300	0.58134400	2.09674000
	C	3.99999800	-2.33672000	-0.18873200
	C	5.15090200	-2.43232400	0.53695100
	H	6.44877800	-1.44590800	1.97395200
	H	3.71459600	-3.15703300	-0.83531600
	H	5.77103000	-3.31954300	0.46459900
	C	2.87009100	1.17324100	0.68918200
	C	3.20544600	2.28485200	1.51030500
	C	1.79305500	1.33787100	-0.26449400
	C	2.48895200	3.45414200	1.46809500
	H	4.03540700	2.21406800	2.20176600
	C	1.02797500	2.55284900	-0.22883700
	H	3.35821400	2.95507600	-1.86943800
	C	1.37475700	3.58385900	0.59527500

	H	2.76323200	4.27974600	2.11624500
	H	0.18437500	2.64972300	-0.90396000
	H	0.79953100	4.50411200	0.58922900
	S	3.11031700	1.69137500	-2.27955000
	C	1.89710200	-1.15218700	-0.73034500
	C	1.20455600	-2.32344100	-1.18322900
	C	1.07192200	0.09552300	-0.75759900
	C	-0.15772400	-2.38816200	-1.11653400
	H	1.75663000	-3.21428300	-1.46108800
	C	-0.35012300	-0.15116900	-0.26019700
	H	0.87937200	0.28951400	-1.82625900
	C	-0.96774700	-1.33048900	-0.51955500
	H	-0.64026400	-3.31665400	-1.41273100
	H	-0.87080600	0.68438400	0.19526000
IM9	Sn	3.04109100	-1.86441700	-0.29896000
	C	3.69541300	0.21409300	-0.06082500
	C	3.05819700	1.16684900	0.75620800
	C	4.89741800	0.59864000	-0.68455700
	C	3.59067200	2.44346200	0.93458100
	H	2.13568900	0.91887800	1.27244600
	C	5.42311500	1.88105900	-0.53122500
	H	5.44105700	-0.11291700	-1.30394500
	C	4.77004600	2.80544200	0.28355600
	H	3.08251100	3.15296100	1.58078900
	H	6.34540200	2.15551600	-1.03498500
	H	5.18286100	3.80077300	0.41722300
	C	-4.06081400	0.00053900	-0.27726100
	C	-5.46871100	0.07577700	-0.20560800
	C	-3.43043800	-1.21835200	0.08471500
	C	-6.23758900	-0.99627300	0.20318400
	H	-5.97721300	0.99190500	-0.47522500
	C	-4.24010600	-2.29819700	0.50050500
	C	-5.61598500	-2.19792300	0.56082500
	H	-7.31781800	-0.90261400	0.24584000
	H	-3.78503400	-3.23790500	0.78406600
	H	-6.20779000	-3.04777400	0.88478500
	C	-3.25207000	1.14284400	-0.71409200
	C	-3.84514000	2.37041900	-1.08179100
	C	-1.83849200	1.02987000	-0.77349300
	C	-3.09168800	3.45193800	-1.49468300
	H	-4.92032600	2.48521000	-1.04424100
	C	-1.09154900	2.15016400	-1.20190700
	H	-1.01279100	2.54200100	1.67393700
	C	-1.69825500	3.33991700	-1.55665000

	H	-3.58164100	4.38025900	-1.76959600
	H	-0.01292500	2.09255900	-1.26212200
	H	-1.09276700	4.17928500	-1.88268600
	S	-0.53847500	2.22585400	2.89864900
	C	-1.97172500	-1.33369300	0.02453200
	C	-1.30596300	-2.53146400	0.36548400
	C	-1.18635400	-0.22769200	-0.39149500
	C	0.06842600	-2.64290300	0.30214300
	H	-1.87440200	-3.39882400	0.67641200
	C	0.21864400	-0.37094700	-0.42006300
	H	-0.77528000	0.90980000	2.71077800
	C	0.87797900	-1.55018800	-0.07822000
	H	0.52221400	-3.59903000	0.55556400
	H	0.81909900	0.47681800	-0.72259200
IM10	Sn	2.97070300	-1.66673000	-0.39757800
	C	3.64892500	0.33048500	0.21079800
	C	3.02007200	1.12676600	1.18620900
	C	4.85661500	0.80878500	-0.33115700
	C	3.56383200	2.34566900	1.59103000
	H	2.09350200	0.79348300	1.64487100
	C	5.39515700	2.03698500	0.05120200
	H	5.39460800	0.21466200	-1.06799800
	C	4.74867200	2.80706500	1.01719400
	H	3.06267400	2.93722900	2.35179300
	H	6.32160500	2.38791100	-0.39401200
	H	5.16991800	3.75852000	1.32716100
	C	-4.10348400	0.22720200	0.06155900
	C	-5.50791500	0.30191400	0.18511600
	C	-3.47856400	-1.03682200	0.22245100
	C	-6.27810200	-0.81220200	0.45606100
	H	-6.01232800	1.25205000	0.06900500
	C	-4.28920100	-2.15918800	0.50146600
	C	-5.66147800	-2.05814100	0.61684900
	H	-7.35549500	-0.71692900	0.54439600
	H	-3.83701300	-3.13313400	0.63457800
	H	-6.25410200	-2.94124600	0.83237200
	C	-3.29299200	1.41511600	-0.22433300
	C	-3.88258100	2.68537400	-0.40434900
	C	-1.88187700	1.30364700	-0.32407900
	C	-3.12678900	3.81046900	-0.66961900
	H	-4.95661700	2.79890200	-0.33791400
	C	-1.13296100	2.46976800	-0.59579700
	C	-1.73519400	3.70115200	-0.76551300
	H	-3.61358400	4.77114100	-0.80299200

IM11	H	-0.05553800	2.41611800	-0.67791400
	H	-1.12795400	4.57615500	-0.97344200
	C	-2.02392800	-1.15380200	0.10401900
	C	-1.36625100	-2.39688100	0.23078400
	C	-1.23574600	-0.00235000	-0.15224800
	C	0.00448900	-2.50941900	0.11748900
	H	-1.93914800	-3.29800900	0.40940500
	C	0.16631200	-0.15116300	-0.23283000
	C	0.81846500	-1.37569700	-0.09765300
	H	0.45143600	-3.49817500	0.20102500
	H	0.77005900	0.72945000	-0.40933400
	Sn	-2.35608600	-0.76033200	-0.37092400
	C	-3.09597200	1.22717400	-0.48944600
	C	-2.42240900	2.19029500	-1.25876200
	C	-4.27983300	1.58612100	0.17702000
	C	-2.90991600	3.49276100	-1.34214100
	H	-1.51580700	1.93377400	-1.79999500
	C	-4.75825000	2.89310700	0.09250900
	H	-4.83157700	0.85241700	0.75595400
	C	-4.07682200	3.84531800	-0.66382700
	H	-2.38106000	4.22995500	-1.93812800
	H	-5.67008700	3.16323600	0.61545100
	H	-4.45742800	4.85950100	-0.73120500
	C	4.84272200	-0.11660200	0.09533700
	C	6.24730300	-0.25722300	0.11077600
	C	4.05484800	-1.25376600	-0.22060500
	C	6.86361900	-1.46059300	-0.17085400
	H	6.87476600	0.59159400	0.34774000
	C	4.71023000	-2.47197300	-0.50485000
	C	6.08626500	-2.58183400	-0.48197100
	H	7.94610200	-1.53200100	-0.14951200
	H	4.13406900	-3.35461400	-0.74890500
	H	6.55794500	-3.53315900	-0.70468200
	C	4.19617200	1.16379800	0.39793900
	C	4.94974000	2.31292100	0.72203900
	C	2.78163600	1.26985400	0.37018300
	C	4.34930200	3.52216600	1.01188700
	H	6.03003700	2.26235200	0.75023400
	C	2.19306100	2.51699200	0.67289200
	C	2.95417900	3.62525600	0.98840500
	H	4.95984900	4.38469200	1.25798700
	H	1.11670700	2.62787100	0.66811200
	H	2.46846800	4.56788000	1.21804000
	C	2.59532700	-1.14508100	-0.24833900

TS8	C	1.77634100	-2.25420700	-0.55438400
	C	1.96918900	0.09613900	0.03454900
	C	0.40078700	-2.16234400	-0.59351100
	H	2.22337700	-3.21577700	-0.76931900
	C	0.55994600	0.16590700	-0.01543500
	C	-0.23170300	-0.93588700	-0.31752800
	H	-0.18096200	-3.04629800	-0.83673500
	H	0.07688400	1.10982900	0.20138800
	S	-3.52577900	-2.40475500	0.88351300
	S	-5.47931900	-1.93864800	1.21264200
	Sn	-2.29366600	-0.49391600	-0.34125500
	C	-3.24823300	1.33537200	-0.36223200
	C	-3.28848800	2.69994800	-0.64399900
	C	-3.81710800	0.77595600	0.80608700
	C	-3.93923700	3.52702700	0.26858200
	H	-2.82661600	3.11561600	-1.53434600
	C	-4.40151900	1.64618500	1.74590700
	H	-4.66571400	-0.44161700	0.64341600
	C	-4.47713600	3.00400100	1.45661000
	H	-4.01576200	4.59246800	0.07288900
	H	-4.83345600	1.25975900	2.66507700
	H	-4.95995900	3.67764400	2.15882500
	C	4.90874500	-0.18787300	0.13408100
	C	6.29875800	-0.40471700	0.25097700
	C	4.04068500	-1.30460600	0.24766200
	C	6.82522700	-1.66199400	0.47295100
	H	6.98628100	0.42625400	0.16700900
	C	4.60476700	-2.57889200	0.47597000
	C	5.96855800	-2.76246500	0.58792500
	H	7.89921300	-1.79148800	0.55723700
	H	3.96605700	-3.44726700	0.56806200
	H	6.36933000	-3.75526200	0.76337100
	C	4.35779100	1.15128500	-0.09460700
	C	5.19226600	2.28522300	-0.20094200
	C	2.95546800	1.33208400	-0.21006800
	C	4.68104300	3.55101100	-0.40894700
	H	6.26560400	2.17813900	-0.11828000
	C	2.45881200	2.63715100	-0.41777200
	C	3.29757800	3.72962200	-0.51683400
	H	5.35212700	4.40017000	-0.48515500
	H	1.39356200	2.80848200	-0.49969700
	H	2.88164400	4.71903500	-0.67562500
	C	2.59355800	-1.11948900	0.12311600
	C	1.69773500	-2.20629100	0.22556600

	C	2.06060900	0.17511900	-0.10806800
	C	0.33262500	-2.04704300	0.10528500
	H	2.07381700	-3.20428800	0.40701900
	C	0.66199200	0.31218100	-0.23830400
	C	-0.20320800	-0.76874000	-0.13288500
	H	-0.31306000	-2.91436200	0.20214500
	H	0.24646200	1.29416500	-0.42510700
	S	-3.58241500	-2.50586100	-0.55658300
	S	-5.44908300	-1.67801300	0.00655300
IM12	Sn	-2.31049400	-0.42297000	-0.03553200
	C	-3.26469700	1.36888300	-0.52660700
	C	-3.82032700	2.49795900	-1.13018700
	C	-3.32855900	1.17092500	0.86211300
	C	-4.43771400	3.42651000	-0.29294200
	H	-3.78326000	2.65972900	-2.20323000
	C	-3.95062100	2.09953900	1.69862800
	H	-5.66752000	-2.14914100	1.01070300
	C	-4.50126600	3.23083700	1.09744300
	H	-4.88118000	4.32198800	-0.71941600
	H	-4.01080600	1.96190800	2.77416900
	H	-4.99189000	3.98027500	1.71238500
	C	4.91875900	-0.18194500	0.03432500
	C	6.31227900	-0.40467200	0.07613200
	C	4.05404900	-1.30350400	0.12016800
	C	6.84601100	-1.67258500	0.19787200
	H	6.99681600	0.43066800	0.01235700
	C	4.62553900	-2.58870200	0.24446700
	C	5.99270700	-2.77831800	0.28326900
	H	7.92249000	-1.80611700	0.22654400
	H	3.98916300	-3.46112000	0.31278300
	H	6.39852600	-3.78000400	0.37933900
	C	4.36047800	1.16772600	-0.09390000
	C	5.19177300	2.30579300	-0.17913800
	C	2.95458700	1.35415100	-0.13369200
	C	4.67449900	3.58059500	-0.29914200
	H	6.26759500	2.19461300	-0.15115400
	C	2.45199700	2.66793700	-0.25584000
	C	3.28798900	3.76399600	-0.33796800
	H	5.34346400	4.43262600	-0.36221600
	H	1.38461500	2.84193000	-0.28688100
	H	2.86721800	4.75975300	-0.43106400
	C	2.60249000	-1.11120100	0.07906500
	C	1.70924200	-2.20036600	0.16195300
	C	2.06163600	0.19424600	-0.04583400

TS9	C	0.33948600	-2.03069700	0.12648100
	H	2.08967600	-3.20885600	0.25687800
	C	0.65792600	0.34110100	-0.08249000
	C	-0.20570500	-0.74132100	0.00456200
	H	-0.29989500	-2.90552800	0.19735900
	H	0.23729400	1.33369800	-0.18226500
	S	-3.39430900	-2.60558000	-0.32459500
	S	-5.45150000	-2.10687100	-0.32678700
	Sn	-2.51733800	-1.19832500	-0.13437400
	C	-3.39232900	1.80631700	-1.38031800
	C	-3.79953200	3.04486100	-1.78287400
	C	-3.10884400	0.89312600	-0.46668400
	C	-4.11840300	3.85194700	-0.68097900
	H	-3.86953100	3.34933700	-2.81925100
	C	-3.48585000	1.87960100	0.47201800
	H	-1.65506300	-0.05265700	2.77250100
	C	-3.93258000	3.18494800	0.54057500
	H	-4.47218600	4.87633600	-0.77234200
	H	-3.25733400	0.81915400	1.88598900
	H	-4.13484700	3.65332600	1.49734500
	C	4.61472800	0.09536100	-0.03273100
	C	6.02621600	0.06701800	-0.02434600
	C	3.91550200	-1.13670800	-0.11293100
	C	6.73312900	-1.11738500	-0.09334000
	H	6.58680300	0.99024300	0.03821900
	C	4.66246700	-2.33299400	-0.18261900
	C	6.04323700	-2.33215700	-0.17406400
	H	7.81807600	-1.10149100	-0.08476400
	H	4.15483800	-3.28638500	-0.24453400
	H	6.58601400	-3.27002400	-0.22936600
	C	3.87217900	1.35751300	0.03801200
	C	4.53559000	2.60185900	0.11067400
	C	2.45352400	1.34767500	0.03333800
	C	3.84444000	3.79568900	0.17455000
	H	5.61679100	2.63959600	0.11587500
	C	1.77144500	2.58256700	0.09510300
	C	2.44526000	3.78601200	0.16518200
	H	4.38730500	4.73361500	0.22950600
	H	0.68974600	2.60723700	0.08437300
	H	1.88876900	4.71646200	0.21090700
	C	2.45073800	-1.14704000	-0.11744500
	C	1.71817700	-2.35145500	-0.19797700
	C	1.73217200	0.07312500	-0.03766200
	C	0.33799000	-2.37253300	-0.19221300

IM13	H	2.23691300	-3.29837800	-0.27050100
	C	0.32097500	0.02151600	-0.02804200
	C	-0.38572500	-1.17073100	-0.09665100
	H	-0.18144900	-3.32330400	-0.26737300
	H	-0.23497300	0.94940900	0.03074000
	S	-3.81171900	-2.91930500	-0.74834500
	S	-2.92703100	-0.43413200	2.52146700
	Sn	-2.52329400	-1.18618400	-0.24219300
	C	-3.42417300	1.93662500	-1.16637400
	C	-3.79673600	3.18735500	-1.61146900
	C	-3.13923900	0.89908700	-0.35152500
	C	-4.11504500	3.97728500	-0.48881600
	H	-3.84380600	3.50390200	-2.64484000
	C	-3.52684800	1.96818500	0.42038300
	H	-1.49690300	-0.35732200	2.88504500
	C	-3.95227200	3.25126000	0.71171100
	H	-4.44677000	5.01206500	-0.54105000
	H	-3.18401100	0.54303400	2.42603300
	H	-4.14090900	3.64070300	1.70416200
	C	4.60109600	0.10418500	-0.01654100
	C	6.01199700	0.07628900	0.02494300
	C	3.90423200	-1.12922800	-0.09816800
	C	6.72030500	-1.10863800	-0.01399000
	H	6.57092000	1.00033500	0.08950200
	C	4.65263800	-2.32608100	-0.13709800
	C	6.03280400	-2.32463000	-0.09683300
	H	7.80475500	-1.09220200	0.01913500
	H	4.14688100	-3.28040700	-0.20029200
	H	6.57691700	-3.26276000	-0.12930500
	C	3.85730400	1.36705000	0.02025300
	C	4.51896500	2.61238900	0.09061100
	C	2.43919100	1.35702800	-0.01759500
	C	3.82618200	3.80659500	0.12085500
	H	5.59975000	2.65074700	0.11962600
	C	1.75533200	2.59212900	0.01078800
	C	2.42760300	3.79650000	0.07907100
	H	4.36750700	4.74548600	0.17409200
	H	0.67428000	2.61732200	-0.02652600
	H	1.87004700	4.72714200	0.09723700
	C	2.44013600	-1.13998800	-0.13622800
	C	1.70969200	-2.34589900	-0.21923300
	C	1.72003900	0.08123100	-0.08767500
	C	0.32992500	-2.36774600	-0.24555500
	H	2.23020200	-3.29330500	-0.26841600

IM14	C	0.30910600	0.02983700	-0.10959300
	C	-0.39507000	-1.16421500	-0.18222700
	H	-0.18768100	-3.31947500	-0.32174200
	H	-0.24825100	0.95784100	-0.07245200
	S	-3.81881400	-2.91499200	-0.81359900
	S	-2.77938800	-0.72897900	2.67617700
	Sn	2.67483200	-1.25188500	0.00016700
	C	4.59995500	1.47926000	0.00150900
	C	5.46251200	2.55490900	0.00024600
	C	3.45551700	0.75251700	0.00151100
	C	4.69139000	3.73698200	-0.00025200
	H	6.54308600	2.50317600	-0.00034400
	C	3.14046100	2.08187300	0.00154700
	C	3.30641700	3.45143600	0.00052000
	H	5.10961700	4.74143600	-0.00146400
	H	2.51487600	4.18966200	0.00008000
	C	-4.41994200	0.13745000	0.00022900
	C	-5.83151100	0.12452400	0.00106900
	C	-3.73455700	-1.10532200	-0.00007200
	C	-6.55082100	-1.05439800	0.00146200
	H	-6.38238200	1.05558100	0.00153900
	C	-4.49427000	-2.29597100	0.00038900
	C	-5.87472300	-2.27962400	0.00109800
	H	-7.63551200	-1.02614000	0.00211200
	H	-3.99768300	-3.25712400	0.00031800
	H	-6.42794700	-3.21290600	0.00145100
	C	-3.66416700	1.39354700	-0.00024800
	C	-4.31450000	2.64674800	-0.00060300
	C	-2.24588100	1.36875400	-0.00038500
	C	-3.61006700	3.83441900	-0.00092600
	H	-5.39516900	2.69665800	-0.00073700
	C	-1.54987000	2.59702000	-0.00073300
	C	-2.21114200	3.80931400	-0.00095500
	H	-4.14251300	4.77982500	-0.00120000
	H	-0.46792900	2.60957600	-0.00094100
	H	-1.64516800	4.73502800	-0.00122700
	C	-2.27098100	-1.13149900	-0.00061400
	C	-1.55310000	-2.34851300	-0.00123000
	C	-1.53878000	0.08414700	-0.00037800
	C	-0.17491300	-2.38685100	-0.00122800
	H	-2.08349200	-3.29143900	-0.00180800
	C	-0.12917800	0.02058900	-0.00025900
	C	0.56074100	-1.18669000	-0.00057700
	H	0.33366200	-3.34617300	-0.00167200

TS10	H	0.43741100	0.94206200	0.00008200
	S	3.95037500	-3.07704500	-0.00070300
	Sn	3.07044200	0.47604800	-0.87009800
	C	2.22170000	-1.25489400	1.12989600
	C	1.72820500	-2.01348800	2.16309400
	C	3.49974700	-0.87033900	0.77734500
	C	2.66836800	-2.53665800	3.06539700
	H	0.66513000	-2.19686400	2.26882900
	C	4.25836300	-1.44191100	1.71798600
	C	4.01655200	-2.22216600	2.81941400
	H	2.36787300	-3.15903400	3.90706000
	H	4.80820400	-2.58814900	3.46554400
	C	-4.16765100	-0.20021600	-0.16485800
	C	-5.54513100	-0.48678700	-0.27600700
	C	-3.24454400	-1.06045400	-0.81685800
	C	-6.01058000	-1.56956000	-0.99639000
	H	-6.27209400	0.14974400	0.21060400
	C	-3.74783500	-2.16082100	-1.54710200
	C	-5.10108700	-2.41667300	-1.64012900
	H	-7.07708300	-1.75885400	-1.06040900
	H	-3.06722300	-2.83250100	-2.05335900
	H	-5.45345300	-3.27040900	-2.20956000
	C	-3.68193000	0.95348200	0.59778200
	C	-4.57212000	1.83620000	1.24741200
	C	-2.28907800	1.20658000	0.69437400
	C	-4.12423900	2.92801800	1.96450400
	H	-5.63945800	1.66883600	1.19027400
	C	-1.85839400	2.33089000	1.43140700
	C	-2.75098400	3.17938800	2.05635600
	H	-4.83705000	3.58662500	2.44977800
	H	-0.80342100	2.55508900	1.51605300
	H	-2.38463200	4.03629500	2.61189700
	C	-1.81104000	-0.79995200	-0.71729000
	C	-0.85739900	-1.62900700	-1.35533200
	C	-1.33582500	0.30940000	0.03096400
	C	0.49500500	-1.39896000	-1.26222900
	H	-1.18508000	-2.47468100	-1.94609100
	C	0.05399700	0.52031200	0.11425100
	C	0.99947100	-0.31985400	-0.48980100
	H	1.17712000	-2.07361400	-1.77182900
	H	0.41653900	1.36310000	0.68928600
IM15	S	3.79381800	2.36855300	-1.81426700
	Sn	3.22340600	-1.51040900	-0.58951000
	C	2.02569600	1.25670500	1.22192500

	C	2.18037400	2.61229700	1.59028900
	C	3.27256100	0.62821100	1.00572100
	C	3.42845500	3.22960400	1.74460600
	H	1.28624200	3.19340200	1.79360500
	C	4.36014200	1.23769000	1.19654300
	C	4.63954200	2.53404000	1.54931300
	H	3.46962300	4.27061400	2.05316800
	H	5.61222000	2.98603400	1.69381000
	C	-4.22588100	-0.51475800	0.05808700
	C	-5.49530500	-1.12857700	-0.01169200
	C	-3.18100200	-1.20104200	0.72911400
	C	-5.73867600	-2.36815200	0.54659700
	H	-6.31268700	-0.62816500	-0.51357400
	C	-3.45562700	-2.46819200	1.28847300
	C	-4.70621000	-3.04725100	1.20309300
	H	-6.72692300	-2.81020000	0.47340200
	H	-2.67634200	-3.01505200	1.80268600
	H	-4.88319400	-4.02277200	1.64390800
	C	-3.97257700	0.79652100	-0.54679800
	C	-4.98381300	1.49792800	-1.23866600
	C	-2.68621200	1.38723300	-0.45049000
	C	-4.75208400	2.72923800	-1.81938700
	H	-5.97394500	1.07151200	-1.32941100
	C	-2.47485300	2.64420600	-1.05727200
	C	-3.48175700	3.30864000	-1.72935600
	H	-5.55241800	3.23907000	-2.34558500
	H	-1.50098300	3.11359200	-1.01157000
	H	-3.28312700	4.27222100	-2.18681500
	C	-1.85556700	-0.58832800	0.83448700
	C	-0.79162000	-1.23193900	1.50174200
	C	-1.61414600	0.68934200	0.26617000
	C	0.45674000	-0.65762700	1.61826100
	H	-0.94261400	-2.20378900	1.95249500
	C	-0.33296800	1.25829000	0.40701400
	C	0.70389900	0.61684900	1.07278400
	H	1.23915700	-1.17179300	2.16495300
	H	-0.12275800	2.22421700	-0.03191900
	S	3.83017500	-0.89525200	-2.66043700
IM16	C	3.56645700	-0.32778500	-0.00843200
	C	4.20801200	0.89496200	0.32781000
	C	4.54346300	-1.27213900	-0.31695300
	C	5.59989800	1.06551300	0.31258200
	H	3.59751100	1.73970600	0.63121300
	C	5.77639300	-1.11686400	-0.33567600

	C	6.49111900	0.02689700	-0.03339100
	H	6.00948100	2.03510500	0.58239900
	H	7.56601800	0.15549400	-0.04824100
	C	-3.04243300	-0.27805100	0.00861300
	C	-4.42252500	-0.57519000	0.02809900
	C	-2.11954800	-1.35591700	0.02186600
	C	-4.88957100	-1.87460500	0.05955100
	H	-5.14977400	0.22589500	0.02000800
	C	-2.62373500	-2.67479700	0.05595100
	C	-3.97920100	-2.93739500	0.07404500
	H	-5.95763000	-2.06576200	0.07420400
	H	-1.94216400	-3.51504800	0.07076600
	H	-4.33215400	-3.96314200	0.10061500
	C	-2.55368900	1.10366200	-0.02367100
	C	-3.44315400	2.20006500	-0.04746800
	C	-1.15881800	1.36488200	-0.03162600
	C	-2.99401600	3.50553600	-0.07718000
	H	-4.51162600	2.03025600	-0.04396700
	C	-0.72715800	2.70880000	-0.06157000
	C	-1.61878200	3.76321400	-0.08407400
	H	-3.70670600	4.32359800	-0.09559000
	H	0.33007400	2.93893000	-0.06997200
	H	-1.25063000	4.78369400	-0.10820200
	C	-0.68159300	-1.08612200	0.00416300
	C	0.27059600	-2.12902900	-0.00156000
	C	-0.20545100	0.24975200	-0.01140300
	C	1.62469900	-1.88276800	-0.01049700
	H	-0.05435700	-3.16096100	0.00092100
	C	1.18570800	0.47225200	-0.01643100
	C	2.11335900	-0.56236800	-0.00843300
	H	2.32703200	-2.71035400	-0.01201300
	H	1.55474900	1.48754200	-0.04802900
SnS	Sn	0.00000000	0.00000000	0.53978200
	S	0.00000000	0.00000000	-1.68681700
IM17	C	3.28035800	-1.53181300	-0.16030900
	C	4.04926200	-0.34757100	-0.00203700
	C	4.14273400	-2.61505000	-0.31746600
	C	5.45105000	-0.33243400	-0.03385300
	H	3.53485800	0.59127700	0.17922800
	C	5.38504000	-2.59189300	-0.35375800
	C	6.22175300	-1.50077200	-0.21863700
	H	5.96487900	0.61605500	0.09531800
	H	7.30401600	-1.49247700	-0.24602600
	C	-3.25630600	-0.63634400	-0.03244700

	C	-4.65264100	-0.71189300	0.16566900
	C	-2.47779700	-1.80651900	0.17516700
	C	-5.27268500	-1.88739700	0.53959800
	H	-5.26967400	0.16561700	0.02438200
	C	-3.13912100	-2.99625700	0.55195600
	C	-4.50721000	-3.04415900	0.73021700
	H	-6.34792800	-1.91085300	0.68266700
	H	-2.57153800	-3.90343300	0.71174400
	H	-4.98302900	-3.97516000	1.02021900
	C	-2.60675300	0.60169700	-0.46438100
	C	-3.35353100	1.77638500	-0.73220400
	C	-1.20471600	0.63856500	-0.64927800
	C	-2.76248000	2.93795000	-1.18331200
	H	-4.42596800	1.77565000	-0.58989800
	C	-0.62045400	1.83189500	-1.14107900
	C	-1.38094800	2.96690900	-1.40403000
	H	-3.36705000	3.81709200	-1.37707500
	H	0.43108800	1.85390200	-1.38947100
	H	-0.90587100	3.85588200	-1.80291700
	C	-1.02503100	-1.75266600	0.02466900
	C	-0.20524300	-2.87804800	0.26193800
	C	-0.39288200	-0.53827500	-0.34706100
	C	1.16731500	-2.81037300	0.17927400
	H	-0.64937400	-3.82757100	0.52990900
	C	1.01400400	-0.48974400	-0.39797700
	C	1.80985300	-1.59554800	-0.13068700
	H	1.76682500	-3.69314300	0.37734200
	H	1.50195100	0.44068500	-0.65139200
	S	0.21872300	3.34075500	1.15440200
	S	1.90848800	4.25715800	0.85035700
TS11	C	3.01909800	-1.06619800	0.26635900
	C	3.72147400	-0.15831900	1.09769100
	C	3.90230000	-2.01680500	-0.23826000
	C	5.10300700	-0.23834100	1.31998800
	H	3.15727800	0.62607900	1.59121900
	C	5.12964800	-2.06494300	-0.04801800
	C	5.90970900	-1.23772500	0.73616300
	H	5.57271100	0.50076100	1.96255300
	H	6.97779200	-1.30102700	0.90128200
	C	-3.56077500	-0.27970400	-0.07896800
	C	-4.94293600	-0.42141400	-0.32370100
	C	-2.75759600	-1.44775000	-0.02672100
	C	-5.53091000	-1.66224100	-0.47435200
	H	-5.57142300	0.45650200	-0.39838300

	C	-3.38565700	-2.70429600	-0.16720600
	C	-4.74544600	-2.81692100	-0.38200400
	H	-6.59702800	-1.73761500	-0.66118600
	H	-2.80054000	-3.61310500	-0.11787800
	H	-5.19675200	-3.79776400	-0.48890400
	C	-2.95354800	1.02689400	0.17901200
	C	-3.73109500	2.19289300	0.33147800
	C	-1.54955900	1.12932900	0.35892900
	C	-3.16553600	3.40557600	0.68185700
	H	-4.80447300	2.14846800	0.20103700
	C	-1.00696300	2.35816500	0.78566400
	C	-1.79236600	3.48570100	0.93436300
	H	-3.79542800	4.28184200	0.79479500
	H	0.04062700	2.40662100	1.05044700
	H	-1.34692200	4.41805600	1.26473600
	C	-1.30266400	-1.33160700	0.10223500
	C	-0.45848100	-2.46016200	0.07703400
	C	-0.70158000	-0.04606900	0.18824500
	C	0.91209200	-2.34602800	0.12694000
	H	-0.88095000	-3.45485200	0.03036700
	C	0.71245700	0.02375200	0.07255200
	C	1.54945600	-1.08711400	0.12117600
	H	1.53234500	-3.23596600	0.16983100
	H	0.81905100	0.94450100	-1.06357200
	S	1.75756400	2.02230100	-0.70309800
	S	3.40799500	1.72379000	-1.73934400
IM18	C	-3.15611700	-0.80652500	-0.40661100
	C	-3.85367600	0.22631600	-1.08481300
	C	-4.06690400	-1.73329300	0.08611600
	C	-5.25231300	0.27371600	-1.17399900
	H	-3.28028800	1.00451500	-1.57890200
	C	-5.30638100	-1.67381800	0.01717600
	C	-6.08188400	-0.71498100	-0.60434600
	H	-5.71511000	1.10353800	-1.70056600
	H	-7.16242600	-0.67845700	-0.66227600
	C	3.42109300	-0.35489400	0.07131100
	C	4.77000200	-0.56846400	0.42025700
	C	2.57490800	-1.47924900	-0.10523800
	C	5.29126000	-1.84170100	0.55011700
	H	5.42175000	0.27703200	0.60120000
	C	3.13540500	-2.76816500	0.01690200
	C	4.46859200	-2.95236700	0.33097100
	H	6.33265000	-1.97610200	0.82313200
	H	2.51468000	-3.64524100	-0.11183100

TS12	H	4.86732300	-3.95689800	0.42603200
	C	2.89056600	0.98530600	-0.18131500
	C	3.73520000	2.10478800	-0.32074100
	C	1.49859100	1.15895300	-0.39351200
	C	3.24853100	3.34355900	-0.69811800
	H	4.80142800	1.99686400	-0.16860000
	C	1.03969100	2.41231900	-0.85823100
	C	1.89134500	3.49306900	-0.99944400
	H	3.92878100	4.18190100	-0.80519200
	H	0.01154600	2.51862100	-1.18557400
	H	1.51025700	4.43937300	-1.36828000
	C	1.13618700	-1.28714300	-0.31122700
	C	0.25385100	-2.36974200	-0.48639000
	C	0.59024900	0.02167200	-0.25813600
	C	-1.10778300	-2.18153100	-0.56850500
	H	0.63690500	-3.37760700	-0.57605200
	C	-0.81893300	0.15644600	-0.12519700
	C	-1.68309000	-0.91645900	-0.35600500
	H	-1.76370300	-3.02365000	-0.76096200
	H	-0.34678100	2.15672500	1.01775600
	S	-1.56915900	1.64784700	0.70133400
	S	-2.39755000	1.09043600	2.46641500
	C	3.11385700	-1.17509600	-0.09130300
	C	3.87366700	-0.44211900	0.85887200
	C	3.95975300	-1.97803500	-0.85113800
	C	5.27009700	-0.52990200	0.94736400
	H	3.35305000	0.21682000	1.54682300
	C	5.19920400	-2.03484000	-0.76560500
	C	6.03486800	-1.36684200	0.10609700
	H	5.78294800	0.07133100	1.69227900
	H	7.11325300	-1.43649800	0.17020400
	C	-3.47115300	-0.33892400	0.07657400
	C	-4.87193400	-0.46668700	0.18123200
	C	-2.68239300	-1.52280200	0.05995200
	C	-5.48658700	-1.70123300	0.26429400
	H	-5.49100600	0.42152000	0.19267500
	C	-3.33619100	-2.77059500	0.14271900
	C	-4.71078800	-2.86641600	0.24377300
	H	-6.56717300	-1.76439300	0.34134900
	H	-2.75973900	-3.68698300	0.12615500
	H	-5.18286200	-3.84138600	0.30531500
	C	-2.82490400	0.97006900	-0.01969800
	C	-3.51829000	2.19511100	0.02071500
	C	-1.41930300	1.04213000	-0.16587600

	C	-2.84434400	3.40393500	-0.09286100
	H	-4.59396800	2.21395400	0.14702500
	C	-0.73465300	2.25440800	-0.29668800
	C	-1.45095500	3.44032100	-0.26261900
	H	-3.40886900	4.33137600	-0.04151100
	H	0.61520600	2.01155900	-1.51738900
	H	-0.94871300	4.40062600	-0.35107000
	C	-1.22267500	-1.43458000	-0.03688800
	C	-0.37900600	-2.56043300	-0.00922200
	C	-0.61411800	-0.16202700	-0.14890000
	C	0.99461000	-2.44096800	-0.06173600
	H	-0.79578000	-3.55538400	0.08113800
	C	0.79150200	-0.07209400	-0.24171200
	C	1.62962400	-1.18708700	-0.15051100
	H	1.61689000	-3.32686400	0.00104300
	H	2.74478600	1.00469600	-0.99606500
	S	1.53010400	1.56635400	-0.58296100
	S	2.26506200	3.02163700	0.58677500
IM19	C	3.11318500	-1.22769200	-0.09129700
	C	3.89925300	-0.32919100	0.67718200
	C	3.94081900	-2.14967100	-0.72780900
	C	5.29915100	-0.39459600	0.72732300
	H	3.40208300	0.43675800	1.26541900
	C	5.18291800	-2.18565800	-0.68129000
	C	6.04230300	-1.36537500	0.02146700
	H	5.83153600	0.33387300	1.33175600
	H	7.12319500	-1.41621100	0.05474300
	C	-3.44108800	-0.30815600	0.04835300
	C	-4.84563000	-0.37613900	0.13150900
	C	-2.69785000	-1.52764700	0.09149200
	C	-5.51044000	-1.58257500	0.25280600
	H	-5.42646300	0.53788300	0.10150300
	C	-3.40218500	-2.74182500	0.21619300
	C	-4.78206600	-2.77705300	0.29597900
	H	-6.59357200	-1.60008000	0.31482300
	H	-2.85658100	-3.67722000	0.25397900
	H	-5.29509700	-3.72813400	0.39287100
	C	-2.74676300	0.97667400	-0.07801200
	C	-3.35505200	2.24676100	-0.13548200
	C	-1.34414600	0.96321800	-0.15452100
	C	-2.58666200	3.39942700	-0.25221300
	H	-4.43280200	2.34757600	-0.08559200
	C	-0.57598000	2.11412400	-0.25502900
	C	-1.18098800	3.35174500	-0.31123300

	H	-3.08474300	4.36366200	-0.28554700
	H	1.09252600	1.85339500	-1.85588100
	H	-0.59792200	4.26474300	-0.36566600
	C	-1.23519400	-1.50632700	0.00646400
	C	-0.38941100	-2.63414000	0.02459700
	C	-0.59585200	-0.26289000	-0.10895300
	C	0.98621000	-2.50212400	-0.03760400
	H	-0.80172900	-3.63325500	0.10061000
	C	0.79118200	-0.13890300	-0.19281400
	C	1.63409200	-1.24555700	-0.12347300
	H	1.60870100	-3.38962300	0.00708100
	H	2.59654200	1.16712400	-0.83763900
	S	1.31500300	1.63449800	-0.50453700
	S	2.07471600	3.07556100	0.72614500
TS13	C	3.07029400	-1.31195000	-0.09461100
	C	3.85227700	-0.40627100	0.67220200
	C	3.90501300	-2.23105400	-0.72522500
	C	5.25278800	-0.46328400	0.72348700
	H	3.35132800	0.35156800	1.26916600
	C	5.14714700	-2.26146800	-0.67801900
	C	6.00142100	-1.43236400	0.02141200
	H	5.78028100	0.27009500	1.32621300
	H	7.08259900	-1.47652100	0.05471700
	C	-3.45101800	-0.26417200	0.05432700
	C	-4.85622400	-0.29345700	0.14483600
	C	-2.74066700	-1.50405600	0.09609700
	C	-5.55331700	-1.48117500	0.27126700
	H	-5.41222400	0.63604500	0.11687800
	C	-3.47756900	-2.69772900	0.22697300
	C	-4.85766300	-2.69493200	0.31292500
	H	-6.63616600	-1.46882200	0.33877000
	H	-2.95648200	-3.64707000	0.26447800
	H	-5.39614700	-3.63141500	0.41382700
	C	-2.72404400	1.00228500	-0.08027600
	C	-3.29616200	2.28808700	-0.15288800
	C	-1.32268800	0.94718800	-0.15303800
	C	-2.49745400	3.41788900	-0.29160600
	H	-4.37057400	2.41966100	-0.10394900
	C	-0.53212900	2.07799000	-0.27703200
	C	-1.09435400	3.33297500	-0.36111200
	H	-2.96778800	4.39503500	-0.33813600
	H	1.63802100	2.85291800	-1.13215800
	H	-0.48868900	4.22828400	-0.44449500
	C	-1.27840700	-1.52293400	0.00419700

	C	-0.45772000	-2.67038800	0.00914700
	C	-0.60866900	-0.29731000	-0.10714400
	C	0.92159300	-2.56581900	-0.05628400
	H	-0.89167800	-3.66105900	0.07589800
	C	0.77804300	-0.19201500	-0.18971400
	C	1.59257100	-1.32159400	-0.13100000
	H	1.52510300	-3.46726300	-0.02330300
	H	2.60738100	1.13362800	-0.78775200
	S	1.31351700	1.57354300	-0.51210600
	S	2.21752400	3.19759900	0.73312600
IM20	C	3.02276400	-1.53888100	0.00871100
	C	3.91952900	-0.51485300	0.41624000
	C	3.75910800	-2.64777300	-0.41004100
	C	5.31547000	-0.64519600	0.35916000
	H	3.52569400	0.41273600	0.81755600
	C	4.99643400	-2.74589000	-0.46228300
	C	5.95214500	-1.81633700	-0.10241900
	H	5.92821500	0.19135100	0.68223700
	H	7.02831000	-1.91992400	-0.15501300
	C	-3.45407900	-0.23852800	-0.00403600
	C	-4.86201700	-0.20991100	-0.00950700
	C	-2.79915800	-1.50893500	0.03172100
	C	-5.61332000	-1.37074300	0.01898400
	H	-5.37833000	0.74223400	-0.03591100
	C	-3.59077300	-2.67402600	0.06055100
	C	-4.97200900	-2.61437000	0.05466000
	H	-6.69674100	-1.31409100	0.01422500
	H	-3.11072400	-3.64496200	0.09015000
	H	-5.55408800	-3.52959300	0.07857200
	C	-2.66931300	1.00148000	-0.03349500
	C	-3.18572600	2.31255400	-0.07783100
	C	-1.27201700	0.88247100	-0.01667100
	C	-2.34161800	3.41545300	-0.09720600
	H	-4.25567700	2.48242400	-0.09783200
	C	-0.43556900	2.00420400	-0.03724100
	C	-0.94185700	3.28460700	-0.07385500
	H	-2.76982100	4.41143300	-0.13268200
	H	1.80252000	1.50951700	-1.15117700
	H	-0.27258000	4.13793400	-0.08584000
	C	-1.33713200	-1.58715700	0.03708900
	C	-0.55697400	-2.76145400	0.03655500
	C	-0.61631100	-0.38528700	0.02591800
	C	0.82511400	-2.69667500	0.02869800
	H	-1.02366300	-3.73940200	0.03775100

TS14	C	0.77666800	-0.31660600	0.02204600
	C	1.54929500	-1.47537800	0.03543000
	H	1.39467500	-3.62083600	0.01804300
	H	2.60437000	4.04499800	1.19815400
	S	1.32824100	1.53717100	0.11027300
	S	2.29462900	4.02030100	-0.11935400
	C	2.72187600	-1.61012500	0.31040700
	C	3.46983800	-0.74426200	1.15064500
	C	3.55047100	-2.62430000	-0.16410900
	C	4.83697500	-0.92005300	1.40696800
	H	2.94936700	0.07811700	1.62918500
	C	4.76515400	-2.76320000	0.06161700
	C	5.58493200	-1.98146900	0.85205400
	H	5.34131200	-0.21402100	2.06075600
	H	6.64121700	-2.11969800	1.04514600
	C	-3.61059500	0.05549400	0.05091300
	C	-5.01033500	0.19924200	0.05379700
	C	-3.05502000	-1.22392300	-0.30582500
	C	-5.85180400	-0.84887100	-0.27658100
	H	-5.44257600	1.15894200	0.31508100
	C	-3.93932600	-2.26834600	-0.63584300
	C	-5.31185100	-2.09238400	-0.62475100
	H	-6.92701800	-0.70327300	-0.26817900
	H	-3.53445500	-3.23579500	-0.91197900
	H	-5.96571700	-2.91752700	-0.88733700
	C	-2.73465700	1.18057700	0.41136500
	C	-3.06494700	2.44893200	0.94375800
	C	-1.37048100	0.93922200	0.27191300
	C	-2.06062300	3.33285700	1.31984500
	H	-4.09759500	2.74546100	1.09121100
	C	-0.36822200	1.83033600	0.63768400
	C	-0.67045400	3.04378900	1.18899200
	H	-2.33827200	4.30112900	1.72623100
	H	1.10183500	1.68564500	-1.56226000
	H	0.07059700	3.77345300	1.49181800
	C	-1.60209400	-1.43825500	-0.30666600
	C	-0.86155300	-2.63537400	-0.45678600
	C	-0.82859700	-0.30950600	-0.05792100
	C	0.51181600	-2.62908100	-0.28515600
	H	-1.34996300	-3.57978000	-0.67035200
	C	0.55432900	-0.29578800	0.09886400
	C	1.28493900	-1.46413600	0.04500500
	H	1.05898600	-3.56319600	-0.37999500
	H	4.29736900	1.92640300	-1.90626900

IM21	S	1.96060500	1.87728400	-0.54435900
	S	3.44916400	2.97120900	-1.76277600
	C	-2.01632400	-2.32355700	-0.01666100
	C	-3.10019100	-1.51466200	-0.45510200
	C	-2.37264900	-3.66683800	-0.12355200
	C	-4.30811100	-2.04487400	-0.92786500
	H	-2.99172100	-0.43537900	-0.40019200
	C	-3.44667600	-4.12631400	-0.54840000
	C	-4.55319500	-3.43413200	-1.00170700
	H	-5.08999200	-1.36096600	-1.24629800
	H	-5.48411400	-3.84746400	-1.36873000
	C	3.47689400	0.66523700	-0.20742200
	C	4.76559700	1.10091200	-0.55398300
	C	3.35579900	-0.47512300	0.69428500
	C	5.90602600	0.48349200	-0.06278100
	H	4.86618800	1.95252000	-1.21976200
	C	4.53560200	-1.07417800	1.16481300
	C	5.79027100	-0.60967600	0.80083200
	H	6.88607800	0.85208000	-0.34760900
	H	4.45645300	-1.92012600	1.84062600
	H	6.68005000	-1.09404300	1.18965400
	C	2.27044000	1.28923800	-0.79389700
	C	2.00274200	1.94127400	-2.04270900
	C	1.12094600	0.92167100	-0.16002200
	C	0.70564100	1.94201700	-2.54758100
	H	2.79427900	2.37735100	-2.64435700
	C	-0.18235400	0.74229400	-0.68966800
	C	-0.40477600	1.24849700	-1.94768900
	H	0.53636800	2.42292000	-3.50624300
	H	-1.65789700	2.97597300	0.91103200
	H	-1.31115400	1.09220300	-2.52266300
	C	2.02715200	-1.02199300	1.04097600
	C	1.54947800	-2.33863600	1.35172200
	C	1.00244600	-0.18243000	0.71798400
	C	0.22026700	-2.65672200	1.11264700
	H	2.21083700	-3.11969900	1.71414400
	C	-0.31518000	-0.48385900	0.29850100
	C	-0.74464500	-1.78684300	0.46963000
	H	-0.11146800	-3.66508500	1.34307400
	H	-4.40403700	2.76505000	2.44229900
IM22	S	-2.83831700	2.78658900	0.27586700
	S	-4.10487400	3.80315500	1.62294100
	C	-3.15243200	-0.60886500	-0.04118800
	C	-3.87875300	0.56749500	-0.37301600

	C	-3.99768600	-1.49347900	0.62577200
	C	-5.22630600	0.75700600	-0.03903500
	H	-3.36532900	1.34757000	-0.92765000
	C	-5.19220200	-1.31613900	0.92039800
	C	-5.98290100	-0.21501700	0.65236800
	H	-5.71129000	1.68549600	-0.32745800
	H	-7.02397500	-0.07251200	0.91310300
	C	3.03999400	0.31877600	-0.01597200
	C	4.37703100	0.50811200	0.36768800
	C	2.55668500	-1.04889300	-0.17244200
	C	5.23381800	-0.55840200	0.59478700
	H	4.74798300	1.52219300	0.48036500
	C	3.45543900	-2.09980400	0.07271100
	C	4.77031700	-1.86901000	0.44718900
	H	6.26314000	-0.37336000	0.88430700
	H	3.10734700	-3.12126600	-0.04591100
	H	5.43797900	-2.70643100	0.62181500
	C	2.11905000	1.46426500	-0.18539400
	C	2.04263700	2.76714600	0.40788000
	C	0.95279400	1.12117100	-0.80193100
	C	0.81160800	3.41350300	0.47570300
	H	2.90391600	3.23953300	0.87016000
	C	-0.35117200	1.64613900	-0.62061500
	C	-0.44089600	2.83105300	0.06802500
	H	0.77857700	4.38866400	0.95238700
	H	-1.37139000	3.29494000	0.37822300
	C	1.14236200	-1.31234200	-0.51117900
	C	0.22985900	-2.37453500	-0.19870700
	C	0.48484800	-0.20522000	-0.95885200
	C	-1.13407800	-2.12133600	-0.18848700
	H	0.57441800	-3.36307400	0.08919000
	C	-0.87257100	0.16433100	-0.80716200
	C	-1.74395300	-0.81964600	-0.37733000
	H	-1.80233000	-2.93960100	0.06418600
H ₂ S ₂	H	-1.31697400	-0.87313700	0.88378600
	H	1.31696800	0.87089000	0.88599300
	S	-1.05256600	0.06826200	-0.05521900
	S	1.05256600	-0.06812100	-0.05539200

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