

Electronic Supplementary Information

to

**Unraveling origins of the heterogeneous curvature
dependence of polypeptide interactions with carbon
nanostructures: a computational study**

*Asis K. Jana¹, Mrityunjay k. Tiwari², Kumar Vanka and Neelanjana Sengupta**

Physical Chemistry Division, CSIR-National Chemical Laboratory,

Dr. Homi Bhabha Road, Pune 411008, India

-
- Correspondence:n.sengupta@ncl.res.in
 - 1 and 2 contributed equally

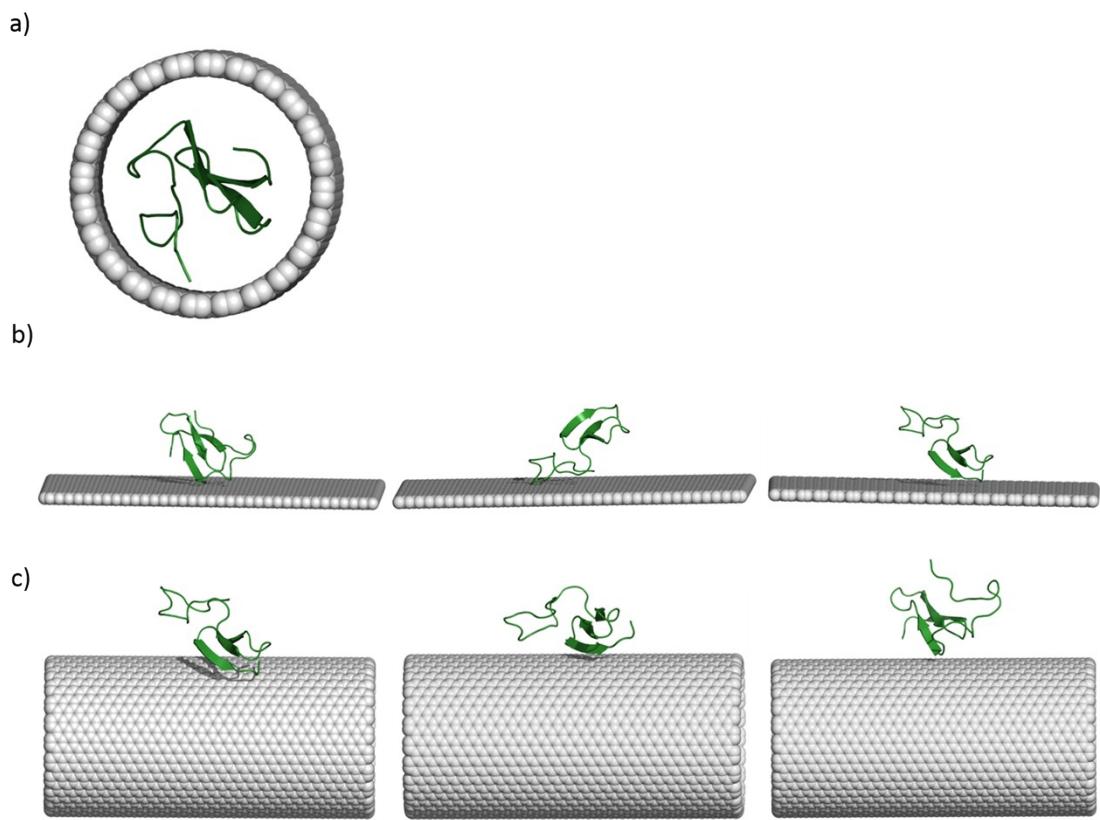


Figure S1. Snapshots of starting conformations of peptide nanosurface MD simulations, for peptide on the a) concave surface; b) planar surface; c) concave surface. The water molecules are not shown for clarity.

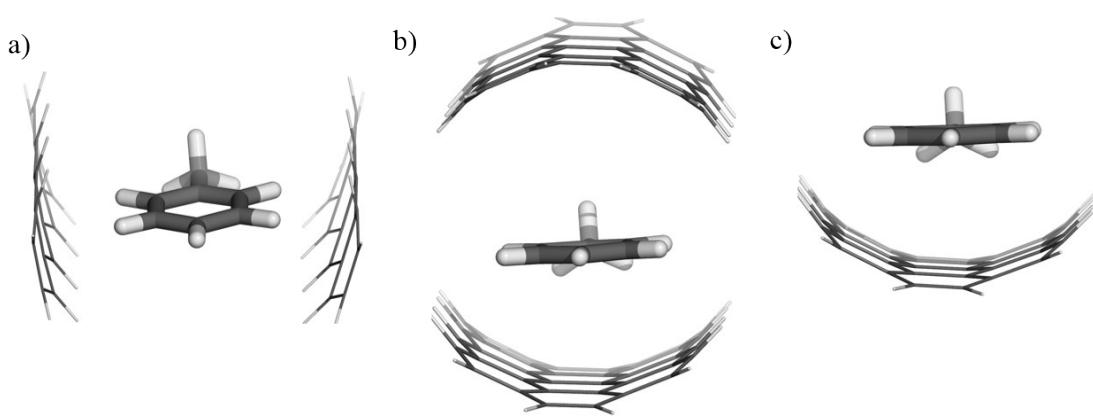


Figure S2: A schematic representation of interaction of a) toluene with the sidewalls of concave surface of SWCNT where hydrogens of phenyl ring and methyl group are interacting through CH- π , b) toluene with lower and upper wall and c) toluene with lower wall of concave surface of SWCNT through π - π of phenyl ring and CH- π of hydrogens of methyl substituent. Atom Colors: grey-carbon and white-hydrogen.

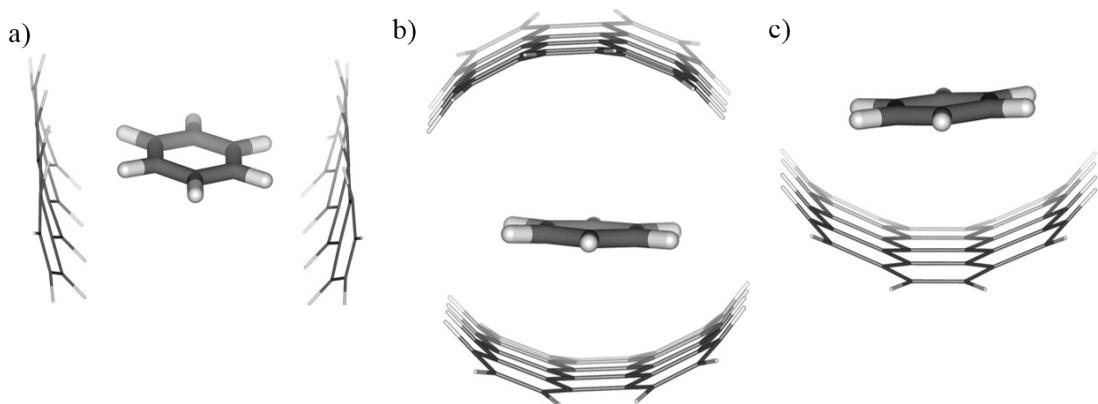


Figure S3: A schematic representation of interaction of a) benzene with the sidewalls of concave surface of SWCNT where hydrogens of phenyl ring are interacting through CH- π , b) benzene with lower and upper wall and c) benzene with lower wall of concave surface of SWCNT through π - π of phenyl ring. Atom Colors: grey-carbon and white-hydrogen.

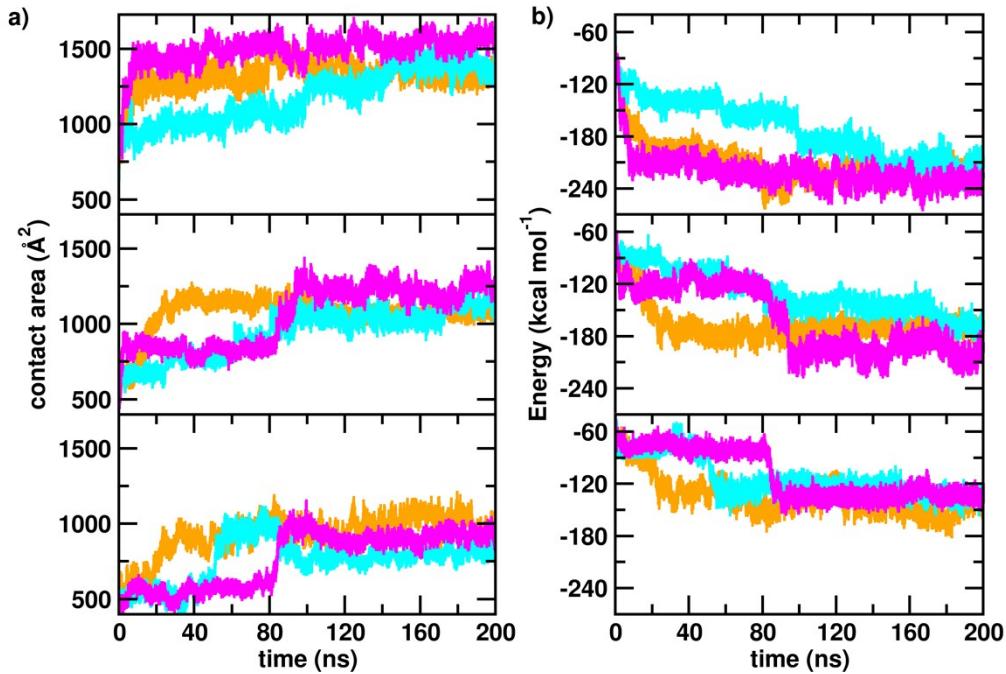


Figure S4: Time evolution of a) total peptide-SWCNT contact area, and b) total peptide-SWCNT interaction energy along the three independent simulation trajectories. The upper, middle and lower panels represent the systems corresponding to the concave, planar and convex surfaces, respectively.

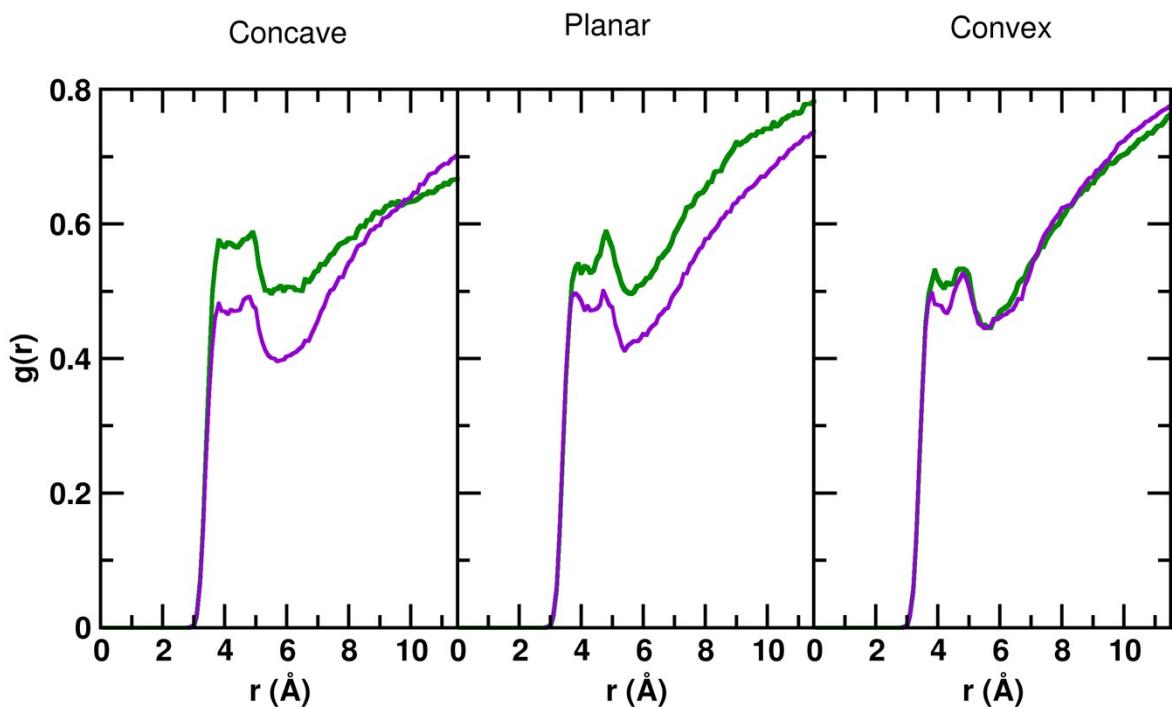


Figure S5: Protein C_β atom-water oxygen radial distribution functions before (*in green*) and after (*in purple*) peptide adsorption on the individual carbon nanosurfaces. Each data set is calculated using snapshots from a cumulative simulation time of 30 ns.

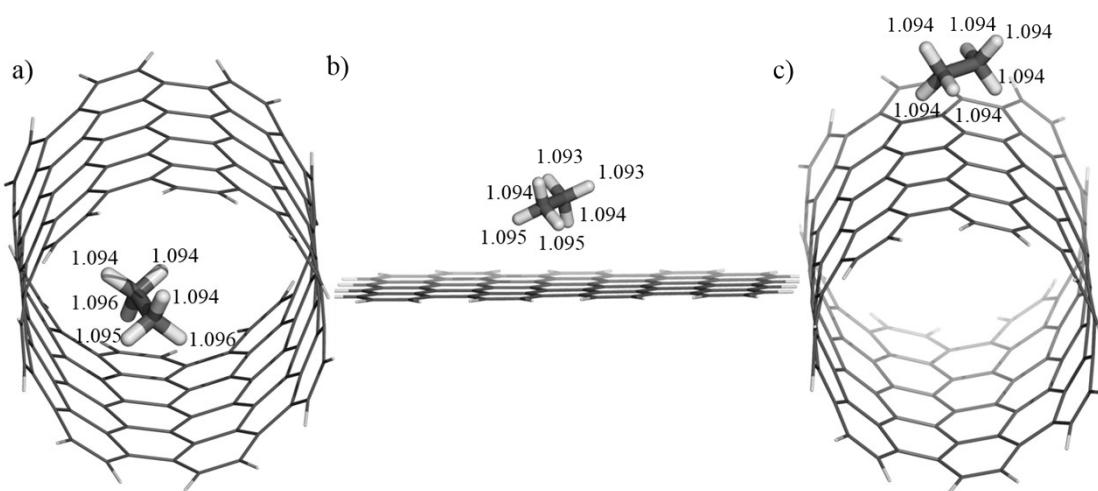


Figure S6: The gas phase optimized geometries of ethane with concave surface of SWCNT, graphene and convex surface of SWCNT at the M062X/6-31G** level of theory. The values correspond to the C-H bond distances of ethane. All the values are in Å. Atom Colors: grey-carbon and white-hydrogen.

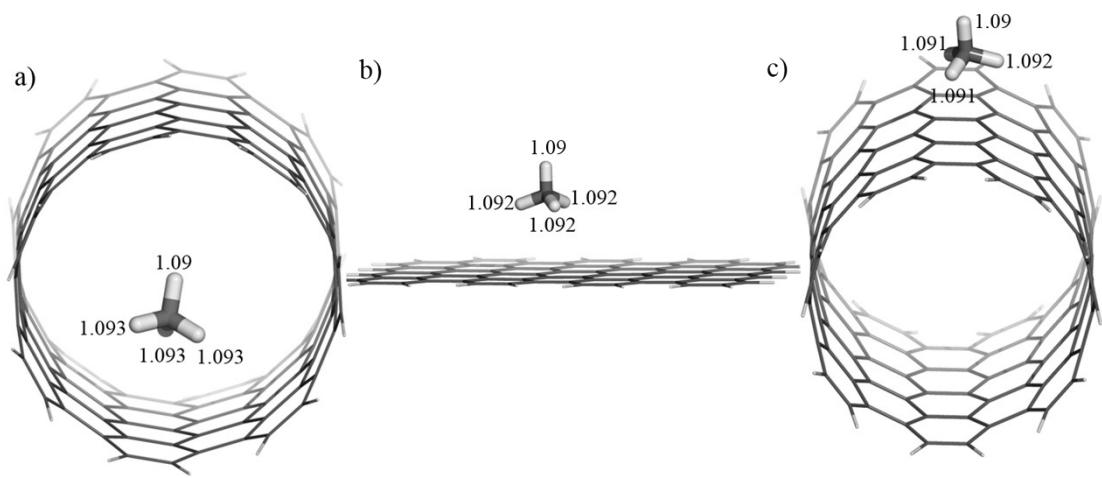


Figure S7: The gas phase optimized geometries of methane with concave surface of SWCNT, graphene and convex surface of SWCNT at the M062X/6-31G** level of theory. The values correspond to the C-H bond distances of methane. All the values are in Å. Atom Colors: grey-carbon and white-hydrogen.

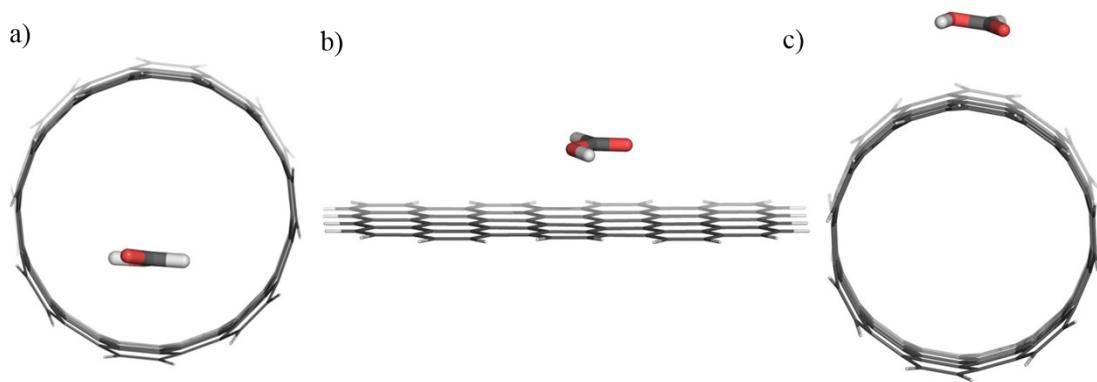


Figure S8: The gas phase optimized geometries of formic acid with a) concave surface of SWCNT, b) graphene and c) convex surface of SWCNT at the M062X/6-31G** level of theory. Atom Colors: grey-carbon, white-hydrogen and red-oxygen.

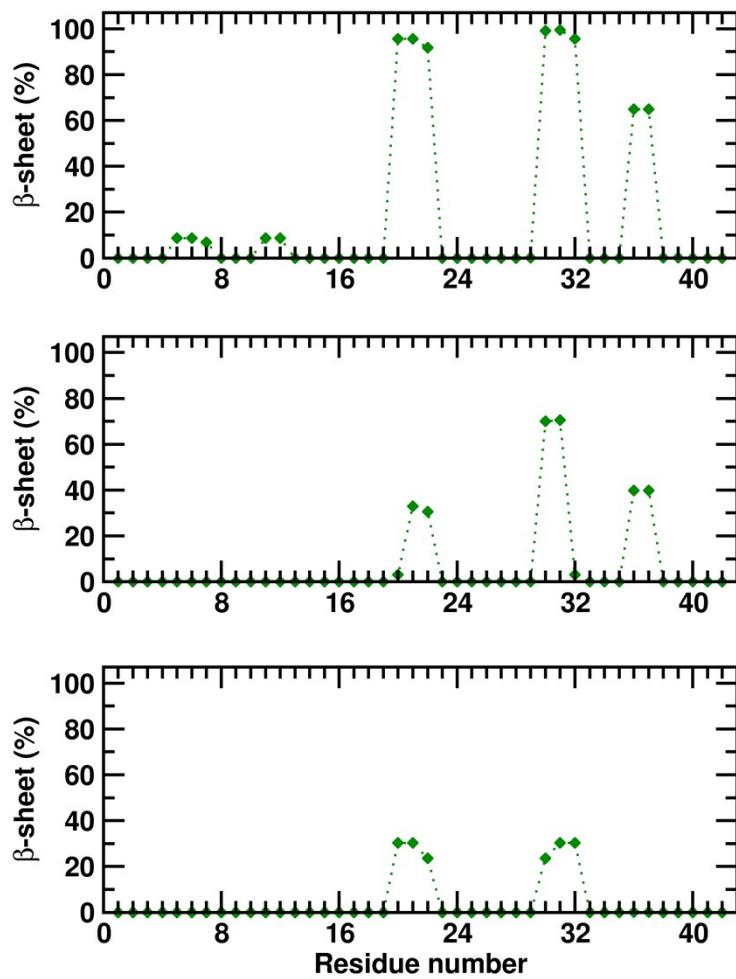


Figure S9: The residue-wise secondary structure fractions of the peptides after adsorption, in the systems corresponding to the concave (top panel), planar (middle panel), and convex (lower panel) surfaces, respectively.

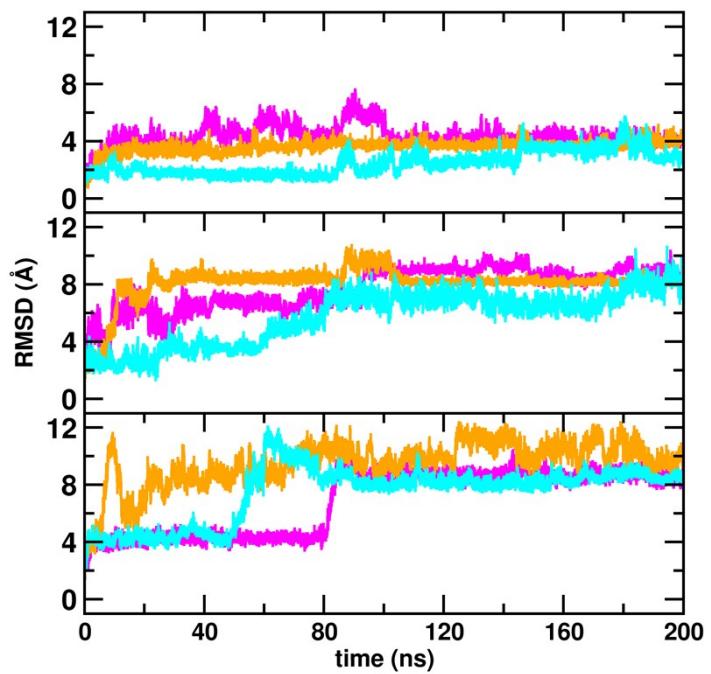


Figure S10: Time evolution of backbone RMSD of the peptide along the three independent simulation trajectories of each system. The upper, middle and lower panels represent the systems corresponding to the concave, planar and convex surfaces, respectively.

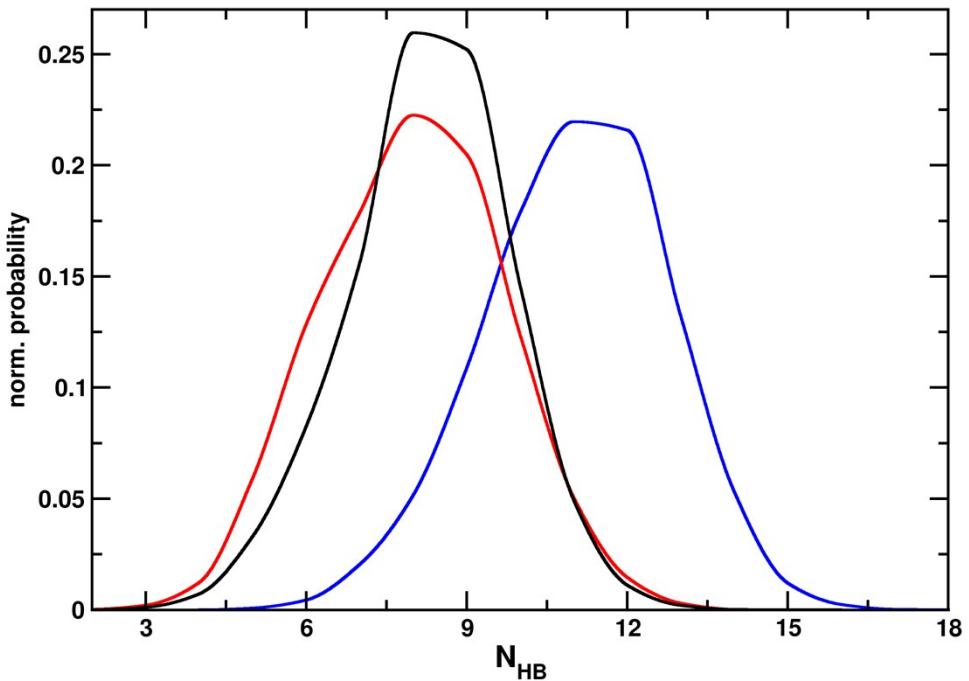


Figure S11: Normalized distributions of the number of intra-peptide backbone hydrogen bonds (N_{HB}) of the peptide after adsorption on the surfaces, in the systems with concave (*in blue*), planar (*in black*) and convex (*in red*) surfaces. Data is obtained using the 120 ns of cumulative simulation time from the last parts of the simulation trajectories.

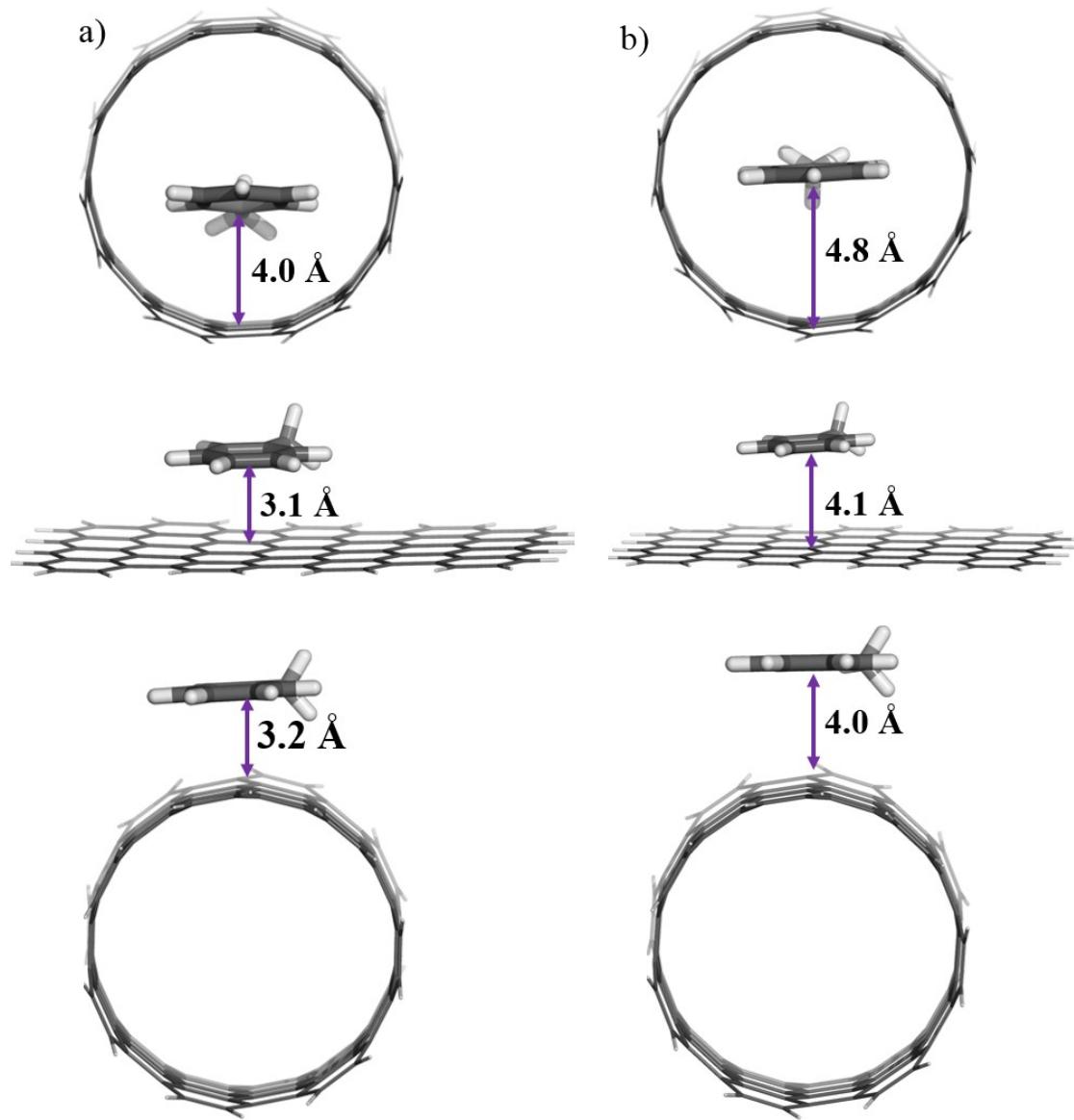


Figure S12: The gas phase optimized geometries of toluene with concave surface of SWCNT, graphene and convex surface of SWCNT at the a) dispersion corrected B3LYP-D2/6-31G** and b) B3LYP/6-31G** level of theories. The distances (\AA) are calculated normal to the CNSs from the geometrical centers of toluene. Atom Colors: grey-carbon and white-hydrogen.

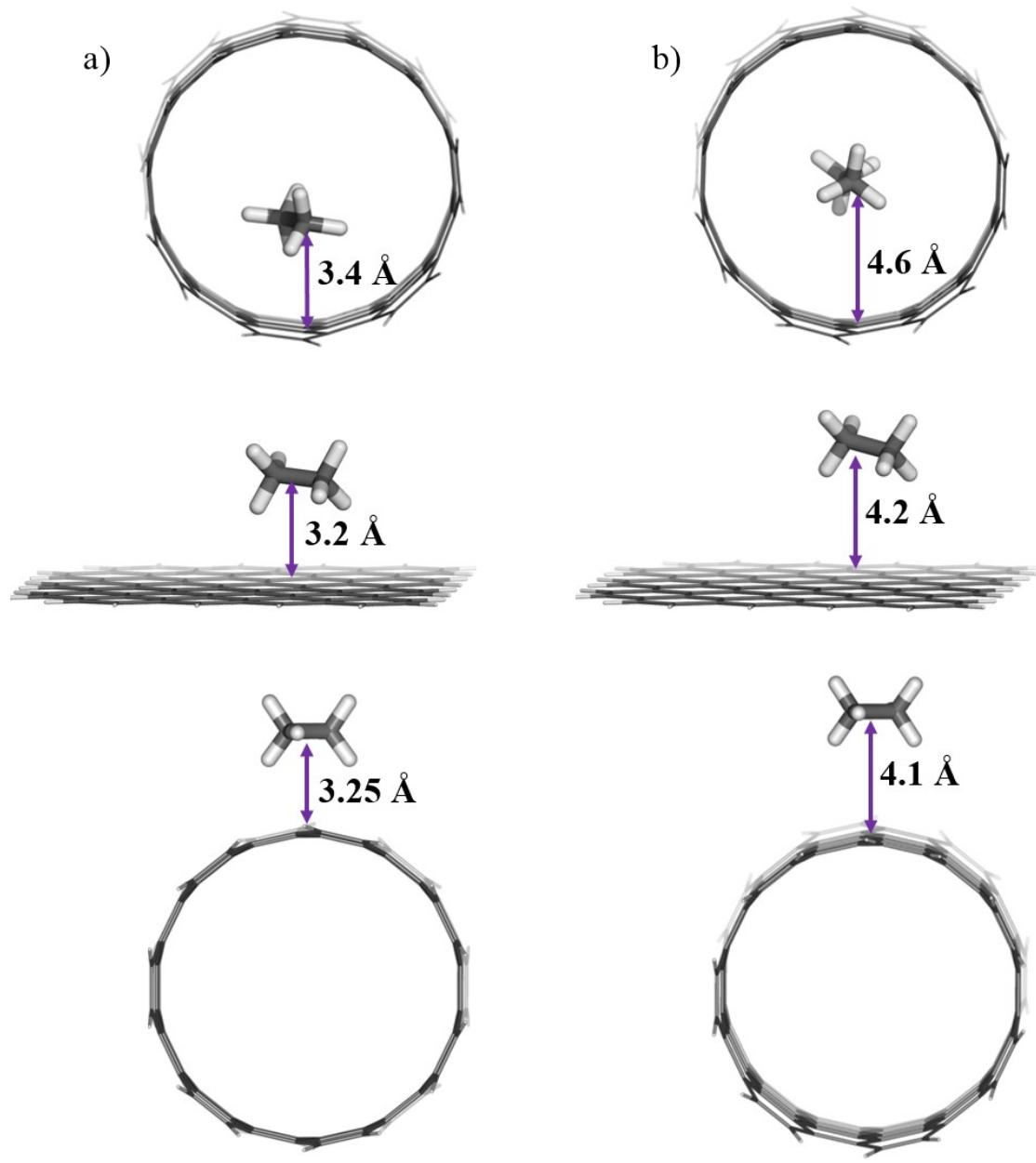


Figure S13: The gas phase optimized geometries of ethane with concave surface of SWCNT, graphene and convex surface of SWCNT at the a) dispersion corrected B3LYP-D2/6-31G** and b) B3LYP/6-31G** level of theories. The distances (Å) are calculated normal to the CNSs from the geometrical centers of ethane. Atom Colors: grey-carbon and white-hydrogen.

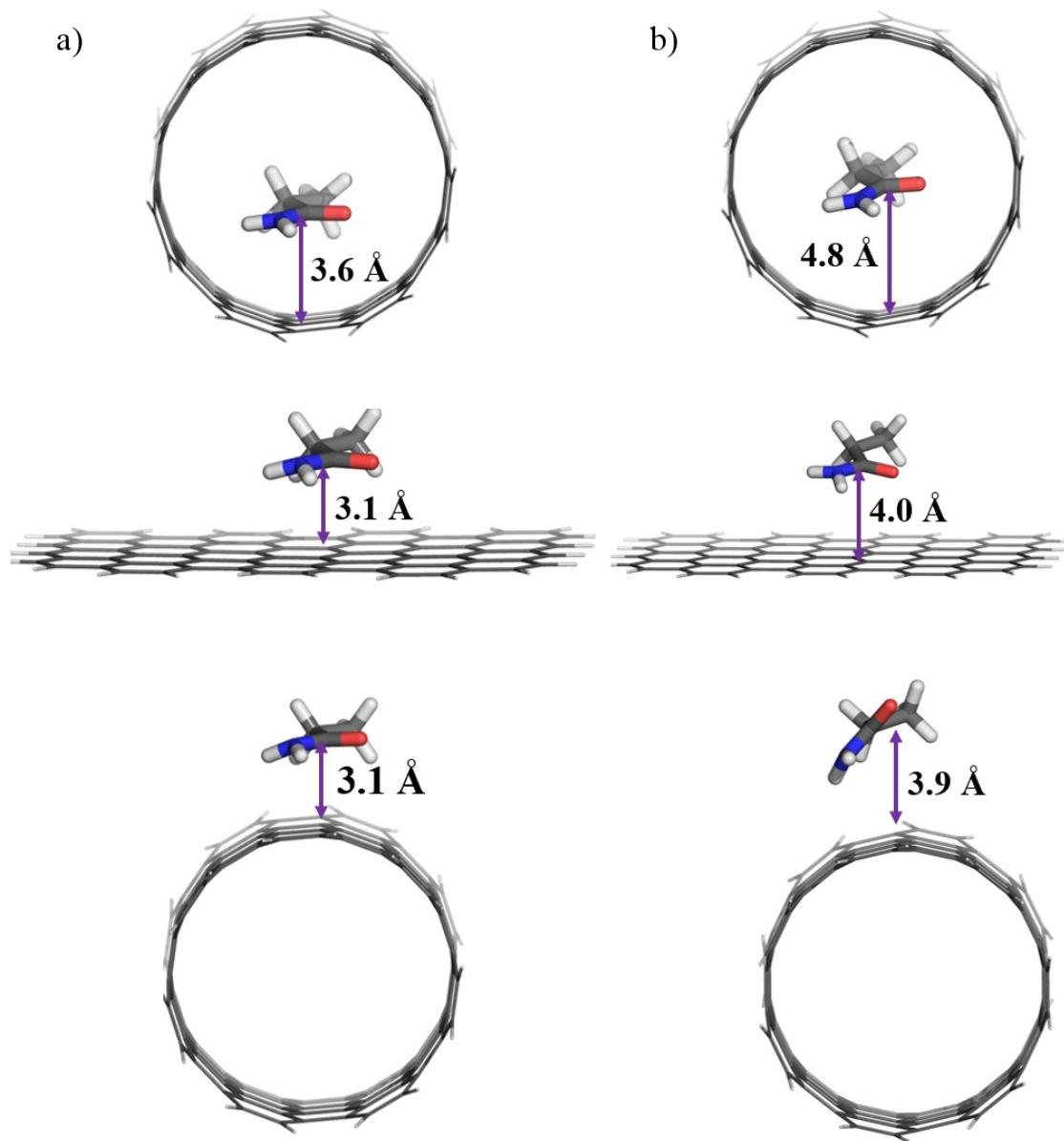


Figure S14: The gas phase optimized geometries of propanamide with concave surface of SWCNT, graphene and convex surface of SWCNT at the a) dispersion corrected B3LYP-D2/6-31G** and b) B3LYP/6-31G** level of theories. The distances (\AA) are calculated normal to the CNSs from the geometrical centers of propanamide. Atom Colors: grey-carbon, white-hydrogen, red-oxygen and blue-nitrogen.

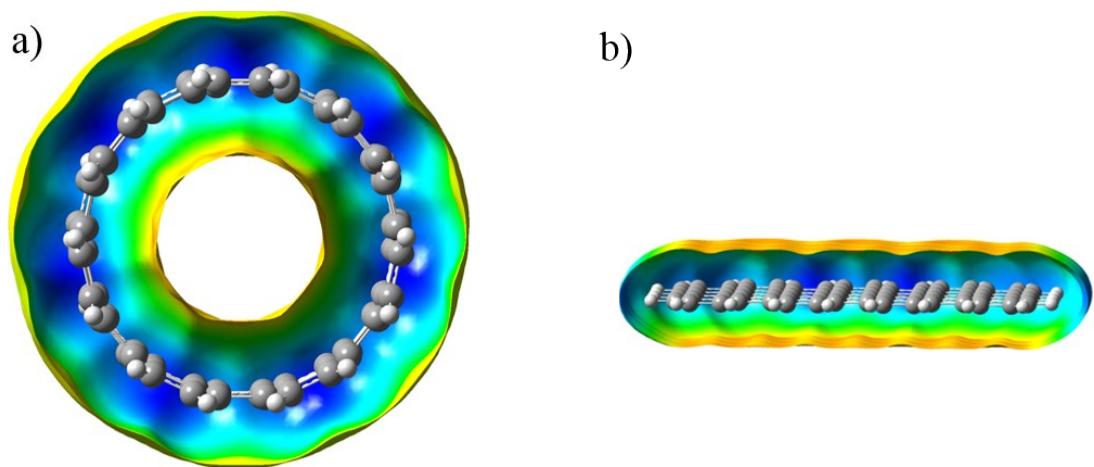


Figure S15: Molecular electrostatic potential isosurfaces of a) nanotube and b) graphene at the M062X/6-31G** level of theory. The blue color indicates large positive potential, the red color indicates large negative potential, whereas yellow and green colors indicate intermediate values.

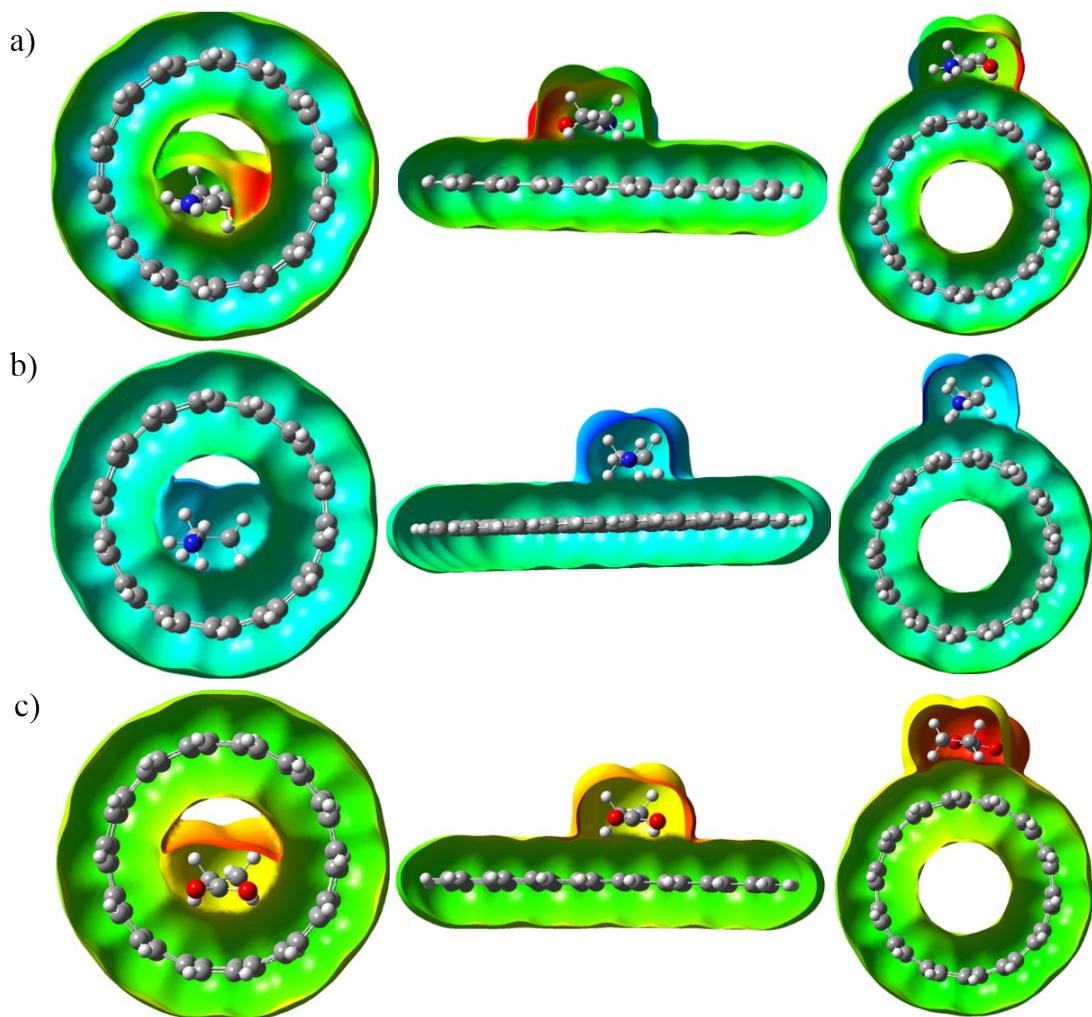


Figure S16: Molecular electrostatic potential isosurfaces of a) propanamide at the M062X/6-31G** level of theory, and b) ethylammonium and c) propanoate at the CPCM/M062X/6-31G** level of theory while in interaction with concave surface of SWCNT, graphene and convex surface of SWCNT respectively from left to right. The blue color indicates large positive potential, the red color indicates large negative potential, whereas yellow and green colors indicate intermediate values.

Table S1. Mean solvation number (W_i) around protein 10 ns before adsorption; Mean solvation number (W_f) around protein 10 ns after adsorption; standard deviations are provided within braces. The mean desolvation number, ΔW , is the difference between W_i and W_f .

System	W_i	W_f	ΔW
Concave	205.0 (10.4)	163.4 (7.5)	41.6
Planar	207.2 (9.7)	189.6 (8.3)	17.6
Convex	211.5 (12.1)	199.5 (10.2)	12.0

Table S2. The interaction energies in kcal mol⁻¹ of toluene and benzene with different walls of concave surface of SWCNT at the M062X/6-31G** level of theory in gas phase

E _i	total ^a	Lower wall ^b	(Lower + upper) walls ^c	Side-walls ^d	Sum ^e
Toluene	-19.7	-12.0	-12.2	-5.4	-17.4
Benzene	-16.2	-8.9	-9.3	7.0	-15.9

- a) Net interaction energy arises due to all the surfaces of concave surface of SWCNT
- b) Interaction energy only due to lower wall of SWCNT
- c) Interaction energy due to upper and lower walls of SWCNT
- d) Interaction energy due to both the side walls of SWCNT
- e) Sum of interaction energies with lower and two side walls of concave surface of SWCNT

Table S3. The C-O and C-N bond distances (in Å) in the amido group of propanamide and C-O bond distances (in Å) in the carboxylic group of propanoic acid at the M062X/6-31G** level of theory.

		Concave		Planar		Convex		Free	
		Gas	Solvent	Gas	Solvent	Gas	Solvent	gas	Solvent
Propanamide	1	1.221	1.225	1.218	1.225	1.216	1.225	1.236	1.225
	2	1.36	1.356	1.37	1.359	1.369	1.356	1.368	1.354
Propanoic acid	1'	1.208	1.21	1.207	1.21	1.206	1.21	1.22	1.209
	2'	1.347	1.345	1.348	1.345	1.348	1.343	1.4	1.343

1, 2, 1', 2' represent covalent bond lengths as shown in following figure in optimized geometries of a) propanamide and b) propanoic acid respectively



Table S4. The Mulliken charges on all the atoms of amido group of propanamide and carboxylic group of propanoic acid at the M062X/6-31G** level of theory

		Concave		Planar		Convex		Free	
		Gas	Solvent	Gas	solvent	Gas	solvent	gas	Solvent
Propanamide	N	-0.65	-0.65	-0.65	-0.66	-0.66	-0.66	-0.68	-0.67
	C'	0.59	0.58	0.57	0.58	0.58	0.58	0.59	0.59
	O'	-0.53	-0.56	-0.51	-0.57	-0.51	-0.58	-0.51	-0.58
	H	0.28	0.29	0.29	0.31	0.29	0.32	0.29	0.32
	H	0.30	0.31	0.29	0.30	0.29	0.31	0.30	0.31
Propanoic acid	O	-0.48	-0.50	-0.48	-0.51	-0.48	-0.52	-0.47	-0.52
	C'	0.59	0.60	0.59	0.60	0.59	0.61	0.59	0.61
	O'	-0.51	-0.52	-0.52	-0.53	-0.52	-0.52	-0.53	-0.53
	H	0.34	0.36	0.34	0.36	0.34	0.36	0.35	0.37

C' and O' represent carbonyl carbon and carbonyl oxygen (oxo) respectively.

Table S5. The interaction energies in kcal mol⁻¹ of ammonia with the different CNSs

E _i	Concave	Planar	Convex
L ₁	-6.3	-3.6	-3.4
L ₂	-7.7	-5.1	-4.8
L ₃	-7.5	-4.0	-3.7
L ₄	-4.5	-2.9	-2.8
L ₅	-7.9	-4.6	-4.2
L ₆	-5.6	-3.4	-3.1

L₁, L₂, L₃, L₄, L₅ and L₆ correspond the values at the gas/M062X/6-31G**, gas/B3LYP-D2/6-31G**, gas/M062X/6-311G**, CPCM/M062X/6-311G**, CPCM/B3LYP-D2/6-31G** and CPCM/M062X/6-31G** level of theories.

Table S6. The interaction energies in kcal mol⁻¹ of toluene, ethane and propanamide with the different CNSs

E _i	Toluene			Ethane			Propanamide		
	Concave	Planar	Convex	Concave	Planar	Convex	Concave	Planar	Convex
L ₂	-30.0	-15.6	-12.3	-12.9	-6.4	-5.4	-26.4	-14.3	-11.6
L ₇	2.6	0.0	0.0	0.1	-0.1	-0.2	-2.0	-1.1	-1.6

L₂ and L₇ correspond the values at the gas/B3LYP-D2/6-31G** and gas/B3LYP/6-31G** level of theories.

Table S7. The difference in HOMO-LUMO energy gap in kcal mol⁻¹ of optimized geometries of AAA-CNS complexes and the HOMO-LUMO energy gap of corresponding bare CNSs at the M062X/6-31G** level of theory

	Concave	Planar	Convex
Toluene	0.1 (0.2)	-0.1 (-0.1)	0.1 (0.1)
Ethane	0.1 (0.1)	0.0 (0.1)	0.0 (0.1)
Propanamide	0.1 (0.3)	0.0 (0.1)	0.0 (0.0)
Ethylammonium	0.2	0.0	0.2
Propanoate	0.3	0.1	-0.1

Values outside the parenthesis are solvent phase and values inside the parenthesis are gas phase values. Ethylammonium-CNS and propanoate-CNS complexes are optimized only in solvent phase.

Table S8. The interaction energies of AAA with CNSs in kcal mol⁻¹

E _i	Concave	Planar	Convex
Toluene	-21.6 (-21.7)	-11.6 (-11.8)	-8.8 (-8.8)
Ethane	-9.4 (-9.7)	-4.6 (-4.7)	-3.6 (-3.6)
Propanamide	-14.6 (-14.8)	-8.9 (-9.0)	-7.3 (-7.3)
Ethylammonium	-9.4 (-9.8)	-5.9 (-6.1)	-4.7 (-4.7)
Propanoate	-11.2 (-11.4)	-6.0 (-6.0)	-4.7 (-4.7)

The values outside the parentheses are at the CPCM/M062X/6-31+G** level of theory and value inside the parentheses are at the CPCM/M062X/6-31++G** level of theory.

XYZ coordinates of all amino acid analogue-carbon nanosurface complexes after full optimization at the M062X/6-31G** level of theory.

Toluene-concave surface of SWCNT, gas

C	5.48383	4.87610	1.12058	C	-1.85016	2.04510	4.28249	C	4.29536	-3.83212	2.99337
C	4.28760	4.56164	1.82533	C	-1.85284	3.22503	3.52130	C	5.49187	-4.33562	2.40936
C	3.07067	4.73386	1.13694	C	-3.09714	3.73949	3.03093	C	5.49182	-4.86348	1.14683
C	3.06982	4.87945	-0.28734	C	-4.31192	3.28367	3.58004	C	4.29456	-4.92487	0.37854
C	4.28769	4.83654	-0.99382	C	-5.51451	4.57804	1.91078	C	4.29688	-4.80996	-1.06523
C	5.48421	5.00868	-0.24133	C	-5.51097	3.86450	3.07899	C	5.49714	-4.61579	-1.80573
C	1.82916	4.47610	1.80352	C	-0.62010	3.73825	3.01892	C	5.49852	-3.88390	-2.96180
C	0.59350	4.71979	1.13278	C	0.60033	3.24399	3.51974	C	4.30047	-3.29495	-3.45644
C	0.59159	4.87009	-0.28760	C	0.60357	2.04449	4.29270	C	4.30051	-2.05747	-4.20874
C	1.82759	4.76377	-0.99469	C	-0.61432	1.38150	4.54115	C	5.49725	-1.35610	-4.52408
C	-0.62329	4.48734	1.80371	C	-0.61301	-0.03228	4.73458	C	5.49621	0.00100	-4.70521
C	-1.85955	4.69617	1.12387	C	0.60629	-0.73528	4.67287	C	4.29852	0.75890	-4.58273
C	-1.86180	4.83629	-0.27334	C	0.60539	-2.09900	4.25403	C	4.29621	2.15326	-4.19144
C	-0.62765	4.77249	-0.98874	C	-0.61411	-2.71378	3.90931	C	5.49286	2.86012	-3.88508
C	-3.10058	4.48675	1.81050	C	-0.61592	-3.77364	2.95406	C	5.49090	3.89396	-2.98848
C	-4.31916	4.76246	1.16074	C	0.60147	-4.18610	2.37771	C	4.29074	4.29482	-2.33653
C	-4.32284	4.89258	-0.28222	C	0.59977	-4.74309	1.06365	C	1.35375	1.12160	-0.87700
C	-3.10702	4.74615	-0.97813	C	-0.61956	-4.85977	0.36680	C	2.03650	-0.08929	-0.80853
C	-3.10569	4.21460	-2.30571	C	-0.61867	-4.76145	-1.05923	C	1.31556	-1.27930	-0.76612
C	-4.32028	3.83903	-2.91165	C	0.60160	-4.54769	-1.73346	C	-0.07555	-1.25802	-0.83184
C	-5.52104	4.31841	-2.31630	C	0.60496	-3.78102	-2.93987	C	-0.77095	-0.05196	-0.93934
C	-5.52232	4.82849	-1.04638	C	-0.61179	-3.26651	-3.43144	C	-0.03808	1.13630	-0.93887
C	-1.85908	3.79944	-2.87978	C	-0.60954	-2.04066	-4.16252	H	3.12155	-0.10549	-0.77330
C	-1.85328	2.73744	-3.79799	C	0.60904	-1.36967	-4.37837	H	1.84056	-2.22576	-0.67794
C	-3.09293	2.11516	-4.16225	C	0.60813	0.04418	-4.55917	H	-0.63766	-2.18839	-0.79768
C	-4.31318	2.75840	-3.87641	C	-0.61122	0.74685	-4.52630	C	-2.27638	-0.03267	-1.02495
C	-3.08735	0.74107	-4.56099	C	-0.61507	2.12220	-4.14735	H	-0.57093	2.08277	-0.98890
C	-4.30216	0.03804	-4.68338	C	0.60046	2.75473	-3.82051	H	-2.62904	0.85627	-1.55930
C	-5.50096	0.80446	-4.69979	C	0.59554	3.84243	-2.89496	H	-2.65315	-0.91840	-1.54877
C	-5.50676	2.11622	-4.30951	C	-0.62559	4.25026	-2.31938	H	-2.72858	-0.02126	-0.02704
C	-1.84308	0.03062	-4.57506	C	1.83290	3.73626	2.99709	H	1.90798	2.05616	-0.87953
C	-1.84217	-1.36171	-4.39275	C	3.07712	3.25304	3.51912	H	-6.45362	-3.77666	-3.35548
C	-3.08629	-2.04423	-4.19255	C	3.08081	2.04762	4.29053	H	-6.44607	-1.74005	-4.64599
C	-4.30170	-1.39777	-4.49131	C	1.83951	1.36934	4.51941	H	-6.44676	0.32396	-4.92425
C	-3.09018	-3.25914	-3.43640	C	1.84092	-0.02159	4.70950	H	-6.45676	2.63369	-4.23606
C	-4.30932	-3.79674	-2.97862	C	3.08359	-0.73431	4.67060	H	-6.46992	4.18025	-2.82232
C	-5.50426	-3.29840	-3.56946	C	3.08246	-2.10336	4.25463	H	-6.47164	5.07711	-0.58504
C	-5.49986	-2.14110	-4.30047	C	1.83900	-2.71310	3.88587	H	-6.46365	4.91204	1.50665
C	-1.84929	-3.75751	-2.91834	C	1.83677	-3.75838	2.94911	H	-6.45766	3.65496	3.56443
C	-1.85329	-4.50409	-1.72869	C	3.07845	-4.19593	2.38404	H	-6.45414	1.89390	4.69429
C	-3.09833	-4.73196	-1.05536	C	3.07717	-4.75266	1.06590	H	-6.45283	-0.49280	5.02391
C	-4.31366	-4.55526	-1.74430	C	1.83491	-4.85302	0.35669	H	-6.45217	-2.49432	4.41421
C	-3.09869	-4.84340	0.37115	C	1.83612	-4.75696	-1.04554	H	-6.45612	-4.27988	2.79534
C	-4.31441	-4.78040	1.07986	C	3.08115	-4.54299	-1.72478	H	-6.46226	-5.05975	0.84418
C	-5.51314	-4.95198	0.33121	C	3.08296	-3.77214	-2.93148	H	-6.46133	-4.86356	-1.55816
C	-5.51292	-4.84172	-1.03295	C	1.84055	-3.24918	-3.41741	H	6.44206	2.51306	-4.27781
C	-1.85357	-4.71354	1.06944	C	1.84204	-2.04032	-4.13195	H	6.43854	4.33198	-2.69548
C	-1.85175	-4.17246	2.36438	C	3.08291	-1.37019	-4.38219	H	6.43204	5.13693	-0.75194
C	-3.09334	-3.77808	2.96283	C	3.08208	0.04824	-4.56833	H	6.43093	4.90469	1.64786
C	-4.31154	-4.23345	2.42126	C	1.84006	0.75804	-4.49711	H	6.43907	3.77720	3.41461
C	-3.09144	-2.71745	3.92303	C	1.83638	2.11289	-4.13061	H	6.44462	1.74634	4.71280
C	-4.30729	-2.13117	4.32702	C	3.07807	2.75359	-3.81521	H	6.44759	-0.32337	4.99150
C	-5.50475	-2.83089	4.00813	C	3.07485	3.84088	-2.88497	H	6.44560	-2.62969	4.29610
C	-5.50702	-3.84509	3.08857	C	1.82960	4.24786	-2.30148	H	6.43998	-4.20722	2.91947
C	-1.84807	-2.08482	4.25092	C	4.29175	3.79436	3.05399	H	6.43931	-5.13402	0.69404
C	-1.84768	-0.74352	4.66430	C	5.49171	3.29947	3.63826	H	6.44461	-4.95066	-1.39850
C	-3.09076	-0.03489	4.74885	C	5.49490	2.14539	4.37449	H	6.44728	-3.66270	-3.43787
C	-4.30707	-0.74595	4.75208	C	4.29883	1.40320	4.58307	H	6.44459	-1.88113	-4.52764
C	-3.09185	1.38308	4.55455	C	4.30046	-0.03258	4.77953	H	6.44464	0.50649	-4.84829
C	-4.30926	2.06661	4.36625	C	5.49807	-0.80150	4.77772				
C	-5.50543	1.36882	4.69344	C	5.49686	-2.11186	4.38214				
C	-5.50441	0.01250	4.87997	C	4.29804	-2.75001	3.95664				

Toluene-graphene, gas

C	5.13382	0.74995	-0.19219	C	3.79398	5.63911	-0.31108	C	-2.82465	5.37093	3.87798				
C	5.83591	-0.48357	-0.15326	C	7.99047	3.21688	-0.13107	C	-0.58507	1.87335	4.65148				
C	7.27202	-0.48125	-0.10013	C	7.31871	4.38719	-0.17527	C	0.81433	1.97237	4.70072				
C	7.96141	0.75818	-0.09224	H	-7.51610	5.40956	-0.16863	C	1.43075	3.25965	4.56686				
C	7.28863	1.95619	-0.13468	H	7.85099	5.33425	-0.17369	C	0.66252	4.42838	4.73488				
C	5.84951	1.96430	-0.18479	H	-8.78595	-1.59947	-0.39388	C	2.73810	3.34158	3.99034				
C	5.13051	-1.70561	-0.16696	H	-8.76482	0.84008	-0.29818	C	3.25423	4.59069	3.59331				
C	5.84430	-2.93052	-0.12865	H	-8.76525	3.28505	-0.21027	C	2.59309	5.75284	4.08093				
C	7.27492	-2.91672	-0.07133	H	-8.83560	-4.03389	-0.48859	C	1.34261	5.67473	4.63182				
C	7.95512	-1.69240	-0.05950	H	-7.62892	-6.19468	-0.57925	C	3.38401	2.13363	3.56823				
C	5.15267	-4.17769	-0.14494	H	-5.18616	-6.25681	-0.57107	C	4.29750	2.18025	2.50332				
C	5.89310	-5.35133	-0.09879	H	-3.25002	-6.27103	-0.29696	C	4.56280	3.43427	1.86180				
C	7.29799	-5.33511	-0.04126	H	-0.85499	-6.28612	-0.23460	C	4.19670	4.63872	2.49398				
C	7.98056	-4.14671	-0.02874	H	1.06252	-6.29886	-0.33358	C	4.93403	3.43749	0.47958				
C	3.69352	-1.69871	-0.22112	H	3.45566	-6.30949	-0.23994	C	4.93273	4.64491	-0.24614				
C	2.98287	-2.93483	-0.24054	H	5.39748	-6.31418	-0.10496	C	4.87975	5.85421	0.50272				
C	3.68917	-4.16819	-0.20957	H	7.83753	-6.27596	-0.00663	C	4.52489	5.85112	1.82451				
C	3.70250	0.75899	-0.24191	H	9.06539	-4.12507	0.01473	C	5.02789	2.18628	-0.21317				
C	2.99032	-0.47883	-0.25511	H	9.04138	-1.69029	-0.01800	C	4.77240	2.14453	-1.59306				
C	1.55597	-2.92636	-0.29590	H	9.04778	0.75076	-0.05362	C	4.42338	3.35463	-2.27750				
C	0.84428	-4.15306	-0.31266	H	9.07575	3.19684	-0.09297	C	4.66912	4.60191	-1.67028				
C	1.57136	-5.34422	-0.29785	H	-5.37976	6.61247	-0.17933	C	3.57997	3.27612	-3.43099				
C	2.95245	-5.35065	-0.24777	H	-2.94735	6.63013	-0.23156	C	2.99776	4.44610	-3.95723				
C	0.84568	-1.68681	-0.33444	H	-1.02298	6.61848	-0.33669	C	3.53166	5.69160	-3.52160				
C	1.55817	-0.47054	-0.31182	H	1.36973	6.60699	-0.33549	C	4.33829	5.76679	-2.41854				
C	-0.58745	-1.67955	-0.39709	H	3.29738	6.60043	-0.34703	C	3.11509	1.98991	-3.86032				
C	-1.31009	-2.91172	-0.40078	H	5.72902	6.55825	-0.27265	C	1.87891	1.89235	-4.51883				
C	-0.61266	-4.14504	-0.34658	C	-1.85365	-1.96702	2.79947	C	1.11077	3.08078	-4.74721				
C	3.00483	1.9812	-0.27762	C	-0.50847	-1.60114	2.83111	C	1.72215	4.34543	-4.63707				
C	1.57195	1.99025	-0.32317	C	-0.15142	-0.25736	2.86359	C	-0.31539	2.97964	-4.80321				
C	0.85776	0.77295	-0.33880	C	-1.12745	0.74463	2.87054	C	-1.10510	4.14519	-4.74648				
C	-0.57316	0.77955	-0.38479	C	-2.47062	0.36618	2.83996	C	-0.44822	5.38774	-4.97094				
C	-1.28667	-0.45624	-0.40525	C	-2.83354	-0.97906	2.80688	C	0.91618	5.48453	-4.91798				
C	-2.71835	-0.44964	-0.43048	H	0.26409	-2.36523	2.80187	C	-0.92417	1.69339	-4.62828				
C	-3.43433	-1.66188	-0.43845	H	0.89935	0.02448	2.86662	C	-2.20790	1.61317	-4.06551				
C	-2.73702	-2.90492	-0.43135	C	-0.73318	2.19859	2.91510	C	-2.87939	2.81927	-3.67758				
C	-3.45699	-4.13031	-0.41927	H	-3.24025	1.13506	2.82229	C	-2.42915	4.06282	-4.16334				
C	-2.73445	-5.31978	-0.34357	H	-3.88408	-1.25362	2.76107	C	-4.05176	5.17240	-2.73254				
C	-1.35290	-5.32777	-0.30724	H	-1.51661	2.83433	2.49145	C	-3.16247	5.21837	-3.77281				
C	-4.87206	-1.65450	-0.42184	H	-0.55738	2.52496	3.94612	C	-2.70541	0.34693	-3.63427				
C	-5.60013	-2.87161	-0.44073	H	0.18968	2.37288	2.35137	C	-2.05303	-0.83666	-4.03335				
C	-4.92105	-4.12538	-0.46398	H	-2.13352	-3.01550	2.74889	C	-0.74792	-0.75480	-4.60520				
C	-5.56498	-0.42584	-0.38306	Toluene-convex surface of											
C	-4.84883	0.79992	-0.36376	SWCNT, gas											
C	-3.41649	0.79419	-0.39118	C	-3.67048	-5.81621	-1.82107	C	3.0471	-0.45679	-3.82705				
C	-2.70568	2.00999	-0.36737	C	-3.33833	-4.60487	-2.49089	C	3.75160	0.80448	-3.38533				
C	-1.27285	2.00432	-0.37595	C	-3.70146	-3.39934	-1.85895	C	4.59280	0.88280	-2.23484				
C	-0.55776	3.24028	-0.35933	C	-4.06920	-3.40045	-0.47541	C	4.95768	-0.30243	-1.56607				
C	0.87008	3.23384	-0.34528	C	-4.07529	-4.60821	0.25001	C	5.21778	-0.25993	-0.16321				
C	-7.03148	-2.84348	-0.44156	C	-4.02695	-5.81765	-0.49959	C	5.10396	0.96581	0.52219				
C	-7.75014	-4.06609	-0.48663	C	-3.43878	-2.14635	-2.50378	C	4.73352	0.96254	1.90068				
C	-7.07924	-5.26022	-0.53412	C	-3.87220	-0.92740	-1.90031	C	4.48890	-0.26604	2.54574				
C	-5.67337	-5.29067	-0.52371	C	-4.22577	-0.92823	-0.51870	C	3.55999	-0.31352	3.62829				
C	-7.69896	-1.61287	-0.39934	C	-4.16063	-2.14872	0.21659	C	2.90801	0.86968	4.02869				
C	-7.00183	-0.40930	-0.36467	C	-3.63089	0.30056	-2.54854	C	1.60436	0.78785	4.60414				
C	-7.67780	0.83644	-0.31484	C	-4.02899	1.52067	-1.92642	C	0.99716	-0.47466	4.75744				
C	-6.99139	2.02720	-0.28666	C	-4.37614	1.51794	-0.56752	C	-0.42559	-0.57547	4.70744				
C	-5.55168	2.02091	-0.31358	C	-4.33522	0.29708	0.16531	C	-1.19151	0.58970	4.50532				
C	-4.84002	3.24822	-0.29124	C	-3.80743	2.77206	-2.58971	C	-2.44976	0.49098	3.83858				
C	-3.41578	3.24953	-0.32032	C	-4.27247	3.96800	-2.00791	C	-2.89644	-0.76986	3.39488				
C	-2.71753	4.48315	-0.30500	C	-4.64639	3.96287	-0.60676	C	-3.73389	-0.84719	2.24160				
C	-1.26076	4.47419	-0.33802	C	-4.52083	2.76510	0.12279	C	-4.08696	0.33850	1.56829				
C	-5.55443	4.47518	-0.24069	C	-4.26919	2.80768	1.53008	C	-2.52837	-2.10077	-3.57120				
C	-6.99439	4.45759	-0.21010	C	-4.13364	4.04866	2.18352	C	-1.88137	-3.30905	-3.99040				
C	-7.67940	3.29434	-0.23249	C	-4.58556	5.20321	1.48425	C	-0.57328	-3.22686	-4.56531				
C	-3.45510	5.67427	-0.25241	C	-4.83442	5.16106	0.13800	C	0.04278	-1.93925	-4.69844				
C	-4.83803	5.67180	-0.22077	C	-3.88252	1.60102	2.19927	C	1.44195	-1.83963	-4.64418				
C	1.58636	4.46052	-0.33456	C	-3.06103	1.67798	3.33477	C	2.22184	-3.02779	-4.45812				
C	0.85858	5.65280	-0.34030	C	-2.62551	2.96311	3.79631	C	3.48215	-2.92822	-3.78724				
C	-0.52107	5.65933	-0.33900	C	-3.28047	4.12912	3.35238	C	3.91819	-1.64340	-3.32517				
C	3.04326	4.45511	-0.30843	C	-1.36476	3.06216	4.46639	C	4.74586	-1.56617	-2.19383				
C	3.72815	3.21471	-0.27128	C	-0.78168	4.32657	4.68168	C	5.13587	-2.77360	-1.52699				
C	5.15180	3.19887	-0.22712	C	-1.61927	5.46584	4.52014	C	5.39683	-2.73084	-0.12045				
C	5.87959	4.41910	-0.22469					C	5.25866	-1.48282	0.57080				

C	4.89409	-1.48607	1.92656	H	-7.10601	-3.24612	-0.42809	C	-1.85032	-4.49058	-1.81122
C	4.66727	-2.73716	2.58817	H	-8.26562	-2.68584	-1.64515	C	-3.10241	-4.73025	-1.15514
C	3.73554	-2.78486	3.67323	H	-6.53592	-2.42501	-1.88756	C	-4.31014	-4.54423	-1.85480
C	3.06311	-1.57956	4.06013	H	-7.66493	2.21400	-1.14457	C	0.61989	-3.74539	-2.98431
C	1.78050	-1.66011	4.62556					C	0.60457	-4.52908	-1.78888
C	1.17228	-2.94628	4.80167					C	-0.62276	-4.75498	-1.13154
C	-0.25409	-3.04747	4.74982					C	-0.63957	-4.87171	0.29317
C	-1.02294	-1.85885	4.52524					C	-1.88170	-4.73547	0.98369
C	-2.26051	-1.95590	3.86910					C	-3.11873	-4.85934	0.26994
C	-2.72545	-3.24165	3.43783					C	-4.34231	-4.80520	0.96562
C	-3.56836	-3.31904	2.28346					C	-5.53248	-4.96921	0.20156
C	-3.91296	-2.10791	1.59812					C	-5.51697	-4.84167	-1.16095
C	-2.39643	-4.55802	-3.59078					C	-1.89516	-4.20765	2.28416
C	-1.73380	-5.72051	-4.07567					C	-3.14389	-3.82045	2.87246
C	-0.48312	-5.64216	-4.62602					C	-4.35530	-4.27175	2.31250
C	0.19600	-4.39526	-4.73052					C	0.57172	-4.76056	1.00489
C	1.63995	-4.29240	-4.67556					C	0.55777	-4.21810	2.32494
C	2.47861	-5.43108	-4.51580					C	-0.66658	-3.81318	2.89177
C	3.68376	-5.33576	-3.87358					C	-0.67683	-2.76289	3.85762
C	4.13802	-4.09424	-3.34575					C	-1.91519	-2.13844	4.19128
C	4.99263	-4.01454	-2.17842					C	-3.15405	-2.76874	3.84254
C	5.43845	-5.17162	-1.47933					C	-4.37497	-2.18734	4.23803
C	5.68850	-5.13066	-0.13401					C	-5.56799	-2.88500	3.89857
C	5.51059	-3.93018	0.60957					C	-5.55873	-3.89050	2.96956
C	5.13361	-3.93369	2.00858					C	-1.92079	-0.80172	4.61909
C	4.91307	-5.13782	2.73434					C	-3.16523	-0.09473	4.69680
C	4.02153	-5.18360	3.77211					C	-4.38095	-0.80664	4.67754
C	3.28560	-4.02835	4.15926					C	0.53808	-2.15097	4.22314
C	1.96207	-4.11165	4.74264					C	0.53290	-0.79207	4.65695
C	1.30581	-5.35464	4.96707					C	-0.68756	-0.09052	4.71197
C	-0.05864	-5.45148	4.91700					C	-0.68752	1.32547	4.53519
C	-0.86558	-4.31210	4.63958					C	-1.92064	1.99161	4.27020
C	-2.14255	-4.41220	3.96215					C	-3.16497	1.32550	4.51927
C	-2.67673	-5.65736	3.52554					C	-4.38052	2.01063	4.32499
C	-3.48354	-5.73156	2.42252					C	-5.57999	1.30811	4.62898
C	-3.81371	-4.56594	1.67489					C	-5.58025	-0.05031	4.79952
H	3.03202	6.73174	3.92339					C	0.53280	1.99211	4.30956
H	0.82959	6.59390	4.89175					C	3.00993	1.99663	4.33712
H	-1.26000	6.44702	4.80953					C	1.76643	1.31497	4.54290
H	-3.38057	6.27987	3.67634					C	1.76653	-0.07810	4.71676
H	-4.63581	6.15944	1.99334					C	3.01012	-0.78961	4.68459
H	-5.07450	6.08523	-0.37610					C	3.01507	-2.15378	4.25311
H	-4.50601	6.09750	-2.39520					C	1.77645	-2.76017	3.86294
H	-2.94291	6.17811	-4.22711					C	1.78601	-3.79537	2.91509
H	-1.03035	6.29630	-5.07848					C	3.03458	-4.22527	2.35938
H	1.37143	6.46617	-4.98773					C	3.04902	-4.76601	1.03475
H	3.21595	6.61260	-3.99896					C	1.81494	-4.85943	0.31055
H	4.63662	6.74449	-2.05684					C	1.83178	-4.74523	-1.09017
H	5.01695	6.80677	0.00329					C	3.08384	-4.52053	-1.75271
H	4.39232	6.80147	2.32942					C	3.09764	-3.73460	-2.94967
H	-2.36064	-6.57885	4.00172					C	1.85991	-3.20670	-3.44245
H	-3.78115	-6.70907	2.05965					C	1.86794	-1.98908	-4.14222
H	-4.16892	-6.76973	-0.00046					C	3.11099	-1.31535	-4.37190
H	-3.54140	-6.76707	-2.32597					C	3.11149	0.10533	-4.54196
H	-2.17149	-6.69958	-3.91564					C	1.86850	0.81407	-4.47585
H	0.03114	-6.56134	-4.88339					C	1.86048	2.16463	-4.09328
H	2.12096	-6.41198	-4.80811					C	3.09848	2.80193	-3.75692
H	4.24170	-6.24410	-3.67512					C	5.42739	3.25798	3.72928
H	5.48153	-6.12822	-1.98818					C	5.42271	2.09495	4.45140
H	5.92142	-6.05608	0.38084					C	4.22484	1.34951	4.63655
H	5.37171	-6.06198	2.40064					C	4.22509	-0.08845	4.81630
H	3.80354	-6.14259	4.22873					C	5.42324	-0.85656	4.81990
H	1.88824	-6.26329	5.07218					C	5.42781	-2.16228	4.40913
H	-0.51359	-6.43329	4.98642					C	4.23458	-2.79625	3.96223
C	-7.60107	1.30742	-0.54929					C	4.24409	-3.86734	2.98669
C	-7.53696	0.06913	-1.17764					C	5.44776	-4.36275	2.41040
C	-7.42598	-1.10976	-0.43286					C	5.46267	-4.87498	1.14150
C	-7.37690	-1.01547	0.95813					C	4.27428	-4.92797	0.35890
C	-7.43389	0.22483	1.59261					C	4.29263	-4.79469	-1.08320
C	-7.54661	1.39051	0.84139					C	5.50059	-4.58977	-1.80812
H	-7.55641	0.01115	-2.26350					C	5.51355	-3.84374	-2.95502
C	-7.32995	-2.44088	-1.13222					C	4.32031	-3.25005	-3.45564
H	-7.27495	-1.92206	1.54978					C	4.32727	-2.00394	-4.19346
H	-7.37539	0.27894	2.67566					C	5.52681	-1.29845	-4.48826
H	-7.57546	2.35878	1.33225					C	5.52703	0.06061	-4.65354

C	4.32774	0.81667	-4.53475	C	5.87078	-5.32249	-0.21177	H	-3.10359	1.20141	2.89949
C	4.32087	2.20621	-4.12697	C	7.27633	-5.30794	-0.17494	H	-3.76780	-1.18765	2.85002
C	5.51387	2.90970	-3.79912	C	7.95960	-4.12029	-0.14385	H	-2.03177	-2.95717	2.82054
C	5.50203	3.93258	-2.89013	C	1.54604	-5.30999	-0.32368				
H	3.07777	-0.08614	-0.83146	C	2.92788	-5.31806	-0.30149				
H	1.81705	-2.21289	-0.71840	C	1.55134	2.02343	-0.23563				
H	-0.66837	-2.19011	-0.77282	C	0.83658	0.80734	-0.27939				
H	-0.62377	2.09313	-0.94481	C	-1.30848	-0.41893	-0.34841				
H	1.86163	2.07042	-0.89794	C	-0.59400	0.81584	-0.32453				
H	-6.43351	-3.74115	-3.47607	C	-2.74079	-0.41127	-0.36912				
H	-6.41416	-1.68651	-4.73710	C	-3.45775	-1.62295	-0.36918				
H	-6.41277	0.38262	-4.99325	C	-2.76129	-2.86656	-0.35960				
H	-6.43050	2.68604	-4.28400	C	-3.48208	-4.09161	-0.33319				
H	-6.45937	4.22319	-2.85761	C	-2.75929	-5.28112	-0.25979				
H	-6.48680	5.09273	-0.60979	C	-1.37728	-5.29017	-0.24536				
H	-6.50321	4.89514	1.48018	C	3.02361	4.48660	-0.15590				
H	-6.52030	3.60908	3.51972	C	1.56678	4.49290	-0.18291				
H	-6.52907	1.83251	4.62452	C	0.84996	3.26692	-0.22417				
H	-6.53005	-0.55760	4.92627	C	-0.57791	3.27527	-0.25337				
H	-6.52039	-2.55312	4.29679	C	-1.29369	2.04065	-0.29848				
H	-6.50404	-4.32298	2.66099	C	-2.72647	2.04826	-0.30790				
H	-6.48712	-5.08428	0.70257	C	-3.43836	0.83304	-0.33556				
H	-6.45929	-4.85726	-1.69723	C	-4.87075	0.84036	-0.32557				
H	6.46746	2.56760	-4.18568	C	-5.58796	-0.38513	-0.33796				
H	6.44632	4.36695	-2.58125	C	-4.89569	-1.61462	-0.35679				
H	6.41814	5.14659	-0.62751	C	-5.62438	-2.83151	-0.36178				
H	6.38913	4.88532	1.76949	C	-4.94638	-4.08606	-0.36628				
H	6.37705	3.73893	3.52292	C	-7.02490	-0.36728	-0.33254				
H	6.36866	1.69249	4.79618	C	-7.72256	-1.57086	-0.35077				
H	6.36968	-0.38028	5.05077	C	-7.05581	-2.80244	-0.36702				
H	6.37788	-2.67853	4.32843	C	-7.77538	-4.02509	-0.39045				
H	6.38981	-4.23988	2.93293	C	-7.10552	-5.22057	-0.41255				
H	6.41561	-5.13909	0.69639	C	-5.69971	-5.25181	-0.40189				
H	6.44406	-4.92849	-1.39476	C	-7.70029	0.87954	-0.31103				
H	6.46718	-3.61585	-3.41802	C	-7.01313	2.07004	-0.29280				
H	6.47580	-1.82302	-4.48815	C	-5.57317	2.06225	-0.29803				
H	6.47666	0.56796	-4.78107	C	-4.86059	3.28900	-0.27565				
				C	-3.43614	3.28858	-0.27496				
				C	-2.73712	4.52118	-0.24438				
				C	-1.28025	4.51010	-0.22965				
				C	-0.53968	5.69364	-0.18660				
				C	0.83989	5.68539	-0.16536				
				C	-5.57448	4.51707	-0.25070				
				C	-7.01486	4.50123	-0.24889				
				C	-7.70067	3.33847	-0.26842				
				C	-4.85737	5.71314	-0.22778				
				C	-3.47412	5.71367	-0.22423				
				C	5.15746	5.65273	-0.09576				
				C	3.77457	5.67018	-0.12760				
				H	-7.53615	5.45419	-0.23015				
				H	7.83213	5.36156	-0.02914				
				H	-8.80954	-1.55670	-0.35216				
				H	-8.78745	0.88423	-0.30780				
				H	-8.78675	3.33032	-0.26587				
				H	-8.86080	-3.99194	-0.39517				
				H	-7.65604	-6.15529	-0.43893				
				H	-5.21353	-6.21919	-0.42940				
				H	-3.27461	-6.23188	-0.20165				
				H	-0.87861	-6.24828	-0.17352				
				H	1.03519	-6.26337	-0.36585				
				H	3.43038	-6.27716	-0.31941				
				H	5.37456	-6.28480	-0.23373				
				H	7.81595	-6.24935	-0.17091				
				H	9.04496	-4.09984	-0.11518				
				H	9.02176	-1.66500	-0.08559				
				H	9.02883	0.77622	-0.05431				
				H	9.05720	3.22250	-0.02278				
				H	-5.39891	6.65470	-0.21107				
				H	-2.96578	6.66925	-0.20437				
				H	-1.04050	6.65312	-0.16652				
				H	1.35148	6.63866	-0.12892				
				H	3.27789	6.63210	-0.13208				
				H	5.70992	6.58783	-0.07392				
				H	0.36999	-2.33875	2.84294				
				H	1.03458	0.04968	2.89536				

Benzene-convex surface of SWCNT, gas

C	7.73291	0.17040	-0.63602
C	7.78105	0.04060	0.75045
C	7.55075	-1.19816	1.34355
C	7.27570	-2.30963	0.54928
C	7.22380	-2.18102	-0.83639
C	7.45365	-0.94036	-1.42900
H	7.08095	-3.27291	1.01178
C	4.07792	-1.59435	0.70724
C	3.68378	-1.50591	2.07500
C	3.04762	-2.62830	2.68487
C	3.13586	-3.92197	2.07418
C	3.54372	-4.01324	0.70437
C	3.84496	-2.80650	-0.00756
C	3.37844	-5.22272	0.00081
C	3.11899	-6.39256	0.76946
C	2.72721	-6.30475	2.07815
C	2.56708	-5.04093	2.71352
C	2.11939	-2.41792	3.71691
C	1.27755	-3.50079	4.13313
C	1.60540	-4.82365	3.77560
C	3.64175	-2.75876	-1.39596
C	3.13167	-3.91678	-2.06947
C	3.16429	-5.17257	-1.43180
C	1.83091	-1.08491	4.13765
C	2.67341	-0.02689	3.74215
C	3.61606	-0.24093	2.69161
C	4.21979	0.88778	2.06239
C	4.60535	0.79942	0.71654
C	4.39774	-0.41734	0.00501
C	4.19376	-0.36915	-1.40518
C	3.67851	-1.50034	-2.06699
C	2.36510	1.31086	4.13160
C	3.22940	2.38866	3.74746
C	4.17419	2.17361	2.69450
C	4.83639	3.26961	2.10728
C	5.24763	3.17438	0.71994
C	4.96094	1.99325	0.00855
C	4.75867	2.04187	-1.40675
C	4.20711	0.89484	-2.06515
C	2.96273	3.69763	4.19422
C	3.87904	4.71642	3.81000
C	4.78294	4.51011	2.80254
C	4.83707	3.27338	-2.08672
C	5.44025	4.36096	-1.39413
C	5.63911	4.31255	-0.03996
C	3.44255	1.07196	-3.22868
C	3.22902	2.39744	-3.73003
C	4.04419	3.45765	-3.28588
C	2.89832	-1.32053	-3.24834
C	2.66893	-0.01680	-3.73090
C	1.46580	0.26099	-4.44622
C	1.07267	1.61925	-4.63884
C	2.02293	2.67590	-4.44777
C	1.65244	4.00999	-4.70767
C	2.65308	5.00832	-4.53821
C	3.80743	4.74182	-3.85246
C	-0.29174	1.93394	-4.74101
C	-0.70311	3.30422	-4.65300
C	0.24423	4.33470	-4.81349
C	0.53401	-0.77546	-4.65501
C	-0.85313	-0.45531	-4.75926
C	-1.25997	0.88941	-4.65172
C	-2.55384	1.18710	-4.12796
C	-2.84176	2.52027	-3.70882
C	-2.00039	3.60257	-4.12781
C	-2.32779	4.92597	-3.77215
C	-1.47535	5.95908	-4.25348
C	-0.23444	5.67382	-4.75609
C	-3.77120	2.73238	-2.67801

C	-3.85741	4.02689	-2.06864	C	1.60389	-4.81372	-3.77451	C	4.34122	4.69927	-1.22785
C	-3.28760	5.14478	-2.70885	C	1.92501	-6.11615	-3.29852	C	4.33813	4.11921	-2.55538
C	-3.39654	0.12986	-3.73083	C	2.67799	-6.28931	-2.16850	C	3.11931	3.65657	-3.08916
C	-4.34198	0.34567	-2.68322	H	-1.75939	6.99775	-4.12626	C	3.11443	2.56563	-4.01493
C	-4.41106	1.61178	-2.06903	H	0.42499	6.49587	-5.01115	C	1.86855	1.92832	-4.32407
C	-4.81831	1.70446	-0.70388	H	2.46151	6.02610	-4.85943	C	4.32805	1.95730	-4.39100
C	-4.57359	2.91438	0.01169	H	4.49390	5.55693	-3.65230	C	5.52854	2.66190	-4.09378
C	-4.26544	4.11978	-0.69985	H	5.65200	5.28627	-1.91822	C	5.53336	3.70570	-3.20820
C	-4.09663	5.32825	0.00390	H	6.00213	5.20119	0.46473	C	4.34085	4.57248	1.60516
C	-3.83434	6.49745	-0.76430	H	5.38662	5.34593	2.46662	C	5.53961	4.83074	0.88243
C	-3.44432	6.40881	-2.07346	H	3.79519	5.70872	4.23897	C	5.53988	4.89260	-0.48492
C	-4.36711	2.86452	1.39948	H	1.90033	6.14134	5.01582	C	4.33686	3.87909	2.87740
C	-3.85332	4.02076	2.07299	H	-0.44164	6.68153	4.82978	C	3.11666	3.37833	3.37300
C	-3.88420	5.27701	1.43647	H	-2.20783	7.08984	3.77780	C	1.87668	3.84430	2.82462
C	-5.14180	0.52709	-0.00072	H	-3.52936	7.39656	1.78553	C	0.63842	3.39419	3.37282
C	-4.93180	0.47637	1.41022	H	-3.83807	7.47080	-0.28647	C	4.32133	0.55524	-4.75668
C	-4.40536	1.60511	2.06885	H	-3.15051	7.31456	-2.59216	C	3.10096	-0.14799	-4.72693
C	-3.62230	1.42328	3.24821	H	1.48356	-6.98800	-3.76832	C	1.86189	0.57070	-4.68101
C	-2.82391	2.50603	3.72357	H	2.80874	-7.29266	-1.77861	C	0.62342	-0.13564	-4.72672
C	-3.06858	3.83853	3.25560	H	3.12573	-7.36609	0.29196	C	-0.59191	0.57643	-4.70276
C	-2.32824	4.91567	3.78109	H	2.43525	-7.21121	2.59672	C	-1.83047	-0.13120	-4.71673
C	-2.64838	6.21855	3.30613	H	1.03490	-6.89593	4.12394	C	-3.06956	0.58907	-4.71464
C	-3.39902	6.39291	2.17473	H	-1.15070	-6.39489	5.00574	C	-4.28964	-0.11007	-4.80288
C	-1.64152	2.23254	4.42912	H	-3.18739	-5.92345	4.85982	C	-5.48365	0.66427	-4.83282
C	-0.70508	3.29219	4.66390	H	-5.22052	-5.45317	3.65412	C	-5.47738	1.98563	-4.47661
C	-1.10753	4.63330	4.50885	H	-6.36775	-5.18731	1.91830	C	0.61490	-1.53916	-4.46716
C	-3.39195	0.11866	3.72750	H	-6.72020	-5.10219	-0.46400	C	-0.60843	-2.18306	-4.19505
C	-2.18973	-0.15961	4.44447	H	-6.12215	-5.23827	-2.46664	C	-1.83857	-1.51156	-4.46236
C	-1.25863	0.87672	4.65652	H	-4.52582	-5.60264	-4.23479	C	-3.08555	-2.17093	-4.21088
C	0.12832	0.55691	4.76555	H	-2.62768	-6.03943	-5.00000	C	-4.29713	-1.53598	-4.54606
C	1.09125	1.60294	4.64378	H	-0.28601	-6.58037	-4.81581	C	0.63024	2.23604	4.20680
C	0.68539	2.97166	4.77297	H	7.57566	-1.29609	2.42449	C	-0.59378	1.59506	4.48303
C	1.64841	3.99844	4.72521	H	6.98943	-3.04355	-1.45311	C	1.84528	-2.19598	-4.16746
C	1.18695	5.33286	4.90227	H	7.39988	-0.83638	-2.50859	C	3.09230	-1.55472	-4.46477
C	-0.14301	5.63959	4.79733	H	7.89437	1.14114	-1.09604	C	3.10847	2.21736	4.20964
C	0.53570	-0.78773	4.65800	H	7.98002	0.91118	1.36888	C	1.86035	1.56226	4.46968
C	-0.02094	-3.20283	4.65573					C	4.30468	-2.23490	-4.23690
C	-0.43262	-1.83255	4.74363					C	5.50663	-1.56063	-4.59142
C	-1.79666	-1.51782	4.63722					C	5.51487	-0.21508	-4.84251
C	-2.74662	-2.57406	4.44470					C	4.32025	1.57763	4.53710
C	-3.95256	-2.29496	3.72697					C	5.52365	2.29604	4.28991
C	-4.16743	-0.96929	3.22639					C	5.53167	3.40680	3.49003
C	-4.93786	-0.79044	2.06674					C	-0.60463	0.19089	4.73801
C	-5.49224	-1.93734	1.40971					C	0.60909	-0.52359	4.70906
C	-5.70278	-1.88640	-0.00497					C	1.84949	0.18123	4.72216
C	-5.35230	-0.69082	-0.71363					C	3.08662	-0.54238	4.71716
C	-4.95188	-0.78189	-2.05641					C	4.30886	0.15289	4.80160
C	-4.90273	-2.06793	-2.68731					C	-3.08228	0.20760	4.74397
C	-3.95467	-2.28441	-3.73741					C	-1.84472	-0.51306	4.69090
C	-3.08914	-1.20790	-4.12051					C	-1.85497	-1.86857	4.32559
C	-1.81615	-1.50091	-4.63453					C	-0.62483	-2.51905	4.01084
C	-1.41101	-2.86973	-4.76359					C	0.59837	-1.90202	4.33955
C	-0.02040	-3.19080	-4.65692					C	1.82872	-2.53628	3.99524
C	0.91694	-2.13120	-4.42622					C	3.07581	-1.92539	4.34970
C	2.10044	-2.40423	-3.72225					C	4.28713	-2.59005	4.07533
C	2.34541	-3.73600	-3.25180					C	5.48930	-1.94915	4.48731
C	0.75140	-5.85734	4.25316					C	5.49985	-0.62584	4.83682
C	-0.49035	-5.57257	4.75395					C	-0.63218	-3.60691	3.08680
C	-0.96877	-4.23332	4.81283					C	0.58438	-4.03766	2.52217
C	-2.37666	-3.90817	4.70539					C	1.82163	-3.60554	3.08624
C	-3.37791	-4.90600	4.53693					C	3.06200	-4.06210	2.53273
C	-4.53237	-4.63895	3.85185					C	4.27977	-3.69455	3.13769
C	-4.76841	-3.35491	3.28451					C	-5.48542	1.62563	4.62173
C	-5.56339	-3.17033	2.08730					C	-5.49565	0.27902	4.86636
C	-6.16211	-4.26038	1.39483					C	-4.30396	-0.49328	4.77079
C	-6.36304	-4.21191	0.04170					C	-4.31443	-1.89195	4.39287
C	-5.98029	-3.07000	-0.71687					C	-3.10240	-2.50074	4.01229
C	-5.56664	-3.16407	-2.10226					C	-3.10952	-3.58893	3.08329
C	-5.51411	-4.40424	-2.79880					C	-1.86925	-4.01082	2.50198
C	-4.60798	-4.61117	-3.80356					C	-1.87134	-4.57899	1.21837
C	-3.68861	-3.59350	-4.18401					C	-0.63622	-4.74230	0.52184
C	-2.37450	-3.89594	-4.71371					C	0.58237	-4.61753	1.21819
C	-1.91386	-5.23100	-4.88891					C	1.81834	-4.74621	0.51626
C	-0.58395	-5.53818	-4.78503					C	3.06039	-4.64104	1.22454
C	0.38176	-4.53188	-4.50016					C	4.27731	-4.83727	0.54307

C	5.47315	-4.76647	1.31219	C	7.15366	-0.42258	-0.09729	H	-8.90739	-1.57498	-0.14113
C	5.47423	-4.21544	2.56514	C	7.84010	0.81834	-0.08195	H	-8.89257	0.86555	-0.08928
C	-0.63195	-4.68854	-0.90480	C	5.01416	-1.65172	-0.12247	H	-8.89919	3.31182	-0.04013
C	0.59010	-4.51017	-1.58384	C	3.57633	-1.64801	-0.13342	H	-8.95287	-4.00897	-0.19506
C	1.82220	-4.69033	-0.88676	C	2.87014	-0.42949	-0.12592	H	-7.74312	-6.16950	-0.24886
C	3.06859	-4.52304	-1.57512	C	3.57881	0.80982	-0.10722	H	-5.30158	-6.22770	-0.25917
C	4.28176	-4.77292	-0.90432	C	2.87763	2.03137	-0.09615	H	-3.35627	-6.23913	-0.24045
C	-5.51683	-2.59095	4.09065	C	3.59786	3.26548	-0.07841	H	-0.96200	-6.24871	-0.23240
C	-5.52418	-3.63000	3.19947	C	5.73157	-2.87508	-0.12874	H	0.95436	-6.25463	-0.20135
C	-4.32954	-4.04631	2.54754	C	7.16316	-2.85823	-0.11886	H	3.34846	-6.25925	-0.17589
C	-4.33224	-4.62955	1.22173	C	7.84045	-1.63231	-0.10367	H	5.29384	-6.25989	-0.16382
C	-3.11436	-4.72133	0.51898	C	2.86837	-2.88580	-0.15137	H	7.73572	-6.21628	-0.14553
C	-3.11064	-4.66718	-0.91116	C	3.57803	-4.11730	-0.15663	H	8.95833	-4.06254	-0.11757
C	-1.86414	-4.47168	-1.59166	C	5.04281	-4.12372	-0.14508	H	8.92750	-1.62781	-0.09667
C	-1.85661	-3.79806	-2.82321	C	5.78709	-5.29589	-0.15066	H	8.92724	0.81324	-0.07563
C	-0.61703	-3.34398	-3.36493	C	7.19298	-5.27669	-0.14057	H	8.94844	3.25978	-0.05353
C	0.59765	-3.82305	-2.83513	C	7.87271	-4.08667	-0.12514	H	-5.52066	6.64600	0.00140
C	1.83651	-3.33856	-3.35140	C	1.43720	-0.42429	-0.13848	H	-3.08772	6.66794	-0.01108
C	3.07584	-3.83467	-2.82923	C	0.72704	-1.64261	-0.15966	H	-1.16158	6.65813	-0.02463
C	4.29615	-3.41161	-3.39174	C	1.44053	-2.88090	-0.16569	H	1.23067	6.65123	-0.03024
C	5.48954	-3.97160	-2.85499	C	0.73096	-4.10892	-0.18689	H	3.15699	6.65042	-0.04507
C	5.48272	-4.62849	-1.65417	C	1.46133	-5.29850	-0.18804	H	5.58979	6.61417	-0.03823
C	-5.53024	-4.82025	0.47724	C	2.84305	-5.30155	-0.17346	H	-0.88868	-2.76311	4.05647
C	-5.52662	-4.76809	-0.89037	C	1.44439	2.03658	-0.10179	H	-1.72081	-2.12076	2.63480
C	-4.32474	-4.52163	-1.61169	C	0.73346	0.81762	-0.12349	H	-0.13172	-2.86992	2.46272
C	-4.31584	-3.83687	-2.88803	C	-0.70741	-1.63845	-0.17265	H	0.91111	-0.98982	3.78818
C	-3.09454	-3.33292	-3.37608	C	-1.42809	-2.87239	-0.19554	H	0.05046	-0.33749	2.39272
C	-5.50759	-3.37509	-3.51548	C	-0.72636	-4.10434	-0.20487				
C	-5.49845	-2.26408	-4.31564	C	-1.40966	-0.41613	-0.14659				
C	0.33834	-1.23317	-0.41386	C	-0.69862	0.82176	-0.12500				
C	-1.08180	-1.25512	0.14659	C	-2.84287	-0.41271	-0.14057				
H	-1.07538	-1.38389	1.23512	C	-3.55636	-1.62697	-0.16176				
H	6.43356	-2.47855	4.42500	C	-2.85566	-2.86895	-0.19191				
H	6.45218	-0.14860	5.03984	C	-3.57292	-4.09599	-0.21047				
H	6.46947	1.90615	4.64924	C	-2.84517	-5.28456	-0.22740				
H	6.48371	3.86184	3.24027	C	-1.46345	-5.28958	-0.22299				
H	6.48834	4.87356	1.40571	C	2.90927	4.50414	-0.06586				
H	6.48896	4.98254	-1.00145	C	1.45217	4.50584	-0.06513				
H	6.48364	4.14530	-2.92619	C	0.73869	3.27736	-0.08305				
H	6.47519	2.30709	-4.48580	C	-0.68942	3.28142	-0.08042				
H	6.46698	0.27791	-5.00426	C	-1.40242	2.04471	-0.09978				
H	6.45226	-2.09042	-4.56225	C	-2.83574	2.04787	-0.09463				
H	6.44054	-3.78789	-3.34235	C	-3.54421	0.83062	-0.11331				
H	6.42815	-4.94390	-1.22712	C	-4.97642	0.83319	-0.10732				
H	6.41999	-5.05150	0.86702	C	-5.68944	-0.39447	-0.12832				
H	6.42213	-4.08230	3.07451	C	-4.99427	-1.62212	-0.15614				
H	-6.41914	3.85245	3.37101	C	-5.71899	-2.84103	-0.17931				
H	-6.41159	4.99444	1.24840	C	-5.03771	-4.09355	-0.20862				
H	-6.41107	5.07589	-0.84537	C	-7.12637	-0.38050	-0.12244				
H	-6.41609	4.10636	-3.05214	C	-7.82037	-1.58593	-0.14524				
H	-6.42415	2.50989	-4.40845	C	-7.15044	-2.81563	-0.17419				
H	-6.43497	0.18429	-5.03460	C	-7.86739	-4.03957	-0.19923				
H	-6.44026	-1.88236	-4.69379	C	-7.19480	-5.23336	-0.22869				
H	-6.45667	-3.84360	-3.27976	C	-5.78904	-5.26098	-0.23365				
H	-6.47465	-4.80700	-1.41539	C	-7.80542	0.86426	-0.09426				
H	-6.48142	-4.90002	0.99167	C	-7.12197	2.05681	-0.07414				
H	-6.47579	-4.06482	2.91453	C	-5.68206	2.05325	-0.08113				
H	-6.46267	-2.23569	4.48421	C	-4.97298	3.28189	-0.06207				
H	-6.44809	-0.21274	5.02989	C	-3.54863	3.28605	-0.06919				
H	-6.42983	2.15788	4.59860	C	-2.85273	4.52060	-0.05098				
H	-1.60877	-0.32218	-0.07331	C	-1.39565	4.51397	-0.05781				
H	-1.67010	-2.07405	-0.28132	C	-0.65817	5.69997	-0.04160				
H	0.33719	-1.15700	-1.50769	C	0.72164	5.69602	-0.04529				
H	0.90240	-0.38146	-0.02277	C	-5.69035	4.50796	-0.03609				
H	0.88750	-2.14170	-0.14474	C	-7.13067	4.48790	-0.02810				
				C	-7.81316	3.32316	-0.04615				
				C	-4.97654	5.70600	-0.01865				
				C	-3.59319	5.71075	-0.02608				
				C	5.04009	5.67728	-0.04900				
				C	3.65679	5.69015	-0.05275				
				C	-0.74155	-2.23262	3.11140				
				C	-0.07786	-0.87745	3.33548				
				C	-0.67831	-0.24664	3.99658				
				C	-7.65465	5.43931	-0.00681				
				C	7.71659	5.39485	-0.03925				

Ethane-graphene, gas

C	7.18695	4.44643	-0.05134	C	4.26113	4.03926	-2.43740
C	5.74679	4.47494	-0.05785	C	4.26482	3.13668	-3.57081
C	5.02213	3.25296	-0.07326	C	3.05186	2.53937	-3.96635
C	5.72387	2.02003	-0.08255	C	3.05980	1.25134	-4.58958
C	7.16376	2.01509	-0.07480	C	1.82178	0.54095	-4.72300
C	7.86250	3.27750	-0.05908	C	4.28086	0.58313	-4.80565
C	5.01101	0.80396	-0.09860	C	5.47295	1.35365	-4.69796
C	5.71668	-0.42802	-0.10644	C	5.46518	2.58562	-4.10136
				C	4.26555	4.67657	0.32767

C	5.45967	4.74652	-0.44410	C	-4.25893	-3.46672	3.57488	C	0.61241	-2.36346	-4.10721
C	5.45737	4.43918	-1.77803	C	-4.25600	-4.36882	2.44110	C	0.61480	-3.48930	-3.22961
C	4.27408	4.36139	1.74225	C	-3.04033	-4.61427	1.77308	C	-0.60290	-3.93860	-2.68150
C	3.06355	3.99724	2.36395	C	-3.04394	-4.93362	0.37790	C	-0.60111	-4.57407	-1.40353
C	1.81563	4.27065	1.71461	C	-1.80448	-4.90217	-0.34099	C	-1.83629	-4.71893	-0.70331
C	0.58618	3.96946	2.37299	C	-1.81321	-4.59600	-1.71107	C	-3.08000	-4.57732	-1.40251
C	4.29253	-0.86559	-4.80266	C	-0.58353	-4.29574	-2.36965	C	-4.29615	-4.79433	-0.72584
C	3.08250	-1.55244	-4.58325	C	0.64077	-4.58857	-1.73663	C	-5.49399	-4.68096	-1.48649
C	1.83333	-0.86258	-4.71936	C	1.87027	-4.25710	-2.38029	C	-5.49480	-4.07729	-2.71498
C	0.60452	-1.57243	-4.56932	C	3.11847	-4.57273	-1.75035	C	-1.83629	-4.71934	0.70064
C	-0.62080	-0.89427	-4.72521	C	4.32993	-4.31067	-2.41983	C	-3.08000	-4.57813	1.39991
C	-1.84948	-1.59608	-4.53975	C	5.53348	-4.68566	-1.75902	C	-4.29615	-4.79476	0.72313
C	-3.09894	-0.91651	-4.71813	C	5.54210	-4.98190	-0.42279	C	-0.60111	-4.57488	1.40094
C	-4.30918	-1.62878	-4.60519	C	-5.45315	-4.76709	1.78218	C	0.61789	-4.73443	0.71260
C	-5.51344	-0.90564	-4.83481	C	-5.45680	-5.07171	0.44776	C	0.61789	-4.73401	-0.71529
C	-5.52496	0.46318	-4.83884	C	-4.26325	-5.00124	-0.32449	C	1.85244	-4.54568	-1.40615
C	0.61739	-2.85423	-3.94143	C	-4.27203	-4.68444	-1.73836	C	1.85110	-3.92374	-2.66465
C	-0.59539	-3.41318	-3.49135	C	-3.06118	-4.32031	-2.35954	C	3.09287	-3.48611	-3.23209
C	-1.83673	-2.85671	-3.92195	C	-5.47465	-4.42153	-2.45269	C	3.09018	-2.35938	-4.11397
C	-3.07309	-3.43518	-3.48388	C	-5.48633	-3.57462	-3.52794	C	1.84575	-1.70743	-4.39738
C	-4.29593	-2.92961	-3.96723	C	0.37166	7.89421	0.58375	C	1.84279	-0.33786	-4.70544
C	0.59797	3.08844	3.49582	C	-0.55988	7.87230	-0.62530	C	0.60651	0.37376	-4.72351
C	-0.61473	2.52830	3.94445	H	1.42155	7.88247	0.27674	C	0.60336	1.76692	-4.41374
C	1.85863	-3.38853	-3.48315	H	6.48281	-1.29853	4.90772	C	-0.61710	2.40301	-4.11226
C	3.09535	-2.83796	-3.95454	H	6.46139	1.11069	4.90382	C	-0.60290	-3.94014	2.67926
C	3.07572	3.11233	3.48850	H	6.44120	2.99626	3.98310	C	-1.83871	-3.47558	3.22100
C	1.83967	2.53292	3.92635	H	6.42025	4.48635	2.08847	C	-3.08112	-3.94576	2.68321
C	4.31791	-3.41435	-3.55791	H	6.40822	4.94189	0.04422	C	-4.29812	-3.54527	3.26876
C	5.50888	-2.84705	-4.09261	H	6.40433	4.40083	-2.30542	C	-5.49480	-4.07887	2.71268
C	5.49664	-1.61692	-4.69321	H	6.41048	3.09194	-3.94087	C	-5.49399	-4.68183	1.48384
C	4.29887	2.60689	3.97142	H	6.42365	0.92273	-4.99242	C	3.09658	-4.72387	-0.71675
C	5.48903	3.25263	3.53232	H	6.44012	-1.17211	-4.98984	C	3.09658	-4.72429	0.71408
C	5.47698	4.09928	2.45695	H	6.46207	-3.33809	-3.93183	C	1.85243	-4.54650	1.40357
C	-0.60131	1.24627	4.57153	H	6.47902	-4.63538	-2.28768	C	1.85110	-3.92527	2.66243
C	0.62450	0.56871	4.72698	H	6.49412	-5.15698	0.06563	C	0.61480	-3.49116	3.22763
C	1.85287	1.27146	4.54257	H	6.49881	-4.68677	2.10576	C	0.61241	-2.36582	4.10589
C	3.10272	0.59210	4.71990	H	6.49490	-3.18627	3.99249	C	-0.60772	-1.72960	4.40751
C	4.31261	1.30513	4.60788	H	-6.47622	4.30678	2.28429	C	-1.84111	-2.37052	4.08650
C	-3.07953	1.22450	4.58414	H	-6.48944	4.83282	-0.06790	C	-3.08512	-1.73846	4.41411
C	-1.82976	0.53559	4.72077	H	-6.49405	4.36430	-2.10889	C	-4.30021	-2.40551	4.16313
C	-1.81717	-0.86817	4.72360	H	-6.48970	2.86422	-3.99595	C	4.31274	-4.61274	-1.41896
C	-0.57654	-1.55808	4.57675	H	-6.47817	0.97516	-4.90949	C	4.31098	-3.97365	-2.71917
C	0.63716	-0.85877	4.72954	H	-6.45783	-1.43388	-4.90189	C	1.84575	-1.70997	4.39644
C	1.87756	-1.54057	4.54741	H	-6.43849	-3.31768	-3.97854	C	3.09018	-2.36176	4.11266
C	3.11541	-0.83913	4.72202	H	-6.41807	-4.80848	-2.08404	C	3.09287	-3.48798	3.23013
C	4.33755	-1.53149	4.61207	H	-6.40542	-5.26512	-0.04010	C	4.31098	-3.97523	2.71694
C	5.52937	-0.78685	4.83813	H	-6.39914	-4.72866	2.31051	C	4.31273	-4.61357	1.41636
C	5.51722	0.58208	4.83618	H	-6.40384	-3.42505	3.94903	C	5.51083	-4.84321	0.68302
C	-0.56813	-2.84276	3.95479	H	-6.41800	-1.25497	4.99895	C	5.51083	-4.84280	-0.68576
C	0.65390	-3.38332	3.50776	H	-6.43750	0.84034	4.98600	C	4.30505	-1.74111	-4.46947
C	1.88574	-2.80404	3.93549	H	-6.46097	3.00447	3.92587	C	5.50407	-2.45840	-4.19879
C	3.13148	-3.36394	3.50021	H	0.21103	8.79073	1.18921	C	5.50712	-3.53533	-3.35388
C	4.34587	-2.83556	3.98081	H	0.20788	7.02639	1.22989	C	4.30211	-0.32733	-4.78699
C	-5.50713	2.51540	4.08909	H	-1.60784	7.80752	-0.31799	C	3.08408	0.37809	-4.73023
C	-5.49406	1.28623	4.69094	H	-0.44414	8.77680	-1.22912	C	3.08101	1.77480	-4.41835
C	-4.28915	0.53655	4.80293	H	-0.35366	7.01451	-1.27264	C	1.83693	2.40799	-4.09316
C	-4.27613	-0.91250	4.80774					C	4.30505	-1.74370	4.46851
C	-3.05459	-1.57973	4.59091					C	5.50407	-2.46084	4.19744
C	-3.04592	-2.86804	3.96811					C	5.50712	-3.53729	3.35191
C	-1.80028	-3.40002	3.49938					C	4.29615	2.44147	-4.16646
C	-1.79743	-4.27437	2.40122					C	5.49496	1.77765	-4.55085
C	-0.56247	-4.58878	1.75953					C	5.49798	0.44193	-4.84995
C	0.65661	-4.27185	2.39083					C	-0.61957	3.52571	-3.23117
C	1.89111	-4.55528	1.73381					C	0.59862	3.97363	-2.68265
C	3.13419	-4.25527	2.38072					C	1.83465	3.51188	-3.22606
C	4.35092	-4.60216	1.76132					C	3.07675	3.98079	-2.68591
C	5.54926	-4.31471	2.47340					C	4.29393	3.58081	-3.27140
C	5.54685	-3.46224	3.54428					C	-3.09754	3.52355	-3.23324
C	-0.56614	-4.90746	0.36810					C	-1.85564	3.95934	-2.66522
C	0.64978	-4.89936	-0.34346					C	-1.85697	4.57659	-1.40437
C	1.88772	-4.86921	0.36549					C	-0.62220	4.75863	-0.71244
C	3.12751	-4.88379	-0.35333					C	0.59723	4.60137	-1.40078
C	4.34749	-4.92689	0.34928					C	1.83208	4.74759	-0.70056
C	-5.46746	-1.68465	4.70279					C	3.07547	4.60969	-1.40057
C	-5.45908	-2.91712	4.10725					C	4.29152	4.82568	-0.72317

C	1.18088	4.80188	0.91436	C	-0.02836	-3.97002	-2.84791	C	-5.62670	1.43340	-4.59258
C	1.25978	4.34166	2.23876	C	1.23739	-4.16431	-2.25966	C	-1.89267	-0.53894	-4.68872
C	2.54713	4.16492	2.84384	C	2.39623	-3.59141	-2.86333	C	-1.84010	-1.90006	-4.34628
C	2.70389	3.15957	3.85051	C	3.68869	-3.80366	-2.28096	C	-3.05965	-2.58883	-4.03824
C	1.56775	2.36653	4.21773	C	4.83866	-3.29858	-2.91860	C	-4.29716	-2.03063	-4.41388
C	1.76547	1.05207	4.66977	C	6.09567	-3.57860	-2.31219	C	-3.01884	-3.67820	-3.11190
C	0.64816	0.17003	4.76934	C	6.17225	-4.02611	-1.02084	C	-4.21765	-4.18939	-2.57642
C	0.85382	-1.23165	4.59503	C	-0.18465	-2.96766	-3.85243	C	-5.42910	-3.82478	-3.22843
C	-0.25653	-2.06764	4.36395	C	0.93060	-2.19521	-4.23358	C	-5.46778	-2.78341	-4.11583
C	-1.12067	3.39901	-3.07358	C	2.24267	-2.60580	-3.85166	C	-1.76039	-4.04011	-2.52793
C	-2.27066	2.70875	-3.56027	C	3.38212	-1.83552	-4.25477	C	-0.54143	-3.58919	-3.11648
C	-3.57248	3.03937	-3.05970	C	4.68021	-2.28193	-3.93858	C	-0.58185	-2.50194	-4.04142
C	-4.71300	2.40895	-3.59391	C	-4.70340	-5.58340	1.23739	C	0.61316	-1.82417	-4.35958
C	-5.97903	2.81262	-3.08329	C	-4.69043	-5.73493	-0.12296	C	0.56033	-0.43890	-4.70493
C	-6.07627	3.53066	-1.92190	C	-3.53346	-5.41187	-0.88638	C	-0.68545	0.22149	-4.72427
C	2.39004	5.08482	0.19878	C	-3.61515	-4.93608	-2.25263	C	-0.73958	1.62207	-4.45150
C	2.40395	4.92597	-1.22373	C	-2.47871	-4.33687	-2.83043	C	-1.99824	2.22279	-4.15111
C	1.20740	4.48961	-1.88155	C	-2.63554	-3.33138	-3.83686	C	-1.73993	-4.60167	-1.24129
C	1.30783	3.75226	-3.07184	C	-1.49933	-2.53831	-4.20375	C	-2.97695	-4.80813	-0.54611
C	0.15450	3.08612	-3.58396	C	-1.69709	-1.22407	-4.65645	C	-4.19601	-4.77492	-1.25133
C	0.32533	1.89566	-4.35214	C	-0.57963	-0.34220	-4.75643	C	0.69091	-3.95879	-2.54262
C	-0.78512	1.05960	-4.58313	C	0.72971	-0.85889	-4.69350	C	0.71172	-4.53209	-1.23684
C	-2.10265	1.53813	-4.31587	C	1.84688	0.02668	-4.75738	C	-0.50041	-4.71201	-0.54289
C	-3.23723	0.69945	-4.56938	C	3.18095	-0.49578	-4.71559	C	-0.49948	-4.68170	0.88303
C	-4.53970	1.19991	-4.37337	C	4.28128	0.37305	-4.85176	C	-1.74050	-4.52215	1.56730
C	3.60194	5.23973	0.89969	C	5.57826	-0.21314	-4.84502	C	-2.97656	-4.76416	0.88413
C	3.68361	4.76398	2.26598	C	5.77084	-1.49454	-4.40394	C	-4.19631	-4.67952	1.58400
C	1.64478	1.40528	-4.58600	C	-4.85752	-4.75735	-2.92413	C	-5.38449	-4.97641	0.85893
C	2.77663	2.25857	-4.37260	C	-5.00747	-3.79559	-3.88657	C	-5.38463	-5.02411	-0.50921
C	2.60513	3.45243	-3.60267	C	-3.92609	-2.94305	-4.24692	C	1.90969	-3.46856	-3.09985
C	3.73286	4.16350	-3.14732	C	-4.13049	-1.58661	-4.71402	C	1.87141	-2.40070	-4.01062
C	3.62900	4.92510	-1.91925	C	-3.03097	-0.70619	-4.74178	C	0.71207	-4.47654	1.56959
C	4.77231	5.41065	-1.22393	C	-5.42706	-1.01363	-4.84387	C	1.94912	-4.59439	0.87062
C	4.75913	5.56234	0.13636	C	-5.62426	0.33092	-4.68053	C	1.94935	-4.62052	-0.53273
C	3.99438	2.77118	4.26060	C	-2.98402	7.47496	-0.56564	C	3.18691	-4.46085	-1.23739
C	5.07584	3.62356	3.90009	H	-2.92152	7.33012	0.51372	C	3.16744	-3.86527	-2.53792
C	4.92596	4.58519	2.93750	H	7.12998	-3.88793	1.51963	C	4.37057	-3.43726	-3.13324
C	4.19867	1.41476	4.72785	H	6.95852	-2.62867	3.56694	C	4.33069	-2.32958	-4.06547
C	3.09925	0.53422	4.75490	H	6.70752	-0.88346	4.69626	C	3.09014	-1.72568	-4.34975
C	3.30553	-0.87133	4.58183	H	6.35978	1.48442	4.98274	C	3.03700	-0.34065	-4.70651
C	2.17128	-1.71017	4.32746	H	6.06372	3.44754	4.31103	C	1.76738	0.32396	-4.70463
C	4.07279	1.79588	-4.67401	H	5.79975	5.14066	2.61549	C	1.71352	1.70140	-4.43895
C	5.15028	2.70529	-4.47923	H	5.68137	5.82952	0.64027	C	0.45404	2.31562	-4.16978
C	4.98608	3.84745	-3.74305	H	5.70474	5.56520	-1.75514	C	3.18834	-4.39858	1.56372
C	4.60798	-1.37146	4.38618	H	5.85642	4.45717	-3.52764	C	4.41065	-4.59136	0.89064
C	5.69237	-0.50266	4.69471	H	6.14519	2.44671	-4.82413	C	4.40999	-4.62447	-0.55768
C	5.49514	0.84181	4.85847	H	6.44588	0.38922	-5.09007	C	5.60350	-4.48544	-1.32070
C	-0.08542	-3.25809	3.59581	H	6.78475	-1.86751	-4.31124	C	5.58532	-3.91011	-2.56233
C	1.18988	-3.57166	3.08531	H	7.01401	-3.33568	-2.83502	C	4.22502	0.41271	-4.78461
C	2.33963	-2.88098	3.57190	H	7.14896	-4.12522	-0.56038	C	5.45198	-0.30742	-4.81630
C	3.64159	-3.21142	3.07145	H	-6.37776	-0.56239	5.10088	C	5.50316	-1.62992	-4.46778
C	4.78165	-2.57993	3.60601	H	-6.71680	1.69427	4.32188	C	4.16917	1.83508	-4.51612
C	-2.53624	-3.62473	3.61577	H	-6.94560	3.16709	2.84692	C	2.93003	2.41372	-4.17970
C	-1.23895	-3.92417	3.08460	H	-7.07940	3.96124	0.57402	C	0.41083	3.46827	-3.32945
C	-1.13865	-4.66105	1.89417	H	-7.06059	3.72434	-1.51013	C	1.62836	3.97256	-2.78219
C	0.11515	-4.72996	1.21639	H	-6.88991	2.46143	-3.55517	C	2.88668	3.56974	-3.33757
C	1.29169	-4.32022	1.87455	H	-6.63945	0.71170	-4.68114	C	4.08358	4.12417	-2.84308
C	2.54045	-4.35581	1.18499	H	-6.29182	-1.65628	-4.96699	C	5.29634	3.71482	-3.46564
C	3.74349	-3.96118	1.85702	H	-5.99536	-3.61966	-4.29754	C	5.33781	2.61047	-4.27292
C	4.98407	-4.06544	1.19728	H	-5.73125	-5.31295	-2.60216	C	-2.04063	3.35438	-3.32097
C	6.14566	-3.69709	1.93267	H	-5.61268	-6.00232	-0.62674	C	-0.82451	3.88464	-2.79519
C	6.04806	-2.98105	3.09519	H	-5.63570	-5.73829	1.76873	C	-0.84782	4.55735	-1.53656
C	0.12854	-4.88836	-0.20224	H	-5.78730	-4.63036	3.54152	C	0.36450	4.78812	-0.85657
C	1.31751	-4.63127	-0.91305	H	-6.07633	-2.61975	4.83781	C	1.60556	4.63339	-1.54406
C	2.55348	-4.51138	-0.21032	H	-3.78365	6.84893	-0.96650	C	2.84128	4.88870	-0.86415
C	3.76898	-4.27122	-0.93076	H	-3.19211	8.52258	-0.78546	C	4.06025	4.80630	-1.56548
C	4.99724	-4.22554	-0.24288	H	-2.03595	7.18541	-1.02246	C	0.36573	4.83923	0.56977
C	-5.08143	-2.87811	4.49271					C	1.60782	4.73114	1.26418
C	-4.91708	-4.02036	3.75669					C	2.84226	4.93925	0.56611
C	-3.66391	-4.33610	3.16075					C	4.06279	4.90249	1.26838
C	-3.56016	-5.09754	1.93259					C	5.24934	5.15787	0.52447
C	-2.33528	-5.09773	1.23681					C	5.24842	5.11141	-0.84341
C	-2.32161	-5.25645	-0.18552					C	-3.30075	3.79024	-2.79502
C	-1.11254	-4.97322	-0.90094					C	-3.32391	4.46218	-1.53178
C	-1.19135	-4.51350	-2.22532					C	-2.08709	4.67632	-0.83964

C	1.02451	-1.93921	-4.50005	C	-5.14758	-0.08214	0.17428	H	-1.04962	6.54277	4.92709
C	2.25847	-2.07561	-3.84444	C	-4.88233	-0.12292	1.57629	H	-2.88788	6.74534	3.94608
C	2.67820	-3.37400	-3.40418	C	-4.47257	1.05388	2.23360	H	-4.31091	6.91252	2.00857
C	2.05314	-4.52677	-3.91825	C	-4.61119	2.31621	1.58259	H	-2.04150	-6.24248	-5.01004
C	3.52029	-3.47282	-2.25144	C	-4.21667	3.51864	2.25581	H	0.35437	-6.49620	-4.92429
C	3.72421	-4.72218	-1.63311	C	-4.42101	4.76914	1.63961	H	2.19012	-6.70002	-3.93776
C	3.34883	-5.88106	-2.36962	C	-3.62959	0.95505	3.38102	H	3.61115	-6.86568	-1.99902
C	2.54181	-5.78668	-3.47109	C	-2.95032	2.12130	3.84422	H	4.01095	-6.92308	0.05927
C	3.91080	-2.26937	-1.57766	C	-3.37199	3.41958	3.40675	H	3.39566	-6.87680	2.38744
C	3.77677	-1.00767	-2.23183	C	-2.74738	4.57236	3.92158	H	2.03716	-6.74590	3.98332
C	2.93830	-0.90913	-3.38272	C	-3.23834	5.83246	3.47763	H	-0.16188	-6.52238	4.94443
C	2.53495	0.36378	-3.83341	C	-4.04642	5.92759	2.37718	H	-2.24543	-6.30285	4.85536
C	1.27988	0.50214	-4.49912	C	-5.41350	-2.54561	0.15216	H	-4.36137	-6.07021	3.72571
C	0.47297	-0.63686	-4.69142	C	-5.14703	-2.58662	1.55772	H	-5.60881	-5.92321	2.04726
C	-0.94532	-0.48670	-4.74346	C	-4.71127	-1.38847	2.21286	H	-6.05719	-5.85391	-0.32101
C	-1.77022	-1.64253	-4.60320	C	-3.88115	-1.48587	3.34079	H	-5.51340	-5.89607	-2.34208
C	4.16502	-2.30721	-0.19736	C	-3.22490	-0.31756	3.83075	H	-3.95026	-6.04714	-4.17047
C	4.03801	-3.54927	0.50625	C	-1.97026	-0.45535	4.49763	H	7.50304	-3.40653	0.09250
C	3.99430	-4.76188	-0.20952	C	-1.16421	0.68378	4.69194	H	6.74889	-2.24369	1.20222
C	4.18191	0.16977	-1.57193	C	-1.71646	1.98567	4.50028	H	8.50138	-2.30644	1.07043
C	4.43389	0.13118	-0.16794	C	-0.90673	3.14835	4.71748	H	8.38339	-1.46155	-1.28699
C	4.28520	-1.08376	0.52728	C	-1.47378	4.43252	4.59812	H	6.62900	-1.49359	-1.23265
C	3.93398	-1.05684	1.90991	C	0.25391	0.53422	4.74814	H	7.28488	0.82416	-1.97485
C	3.46030	-2.25377	2.52425	C	1.07860	1.69047	4.60894	H	7.34015	1.98176	-0.69858
C	3.67795	-3.52131	1.89120	C	0.51511	2.99844	4.77186				
C	3.27291	-4.70734	2.53448	C	1.34493	4.13511	4.70383				
C	3.55717	-5.93559	1.87374	C	0.73209	5.40228	4.91678				
C	3.90589	-5.96209	0.55042	C	-0.62819	5.54560	4.86625				
C	4.01689	1.43509	-2.21162	C	-3.48776	-2.78151	3.81118				
C	3.19107	1.53232	-3.34279	C	-2.23002	-2.91966	4.48009				
C	3.73667	0.18440	2.54574	C	-1.40926	-1.75780	4.65560				
C	4.17900	1.38387	1.91317	C	-0.01444	-1.90516	4.71154				
C	4.52671	1.35630	0.55531	C	0.81698	-0.75007	4.60868				
C	4.71275	2.59092	-0.14664	C	2.11956	-0.88272	4.03969				
C	4.45122	2.63283	-1.55443	C	2.81295	0.27343	3.62965				
C	4.35323	3.87271	-2.21615	C	2.35935	1.56008	4.04840				
C	3.49657	3.97414	-3.38054	C	3.07289	2.73776	3.65001				
C	2.79867	2.82851	-3.81229	C	2.66553	4.00072	4.12271				
C	1.54034	2.96693	-4.48020	C	4.32876	5.03971	2.68583				
C	0.71911	1.80506	-4.65501	C	3.44011	5.12640	3.72351				
C	-0.67585	1.95269	-4.70613	C	0.55672	-3.21441	4.59172				
C	-1.50734	0.79771	-4.60118	C	1.86256	-3.34733	4.02110				
C	3.99993	2.64768	2.56392	C	2.55162	-2.16649	3.59096				
C	4.50642	3.82147	1.97221	C	2.33449	-4.61723	3.63494				
C	4.87912	3.79086	0.57248	C	1.63189	-5.75116	4.13111				
C	5.10469	4.97635	-0.18385	C	0.38338	-5.62411	4.67729				
C	4.84928	5.01680	-1.52844	C	-0.25271	-4.35375	4.76655				
C	1.00203	4.24935	-4.70533	C	-1.69228	-4.20186	4.70815				
C	1.87944	5.35964	-4.55321	C	-2.56985	-5.31210	4.55738				
C	3.08254	5.22729	-3.91341	C	-3.77249	-5.17993	3.91677				
C	-0.43756	4.40123	-4.76124	C	-4.18574	-3.92748	3.38161				
C	-1.24654	3.26190	-4.58441	C	-5.04334	-3.82682	2.21796				
C	-2.80836	0.93045	-4.02883	C	-5.53364	-4.97284	1.53064				
C	-3.23983	2.21421	-3.57958	C	-5.78914	-4.93361	0.18629				
C	-2.55145	3.39480	-4.01136	C	-5.57221	-3.74594	-0.56747				
C	-3.02311	4.66473	-3.62536	C	-5.19947	-3.77445	-1.96734				
C	-2.32127	5.79857	-4.12306	C	-5.02275	-4.99153	-2.68356				
C	-1.07364	5.67164	-4.67094	C	-4.13455	-5.07739	-3.72176				
C	-3.04980	-1.51186	-4.03980	C	-3.35874	-3.95190	-4.11879				
C	-3.50186	-0.22547	-3.61885	C	7.52543	-1.36030	-0.61160				
C	-4.42805	-0.13621	-2.53645	C	7.51044	0.05962	-0.06520				
C	-4.62737	1.10546	-1.90081	O	7.50826	0.31278	1.12454				
C	-4.14990	2.30204	-2.51427	C	7.57341	-2.39579	0.50167				
C	-4.36915	3.56997	-1.88287	N	7.52160	1.04163	-1.01957				
C	-3.96227	4.75552	-2.52589	H	-4.69815	6.97128	-0.05087				
C	-4.99338	1.13330	-0.52142	H	-4.08104	6.92537	-2.37856				
C	-4.87137	2.35619	0.20356	H	-2.72658	6.79334	-3.97510				
C	-4.73583	3.59770	-0.49966	H	-0.52916	5.65995	-4.93927				
C	-4.68861	4.81000	0.21614	H	1.55388	6.35072	-4.84833				
C	-4.59538	6.01050	-0.54292	H	3.67000	6.11777	-3.71947				
C	-4.24541	5.98431	-1.86567	H	4.93099	5.96645	-2.04532				
C	-3.76452	-2.68938	-3.64321	H	5.38039	5.89489	0.32261				
C	-4.69318	-2.59988	-2.55793	H	4.81900	5.94412	2.34329				
C	-4.87475	-1.33609	-1.90657	H	3.25480	6.09667	4.17050				
C	-5.23448	-1.30865	-0.54970	H	1.34648	6.29068	5.01338				

C	-5.38799	2.88493	4.09415	C	5.46265	-2.76060	-4.09139	C	2.94598	-0.49970	-0.21148
C	-1.73166	4.72363	1.14003	C	4.27002	-2.04759	-4.40018	C	3.65736	-1.71522	-0.20408
C	-2.97987	4.88271	0.45322	C	4.28274	-0.65667	-4.80508	C	5.09511	-1.71248	-0.18748
C	-4.18987	4.83903	1.17348	C	5.48806	0.08955	-4.93114	C	5.81798	-2.93276	-0.18419
C	0.72729	4.15285	2.42645	C	5.50862	1.44082	-4.71276	C	7.24947	-2.90925	-0.17243
C	0.72256	4.70372	1.11012	C	4.32469	2.14422	-4.35349	C	7.92114	-1.68022	-0.16012
C	-0.50159	4.84125	0.42582	C	4.35013	3.33651	-3.53061	C	5.13490	-4.18465	-0.19313
C	-0.51770	4.75241	-0.99880	C	5.56117	3.88245	-3.01889	C	3.67004	-4.18473	-0.19871
C	-1.76309	4.54715	-1.66437	C	5.58329	4.55630	-1.82749	C	2.95488	-2.95641	-0.20630
C	-2.99579	4.79077	-0.97500	C	4.39596	4.73348	-1.06305	C	1.52701	-2.95836	-0.21426
C	-4.22149	4.65616	-1.65606	C	4.41222	4.82047	0.38338	C	0.80803	-1.72317	-0.23363
C	-5.40714	4.95439	-0.92685	C	5.61643	4.73175	1.13732	C	1.51287	-0.50079	-0.23763
C	-5.39193	5.04350	0.43881	C	5.62086	4.20502	2.40072	C	0.80326	0.73787	-0.24990
C	-1.78536	3.85041	-2.88292	C	4.42138	3.73011	3.00190	C	1.50889	1.95954	-0.23148
C	-3.04020	3.39743	-3.40719	C	4.41320	2.65092	3.96885	C	0.79811	3.19712	-0.23415
C	-4.24472	3.93550	-2.91254	C	5.60421	1.99396	4.38790	C	1.50513	4.42888	-0.20218
C	0.69122	4.53192	-1.68815	C	5.58737	0.68198	4.77750	C	5.88437	-5.35355	-0.19480
C	0.66861	3.82528	-2.92817	H	-6.36007	5.00756	-1.44158	C	7.29014	-5.32774	-0.18526
C	-0.56256	3.36121	-3.43245	H	-6.33359	5.16449	0.96248	C	7.96446	-4.13461	-0.17329
C	-0.58682	2.18249	-4.23666	H	-6.32535	4.36100	2.90332	C	0.82263	-4.18918	-0.20274
C	-1.83281	1.52813	-4.46893	H	-6.33731	2.55850	4.50419	C	1.55819	-5.37554	-0.19762
C	-3.06418	2.21553	-4.21364	H	-6.36473	0.54369	5.07563	C	2.94005	-5.37220	-0.19635
C	-4.29228	1.59439	-4.51351	H	-6.40366	-1.83466	4.68717	C	-0.62818	0.73549	-0.28505
C	-5.47778	2.34494	-4.27528	H	-6.43810	-3.55775	3.49558	C	-1.33442	-0.50470	-0.27119
C	-5.45518	3.47462	-3.50296	H	-6.46760	-4.75152	1.40091	C	-0.62665	-1.72492	-0.25167
C	-1.85303	0.14175	-4.68869	H	-6.48651	-4.90132	-0.68406	C	-1.34191	-2.96196	-0.22934
C	-3.10475	-0.55458	-4.65632	H	-6.49558	-3.98515	-2.91369	C	-0.63461	-4.19072	-0.19891
C	-4.31334	0.16432	-4.74371	H	-6.48797	-2.41403	-4.29791	C	-0.63079	3.19508	-0.27064
C	0.62015	1.50970	-4.51054	H	-6.46494	-0.09536	-4.95451	C	-1.33889	1.95523	-0.29572
C	0.59892	0.10068	-4.73401	H	-6.43452	1.96763	-4.61870	C	-2.76768	-0.50652	-0.28236
C	-0.62777	-0.58870	-4.67550	H	-6.39475	3.95663	-3.25689	C	-3.47542	-1.72427	-0.26397
C	-0.64077	-1.96131	-4.28890	H	6.55991	2.49880	4.30116	C	-2.76979	-2.96386	-0.23765
C	-1.87954	-2.56538	-3.92284	H	6.53024	0.18880	4.98633	C	-3.48177	-4.19388	-0.21342
C	-3.11779	-1.93148	-4.26802	H	6.49662	-1.87822	4.66426	C	-2.74904	-5.37892	-0.17139
C	-4.34043	-2.56449	-3.97039	H	6.45919	-3.85829	3.28924	C	-1.36721	-5.37835	-0.16384
C	-5.53380	-1.90553	-4.37949	H	6.43068	-4.88422	1.45881	C	-3.47390	0.73288	-0.30160
C	-5.52079	-0.58881	-4.75231	H	6.41009	-5.02617	-0.94613	C	-2.77123	1.95265	-0.31058
C	-1.88331	-3.62357	-3.00133	H	6.40612	-4.22102	-2.88621	C	-4.90510	0.72915	-0.31335
C	-3.12723	-4.03942	-2.42202	H	6.41129	-2.43043	-4.49986	C	-5.61308	-0.50121	-0.30169
C	-4.34511	-3.65270	-3.01501	H	6.42794	-0.42429	-5.09912	C	-4.91325	-1.72584	-0.27529
C	0.57287	-2.60019	-3.97081	H	6.46365	1.95439	-4.71327	C	-5.63258	-2.94785	-0.26139
C	0.56872	-3.67059	-3.02845	H	6.50144	3.67358	-3.51689	C	-4.94643	-4.19756	-0.23198
C	-0.64844	-4.06705	-2.44242	H	6.54029	4.86135	-1.41901	C	-1.34312	4.42561	-0.26555
C	-0.64454	-4.59345	-1.11677	H	6.56435	4.98026	0.67304	C	-0.61091	5.61463	-0.21532
C	-1.87407	-4.67213	-0.39667	H	6.57264	4.05503	2.89797	C	0.76853	5.61592	-0.18646
C	-3.12296	-4.57446	-1.09456	C	-2.54226	-0.74952	-0.72906	C	-2.79952	4.42543	-0.30857
C	-4.33514	-4.72483	-0.39305	C	-1.60003	-0.87197	0.46048	C	-3.48890	3.18736	-0.31905
C	-5.53956	-4.64988	-1.14856	H	-3.51837	-0.37816	-0.41098	C	-4.91290	3.17753	-0.33965
C	-5.54421	-4.12981	-2.41404	H	-2.13352	-0.06844	-1.48142	C	-5.61630	1.94589	-0.33579
C	0.57741	-4.71244	-0.42557	H	-2.68134	-1.72268	-1.20687	C	-7.05594	1.94357	-0.35300
C	3.05494	-4.74658	-0.44540	H	-1.49614	0.07353	1.00655	C	-7.73450	0.74809	-0.34407
C	1.80839	-4.59448	-1.13669	H	-1.96407	-1.60128	1.19587	C	-7.04981	-0.49347	-0.31694
C	1.80356	-4.06977	-2.43757	C	-0.21696	-1.30122	0.03944	C	-7.73889	-1.70188	-0.30544
C	3.04693	-3.68914	-3.04016	O	0.62008	-1.41068	1.08908	C	-7.06397	-2.92885	-0.27786
C	3.05044	-2.62525	-3.99595	O	0.13600	-1.51825	-1.09485	C	-7.77591	-4.15585	-0.26653
C	1.81082	-1.97673	-4.30677	H	1.47302	-1.71748	0.74106	C	-7.09863	-5.34710	-0.24126
C	1.82448	-0.62715	-4.69176	C	-5.63539	4.40055	-0.36142				
C	3.07518	0.06818	-4.77448	C	-7.07546	4.37467	-0.38276				
C	3.09690	1.48108	-4.54771	C	-7.75276	3.20676	-0.37850				
C	1.86648	2.15183	-4.24754	C	-4.92722	5.60228	-0.36283				
C	1.89084	3.31045	-3.45479	C	-3.54429	5.61298	-0.33606				
C	3.14603	3.79243	-2.95863	C	-0.44440	-0.44861	3.07985				
C	3.16911	4.49792	-1.71377	C	-1.10636	0.87374	2.78745				
C	1.93608	4.69980	-1.01115	C	-1.45495	-1.57897	3.20067				
C	1.95186	4.78539	0.39010	C	-7.60336	5.32394	-0.40136				
C	3.20029	4.66678	1.08473	C	7.76454	5.34676	-0.11797				
C	3.20506	4.11523	2.40474	C	-8.82592	-1.69548	-0.31729				
C	1.96094	3.70281	2.98470	C	-8.82162	0.74461	-0.35594				
C	1.95341	2.65512	3.91861	H	-8.83866	3.19058	-0.39291				
C	3.18960	2.02313	4.27414	C	-8.86146	-4.12969	-0.27904				
C	5.47905	-4.82771	0.94212	C	-7.64298	-6.28571	-0.23410				
C	5.46701	-4.90805	-0.42434	C	-5.20116	-6.33316	-0.20664				
C	4.26725	-4.70310	-1.16210	C	-3.25630	-6.33520	-0.14183				
C	4.26331	-4.15462	-2.50266	C	-0.86204	-6.33491	-0.12676				
C	5.45979	-3.77701	-3.17459	C	7.90956	0.77068	-0.14556				

H	1.05531	-6.33397	-0.19816	C	2.90334	4.87049	1.71417	C	2.97263	-3.47987	-4.70297
H	3.44982	-6.32759	-0.19165	C	2.11967	5.84853	2.35724	C	4.19137	-4.20400	-4.57513
H	5.39552	-6.31985	-0.20465	C	3.47449	1.04815	3.51217	C	5.28777	-3.64046	-3.98016
H	7.83723	-6.26483	-0.18712	C	4.28163	1.43622	2.40077	C	5.24445	-2.31246	-3.46966
H	9.04996	-4.10561	-0.16495	C	4.01458	2.65588	1.74805	C	6.04132	-1.89305	-2.33471
H	9.00812	-1.67082	-0.14999	C	4.31330	2.78324	0.35814	C	6.91927	-2.78070	-1.65116
H	8.99664	0.77062	-0.13322	C	3.74906	3.86983	-0.37455	C	7.17764	-2.62876	-0.31543
H	9.00622	3.21748	-0.11615	C	3.20191	4.99781	0.32056	C	6.57661	-1.57802	0.43370
H	-5.47541	6.53985	-0.38443	C	2.71181	6.10126	-0.40501	C	6.27364	-1.70679	1.84483
H	-3.04243	6.57228	-0.34082	C	2.22023	7.20711	0.34443	C	6.55816	-2.89178	2.58015
H	-1.11930	6.57011	-0.19536	C	1.93429	7.08504	1.67751	C	5.78343	-3.26436	3.64557
H	1.27293	6.57290	-0.14635	C	3.48344	3.71328	-1.74408	C	4.66880	-2.47845	4.05283
H	3.19959	6.58159	-0.17655	C	2.67080	4.68482	-2.41530	C	3.49626	-3.05907	4.67532
H	5.63237	6.55639	-0.14234	C	2.43756	5.93962	-1.81846	C	3.37658	-4.45565	4.92172
H	-2.10601	-1.42689	4.06450	C	4.86879	1.68656	-0.33034	C	2.15350	-5.07059	4.91952
H	-2.09441	-1.61758	2.31551	C	4.59919	1.52776	-1.72283	H	1.96444	8.13200	-0.16030
H	-0.94776	-2.54051	3.30723	C	3.78238	2.47043	-2.37806	H	1.45923	7.91631	2.18649
H	0.15049	-0.32761	3.99196	C	2.99574	2.05647	-3.49497	H	0.27917	7.34863	3.81891
H	0.27910	-0.63014	2.27608	C	1.93428	2.89696	-3.94478	H	-1.66981	6.38497	4.85932
O	-0.20492	1.87089	2.68376	C	1.88200	4.26962	-3.53489	H	-3.54231	5.44474	4.84768
O	-2.29157	1.05208	2.64769	C	0.87478	5.11599	-4.03828	H	-5.47177	4.45548	3.79343
H	-0.69739	2.67020	2.43780	C	0.90250	6.47774	-3.62481	H	-6.64405	3.83361	2.15872
				C	1.65731	6.87518	-2.55439	H	-7.10493	3.55667	-0.19221
				C	0.81002	2.31957	-4.55618	H	-6.65508	3.75205	-2.24238
				C	-0.36472	3.11635	-4.75682	H	-5.29144	4.40871	-4.11912
				C	-0.28545	4.52027	-4.66984	H	-3.59092	5.25231	-5.01248
				C	3.05488	0.71382	-3.91824	H	-1.43884	6.33664	-5.00464
				C	1.91189	0.12670	-4.53941	H	0.23837	7.19826	-4.08913
				C	0.74948	0.90298	-4.71652	H	1.56708	7.89762	-2.20517
				C	-0.52513	0.26076	-4.72200	H	4.26704	-5.06846	5.00643
				C	-1.70159	1.05363	-4.56793	H	2.11412	-6.15084	5.00396
				C	-1.64257	2.47259	-4.76278	H	0.43351	-7.01171	4.09397
				C	-2.81923	3.24355	-4.68121	H	-0.89579	-7.71098	2.21025
				C	-2.70008	4.64024	-4.92642	H	-1.28850	-7.94474	0.16508
				C	-1.47743	5.25623	-4.92114	H	-0.77645	-7.72873	-2.18006
				C	-2.83787	0.49079	-3.96569	H	0.41130	-7.16002	-3.80665
				C	-3.91337	1.34748	-3.56009	H	2.35909	-6.19549	-4.84773
				C	-3.99280	2.66195	-4.06079	H	4.23063	-5.25124	-4.85345
				C	-0.59245	-1.13599	-4.54869	H	6.16115	-4.25869	-3.80395
				C	-1.74679	-1.70791	-3.93506	H	7.30879	-3.65502	-2.16055
				C	-2.79449	-0.86334	-3.51804	H	7.76319	-3.38796	0.19098
				C	-3.59957	-1.24960	-2.40463	H	7.32977	-3.57071	2.23460
				C	-4.42491	-0.27144	-1.77464	H	5.96607	-4.22644	4.11103
				C	-4.72172	0.95944	-2.44555	H	-6.69548	-4.42880	-1.46392
				C	-5.59676	1.89024	-1.85211	C	-6.97206	-3.37857	-1.34845
				C	-5.88287	0.37083	-2.58792	H	-6.17063	-2.76147	-1.76425
				C	-5.10815	3.44668	-3.65376	H	-7.87283	-3.18043	-1.93232
				C	-3.32876	-2.46682	-1.74801	C	-7.19946	-3.03800	0.11703
				C	-2.22067	-4.68233	-1.71135	C	-7.54505	-1.58038	0.29632
				C	-2.47680	-3.43183	-2.36300	H	-8.02712	-3.61958	0.54099
				C	-1.68369	-3.05129	-3.45716	H	-6.32311	-3.25904	0.73392
				C	-0.63318	-3.92148	-3.89614	O	-7.39799	-1.18117	1.57515
				C	0.52389	-3.34845	-4.51291	O	-7.91494	-0.83471	-0.57671
				C	0.59063	-1.92507	-4.66820	H	-7.60687	-0.23329	1.59600
				C	1.84393	-1.29320	-4.66450				
				C	3.02802	-2.08574	-4.50776				
				C	4.17400	-1.49666	-3.88543				
				C	4.09638	-0.13632	-3.44057				
				C	4.86984	0.27075	-2.34167				
				C	5.71753	-0.68344	-1.68926				
				C	5.98739	-0.52453	-0.29288				
				C	5.40074	0.58364	0.40210				
				C	5.10682	0.45833	1.76909				
				C	5.39950	-0.77476	2.43822				
				C	4.59020	-1.16394	3.55222				
				C	3.51618	-0.30647	3.95891				
				C	2.38060	-0.86844	4.56319				
				C	2.32055	-2.28705	4.75887				
				C	-1.54235	-7.01954	-0.34010				
				C	-1.25224	-6.89715	-1.67215				
				C	-1.43524	-5.66040	-2.35242				
				C	-0.61500	-5.26745	-3.47998				
				C	0.43132	-6.09039	-3.98348				
				C	1.53778	-5.54260	-4.57440				
				C	1.67883	-4.13205	-4.70396				

C	0.59810	-0.68508	-4.66353	C	-3.09663	4.72520	1.04382	H	-6.45361	4.20190	2.91207
C	-0.62304	0.01581	-4.71842	C	-3.09214	4.20124	2.37503	H	-6.46092	5.08143	0.66856
C	-0.62588	1.42988	-4.52469	C	-1.84671	3.78223	2.94772	H	-6.46615	4.90979	-1.42032
C	-1.86181	2.08955	-4.25554	C	-1.84232	2.75211	3.90111	H	-6.46914	3.67890	-3.49338
C	-1.84028	-4.64557	-1.02761	C	-0.60525	2.14407	4.26955	H	-1.11508	-2.07157	0.46406
C	-3.08263	-4.76531	-0.32235	C	-0.60186	0.78047	4.69024				
C	-4.30105	-4.71452	-1.02780	C	0.61849	0.07814	4.74036				
C	0.61138	-4.12063	-2.34500	C	1.85220	0.79050	4.66438				
C	0.61574	-4.65870	-1.02274	C	3.09587	0.08210	4.73851				
C	-0.60333	-4.76921	-0.32467	C	4.31146	0.79391	4.73690				
C	-0.60001	-4.64150	1.09842	C	0.62028	-1.33398	4.53425				
C	-1.83565	-4.39478	1.77154	C	1.85470	-1.99438	4.26150				
C	-3.08091	-4.63810	1.10331	C	3.09680	-1.33431	4.53479				
C	-4.29539	-4.47141	1.79712	C	4.31336	-2.01560	4.33577				
C	-5.49428	-4.76667	1.08923	C	5.51063	-1.31951	4.66310				
C	-5.49691	-4.88381	-0.27442	C	5.50995	0.03573	4.85649				
C	1.84448	-3.68812	-2.91973	C	-3.08332	2.14315	4.28059				
C	1.84005	-2.65412	-3.86868	C	-3.07994	0.77592	4.70281				
C	0.61973	-4.41957	1.76923	C	-1.83565	0.06500	4.73204				
C	1.85363	-4.62471	1.08411	C	-1.83378	-1.32434	4.52967				
C	1.85145	-4.74265	-0.31416	C	-0.59834	-1.99537	4.28653				
C	3.09265	-4.64437	-1.02338	C	-0.59759	-3.18605	3.49918				
C	3.08978	-4.10947	-2.34937	C	0.62052	-3.67702	2.98824				
C	4.30358	-3.74942	-2.96645	C	1.85476	-3.16618	3.48864				
C	4.29881	-2.68295	-3.94721	C	3.09690	-3.67719	2.99093				
C	3.08042	-2.04388	-4.24844	C	4.31326	-3.22613	3.54002				
C	3.07598	-0.67869	-4.67604	C	5.51083	-4.50475	1.85611				
C	1.83140	0.03142	-4.70969	C	5.51110	-3.80222	3.03082				
C	1.82840	1.42241	-4.51871	C	-3.07639	-2.00077	4.30036				
C	0.59241	2.09463	-4.28146	C	-3.07685	-3.19328	3.50925				
C	3.09600	-4.41622	1.76619	C	-1.83423	-3.66825	2.97427				
C	4.31267	-4.68342	1.10932	C	-4.29347	-3.72674	3.04026				
C	4.31103	-4.80051	-0.33422	C	-5.49010	-3.24352	3.64062				
C	5.50738	-4.74033	-1.10316	C	-5.48964	-2.10223	4.39654				
C	5.50388	-4.23329	-2.37440	C	-4.29319	-1.36163	4.60879				
C	4.29039	0.02518	-4.79582	C	-4.29517	0.07235	4.81730				
C	5.48959	-0.74128	-4.79680	C	-5.49404	0.83956	4.82262				
C	5.49355	-2.04747	-4.38786	C	-5.49713	2.14715	4.41845				
C	4.28730	1.46068	-4.59786	C	-4.30174	2.78251	3.97883				
C	3.07036	2.10147	-4.29391	C	-4.30630	3.84563	2.99434				
C	0.59171	3.28855	-3.49892	C	-5.50643	4.32701	2.39945				
C	1.82714	3.77290	-2.97413	C	-5.51087	4.82736	1.12548				
C	3.06954	3.29749	-3.50807	C	-4.31529	4.88182	0.35467				
C	4.28621	3.82942	-3.03747	C	-4.31899	4.76363	-1.08949				
C	5.48322	3.34608	-3.63722	C	-5.51829	4.58489	-1.83474				
C	5.48363	2.20280	-4.38990	C	-5.51994	3.88628	-3.01194				
C	-1.86253	3.26379	-3.48565	C	-4.32219	3.31561	-3.52776				
C	-0.62736	3.77426	-2.98521	O	1.15430	-1.72162	0.17100				
C	-0.62560	4.50289	-1.75762	C	0.28733	-1.46097	-0.61895				
C	0.59490	4.71931	-1.08755	O	-1.01913	-1.66322	-0.41492				
C	1.82873	4.48850	-1.76610	H	0.44901	-1.02146	-1.61558				
C	3.07308	4.72731	-1.09613	H	6.44029	5.08516	0.79224				
C	4.28785	4.56825	-1.79113	H	6.43341	4.89206	-1.60950				
C	0.59862	4.83358	0.33555	H	6.43115	3.82217	-3.41249				
C	1.83590	4.71193	1.03627	H	6.43170	1.80934	-4.73913				
C	3.07689	4.84142	0.33060	H	6.43657	-0.26294	-5.02100				
C	4.29543	4.79310	1.03583	H	6.44374	-2.56267	-4.30245				
C	5.49032	4.96967	0.28256	H	6.45132	-4.10404	-2.88544				
C	5.48667	4.86069	-1.08180	H	6.45731	-4.99422	-0.64587				
C	-3.10538	3.76919	-2.98144	H	6.45884	-4.83331	1.44487				
C	-3.10371	4.49976	-1.75085	H	6.45931	-3.59617	3.51476				
C	-1.85928	4.69898	-1.06805	H	6.45953	-1.84417	4.65675				
C	-1.85566	4.81171	0.33142	H	6.45875	0.54096	4.99827				
C	-0.61846	4.72631	1.03761	H	6.45381	2.54179	4.37906				
C	-0.61387	4.20277	2.36503	H	6.44726	4.31157	2.74335				
C	0.60753	3.80539	2.94418	H	6.46719	1.92917	-4.64321				
C	1.84040	4.19635	2.34155	H	6.46248	-0.45670	-4.97932				
C	3.08566	3.81284	2.93894	H	6.45432	-2.45984	-4.37099				
C	4.30017	4.26143	2.38346	H	6.44912	-4.23654	-2.74187				
C	0.61195	2.75766	3.91317	H	6.44682	-4.99866	-0.78437				
C	1.84886	2.13149	4.25047	H	6.44137	-4.79265	1.61651				
C	3.08994	2.76237	3.91026	H	6.43824	-3.71889	3.41544				
C	4.30830	2.17820	4.30911	H	6.43759	-1.70959	4.74707				
C	5.50369	2.87553	3.97701	H	6.44122	0.36105	5.04572				
C	5.49990	3.88066	3.04771	H	6.44687	2.66359	4.33512				

C	0.60813	-3.97783	2.63263	C	-0.60792	4.54478	1.46439	H	6.44856	-4.94629	-1.11523
C	1.84333	-3.52461	3.18509	C	-0.60816	3.90442	2.73993	H	6.44889	-3.86680	-3.27016
C	-0.61118	-4.73210	0.64938	C	0.61084	3.45432	3.28480	H	6.44865	-2.21057	-4.55058
C	-1.84626	-4.56341	1.34407	C	0.61041	2.32513	4.15765	H	6.45025	0.14775	-5.05182
C	-1.84602	-3.96837	2.61533	C	-0.60891	1.68431	4.45467	H	6.45061	2.18318	-4.56201
C	-0.61085	-3.54305	3.18958	C	-0.60947	0.28828	4.75206	H	6.45165	4.04997	-3.03662
C	-3.08943	-4.73472	0.65122	C	0.60931	-0.41819	4.74270	H	6.45217	4.94068	-1.13682
C	-4.30600	-4.63884	1.35521	C	0.60878	-1.80592	4.40765	H	6.45193	4.90659	1.27205
C	-4.30577	-4.02470	2.66745	C	-0.61044	-2.43818	4.09304	H	6.45171	3.96424	3.14484
C	-3.08878	-3.54615	3.19143	C	1.84302	-4.69708	-0.76607	H	6.45037	2.05748	4.61926
C	-3.08835	-2.43838	4.09725	C	3.08605	-4.54911	-1.46452				
C	-4.30456	-1.82858	4.46287	C	3.08617	-3.90760	-2.74366				
C	-5.50245	-2.54226	4.17714	C	1.84335	-3.43609	-3.27976				
C	-5.50304	-3.60164	3.31041	C	1.84363	-2.32578	-4.13865				
C	-1.84518	-1.78991	4.39484	C	3.08668	-1.68808	-4.45853				
C	-1.84469	-0.42533	4.72449	C	3.08728	-0.28825	-4.75651				
C	-3.08728	0.28810	4.75666	C	1.84467	0.42522	-4.72437				
C	-4.30412	-0.42000	4.80297	C	1.84514	1.78981	-4.39486				
C	-3.08665	1.68795	4.45864	C	3.08830	2.43823	-4.09747				
C	-4.30292	2.35460	4.21184	C	3.08874	3.54591	-3.19179				
C	-5.50074	1.68520	4.59021	C	1.84599	3.96815	-2.61564				
C	-5.50150	0.34625	4.87502	C	1.84626	4.56342	-1.34412				
C	-1.84359	2.32575	4.13869	C	3.08943	4.73480	-0.65123				
C	-1.84332	3.43617	3.27974	C	3.08935	4.71503	0.77993				
C	-3.08613	3.90768	2.74364	C	1.84624	4.52505	1.46782				
C	-4.30268	3.50095	3.32582	C	1.84602	3.89536	2.72250				
C	-3.08602	4.54915	1.46452	C	3.08869	3.45735	3.28692				
C	-4.30251	4.77103	0.78977	C	3.08828	2.32531	4.16220				
C	-5.50013	4.64931	1.54922	C	1.84511	1.66900	4.44198				
C	-5.50018	4.03644	2.77316	C	1.84455	0.29588	4.73464				
C	-1.84300	4.69710	0.76606	C	3.08718	-0.41810	4.74765				
C	-1.84304	4.71634	-0.63770	C	3.08664	-1.80946	4.41172				
C	-3.08615	4.58708	-1.33984	C	1.84358	-2.43829	4.07413				
C	-4.30260	4.79082	-0.65911	C	4.30253	-4.77102	-0.78975				
C	-3.08629	3.98108	-2.63604	C	5.50015	-4.64933	-1.54919				
C	-4.30280	3.59047	-3.22921	C	5.50021	-4.03640	-2.77316				
C	-5.50036	4.11005	-2.66200	C	4.30272	-3.50088	-3.32585				
C	-5.50036	4.68913	-1.42154	C	4.30296	-2.35469	-4.21180				
C	-1.84337	3.52463	-3.18502	C	5.50078	-1.68543	-4.59006				
C	-1.84361	2.43831	-4.07403	C	5.50150	-0.34652	-4.87482				
C	-3.08667	1.80951	-4.41157	C	4.30409	0.41985	-4.80289				
C	-4.30291	2.46894	-4.14650	C	4.30448	1.82845	-4.46304				
C	-3.08717	0.41814	-4.74753	C	5.50239	2.54214	-4.17738				
C	-4.30402	-0.28852	-4.81304	C	5.50303	3.60156	-3.31051				
C	-5.50137	0.47967	-4.86440	C	4.30576	4.02458	-2.66763				
C	-5.50071	1.80992	-4.54285	C	4.30600	4.63889	-1.35523				
C	-1.84454	-0.29583	-4.73455	C	5.50343	4.86053	-0.61804				
C	-1.84509	-1.66882	-4.44205	C	5.50337	4.84147	0.75064				
C	-3.08826	-2.32510	-4.16228	C	4.30580	4.60016	1.48116				
C	-4.30447	-1.70572	-4.51104	C	4.30559	3.95016	2.77596				
C	-3.08867	-3.45727	-3.28693	C	5.50295	3.50937	3.40675				
C	-4.30558	-3.95009	-2.77596	C	5.50226	2.42691	4.24456				
C	-5.50294	-3.50931	-3.40673	C	4.30449	1.70587	4.51102				
C	-5.50225	-2.42684	-4.24452	C	4.30403	0.28861	4.81309				
C	-1.84600	-3.89530	-2.72251	C	5.50138	-0.47959	4.86448				
C	-1.84622	-4.52498	-1.46784	C	5.50069	-1.80984	4.54299				
C	-3.08934	-4.71493	-0.77994	C	4.30288	-2.46888	4.14662				
C	-4.30578	-4.60008	-1.48117	H	-6.44852	4.94616	1.11525				
C	-5.50341	-4.86043	0.61805	H	-6.44884	3.86683	3.27019				
C	-5.50335	-4.84136	-0.75064	H	-6.44860	2.21026	4.55075				
C	-0.61118	-4.71219	-0.77805	H	-6.45027	-0.14813	5.05211				
C	0.60794	-4.54472	-1.46440	H	-6.45068	-2.18328	4.56180				
C	0.60819	-3.90433	-2.73996	H	-6.45157	-0.404985	3.03680				
C	-0.61081	-3.45423	-3.28482	H	-6.45215	-4.94058	1.13682				
C	-0.61037	-2.32498	-4.15772	H	-6.45190	-4.90645	-1.27204				
C	0.60894	-1.68430	-4.45464	H	-6.45170	-3.96420	-3.14479				
C	0.60948	-0.28835	-4.75192	H	-6.45037	-2.05748	-4.61917				
C	-0.60932	0.41817	-4.74255	H	-6.45012	-0.00943	-5.05494				
C	-0.60881	1.80591	-4.40754	H	-6.44881	2.33345	-4.48952				
C	0.61039	2.43811	-4.09309	H	-6.44917	3.95416	-3.16327				
C	0.61080	3.54290	-3.18980	H	-6.44866	4.97402	-0.97949				
C	-0.60817	3.97777	-2.63271	H	6.45013	0.00952	5.05497				
C	-0.60797	4.58294	-1.34006	H	6.44876	-2.33332	4.48967				
C	0.61119	4.73213	-0.64941	H	6.44916	-3.95425	3.16315				
C	0.61120	4.71226	0.77803	H	6.44863	-4.97387	0.97961				

C	-0.68991	5.64130	0.00000	C	-4.31345	-1.33809	-4.51884	C	1.83421	-1.97902	-4.18140
C	2.88097	4.45569	0.00000	C	-3.09732	-3.20551	-3.48076	C	3.07512	-1.30793	-4.43157
C	3.57322	3.21902	0.00000	C	-4.31582	-3.74896	-3.02711	C	3.07300	0.11284	-4.60375
C	2.85668	1.98256	0.00000	C	-5.51366	-3.24752	-3.61088	C	1.82976	0.82056	-4.51821
C	4.99759	3.21103	0.00000	C	-5.51195	-2.08303	-4.33203	C	1.82619	2.16704	-4.12195
C	5.71829	4.43537	0.00000	C	-1.85476	-3.70481	-2.96700	C	3.06871	2.80123	-3.79467
C	5.00808	5.63551	0.00000	C	-1.85638	-4.46582	-1.78645	C	3.06595	3.86772	-2.84076
C	3.62468	5.64405	0.00000	C	-3.10089	-4.70658	-1.11639	C	1.82070	4.26211	-2.24828
C	7.15884	4.41150	0.00000	C	-4.31773	-4.52247	-1.80132	C	4.28672	3.75192	3.10415
C	7.83823	3.24432	0.00000	C	-3.09988	-4.84074	0.30820	C	5.48866	3.25368	3.68311
C	7.14317	1.97949	0.00000	C	-4.31577	-4.79076	1.01811	C	5.49317	2.09158	4.40809
C	5.70308	1.98015	0.00000	C	-5.51624	-4.95250	0.26886	C	4.29645	1.34676	4.60787
H	-7.68511	5.36191	0.00000	C	-5.51722	-4.82160	-1.09433	C	4.29984	-0.09216	4.78522
H	7.68511	5.36191	0.00000	C	-1.85396	-4.72106	1.00749	C	5.50004	-0.85802	4.77002
C	7.82314	0.78510	0.00000	C	-1.85172	-4.20157	2.31135	C	5.50039	-2.16254	4.35297
C	3.56162	0.76317	0.00000	C	-3.09377	-3.81835	2.91685	C	4.30056	-2.79507	3.91977
C	4.99399	0.76191	0.00000	C	-4.31250	-4.26551	2.36886	C	4.29845	-3.86217	2.93874
H	-8.91809	-1.65735	0.00000	C	-3.09256	-2.77237	3.89327	C	5.49643	-4.35447	2.34662
H	-8.91032	0.78318	0.00000	C	-4.30962	-2.19358	4.30563	C	5.49586	-4.85997	1.07410
H	-8.92426	3.22930	0.00000	C	-5.50807	-2.88838	3.97679	C	4.29665	-4.90971	0.30699
H	-8.95688	-4.09120	0.00000	C	-5.50954	-3.88925	3.04164	C	4.29704	-4.77229	-1.13546
H	-7.74152	-6.24952	0.00000	C	-1.84923	-2.14357	4.23014	C	5.49734	-4.56808	-1.87411
H	-5.29972	-6.30156	0.00000	C	-1.85019	-0.80834	4.66312	C	5.49633	-3.82564	-3.02446
H	-3.35305	-6.30682	0.00000	C	-3.09444	-0.10230	4.75724	C	4.29567	-3.23528	-3.51271
H	-0.95839	-6.30961	0.00000	C	-4.31062	-0.81409	4.75097	C	4.29389	-1.99449	-4.26130
H	0.95839	-6.30961	0.00000	C	-3.09724	1.31807	4.57975	C	5.49102	-1.29083	-4.57425
H	3.35305	-6.30682	0.00000	C	-4.31617	2.00134	4.39852	C	5.48888	0.06880	-4.74158
H	5.29972	-6.30156	0.00000	C	-5.51267	1.29969	4.71954	C	4.28965	0.82379	-4.60594
H	7.74152	-6.24952	0.00000	C	-5.50997	-0.05944	4.89041	C	4.28734	2.21059	-4.18560
H	8.95688	-4.09120	0.00000	C	-1.85600	1.98456	4.31525	C	5.48551	2.90968	-3.86459
H	8.91809	-1.65735	0.00000	C	-1.86013	3.17253	3.56633	C	5.48379	3.92503	-2.94580
H	8.91032	0.78318	0.00000	C	-3.10547	3.68994	3.08059	C	4.28281	4.31162	-2.28570
H	8.92426	3.22930	0.00000	C	-4.32049	3.22667	3.62393	C	1.45766	1.11854	-0.75801
H	-5.55508	6.57405	0.00000	C	-5.52602	4.53609	1.96781	C	2.12548	-0.09688	-0.62784
H	-3.12180	6.60274	0.00000	C	-5.52186	3.80923	3.12869	C	1.39501	-1.28360	-0.62200
H	-1.19635	6.59801	0.00000	C	-0.62743	3.69218	3.06927	C	0.00878	-1.25326	-0.76426
H	1.19635	6.59801	0.00000	C	0.59407	3.19478	3.56555	C	-0.67097	-0.04237	-0.91839
H	3.12180	6.60274	0.00000	C	0.59867	1.98695	4.32633	C	0.07071	1.14136	-0.89799
H	5.55508	6.57405	0.00000	C	-0.61889	1.31983	4.56710	H	3.20626	-0.12003	-0.52638
				C	-0.61584	-0.09674	4.74303	H	1.90816	-2.23422	-0.50769
				C	0.60473	-0.79740	4.67126	H	-0.56097	-2.17966	-0.75891
				C	0.60532	-2.15497	4.23168	C	-2.17110	-0.01315	-1.06919
				C	-0.61416	-2.76568	3.87821	H	-0.45061	2.09041	-0.99362
				C	-0.61534	-3.81090	2.90622	H	-2.49414	0.87636	-1.62028
				C	0.60261	-4.21202	2.32202	H	-2.53095	-0.89939	-1.60328
				C	0.60052	-4.74805	0.99887	H	-2.66456	0.00572	-0.09096
				C	-0.61997	-4.85446	0.30171	H	2.01750	2.05030	-0.75207
				C	-0.62056	-4.73222	-1.12262	H	-6.46263	-3.72730	-3.40004
				C	0.59931	-4.50547	-1.79365	H	-6.45971	-1.68113	-4.67147
				C	0.60020	-3.72276	-2.98961	H	-6.46311	0.38793	-4.92415
				C	-0.61818	-3.20694	-3.47608	H	-6.47299	2.68416	-4.20218
				C	-0.61853	-1.98009	-4.20583	H	-6.48244	4.21987	-2.77162
				C	0.59966	-1.30853	-4.42451	H	-6.48311	5.07663	-0.52095
				C	0.59732	0.10757	-4.59334	H	-6.47608	4.87141	1.56773
				C	-0.62291	0.80878	-4.54371	H	-6.46902	3.59222	3.60929
				C	-0.62645	2.17618	-4.13582	H	-6.46229	1.82255	4.72942
				C	0.58992	2.80079	-3.79566	H	-6.45805	-0.56579	5.03098
				C	0.58584	3.87002	-2.84891	H	-6.45631	-2.55928	4.38630
				C	-0.63533	4.26890	-2.26666	H	-6.45871	-4.31913	2.74232
				C	1.82665	3.69308	3.04751	H	-6.46523	-5.06980	0.77941
				C	3.07191	3.20632	3.56476	H	-6.46640	-4.83861	-1.61786
				C	3.07696	1.99285	4.32379	H	6.43526	2.57165	-4.26309
				C	1.83596	1.31074	4.54539	H	6.43195	4.35607	-2.64506
				C	1.83908	-0.08286	4.71741	H	6.42694	5.12862	-0.68975
				C	3.08314	-0.79344	4.66738	H	6.42707	4.87369	1.70562
				C	3.08360	-2.15591	4.22988	H	6.43586	3.73363	3.46492
				C	1.84005	-2.76138	3.85280	H	6.44368	1.69151	4.74208
				C	1.83841	-3.79149	2.89891	H	6.44957	-0.38296	4.98909
				C	3.08071	-4.21750	2.32526	H	6.45070	-2.67500	4.25690
				C	3.07886	-4.75270	0.99809	H	6.44520	-4.23632	2.85741
				C	1.83558	-4.84520	0.28915	H	6.44370	-5.12105	0.61711
				C	1.83523	-4.72413	-1.11136	H	6.44627	-4.90471	-1.47248
				C	3.07921	-4.49810	-1.78884	H	6.44487	-3.59967	-3.49811
				C	3.07866	-3.71439	-2.98726	H	6.44043	-1.81399	-4.58659
				C	1.83473	-3.18725	-3.46544	H	6.43717	0.57472	-4.88221

Toluene-graphene, CPCM	C 5.13393 0.75123 -0.19645	C 5.88032 4.42157 -0.22452	C -1.61952 5.46871 4.51929
	C 5.83626 -0.48273 -0.16182	C 5.17744 5.62654 -0.26481	C -2.82535 5.37399 3.87625
	C 7.27297 -0.48043 -0.11337	C 3.79363 5.64315 -0.30009	C -0.58672 1.87325 4.65118
	C 7.96408 0.75910 -0.10665	C 7.99311 3.21893 -0.14182	C 0.81287 1.97200 4.70114
	C 7.29018 1.95759 -0.14471	C 7.32088 4.39009 -0.18097	C 1.42943 3.25959 4.56776
	C 5.85032 1.96574 -0.18947	H -7.51935 5.41522 -0.20239	C 0.66174 4.42920 4.73503
	C 5.13041 -1.70497 -0.17470	H 7.85288 5.33697 -0.17956	C 2.73725 3.34145 3.99180
	C 5.84420 -2.93032 -0.13880	H -8.78943 -1.59562 -0.41392	C 3.25300 4.59130 3.59546
	C 7.27552 -2.91643 -0.08477	H -8.76863 0.84397 -0.33000	C 2.59310 5.75482 4.08360
	C 7.95741 -1.69195 -0.07480	H -8.76917 3.29004 -0.24964	C 1.34145 5.67675 4.63384
	C 5.15240 -4.17814 -0.15358	H -8.83978 -4.03023 -0.49283	C 3.38331 2.13308 3.56993
	C 5.89251 -5.35259 -0.10582	H -7.63272 -6.19355 -0.55887	C 4.29765 2.17982 2.50549
	C 7.29863 -5.33585 -0.05095	H -5.19206 -6.25824 -0.54013	C 4.56297 3.43441 1.86425
	C 7.98224 -4.14703 -0.04215	H -3.24922 -6.27411 -0.31341	C 4.19594 4.63952 2.49557
	C 3.69293 -1.69798 -0.22456	H -0.85758 -6.28889 -0.25252	C 4.93527 3.43781 0.48211
	C 2.98218 -2.93465 -0.24401	H 1.06295 -6.30122 -0.34431	C 4.93388 4.64604 -0.24305
	C 3.68826 -4.16880 -0.21746	H 3.45331 -6.31206 -0.25663	C 4.87901 5.85675 0.50464
	C 3.70194 0.76042 -0.24132	H 5.39839 -6.31619 -0.10778	C 4.52279 5.85347 1.82689
	C 2.98979 -0.47769 -0.25372	H 7.83730 -6.27686 -0.01521	C 5.03001 2.18620 -0.21060
	C 1.55488 -2.92603 -0.29707	H 9.06700 -4.12539 -0.00086	C 4.77534 2.14461 -1.59084
	C 0.84336 -4.15342 -0.31618	H 9.04352 -1.68998 -0.03611	C 4.42685 3.35526 -2.27528
	C 1.56990 -5.34577 -0.30728	H 9.05037 0.75133 -0.07158	C 4.67191 4.60311 -1.66823
	C 2.95200 -5.35233 -0.25903	H 9.07831 3.19864 -0.10812	C 3.58381 3.27712 -3.42931
	C 0.84456 -1.68581 -0.32981	H -5.38116 6.61811 -0.19760	C 3.00213 4.44812 -3.95482
	C 1.55715 -0.46927 -0.30702	H -2.94992 6.63590 -0.23152	C 3.53629 5.69468 -3.52025
	C -0.58878 -1.67827 -0.38997	H -1.02190 6.62410 -0.31573	C 4.34313 5.76951 -2.41634
	C -1.31136 -2.91086 -0.39543	H 1.36818 6.61222 -0.31267	C 3.11893 1.99069 -3.85896
	C -0.61416 -4.14504 -0.34849	H 3.29836 6.60501 -0.33191	C 1.88265 1.89355 -4.51771
	C 3.00436 1.98397 -0.27162	H 5.72890 6.56207 -0.26712	C 1.11478 3.08268 -4.74554
	C 1.57123 1.99233 -0.31317	C -1.85261 -1.98427 2.81800	C 1.72576 4.34791 -4.63482
	C 0.85697 0.77479 -0.32880	C -0.50541 -1.62337 2.84364	C -0.31160 2.98180 -4.80156
	C -0.57400 0.78164 -0.37319	C -0.14292 -0.28051 2.87528	C -1.10041 4.14831 -4.74403
	C -1.28758 -0.45450 -0.39413	C -1.11515 0.72594 2.88635	C -0.44438 5.39222 -4.96783
	C -2.71961 -0.44769 -0.42169	C -2.46040 0.35257 2.86091	C 0.92085 5.48882 -4.91496
	C -3.43559 -1.66008 -0.43103	C -2.82875 -0.99190 2.82920	C -0.92067 1.69523 -4.62716
	C -2.73865 -2.90393 -0.42517	H 0.26373 -2.39068 2.81081	C -2.20473 1.61512 -4.06457
	C -3.45869 -4.13010 -0.41597	H 0.90893 -0.00274 2.87407	C -2.87595 2.82174 -3.67655
	C -2.73635 -5.32117 -0.35047	C -0.71355 2.17773 2.93024	C -2.42528 4.06603 -4.16112
	C -1.35383 -5.32917 -0.31614	H -3.22704 1.12436 2.84717	C -4.04803 5.17720 -2.73103
	C -4.87372 -1.65216 -0.42198	H -3.88048 -1.26238 2.78901	C -3.15751 5.22325 -3.77126
	C -5.60199 -2.86936 -0.44065	H -1.49576 2.81715 2.51054	C -2.70283 0.34850 -3.63396
	C -4.92346 -4.12417 -0.45700	H -0.53008 2.50387 3.95980	C -2.05063 -0.83548 -4.03304
	C -5.56674 -0.42306 -0.38927	H 0.20677 2.34547 2.36185	C -0.74497 -0.75371 -4.60457
	C -4.85013 0.80291 -0.36741	H -2.13680 -3.03164 2.76971	C -0.13732 0.50917 -4.75653
	C -3.41765 0.79659 -0.38456	Toluene-convex surface of SWCNT, CPCM	
	C -2.70675 2.01263 -0.35914	C -3.66701 -5.81848 -1.82264	C 1.28569 0.60984 -4.70045
	C -1.27366 2.00670 -0.36289	C -3.33646 -4.60549 -2.49153	C 2.05092 -0.55555 -4.49571
	C -0.55857 3.24316 -0.34552	C -3.70060 -3.39938 -1.86033	C 3.30810 -0.45679 -3.82598
	C 0.86956 3.23649 -0.33128	C -4.06985 -3.40076 -0.47713	C 3.75512 0.80466 -3.38408
	C -7.03392 -2.84055 -0.44701	C -4.07540 -4.60928 0.24760	C 4.59606 0.88264 -2.23292
	C -7.75454 -4.06327 -0.48668	C -4.02484 -5.82009 -0.50071	C 4.96036 -0.30312 -1.56424
	C -7.08348 -5.25877 -0.52112	C -3.43779 -2.14577 -2.50466	C 5.21977 -0.26085 -0.16086
	C -5.67657 -5.29023 -0.50664	C -3.87206 -0.92658 -1.90148	C 5.10565 0.96519 0.52456
	C -7.70271 -1.60932 -0.41399	C -4.22807 -0.92776 -0.52013	C 4.73414 0.96173 1.90314
	C -7.00397 -0.40567 -0.38018	C -4.16293 -2.14878 0.21483	C 4.48894 -0.26734 2.54770
	C -7.68179 0.84039 -0.33879	C -3.62975 0.30194 -2.54896	C 3.55903 -0.31489 3.62988
	C -6.99412 2.03137 -0.30871	C -4.02833 1.52240 -1.92705	C 2.90702 0.86871 4.02997
	C -5.55362 2.02423 -0.32423	C -4.37802 1.51933 -0.56855	C 1.60274 0.78697 4.60488
	C -4.84158 3.25193 -0.29883	C -4.33862 0.29780 0.16391	C 0.99532 -0.47580 4.75756
	C -3.41674 3.25286 -0.31728	C -3.80524 2.77441 -2.58948	C -0.42781 -0.57634 4.70704
	C -2.71873 4.48690 -0.29909	C -4.26965 3.97117 -2.00801	C -1.19335 0.58936 4.50468
	C -1.26116 4.47789 -0.32417	C -4.64563 3.96569 -0.60684	C -2.45185 0.49098 3.83753
	C -5.55655 4.47953 -0.25610	C -4.52229 2.76683 0.12183	C -2.89853 -0.77003 3.39351
	C -6.99788 4.46311 -0.23741	C -4.27077 2.80920 1.52926	C -3.73653 -0.84710 2.24014
	C -7.68340 3.29932 -0.26304	C -4.13440 4.05081 2.18205	C -4.08987 0.33908 1.56724
	C -3.45612 5.67929 -0.25387	C -4.58540 5.20719 1.48395	C -2.52634 -2.09997 -3.57139
	C -4.84014 5.67715 -0.23278	C -4.83391 5.16525 0.13691	C -1.87932 -3.30861 -3.99070
	C 1.58559 4.46380 -0.31925	C -3.88465 1.60188 2.19827	C -0.57080 -3.22660 -4.56514
	C 0.85862 5.65735 -0.32070	C -3.06275 1.67854 3.33379	C 0.04549 -1.93871 -4.69792
	C -0.52195 5.66414 -0.32054	C -2.62683 2.96391 3.79531	C 1.44487 -1.83945 -4.64359
	C 3.04321 4.45818 -0.29706	C -3.28058 4.13092 3.35123	C 2.22423 -3.02830 -4.45725
	C 3.72780 3.21699 -0.26527	C -1.36596 3.06270 4.46569	C 3.48455 -2.92914 -3.78592
	C 5.15205 3.20090 -0.22665	C -0.78315 4.32768 4.68088	C 3.92098 -1.64403 -3.32395

C	5.25981	-1.48432	0.57288	H	-7.59102	2.36019	1.32250	C	-5.47882	-2.09772	-4.37332
C	4.89424	-1.48777	1.92857	H	-7.11456	-3.24717	-0.43009	C	-1.85051	-4.49497	-1.80222
C	4.66643	-2.73945	2.58950	H	-8.26490	-2.68796	-1.65742	C	-3.10193	-4.73378	-1.14398
C	3.73379	-2.78715	3.67405	H	-6.53493	-2.42628	-1.88790	C	-4.31151	-4.54900	-1.84137
C	3.06158	-1.58134	4.06098	H	-7.67765	2.21259	-1.15528	C	0.61835	-3.74897	-2.97919
C	1.77842	-1.66180	4.62570					C	0.60515	-4.53077	-1.78229
C	1.16984	-2.94833	4.80099					C	-0.62158	-4.75716	-1.12358
C	-0.25674	-3.04922	4.74871					C	-0.63638	-4.87152	0.30171
C	-1.02525	-1.85994	4.52434					C	-1.87803	-4.73443	0.99352
C	-2.26280	-1.95662	3.86770					C	-3.11632	-4.85994	0.28158
C	-2.72780	-3.24263	3.43622					C	-4.33970	-4.80419	0.97807
C	-3.57081	-3.31961	2.28169					C	-5.53228	-4.97095	0.21712
C	-3.91548	-2.10810	1.59650					C	-5.51861	-4.84623	-1.14646
C	-2.39401	-4.55831	-3.59187					C	-1.88997	-4.20414	2.29323
C	-1.73284	-5.72212	-4.07780					C	-3.13839	-3.81543	2.88193
C	-0.48109	-5.64397	-4.62773					C	-4.35115	-4.26683	2.32414
C	0.19775	-4.39592	-4.73014					C	0.57622	-4.75901	1.01150
C	1.64239	-4.29344	-4.67419					C	0.56392	-4.21440	2.33113
C	2.47968	-5.43395	-4.51414					C	-0.66022	-3.80884	2.89882
C	3.68532	-5.33902	-3.87106					C	-0.66923	-2.75657	3.86321
C	4.13916	-4.09619	-3.34418					C	-1.90767	-2.13133	4.19695
C	4.99407	-4.01677	-2.17621					C	-3.14751	-2.76169	3.85006
C	5.43932	-5.17551	-1.47815					C	-4.36866	-2.17934	4.24484
C	5.68898	-5.13479	-0.13194					C	-5.56380	-2.87554	3.90711
C	5.51048	-3.93304	0.61080					C	-5.55543	-3.88379	2.97990
C	5.13208	-3.93681	2.01014					C	-1.91256	-0.79370	4.62276
C	4.91081	-5.14257	2.73429					C	-3.15720	-0.08645	4.70066
C	4.01810	-5.18831	3.77210					C	-4.37374	-0.79759	4.68341
C	3.28327	-4.03139	4.15863					C	0.54667	-2.14438	4.22666
C	1.95882	-4.11464	4.74159					C	0.54214	-0.78424	4.65832
C	1.30339	-5.35900	4.96504					C	-0.67867	-0.08255	4.71347
C	-0.06188	-5.45557	4.91450					C	-0.67873	1.33365	4.53451
C	-0.86774	-4.31443	4.63759					C	-1.91257	1.99937	4.26966
C	-2.14550	-4.41415	3.96005					C	-3.15701	1.33369	4.52109
C	-2.67997	-5.66041	3.52470					C	-4.37347	2.01790	4.32693
C	-3.48708	-5.73414	2.42090					C	-5.57383	1.31716	4.63488
C	-3.81530	-4.56707	1.67336					C	-5.57400	-0.04180	4.80753
H	3.03192	6.73397	3.92912					C	0.54185	1.99979	4.30646
H	0.83021	6.59640	4.89464					C	3.01999	2.00407	4.33059
H	-1.26145	6.45009	4.80855					C	1.77623	1.32283	4.53925
H	-3.38036	6.28334	3.67538					C	1.77646	-0.07029	4.71534
H	-4.63629	6.16363	1.99207					C	3.02051	-0.78190	4.68228
H	-5.07450	6.08982	-0.37564					C	3.02485	-2.14705	4.25300
H	-4.50172	6.10280	-2.39517					C	1.78512	-2.75413	3.86581
H	-2.93817	6.18335	-4.22426					C	1.79342	-3.79077	2.91912
H	-1.02511	6.30143	-5.07521					C	3.04176	-4.22130	2.36235
H	1.37468	6.47083	-4.98457					C	3.05442	-4.76330	1.03809
H	3.22324	6.61638	-3.99744					C	1.81903	-4.85775	0.31581
H	4.64237	6.74730	-2.05649					C	1.83393	-4.74468	-1.08503
H	5.01506	6.80998	0.00672					C	3.08543	-4.51992	-1.74915
H	4.38876	6.80435	2.32977					C	3.09720	-3.73706	-2.94811
H	-2.36672	-6.58257	4.00090					C	1.85798	-3.21102	-3.44014
H	-3.78613	-6.71167	2.06011					C	1.86456	-1.99574	-4.14401
H	-4.16581	-6.77282	-0.00308					C	3.10774	-1.32316	-4.37848
H	-3.53632	-6.76985	-2.32553					C	3.10803	0.09740	-4.55120
H	-2.17076	-6.70138	-3.92129					C	1.86477	0.80610	-4.48288
H	0.03111	-6.56364	-4.88653					C	1.85786	2.15676	-4.10044
H	2.12289	-6.41508	-4.80577					C	3.09725	2.79374	-3.76665
H	4.24183	-6.24796	-3.67282					C	5.43899	3.26393	3.71643
H	5.48311	-6.13243	-1.98586					C	5.43512	2.10158	4.44109
H	5.92200	-6.06083	0.38122					C	4.23595	1.35757	4.62863
H	5.36831	-6.06742	2.40178					C	4.23640	-0.08086	4.81026
H	3.80010	-6.14772	4.22717					C	5.43616	-0.84750	4.81193
H	1.88434	-6.26831	5.07020					C	5.44020	-2.15452	4.40273
H	-0.51548	-6.43774	4.98356					C	4.24475	-2.78914	3.96069
C	-7.61108	1.30687	-0.55888					C	4.25284	-3.86298	2.98707
C	-7.54495	0.06727	-1.18613					C	5.45695	-4.36011	2.41136
C	-7.43248	-1.11124	-0.43961					C	5.47011	-4.87286	1.14182
C	-7.38637	-1.01546	0.95209					C	4.27951	-4.92481	0.36133
C	-7.44623	0.22611	1.58552					C	4.29599	-4.79224	-1.08148
C	-7.55865	1.39150	0.83252					C	5.50435	-4.58787	-1.80692
H	-7.56546	0.00802	-2.27198					C	5.51543	-3.84441	-2.95652
C	-7.33330	-2.44321	-1.13722					C	4.31971	-3.25438	-3.45727
H	-7.28590	-1.92137	1.54513					C	4.32500	-2.01070	-4.20069
H	-7.39226	0.28121	2.66888					C	5.52515	-1.30739	-4.50200

C 5.52520 0.05214 -4.66995
 C 4.32518 0.80785 -4.54707
 C 4.31953 2.19786 -4.13806
 C 5.51499 2.89911 -3.81151
 C 5.50473 3.92331 -2.90272
 H 3.01813 -0.07650 -0.80919
 H 1.76771 -2.21091 -0.70377
 H -0.71873 -2.19939 -0.76968
 H -0.69299 2.08616 -0.95363
 H 1.79340 2.07408 -0.89323
 H -6.43985 -3.74582 -3.45886
 H -6.42293 -1.69448 -4.72128
 H -6.42251 0.37448 -4.97591
 H -6.43876 2.67641 -4.27182
 H -6.46263 4.22957 -2.85808
 H -6.48641 5.10014 -0.61254
 H -6.50162 4.89453 1.47840
 H -6.51665 3.61218 3.51776
 H -6.52315 1.84064 4.63347
 H -6.52398 -0.54714 4.93852
 H -6.51643 -2.54258 4.30303
 H -6.50157 -4.31503 2.67307
 H -6.48654 -5.08602 0.71829
 H -6.46202 -4.86487 -1.68028
 H 6.46851 2.55634 -4.19667
 H 6.45015 4.35585 -2.59558
 H 6.42510 5.13989 -0.64407
 H 6.39933 4.88582 1.75165
 H 6.38886 3.74320 3.50855
 H 6.38188 1.70099 4.78494
 H 6.38357 -0.37177 5.03856
 H 6.39104 -2.66832 4.31972
 H 6.39997 -4.24027 2.93234
 H 6.42269 -5.13827 0.69732
 H 6.44909 -4.92361 -1.39472
 H 6.46902 -3.61665 -3.41904
 H 6.47424 -1.83128 -4.50638
 H 6.47491 0.55735 -4.80339

Benzene-graphene, CPCM

C -2.71374 -0.91935 2.89053
 C -1.73739 -1.91256 2.87277
 C -0.38682 -1.56300 2.88322
 C -0.01467 -0.22105 2.90637
 C -0.99313 0.77313 2.92287
 C -2.34195 0.42504 2.91502
 H -0.70193 1.81996 2.92311
 C -0.61059 -1.64376 -0.35075
 C 0.82319 -1.65274 -0.30572
 C 1.53292 -2.89360 -0.29139
 C 0.82043 -4.12031 -0.30954
 C -0.63730 -4.11063 -0.31426
 C -1.33413 -2.87575 -0.34891
 C 1.53635 -0.43691 -0.27602
 C 2.96922 -0.44691 -0.22903
 C 3.67211 -1.66769 -0.22606
 C 2.96068 -2.90368 -0.25768
 C 3.68183 0.79044 -0.19413
 C 5.11404 0.77997 -0.15610
 C 5.81628 -0.45449 -0.15461
 C 5.10993 -1.67605 -0.18815
 C 7.25331 -0.45349 -0.11734
 C 7.94480 0.78541 -0.08432
 C 7.27089 1.98451 -0.08678
 C 5.83080 1.99384 -0.12303
 C 2.98424 2.01433 -0.19359
 C 3.70814 3.24663 -0.15837
 C 5.13254 3.22951 -0.12481
 C 5.82356 -2.90200 -0.18446
 C 7.25536 -2.88949 -0.14607
 C 7.93771 -1.66562 -0.11418
 C 5.86104 4.44965 -0.09351
 C 7.30177 4.41706 -0.05765
 C 7.97407 3.24526 -0.05385
 C 3.66624 -4.13841 -0.25794

C 5.13118 -4.14915 -0.21693
 C 5.87142 -5.32445 -0.20599
 C 7.27810 -5.30903 -0.16881
 C 7.96211 -4.12075 -0.14032
 C 1.54595 -5.31319 -0.32584
 C 2.92867 -5.32105 -0.30165
 C 1.55104 2.02382 -0.23462
 C 0.83642 0.80733 -0.27678
 C -1.30866 -0.41945 -0.34366
 C -0.59435 0.81577 -0.32093
 C -2.74113 -0.41164 -0.36460
 C -3.45807 -1.62364 -0.36612
 C -2.76177 -2.86791 -0.36042
 C -3.48245 -4.09380 -0.34070
 C -2.76001 -5.28510 -0.28256
 C -1.37713 -5.29409 -0.26863
 C 3.02380 4.48825 -0.15699
 C 1.56629 4.49466 -0.18314
 C 0.84984 3.26784 -0.22339
 C -0.57831 3.27619 -0.25235
 C -1.29392 2.04095 -0.29550
 C -2.72691 2.04860 -0.30520
 C -3.43863 0.83311 -0.33161
 C -4.87131 0.84046 -0.32359
 C -5.58867 -0.38521 -0.33676
 C -4.89632 -1.61495 -0.35592
 C -5.62525 -2.83191 -0.36255
 C -4.94756 -4.08727 -0.36829
 C -7.02593 -0.36682 -0.33251
 C -7.72528 -1.57042 -0.35092
 C -7.05720 -2.80231 -0.36706
 C -7.77868 -4.02494 -0.38907
 C -7.10851 -5.22126 -0.40873
 C -5.70162 -5.25343 -0.39924
 C -7.70312 0.88003 -0.31163
 C -7.01476 2.07084 -0.29349
 C -5.57421 2.06252 -0.29749
 C -4.86136 3.28984 -0.27624
 C -3.43650 3.28941 -0.27443
 C -2.73782 4.52266 -0.24590
 C -1.28034 4.51181 -0.22964
 C -0.54051 5.69651 -0.18624
 C 0.84005 5.68825 -0.16516
 C -5.57571 4.51835 -0.25381
 C -7.01717 4.50325 -0.25232
 C -7.70340 3.33976 -0.27054
 C -4.85863 5.71559 -0.23352
 C -3.47446 5.71622 -0.22952
 C 5.15822 5.65531 -0.09855
 C 3.77436 5.67286 -0.12960
 H -7.53820 5.45609 -0.23484
 H 7.83383 5.36360 -0.03287
 H -8.81199 -1.55612 -0.35211
 H -8.78999 0.88440 -0.30897
 H -8.78926 3.33147 -0.26803
 H -8.86391 -3.99124 -0.39323
 H -7.65852 -6.15605 -0.43177
 H -5.21795 -6.22214 -0.42145
 H -3.27273 -6.23780 -0.23813
 H -0.88053 -6.25401 -0.21094
 H 1.03757 -6.26781 -0.36506
 H 3.42928 -6.28101 -0.31836
 H 5.37697 -6.28769 -0.22505
 H 7.81702 -6.25055 -0.16244
 H 9.04729 -4.10015 -0.11173
 H 9.02414 -1.66468 -0.08575
 H 9.03129 0.77665 -0.05673
 H 9.05942 3.22404 -0.02618
 H -5.39930 6.65728 -0.21931
 H -2.96767 6.67262 -0.21259
 H -1.03956 6.65671 -0.16496
 H 1.34980 6.64236 -0.12862
 H 3.27910 6.63543 -0.13367
 H 5.70970 6.59059 -0.07721
 H 0.37443 -2.33783 2.84918

H 1.03670 0.05223 2.89839
 H -3.10376 1.19949 2.91307
 H -3.76544 -1.19113 2.86583
 H -2.02702 -2.95904 2.83390

Benzene-convex surface of SWCNT, CPCM

C 7.74075 0.16243 -0.64786
 C 7.80547 0.03898 0.73919
 C 7.58135 -1.19770 1.34105
 C 7.29418 -2.31288 0.55491
 C 7.22639 -2.19050 -0.83142
 C 7.45124 -0.95236 -1.43285
 H 7.10666 -3.27444 1.02401
 C 4.07972 -1.59775 0.70969
 C 3.68307 -1.50853 2.07715
 C 3.04518 -2.63072 2.68653
 C 3.13227 -3.92495 2.07601
 C 3.54110 -4.01660 0.70642
 C 3.84490 -2.80990 -0.00514
 C 3.37368 -5.22638 0.00323
 C 3.11093 -6.39730 0.77026
 C 2.71837 -6.30919 2.07952
 C 2.56154 -5.04401 2.71436
 C 2.11598 -2.41937 3.71776
 C 1.27323 -3.50199 4.13378
 C 1.59966 -4.82568 3.77694
 C 3.64147 -2.76164 -1.39358
 C 3.13023 -3.91944 -2.06720
 C 3.16079 -5.17588 -1.43017
 C 1.82807 -1.08577 4.13799
 C 2.67138 -0.02793 3.74284
 C 3.61561 -0.24292 2.69334
 C 4.22095 0.88569 2.06469
 C 4.60916 0.79650 0.71930
 C 4.40123 -0.42063 0.00777
 C 4.19581 -0.37174 -1.40262
 C 3.67924 -1.50273 -2.06424
 C 2.36348 1.31045 4.13173
 C 3.22851 2.38823 3.74790
 C 4.17472 2.17228 2.69610
 C 4.83725 3.26878 2.10936
 C 5.25053 3.17274 0.72210
 C 4.96478 1.99071 0.01140
 C 4.76174 2.03986 -1.40385
 C 4.20932 0.89286 -2.06219
 C 2.96230 3.69813 4.19346
 C 3.87837 4.71829 3.80982
 C 4.78373 4.51112 2.80279
 C 4.84026 3.27230 -2.08271
 C 5.44484 4.36073 -1.39132
 C 5.64366 4.31197 -0.03649
 C 3.44433 1.07074 -3.22560
 C 3.23132 2.39687 -3.72642
 C 4.04620 3.45756 -3.28172
 C 2.89870 -1.32217 -3.24568
 C 2.67031 -0.01795 -3.72814
 C 1.46722 0.26056 -4.44405
 C 1.07493 1.61940 -4.63678
 C 2.02541 2.67614 -4.44463
 C 1.65606 4.01107 -4.70409
 C 2.65589 5.01087 -4.53309
 C 3.81053 4.74342 -3.84659
 C -0.28946 1.93464 -4.74016
 C -0.70014 3.30544 -4.65275
 C 0.24743 4.33631 -4.81206
 C 0.53510 -0.77580 -4.65363
 C -0.85220 -0.45498 -4.75873
 C -1.25834 0.89022 -4.65173
 C -2.55284 1.18865 -4.12897
 C -2.84025 2.52240 -3.71020
 C -1.99791 3.60455 -4.12868
 C -2.32401 4.92875 -3.77366
 C -1.47196 5.96289 -4.25556
 C -0.23004 5.67675 -4.75739

C	-3.77044	2.73527	-2.67995	C	0.38005	-4.53351	-4.49869	C	3.13118	4.74336	-0.80484
C	-3.85555	4.03026	-2.07060	C	1.60252	-4.81619	-3.77255	C	4.34901	4.61238	-1.50138
C	-3.28403	5.14838	-2.70978	C	1.92246	-6.12018	-3.29795	C	4.34703	3.94666	-2.78906
C	-3.39639	0.13150	-3.73247	C	2.67516	-6.29380	-2.16685	C	3.12711	3.45530	-3.29523
C	-4.34275	0.34804	-2.68532	H	-1.75537	7.00185	-4.13146	C	3.12103	2.30887	-4.15195
C	-4.41143	1.61466	-2.07139	H	0.42787	6.49910	-5.01421	C	1.87369	1.65660	-4.42332
C	-4.81926	1.70769	-0.70605	H	2.46592	6.02931	-4.85236	C	4.33449	1.67677	-4.48861
C	-4.57379	2.91787	0.00954	H	4.49591	5.55901	-3.64630	C	5.53777	2.39353	-4.23181
C	-4.26407	4.12347	-0.70175	H	5.65922	5.28582	-1.91427	C	5.54402	3.48943	-3.41037
C	-4.09364	5.33238	0.00165	H	6.00896	5.19996	0.46706	C	4.34345	4.67027	1.33245
C	-3.82861	6.50273	-0.76510	H	5.38703	5.34741	2.46818	C	5.54542	4.87988	0.59797
C	-3.43785	6.41373	-2.07486	H	3.79514	5.71117	4.23698	C	5.54812	4.85167	-0.77131
C	-4.36783	2.86782	1.39761	H	1.90031	6.14406	5.01586	C	4.33642	4.05710	2.64588
C	-3.85338	4.02412	2.07124	H	-0.43923	6.68540	4.82896	C	3.11452	3.58669	3.16683
C	-3.88236	5.28096	1.43511	H	-2.20826	7.09528	3.77690	C	1.87541	4.01804	2.58867
C	-5.14372	0.53014	-0.00309	H	-3.52770	7.40222	1.78567	C	0.63582	3.60050	3.15953
C	-4.93420	0.47927	1.40830	H	-3.82969	7.47634	-0.28834	C	4.32532	0.25526	-4.77343
C	-4.40732	1.60808	2.06698	H	-3.14175	7.31964	-2.59147	C	3.10299	-0.44240	-4.70319
C	-3.62462	1.42574	3.24696	H	1.48290	-6.99268	-3.76781	C	1.86469	0.27971	-4.69783
C	-2.82567	2.50843	3.72243	H	2.80612	-7.29762	-1.77901	C	0.62464	-0.42615	-4.70054
C	-3.06919	3.84146	3.25439	H	3.11505	-7.37106	0.29374	C	-0.58996	0.28779	-4.71860
C	-2.32838	4.91896	3.77944	H	2.42389	-7.21576	2.59596	C	-1.83001	-0.41750	-4.68765
C	-2.64726	6.22333	3.30554	H	1.02933	-6.89920	4.12989	C	-3.06837	0.30330	-4.73001
C	-3.39769	6.39815	2.17312	H	-1.15496	-6.39739	5.01022	C	-4.29034	-0.39706	-4.77353
C	-1.64337	2.23427	4.42826	H	-3.19306	-5.92607	4.85308	C	-5.48407	0.37500	-4.85425
C	-0.70632	3.29388	4.66290	H	-5.22380	-5.45501	3.64867	C	-5.47523	1.71796	-4.58540
C	-1.10726	4.63580	4.50761	H	-6.37753	-5.18598	1.91515	C	0.61433	-1.81263	-4.36042
C	-3.39520	0.12062	3.72617	H	-6.72901	-5.10033	-0.46543	C	-0.60978	-2.43722	-4.04864
C	-2.19299	-0.15834	4.44360	H	-6.12204	-5.24031	-2.46696	C	-1.83988	-1.78076	-4.35269
C	-1.26137	0.87788	4.65572	H	-4.52613	-5.60506	-4.23200	C	-3.08803	-2.42180	-4.06032
C	0.12578	0.55734	4.76502	H	-2.62882	-6.04156	-5.00117	C	-4.30025	-1.80509	-4.42901
C	1.08928	1.60324	4.64330	H	-0.28954	-6.58336	-4.81531	C	0.62631	2.49361	4.06074
C	0.68416	2.97253	4.77219	H	7.62349	-1.29152	2.42199	C	-0.59811	1.86869	4.37052
C	1.64725	3.99965	4.72413	H	6.98622	-3.05616	-1.44158	C	1.84471	-2.45273	-4.02524
C	1.18770	5.33540	4.90139	H	7.38765	-0.85394	-2.51252	C	3.09266	-1.83218	-4.36172
C	-0.14283	5.64313	4.79608	H	7.90101	1.13021	-1.11454	C	3.10499	2.47768	4.07118
C	0.53234	-0.78779	4.65760	H	8.01630	0.91143	1.35106	C	1.85653	1.83727	4.36503
C	-0.02567	-3.20328	4.65550					C	4.30503	-2.49959	-4.09690
C	-0.43664	-1.83247	4.74294					C	5.50899	-1.84999	-4.49135
C	-1.80071	-1.51715	4.63618					C	5.51898	-0.51983	-4.81724
C	-2.75092	-2.57352	4.44291					C	4.31717	1.86028	4.43870
C	-3.95671	-2.29377	3.72473					C	5.52150	2.56576	4.15680
C	-4.17099	-0.96739	3.22472					C	5.53096	3.62646	3.29030
C	-4.94110	-0.78797	2.06471					C	-0.60846	0.48127	4.70603
C	-5.49594	-1.93494	1.40752					C	0.60627	-0.23246	4.72217
C	-5.70599	-1.88384	-0.00742					C	1.84641	0.47290	4.69594
C	-5.35454	-0.68811	-0.71597					C	3.08473	-0.24824	4.73551
C	-4.95348	-0.77963	-2.05873					C	4.30684	0.45173	4.78150
C	-4.90428	-2.06641	-2.68903					C	-3.08693	0.49702	4.70624
C	-3.95537	-2.28352	-3.73851					C	-1.84844	-0.22475	4.69892
C	-3.08931	-1.20689	-4.12146					C	-1.85698	-1.60078	4.41984
C	-1.81581	-1.50053	-4.63445					C	-0.62545	-2.26855	4.14750
C	-1.41125	-2.86992	-4.76301					C	0.59738	-1.63114	4.43754
C	-0.02061	-3.19165	-4.65581					C	1.82911	-2.28413	4.13374
C	0.91713	-2.13208	-4.42469					C	3.07568	-1.65062	4.44964
C	2.10032	-2.40574	-3.72008					C	4.28888	-2.32776	4.21511
C	2.34424	-3.73811	-3.24983					C	5.49152	-1.66295	4.58750
C	0.74623	-5.86033	4.25564					C	5.50038	-0.32079	4.86038
C	-0.49638	-5.57476	4.75605					C	-0.63116	-3.41364	3.29460
C	-0.97360	-4.23418	4.81210					C	0.58641	-3.87772	2.75808
C	-2.38194	-3.90851	4.70273					C	1.82363	-3.40810	3.29244
C	-3.38231	-4.90786	4.53268					C	3.06513	-3.89637	2.76807
C	-4.53721	-4.64004	3.84702					C	4.28340	-3.48807	3.34645
C	-4.77232	-3.35422	3.28172					C	-5.49324	1.90422	4.49385
C	-5.56802	-3.16872	2.08428					C	-5.50317	0.57351	4.81731
C	-6.16872	-4.25934	1.39287					C	-4.30914	-0.20110	4.77296
C	-6.36928	-4.21063	0.03889					C	-4.31766	-1.62184	4.48502
C	-5.98372	-3.06813	-0.71868					C	-3.10395	-2.25278	4.14684
C	-5.56837	-3.16309	-2.10424					C	-3.10935	-3.40038	3.29169
C	-5.51559	-4.40524	-2.79861					C	-1.86822	-3.85748	2.73841
C	-4.60819	-4.61280	-3.80318					C	-1.86995	-4.50809	1.49414
C	-3.68953	-3.59356	-4.18363					C	-0.63460	-4.71288	0.80873
C	-2.37475	-3.89657	-4.71326					C	0.58468	-4.54243	1.49475
C	-1.91591	-5.23291	-4.88871					C	1.82091	-4.71285	0.80166
C	-0.58543	-5.54089	-4.78404					C	3.06399	-4.55926	1.49997

C	4.28153	-4.79588	0.83158	C	5.71749	-0.42846	-0.10608	H	7.71920	5.39629	-0.05831
C	5.47960	-4.67025	1.59097	C	7.15480	-0.42271	-0.09668	H	-8.90956	-1.57448	-0.14538
C	5.48036	-4.03884	2.80642	C	7.84309	0.81827	-0.08555	H	-8.89478	0.86564	-0.08105
C	-0.63154	-4.74823	-0.61890	C	5.01473	-1.65241	-0.11877	H	-8.90123	3.31271	-0.02062
C	0.59022	-4.60932	-1.30794	C	3.57658	-1.64889	-0.13049	H	-8.95531	-4.00847	-0.21283
C	1.82350	-4.74583	-0.60224	C	2.87048	-0.42996	-0.12585	H	-7.74455	-6.16977	-0.27746
C	3.06963	-4.62105	-1.30069	C	3.57922	0.80987	-0.10978	H	-5.30436	-6.22959	-0.28515
C	4.28437	-4.82844	-0.61775	C	2.87822	2.03176	-0.10073	H	-3.35516	-6.24307	-0.24966
C	-5.52063	-2.33927	4.22912	C	3.59847	3.26637	-0.08657	H	-0.96370	-6.25270	-0.23735
C	-5.52654	-3.43582	3.40867	C	5.73214	-2.87602	-0.12072	H	0.95584	-6.25889	-0.19526
C	-4.32955	-3.89312	2.78755	C	7.16422	-2.85888	-0.10954	H	3.34702	-6.26362	-0.16596
C	-4.33161	-4.56225	1.50218	C	7.84304	-1.63271	-0.09852	H	5.29617	-6.26307	-0.14077
C	-3.11355	-4.69603	0.80622	C	2.86861	-2.88732	-0.14651	H	7.73671	-6.21806	-0.12061
C	-3.11106	-4.72843	-0.62486	C	3.57806	-4.11963	-0.14817	H	8.96059	-4.06338	-0.10169
C	-1.86474	-4.57233	-1.31646	C	5.04345	-4.12535	-0.13332	H	8.92980	-1.62820	-0.09096
C	-1.85829	-3.96873	-2.58402	C	5.78774	-5.29818	-0.13229	H	8.92991	0.81279	-0.07942
C	-0.61864	-3.54817	-3.15237	C	7.19474	-5.27834	-0.12069	H	8.95128	3.26050	-0.06607
C	0.59670	-3.99591	-2.59704	C	7.87516	-4.08766	-0.11008	H	-5.52037	6.64816	0.02562
C	1.83568	-3.54421	-3.14237	C	1.43727	-0.42484	-0.13885	H	-3.08910	6.67105	0.00702
C	3.07574	-4.01028	-2.59442	C	0.72720	-1.64351	-0.15931	H	-1.15978	6.66192	-0.02605
C	4.29619	-3.62485	-3.18330	C	1.44046	-2.88242	-0.16329	H	1.22979	6.65508	-0.03792
C	5.49087	-4.15467	-2.61766	C	0.73125	-4.11124	-0.18453	H	3.15936	6.65370	-0.06401
C	5.48538	-4.73638	-1.37781	C	1.46095	-5.30191	-0.18245	H	5.59061	6.61654	-0.06011
C	-5.53095	-4.80283	0.77311	C	2.84363	-5.30503	-0.16504	H	-0.89563	-2.76003	4.05680
C	-5.52856	-4.83199	-0.59605	C	1.44467	2.03702	-0.10491	H	-1.72530	-2.11697	2.63246
C	-4.32651	-4.62292	-1.33033	C	0.73375	0.81768	-0.12464	H	-0.13808	-2.86833	2.46189
C	-4.31940	-4.00643	-2.64175	C	-0.70745	-1.63927	-0.17353	H	0.90587	-0.99033	3.79082
C	-3.09721	-3.53398	-3.16002	C	-1.42796	-2.87369	-0.19787	H	0.04935	-0.33932	2.39043
C	-5.51378	-3.57465	-3.28566	C	-0.72671	-4.10650	-0.20648	Ethane-convex surface of			
C	-5.50434	-2.51190	-4.14960	C	-1.40945	-0.41658	-0.14713	SWCNT, CPCM			
C	0.30865	-1.27751	-0.30666	C	-0.69855	0.82185	-0.12515	C	-4.35400	3.13969	3.46679
C	-1.12872	-1.26275	0.20804	C	-2.84291	-0.41297	-0.14114	C	-4.37445	4.00253	2.30228
H	-1.15902	-1.31624	1.30251	C	-3.55643	-1.62748	-0.16473	C	-3.16420	4.25890	1.62780
H	6.43675	-2.19269	4.55446	C	-2.85585	-2.87008	-0.19674	C	-1.91364	3.97755	2.26939
H	6.45283	0.16685	5.03403	C	-3.57306	-4.09779	-0.21887	C	-1.89330	3.14341	3.39856
H	6.46684	2.20236	4.54334	C	-2.84601	-5.28763	-0.23507	C	-3.12453	2.59104	3.88270
H	6.48360	4.06737	3.01952	C	-1.46327	-5.29276	-0.22753	C	-5.58230	4.34393	1.63005
H	6.49390	4.95629	1.11736	C	2.91024	4.50572	-0.07618	C	-5.59221	4.60369	0.28526
H	6.49863	4.90646	-1.28977	C	1.45245	4.50773	-0.07149	C	-4.39468	4.53960	-0.48277
H	6.49556	3.94179	-3.15507	C	0.73919	3.27847	-0.08624	C	-3.17448	4.52831	0.22186
H	6.48449	2.01486	-4.59981	C	-0.68927	3.28253	-0.07995	C	-1.93327	4.50232	-0.49478
H	6.47202	-0.03919	-5.00678	C	-1.40215	2.04520	-0.09838	C	-1.93155	4.15374	-1.85472
H	6.45424	-2.37764	-4.43448	C	-2.83577	2.04838	-0.09122	C	-3.17142	3.82269	-2.49390
H	6.44154	-4.00640	-3.11700	C	-3.54417	0.83087	-0.11114	C	-4.39301	4.17420	-1.88583
H	6.43143	-5.02917	-0.93659	C	-4.97672	0.83338	-0.10355	C	-0.69679	4.56168	0.21404
H	6.42772	-4.97801	1.16488	C	-5.68994	-0.39447	-0.12765	C	-0.68649	4.30163	1.61690
H	6.42914	-3.86838	3.30230	C	-4.99465	-1.62231	-0.15947	C	-3.15777	2.89938	-3.58721
H	-6.42435	4.06261	3.11987	C	-5.71956	-2.84126	-0.18732	C	-4.36665	2.34417	-4.05221
H	-6.41284	5.08235	0.93823	C	-5.03850	-4.09442	-0.22099	C	-5.57619	2.96918	-3.63517
H	-6.40986	5.03031	-1.16242	C	-7.12720	-0.38007	-0.12113	C	-5.58882	3.85354	-2.58928
H	-6.41251	3.92487	-3.30189	C	-7.82284	-1.58553	-0.14921	C	-1.90490	2.34133	-4.00552
H	-6.42054	2.24761	-4.55301	C	-7.15151	-2.81539	-0.18356	C	-0.67926	2.94601	-3.59438
H	-6.43657	-0.11325	-0.52090	C	-7.87003	-4.03940	-0.21566	C	-0.69304	3.86576	-2.50271
H	-6.44952	-2.14862	-4.53663	C	-7.19690	-5.23371	-0.25101	C	0.52256	4.21059	-1.87831
H	-6.46626	-4.01710	-3.01685	C	-5.79001	-5.26216	-0.25404	C	0.52060	4.56305	-0.49548
H	-6.47708	-4.90770	-1.11544	C	-7.80794	0.86467	-0.08725	C	-4.34320	1.02212	-4.64645
H	-6.48129	-4.85659	1.29195	C	-7.12328	2.05746	-0.06332	C	-3.11265	0.34132	-4.73620
H	-6.47783	-3.88931	3.15449	C	-5.68277	2.05353	-0.07270	C	-1.88226	1.06094	-4.58096
H	-6.46731	-1.96117	4.59780	C	-4.97334	3.28270	-0.05130	C	-0.63397	0.38788	-4.74345
H	-6.45629	0.09217	5.00460	C	-3.54855	3.28702	-0.06189	C	0.57242	1.10419	-4.60952
H	-6.43864	2.43154	4.43617	C	-2.85290	4.52217	-0.04263	C	0.54944	2.40588	-4.02414
H	-1.64762	-0.34877	-0.09542	C	-1.39516	4.51584	-0.05523	C	1.77575	2.98835	-3.58303
H	-1.70072	-2.11240	-0.17960	C	-0.65822	5.70297	-0.04276	C	1.76228	3.89283	-2.50972
H	0.34044	-1.27633	-1.40266	C	0.72257	5.69904	-0.05068	C	1.75762	4.59979	0.21387
H	0.86109	-0.40042	0.04313	C	-5.69113	4.50908	-0.01966	C	2.99787	4.62584	-0.50464
H	0.84613	-2.16720	0.03849	C	-7.13251	4.48959	-0.00823	C	3.00036	4.26442	-1.88977
				C	-7.81545	3.32420	-0.02911	C	4.22055	4.01213	-2.54796
				C	-4.97725	5.70813	0.00039	C	4.23478	3.07819	-3.65659
				C	-3.59299	5.71314	-0.01093	C	3.02803	2.45679	-4.03483
				C	5.04179	5.67953	-0.06675	C	3.05102	1.15205	-4.62213
				C	3.65754	5.69265	-0.06856	C	1.82098	0.42398	-4.73601
				C	-0.74719	-2.23084	3.11126	C	4.28063	0.49279	-4.81936
				C	-0.08159	-0.87629	3.33490	C	5.46458	1.28021	-4.73641
				C	-0.68232	-0.24409	3.99458	C	5.44258	2.52875	-4.17383
				C	-7.65621	5.44073	0.01793	C	4.21588	4.73016	0.19635

C	5.41134	4.78875	-0.57532	C	-4.22433	-3.40654	3.66361	C	-0.61247	-2.38357	4.09593	
C	5.41359	4.44199	-1.90020	C	-4.21053	-4.34095	2.55545	C	-0.61476	-3.50581	3.21312	
C	4.22666	4.45790	1.62056	C	-2.99072	-4.59386	1.89684	C	0.60330	-3.95256	2.66310	
C	3.01887	4.09996	2.25182	C	-2.98907	-4.95508	0.51179	C	0.60157	-4.58234	1.38192	
C	1.76798	4.34036	1.59412	C	-1.74872	-4.93250	-0.20682	C	1.83714	-4.72366	0.68109	
C	0.54094	4.04666	2.26116	C	-1.75934	-4.66748	-1.58568	C	3.08126	-4.58514	1.38071	
C	4.30944	-0.95598	-4.77436	C	-0.53204	-4.37319	-2.25204	C	4.29822	-4.79851	0.70359	
C	3.10616	-1.65021	-4.53820	C	0.69513	-4.63310	-1.60978	C	5.49739	-4.68933	1.46415	
C	1.84872	-0.97917	-4.69412	C	1.92184	-4.30640	-2.26181	C	5.49814	-4.09047	2.69588	
C	0.62755	-1.69875	-4.52601	C	3.17322	-4.58848	-1.62174	C	1.83716	-4.71723	-0.72298	
C	-0.60566	-1.03913	-4.70052	C	4.38307	-4.33128	-2.29665	C	3.08132	-4.57237	-1.42128	
C	-1.82675	-1.74945	-4.49708	C	5.59158	-4.67143	-1.62506	C	4.29823	-4.79201	-0.74611	
C	-3.08415	-1.08914	-4.69345	C	5.60230	-4.92971	-0.28009	C	0.60164	-4.56949	-1.42255	
C	-4.28704	-1.81114	-4.56228	C	-5.40421	-4.76988	1.90821	C	-0.61771	-4.73250	-0.73519	
C	-5.50092	-1.10941	-4.81065	C	-5.40281	-5.11522	0.58305	C	-0.61774	-4.73903	0.69302	
C	-5.52816	0.25931	-4.85137	C	-4.20747	-5.05692	-0.18881	C	-1.85270	-4.55385	1.38463	
C	0.65431	-2.96335	-3.86374	C	-4.21820	-4.78348	-1.61253	C	-1.85139	-3.93763	2.64617	
C	-0.55278	-3.52332	-3.39916	C	-3.01011	-4.42504	-2.24291	C	-3.09356	-3.50262	3.21539	
C	-1.80035	-2.99331	-3.84599	C	-5.42438	-4.55596	-2.33426	C	-3.09102	-2.37970	4.10244	
C	-3.03089	-3.57319	-3.39292	C	-5.44456	-3.74024	-3.43423	C	-1.84629	-1.72897	4.38887	
C	-4.25969	-3.09519	-3.89015	C	0.30894	7.94984	0.38890	C	-1.84354	-0.36062	4.70324	
C	0.56148	3.19860	3.40974	C	-0.75724	7.84014	-0.69785	C	-0.60689	0.35099	4.72483	
C	-0.64568	2.63780	3.87348	H	1.30587	8.07080	-0.04474	C	-0.60389	1.74598	4.42163	
C	1.90150	-3.47005	-3.38966	H	6.49694	-1.08244	4.94061	C	0.61691	2.38357	4.12340	
C	3.13270	-2.91825	-3.87482	H	6.44883	1.32367	4.87019	C	0.60343	-3.92806	-2.69794	
C	3.03972	3.24872	3.40238	H	6.40879	3.18289	3.89888	C	1.83966	-3.46049	-3.23698	
C	1.80925	2.66872	3.85599	H	6.37294	4.61604	1.96394	C	3.08244	-3.93318	-2.70139	
C	4.36218	-3.46800	-3.46077	H	6.35819	5.00544	-0.09386	C	4.30017	-3.52952	-3.28390	
C	5.54880	-2.90235	-4.00836	H	6.36202	4.39611	-2.42324	C	5.49825	-4.06601	-2.73185	
C	5.52353	-1.68862	-4.64248	H	6.38210	3.05057	-4.03204	C	5.49741	-4.67612	-1.50567	
C	4.26865	2.77040	3.89892	H	6.42041	0.85573	-5.02189	C	-3.09728	-4.72837	0.69441	
C	5.45338	3.41528	3.44240	H	6.46330	-1.24262	-4.94782	C	-3.09724	-4.72185	-0.73661	
C	5.43297	4.23066	2.34213	H	6.50773	-3.37680	-3.83364	C	-1.85263	-4.54099	-1.42514	
C	-0.61867	1.37267	4.53452	H	6.53746	-4.62355	-2.15252	C	-1.85126	-3.91327	-2.68097	
C	0.61484	0.71319	4.70802	H	6.55674	-5.07843	0.21183	C	-0.61460	-3.47638	-3.24394	
C	1.83582	1.42403	4.50559	H	6.55336	-4.55093	2.23985	C	-0.61226	-2.34635	-4.11672	
C	3.09337	0.76354	4.70066	H	6.53106	-2.99523	4.07803	C	0.60822	-1.70866	-4.41519	
C	4.29617	1.48581	4.57015	H	-6.52850	4.29675	2.15705	C	1.84208	-2.35090	-4.09706	
C	-3.09753	1.32289	4.54581	H	-6.54634	4.75435	-0.20667	C	3.08653	-1.71700	-4.42096	
C	-1.83969	0.65240	4.70147	H	-6.54353	4.22460	-2.23440	C	4.30236	-2.38438	-4.17245	
C	-1.81139	-0.75078	4.74134	H	-6.52160	2.66978	-4.07314	C	-4.31421	-4.61998	1.39640	
C	-0.56267	-1.43040	4.61362	H	-6.48751	0.75691	-4.93599	C	-4.31238	-3.98705	2.70034	
C	0.64343	-0.71391	4.74846	H	-6.43966	-1.64914	-4.86283	C	-1.84606	-1.68919	-4.40395	
C	1.89177	-1.38650	4.58492	H	-6.39980	-3.50793	-3.89111	C	-3.09081	-2.34242	-4.12335	
C	3.12203	-0.66697	4.74130	H	-6.36436	-4.94174	-1.95649	C	-3.09340	-3.47315	-3.24631	
C	4.35264	-1.34755	4.65085	H	-6.34998	-5.33051	0.10160	C	-4.31225	-3.96222	-2.73575	
C	5.53751	-0.58486	4.85663	H	-6.35233	-4.72368	2.43176	C	-4.31415	-4.60704	-1.43765	
C	5.51014	0.78391	4.81751	H	-6.37122	-3.38057	4.04154	C	-5.51383	-4.83959	-0.70648	
C	-0.53946	-2.73164	4.02713	H	-6.41021	-1.18530	5.03056	C	-5.51386	-4.84581	0.66308	
C	0.68912	-3.27114	3.59654	H	-6.45477	0.91281	4.95201	C	-4.30674	-1.76358	4.45996	
C	1.91451	-2.66623	4.00807	H	-6.49993	3.04659	3.83717	C	-5.50704	-2.47948	4.18735	
C	3.16739	-3.22420	3.59024	H	0.12117	8.80862	1.03935	C	-5.50996	-3.55294	3.33674	
C	4.37617	-2.66923	4.05587	H	0.32956	7.05528	1.01917	C	-4.30415	-0.35039	4.78323	
C	-5.54074	2.57313	4.01325	H	-1.74511	7.65273	-0.26604	C	-3.08541	0.35495	4.73073	
C	-5.51504	1.35960	4.64774	H	-0.81724	8.76087	-1.28492	C	-3.08242	1.75332	4.42541	
C	-4.30051	0.62782	4.78085	H	-0.54013	7.01901	-1.38820	C	-1.83792	2.38835	4.10393	
C	-4.27091	-0.82093	4.82568					C	-4.30651	-1.72318	-4.47552	
C	-3.04102	-1.47943	4.62737					C	-5.50683	-2.44146	-4.20933	
C	-3.01761	-2.78412	4.03995					C	-5.50980	-3.52245	-3.36831	
C	-1.76539	-3.31519	3.58711					C	-4.29832	2.42032	4.17600	
C	-1.75189	-4.22162	2.51520					C	-5.49876	1.75516	4.55527	
C	-0.51252	-4.54190	1.88425					C	-5.50172	0.41728	4.84812	
C	0.70277	-4.19275	2.50646					C	0.61934	3.51093	3.24769	
C	1.94146	-4.48186	1.85933					C	-0.59920	3.96143	2.70146	
C	3.18110	-4.14837	2.49774					C	-1.83563	3.49672	3.24222	
C	4.40300	-4.50025	1.89058					C	-3.07808	3.96815	2.70428	
C	5.59865	-4.17934	2.59418					C	-4.29601	3.56500	3.28671	
C	5.58581	-3.29452	3.63963					C	3.09805	3.50881	3.24967	
C	-0.51090	-4.90267	0.50284					C	1.85577	3.94741	2.68398	
C	0.70604	-4.90243	-0.20764					C	1.85716	4.57108	1.42608	
C	1.94314	-4.83697	0.50098					C	0.62202	4.75661	0.73512	
C	3.18434	-4.85842	-0.21607					C	-0.59778	4.59588	1.42251	
C	4.40484	-4.86656	0.48801					C	-1.83298	4.74549	0.72303	
C	-5.45440	-1.60910	4.74401					C	-3.07682	4.60389	1.42208	
C	-5.43199	-2.85784	4.18193					C	-4.29363	4.82286	0.74625	
Methane-concave surface of SWCNT, CPCM												

C	-5.49289	4.70830	1.50593	H	6.46690	4.95182	-1.18150	C	-7.80901	0.83640	-0.05786
C	-5.49399	4.10023	2.73315	H	6.46682	4.94092	1.22592	C	-7.12725	-0.40816	-0.07021
C	0.62206	4.76313	-0.69278	H	6.46452	4.00884	3.10725	C	-7.82186	-1.61451	-0.07965
C	-0.59770	4.60874	-1.38169	H	6.45953	2.10877	4.58730	C	-7.14946	-2.84417	-0.09204
C	-1.83294	4.75192	-0.68094	H	0.76651	-2.00347	-0.00852	C	-7.86682	-4.06920	-0.10507
C	-3.07676	4.61670	-1.38131	H	-0.75669	-1.75914	0.88443	C	-7.19259	-5.26332	-0.12096
C	-4.29361	4.82938	-0.70354	H	-0.75692	-1.75095	-0.89880	C	-5.78566	-5.29058	-0.12152
C	5.51182	2.47643	4.21078					C	-5.69511	4.48306	-0.03239
C	5.51456	3.55692	3.36912					C	-7.13652	4.46262	-0.02878
C	4.31667	3.99669	2.73708					C	-7.81852	3.29651	-0.03681
C	4.31815	4.64001	1.43812					C	-4.98221	5.68284	-0.02326
C	3.10115	4.75344	0.73694					C	-3.59792	5.68875	-0.02468
C	3.10119	4.75995	-0.69447					C	-0.73233	-1.68599	3.15098
C	1.85725	4.58393	-1.38533					H	-1.75636	-1.68278	2.77234
C	1.85593	3.97181	-2.64890					H	-7.66107	5.41359	-0.01881
C	0.61953	3.54042	-3.21660					H	7.71429	5.37972	0.01324
C	-0.59904	3.98602	-2.66641					H	-8.90860	-1.60430	-0.07805
C	-1.83543	3.52620	-3.21141					H	-8.89586	0.83663	-0.05484
C	-3.07792	3.99274	-2.66929					H	-8.90432	3.28433	-0.03359
C	-4.29581	3.59478	-3.25539					H	-8.95214	-4.03927	-0.10418
C	-5.49386	4.12479	-2.69699					H	-7.73946	-6.20011	-0.13404
C	-5.49285	4.72157	-1.46423					H	-5.29904	-6.25787	-0.13888
C	0.61715	2.42084	-4.10225					H	-3.35007	-6.26877	-0.06860
C	-0.60364	1.78591	-4.40615					H	-0.95848	-6.27618	-0.06885
C	-1.83768	2.42548	-4.08291					H	0.96074	-6.28036	-0.15474
C	-3.08216	1.79329	-4.41000					H	3.35219	-6.28319	-0.14537
C	-4.29806	2.45807	-4.15479					H	5.30120	-6.28138	-0.09749
C	5.51763	4.87305	0.70665					H	7.74176	-6.23436	-0.08295
C	5.51767	4.87927	-0.66293					H	8.96390	-4.07873	-0.06321
C	4.31824	4.65293	-1.39657					H	8.93108	-1.64354	-0.04495
C	4.31683	4.02148	-2.70135					H	8.92905	0.79744	-0.02369
C	3.09824	3.53827	-3.21842					H	8.94823	3.24501	-0.00018
C	3.09582	2.41624	-4.10677					H	-5.52618	6.62267	-0.01420
C	1.85107	1.76583	-4.39413					H	-3.09476	6.64717	-0.01653
C	1.84811	0.39661	-4.70473					H	-1.16543	6.63872	-0.01018
C	0.61129	-0.31482	-4.72325					H	1.22420	6.63344	-0.00403
C	-0.60663	0.39363	-4.72160					H	3.15352	6.63334	0.00038
C	-1.84329	-0.31814	-4.70629					H	5.58476	6.59815	0.01194
C	-3.08515	0.39764	-4.72758					H	-0.74355	-1.69563	4.24140
C	-4.30390	-0.30719	-4.78629					H	-0.21475	-2.57314	2.78082
C	-5.50147	0.46101	-4.84443					H	-0.21452	-0.79275	2.79612
C	-5.49850	1.79628	-4.53985								
C	5.51476	3.58734	-3.33721								
C	5.51205	2.51439	-4.18844								
C	4.31160	1.79915	-4.46243								
C	4.30868	0.38553	-4.78383								
C	3.08974	-0.31938	-4.72967								
C	5.50602	-0.38259	-4.84780								
C	5.50279	-1.72011	-4.55334								
C	-0.19006	-1.47489	-0.00596								
H	-0.01528	-0.39828	-0.00104								
H	-6.44114	5.00547	1.07256								
H	-6.44329	3.93609	3.23015								
H	-6.44664	2.27939	4.51153								
H	-6.45221	-0.07257	5.02630								
H	-6.45458	-2.11566	4.56800								
H	-6.45986	-4.00333	3.07204								
H	-6.46309	-4.91737	1.18178								
H	-6.46303	-4.90644	-1.22585								
H	-6.45972	-3.97519	-3.10770								
H	-6.45434	-2.07426	-4.58680								
H	-6.45196	-0.02724	-5.02691								
H	-6.44636	2.32013	-4.49143								
H	-6.44313	3.96493	-3.19544								
H	-6.44115	5.01455	-1.02814								
H	6.45631	0.06150	5.02803								
H	6.45022	-2.28533	4.48995								
H	6.44726	-3.92992	3.19439								
H	6.44573	-4.98295	1.02858								
H	6.44570	-4.97391	-1.07281								
H	6.44739	-3.90119	-3.22890								
H	6.45047	-2.24468	-4.50984								
H	6.45655	0.10677	-5.02714								
H	6.45979	2.15009	-4.56815								
H	6.46470	4.03690	-3.07126								
				H	-7.12529	2.02995	-0.04969				

C	1.11943	4.82306	0.89536	C	0.02623	-3.98228	-2.83306	C	-5.56087	-0.61740	-4.82024
C	1.20493	4.36857	2.22156	C	1.29495	-4.15782	-2.24459	C	-1.84668	-2.47673	-4.03752
C	2.49528	4.21062	2.82636	C	2.44642	-3.57163	-2.85037	C	-1.81355	-3.56261	-3.14780
C	2.66561	3.21049	3.83631	C	3.74206	-3.76453	-2.26757	C	-3.04350	-4.04349	-2.58851
C	1.53958	2.40402	4.20689	C	4.88585	-3.24602	-2.90626	C	-4.27257	-3.68851	-3.17819
C	1.75483	1.09383	4.66387	C	6.14793	-3.50664	-2.30005	C	-3.02208	-4.63725	-1.28722
C	0.64899	0.19743	4.76755	C	6.23069	-3.94861	-1.00634	C	-4.23074	-4.86527	-0.59981
C	0.87344	-1.20245	4.59890	C	-0.14325	-2.98504	-3.84103	C	-5.43486	-4.80381	-1.35787
C	-0.22615	-2.05405	4.37144	C	0.96205	-2.19921	-4.22490	C	-5.45524	-4.23481	-2.60347
C	-1.16426	3.37296	-3.08645	C	2.27985	-2.59103	-3.84189	C	-1.77164	-4.72632	-0.59114
C	-2.30524	2.66502	-3.56996	C	3.40943	-1.80691	-4.24738	C	-0.54402	-4.57413	-1.30202
C	-3.61181	2.97957	-3.07039	C	4.71399	-2.23411	-3.92973	C	-0.56448	-3.98650	-2.60272
C	-4.74451	2.33151	-3.60123	C	-4.62927	-5.64231	1.26003	C	0.64095	-3.52130	-3.16656
C	-6.01709	2.71870	-3.09250	C	-4.61448	-5.79881	-0.10056	C	0.60860	-2.41343	-4.06755
C	-6.12405	3.44070	-1.93348	C	-3.46089	-5.46220	-0.86453	C	-0.62943	-1.81298	-4.37829
C	2.32501	5.11931	0.17849	C	-3.54941	-4.99182	-2.23296	C	-0.66916	-0.42445	-4.71369
C	2.34086	4.95503	-1.24353	C	-2.42011	-4.38072	-2.81323	C	-1.92364	0.25618	-4.70521
C	1.14971	4.49994	-1.89922	C	-2.59015	-3.38077	-3.82334	C	-1.76579	-4.69009	0.81260
C	1.26012	3.75867	-3.08638	C	-1.46391	-2.57442	-4.19352	C	-3.01027	-4.57003	1.51507
C	0.11535	3.07500	-3.59555	C	-1.67900	-1.26439	-4.65106	C	-4.22472	-4.83022	0.84954
C	0.30222	1.88351	-4.35899	C	-0.57300	-0.36815	-4.75464	C	0.68071	-4.67696	-0.61287
C	-0.79735	1.03183	-4.58676	C	0.74344	-0.86697	-4.68958	C	0.68628	-4.64316	0.81363
C	-2.12153	1.49366	-4.32109	C	1.84910	0.03315	-4.75677	C	-0.53253	-4.50240	1.50480
C	-3.24522	0.63891	-4.57130	C	3.19044	-0.47126	-4.71271	C	-0.54178	-3.85829	2.77744
C	-4.55486	1.12178	-4.37711	C	4.27997	0.41117	-4.85141	C	-1.78583	-3.41453	3.31594
C	3.53567	5.29283	0.87786	C	5.58597	-0.15639	-4.84280	C	-3.01996	-3.91972	2.78950
C	3.62442	4.82203	2.24613	C	5.79568	-1.43434	-4.39708	C	-4.24438	-3.53935	3.37375
C	1.62851	1.40983	-4.59083	C	-4.79577	-4.83171	-2.90317	C	-5.43215	-4.10788	2.83208
C	2.74939	2.27884	-4.38040	C	-4.95837	-3.87497	-3.86971	C	-5.42283	-4.73201	1.61284
C	2.56187	3.47375	-3.61555	C	-3.88642	-3.01115	-4.23379	C	1.90941	-4.48610	-1.31423
C	3.68093	4.20118	-3.16336	C	-4.10857	-1.65896	-4.70707	C	1.88999	-3.90834	-2.59385
C	3.56660	4.96768	-1.93840	C	-3.02002	-0.76476	-4.73838	C	0.66724	-3.37506	3.31295
C	4.70440	5.47278	-1.24649	C	-5.41370	-1.10494	-4.84087	C	1.90922	-3.78786	2.74701
C	4.68935	5.62953	0.11401	C	-5.62911	0.23822	-4.68243	C	1.91928	-4.42664	1.49757
C	3.96197	2.84080	4.24638	C	-3.28549	7.41234	-0.56968	C	3.16369	-4.59689	0.80691
C	5.03381	3.70476	3.88227	H	-3.27280	7.28316	0.51352	C	3.15908	-4.62137	-0.62465
C	4.87093	4.66180	2.91607	H	7.18704	-3.78699	1.53327	C	4.37118	-4.49779	-1.33239
C	4.18425	1.48855	4.71945	H	6.99957	-2.52129	3.57245	C	4.35137	-3.88802	-2.64617
C	3.09581	0.59423	4.75062	H	6.72505	-0.77467	4.69953	C	3.11976	-3.45085	-3.17264
C	3.32097	-0.80940	4.58314	H	6.34587	1.58770	4.97648	C	3.08710	-2.34275	-4.07823
C	2.19747	-1.66433	4.33267	H	6.02467	3.54329	4.29125	C	1.82506	-1.72995	-4.37280
C	4.05235	1.83244	-4.67888	H	5.73840	5.22562	2.59230	C	1.78553	-0.36535	-4.70213
C	5.11940	2.75570	-4.48754	H	5.60805	5.91254	0.61519	C	0.53101	0.31446	-4.72965
C	4.93985	3.89960	-3.75620	H	5.63471	5.64012	-1.77711	C	3.14428	-3.31266	3.29784
C	4.63052	-1.29209	4.38897	H	5.80291	4.52006	-3.54380	C	4.37151	-3.78018	2.78687
C	5.70474	-0.40857	4.69467	H	6.11807	2.50945	-4.82978	C	4.38122	-4.44572	1.50011
C	5.48937	0.93456	4.85327	H	6.44611	0.45551	-5.08959	C	5.58324	-4.66226	0.76730
C	-0.03934	-3.24543	3.60782	H	6.81479	-1.79202	-4.30401	C	5.57867	-4.68767	-0.60151
C	1.24027	-3.54405	3.09839	H	7.06345	-3.25407	-2.82264	C	4.28568	-1.69843	-4.44477
C	2.38125	-2.83594	3.58168	H	7.20912	-4.03267	-0.54722	C	5.50537	-2.37551	-4.15985
C	3.68780	-3.15067	3.08214	H	-6.37030	-0.62698	5.10344	C	5.53704	-3.43249	-3.28981
C	4.82023	-2.50168	3.61296	H	-6.73941	1.62018	4.31691	C	4.24468	-0.29175	-4.79088
C	-2.48603	-3.64429	3.62933	H	-6.98804	3.08439	2.83476	C	3.00819	0.38192	-4.74432
C	-1.18445	-3.92880	3.09951	H	-7.13303	3.86671	0.56078	C	0.49282	1.71293	-4.44605
C	-1.07451	-4.66933	1.91200	H	-7.11115	3.62196	-1.52349	C	1.71111	2.39239	-4.14611
C	0.18040	-4.72468	1.23439	H	-6.92389	2.35359	-3.56091	C	2.96986	1.78453	-4.46300
C	1.35186	-4.29647	1.89052	H	-6.64942	0.60434	-4.68700	C	4.16901	2.48766	-4.23337
C	2.60127	-4.31834	1.20093	H	-6.27022	-1.75811	-4.96376	C	5.38447	1.84794	-4.60790
C	3.79949	-3.90447	1.87084	H	-5.94912	-3.71358	-4.27896	C	5.42142	0.50556	-4.87632
C	5.04185	-3.99450	1.21173	H	-5.66334	-5.39535	-2.57935	C	-1.96041	1.63133	-4.42442
C	6.20004	-3.60765	1.94431	H	-5.53330	-6.08164	-0.60161	C	-0.74257	2.32380	-4.15307
C	6.09303	-2.88714	3.10416	H	-5.55953	-5.80969	1.79074	C	-0.76993	3.46701	-3.29866
C	0.19571	-4.88867	-0.18393	H	-5.72691	-4.69114	3.55876	C	0.43909	3.95906	-2.76713
C	1.38149	-4.61883	-0.89590	H	-6.04178	-2.68091	4.84549	C	1.68448	3.51698	-3.30595
C	2.61622	-4.47965	-0.19390	H	-4.01108	6.72204	-1.00478	C	2.91702	4.03018	-2.78374
C	3.82877	-4.22611	-0.91540	H	-3.56020	8.43886	-0.81491	C	4.14182	3.64831	-3.36591
C	5.05703	-4.16065	-0.22841	H	-2.29421	7.19108	-0.96962	C	0.42768	4.61630	-1.50003
C	-5.04324	-2.92688	4.50264	C	2.90583	4.68823	-1.51306	C	1.66212	4.80982	-0.81021
C	-4.86386	-4.07057	3.77091	C	4.12005	4.94945	-0.84766	C	5.31815	4.85141	-1.61141
C	-3.60521	-4.37167	3.17733	C	5.32863	4.22287	-2.82815	C	3.322020	2.25727	-4.14826
C	-3.49136	-5.13750	1.95190	C	3.310754	-1.88054	-4.37093	C	-3.24746	3.40112	-3.28850
C	-2.26585	-5.12435	1.25668	C	-3.14700	-0.49098	-4.71080	C	-2.01442	3.88161	-2.73691
C	-2.25026	-5.28847	-0.16519	C	-4.38330	0.18200	-4.77595				

Propanamide-concave

surface of SWCNT, CPCM

C -5.52309 -1.94707 -4.49487

C -4.30558 -2.57095 -4.10061

C -3.10754 -1.88054 -4.37093

C -3.14700 -0.49098 -4.71080

C -4.38330 0.18200 -4.77595

C	-1.31783	-5.38088	-4.91115	C	-5.21999	-1.34424	-0.62113	H	1.22478	6.31988	5.01532
C	1.10533	-1.94609	-4.47091	C	-5.15288	-0.11455	0.10003	H	-1.16831	6.55615	4.89199
C	2.33026	-2.07222	-3.79648	C	-4.90935	-0.14920	1.50654	H	-2.99903	6.74338	3.88537
C	2.75173	-3.36690	-3.34638	C	-4.51757	1.03272	2.16640	H	-4.39195	6.89436	1.92721
C	2.14200	-4.52620	-3.86528	C	-4.65410	2.29241	1.50932	H	-1.92391	-6.27395	-5.01409
C	3.57765	-3.45668	-2.18107	C	-4.27778	3.49984	2.18451	H	0.46901	-6.51191	-4.89039
C	3.78035	-4.70362	-1.55679	C	-4.48029	4.74768	1.56171	H	2.29719	-6.70039	-3.87824
C	3.42475	-5.86847	-2.29483	C	-3.69104	0.94301	3.32698	H	3.68913	-6.85060	-1.91973
C	2.63311	-5.78267	-3.40908	C	-3.02630	2.11547	3.79634	H	4.05223	-6.89963	0.14751
C	3.95071	-2.24834	-1.50567	C	-3.44965	3.40998	3.34842	H	3.39977	-6.85047	2.46308
C	3.81811	-0.98894	-2.16508	C	-2.84052	4.56933	3.86816	H	2.01521	-6.72294	4.03836
C	2.99570	-0.89971	-3.32843	C	-3.33364	5.82601	3.41462	H	-0.19853	-6.51068	4.96305
C	2.59107	0.36952	-3.78854	C	-4.12575	5.91220	2.30093	H	-2.28198	-6.30506	4.84230
C	1.34491	0.49758	-4.47335	C	-5.40187	-2.58056	0.08166	H	-4.38094	-6.08971	3.68085
C	0.54856	-0.64755	-4.67463	C	-5.15714	-2.61552	1.49152	H	-5.60483	-5.95633	1.98296
C	-0.87000	-0.50667	-4.74932	C	-4.73971	-1.41203	2.14955	H	-6.01714	-5.89695	-0.38929
C	-1.68952	-1.66786	-4.61857	C	-3.92623	-1.50047	3.29053	H	-5.43884	-5.94246	-2.40342
C	4.18492	-2.28083	-0.12184	C	-3.28502	-0.32594	3.78663	H	-3.84825	-6.08796	-4.20560
C	4.05344	-3.52178	0.58359	C	-2.03926	-0.45344	4.47255	H	7.45747	-3.37738	0.00243
C	4.02806	-4.73747	-0.12825	C	-1.24379	0.69194	4.67513	H	6.79508	-2.23840	1.18883
C	4.20760	0.19332	-1.50418	C	-1.80134	1.99003	4.47104	H	8.54209	-2.36540	0.97622
C	4.44082	0.16002	-0.09648	C	-1.00261	3.15915	4.69629	H	8.36929	-1.40383	-1.32025
C	4.28738	-1.05395	0.60032	C	-1.57543	4.44002	4.56385	H	6.62087	-1.40171	-1.22740
C	3.91057	-1.02498	1.97711	C	0.17465	0.55172	4.75283	H	7.43629	0.91397	-1.93143
C	3.43385	-2.22347	2.58764	C	0.99371	1.71340	4.62253	H	7.47505	2.04736	-0.62163
C	3.67002	-3.49208	1.96246	C	0.41943	3.01859	4.77261				
C	3.26190	-4.67934	2.60232	C	1.24225	4.16131	4.71335				
C	3.56377	-5.90920	1.95101	C	0.61927	5.42641	4.91241				
C	3.93465	-5.93748	0.63291	C	-0.74176	5.56090	4.84066				
C	4.04381	1.45564	-2.14941	C	-3.53140	-2.79255	3.77034				
C	3.23277	1.54398	-3.29204	C	-2.28275	-2.92045	4.45828				
C	3.69394	0.21764	2.60523	C	-1.47235	-1.75223	4.64279				
C	4.13898	1.41877	1.97582	C	-0.07735	-1.89034	4.71986				
C	4.51363	1.38894	0.62406	C	0.74794	-0.72967	4.62614				
C	4.70168	2.62322	-0.07897	C	2.06011	-0.85569	4.07719				
C	4.46117	2.65819	-1.49032	C	2.75205	0.30420	3.67448				
C	4.36313	3.89605	-2.15582	C	2.28385	1.58964	4.08188				
C	3.52202	3.98844	-3.33292	C	2.99571	2.77129	3.69084				
C	2.83870	2.83637	-3.77112	C	2.57297	4.03364	4.15268				
C	1.58932	2.96482	-4.45773	C	4.25076	5.08097	2.73775				
C	0.77831	1.79682	-4.64183	C	3.34531	5.16470	3.76215				
C	-0.61681	1.93529	-4.71533	C	0.50394	-3.19664	4.61271				
C	-1.44236	0.77484	-4.62025	C	1.81927	-3.32298	4.06228				
C	3.94100	2.68409	2.61968	C	2.50730	-2.13851	3.63920				
C	4.44837	3.86015	2.03196	C	2.30475	-4.59160	3.68768				
C	4.84598	3.82739	0.63818	C	1.60259	-5.73000	4.17600				
C	5.07495	5.01369	-0.11668	C	0.34396	-5.60923	4.70228				
C	4.84012	5.04745	-1.46573	C	-0.30042	-4.34148	4.77782				
C	1.04690	4.24379	-4.69444	C	-1.74059	-4.19909	4.69740				
C	1.91399	5.36174	-4.53335	C	-2.60749	-5.31715	4.53708				
C	3.10893	5.23868	-3.87508	C	-3.80187	-5.19467	3.87770				
C	-0.39331	4.38634	-4.77270	C	-4.21439	-3.94513	3.33361				
C	-1.19757	3.24158	-4.60648	C	-0.50552	-3.85372	2.15649				
C	-2.75345	0.90092	-4.06889	C	-5.52770	-5.00642	1.46621				
C	-3.20001	2.18364	-3.63036	C	-5.76256	-4.97286	0.11713				
C	-2.51217	3.36786	-4.05423	C	-5.54090	-3.78492	-0.63610				
C	-2.99729	4.63654	-3.67969	C	-5.14553	-3.81536	-2.03049				
C	-2.29556	5.77492	-4.16889	C	-4.94976	-5.03497	-2.73876				
C	-1.03753	5.65417	-4.49636	C	-4.04450	-5.11792	-3.76333				
C	-2.97896	-1.54377	-4.07608	C	-3.27054	-3.98716	-4.15100				
C	-3.44592	-0.25870	-3.66659	C	7.53088	-1.30896	-0.62089				
C	-4.38969	-0.17219	-2.59875	C	7.55504	0.09312	-0.03311				
C	-4.60739	1.07049	-1.97062	O	7.58332	0.30879	1.17244				
C	-4.12784	2.26869	-2.57993	C	7.58538	-2.38848	0.44904				
C	-4.36506	3.53748	-1.95598	N	7.55084	1.09500	-0.94676				
C	-3.95488	4.72447	-2.59509	H	-4.74413	6.94501	-0.14066				
C	-4.99549	1.10009	-0.59693	H	-4.08977	6.89588	-2.45577				
C	-4.89284	2.32637	0.12604	H	-2.70827	6.76784	-4.03144				
C	-4.75406	3.56711	-0.57874	H	-0.49539	6.55556	-4.95812				
C	-4.72579	4.78258	0.13338	H	1.58796	6.35007	-4.83663				
C	-4.62826	5.98298	-0.62669	H	3.68770	6.13362	-3.67685				
C	-4.25598	5.95476	-1.94419	H	4.92298	5.99639	-1.98341				
C	-3.69195	-2.72516	-3.68685	H	5.33568	5.93650	0.38901				
C	-4.63817	-2.63847	-2.61643	H	4.73799	5.98867	2.40023				
C	-4.83819	-1.37347	-1.97209	H	3.14735	6.13550	4.20196				

C	-5.37243	3.84000	3.27068	C	5.45635	-3.71682	-3.26547	C	7.91225	0.77166	-0.14537
C	-5.38274	2.79617	4.15730	C	5.46405	-2.67867	-4.15892	C	2.94601	-0.49893	-0.21085
C	-1.71598	4.69331	1.24991	C	4.27286	-1.95546	-4.45219	C	3.65731	-1.71484	-0.20422
C	-2.96329	4.87182	0.56584	C	4.29094	-0.55449	-4.82385	C	5.09534	-1.71186	-0.18756
C	-4.17491	4.81346	1.28291	C	5.50052	0.18957	-4.92822	C	5.81824	-2.93229	-0.18314
C	0.74073	4.08631	2.52590	C	5.52494	1.53569	-4.67593	C	7.25015	-2.90861	-0.16909
C	0.73887	4.66731	1.22209	C	4.34115	2.23289	-4.30155	C	7.92333	-1.67933	-0.15746
C	-0.48447	4.82439	0.54014	C	4.36928	3.40359	-3.44710	C	5.13525	-4.18474	-0.19203
C	-0.49923	4.77043	-0.88653	C	5.58287	3.93145	-2.92096	C	3.66983	-4.18569	-0.20256
C	-1.74491	4.58563	-1.55839	C	5.60551	4.57578	-1.71238	C	2.95487	-2.95661	-0.20764
C	-2.97809	4.81546	-0.86435	C	4.41638	4.73798	-0.94607	C	1.52678	-2.95841	-0.21635
C	-4.20422	4.70150	-1.54927	C	4.43121	4.79086	0.50277	C	0.80813	-1.72273	-0.23322
C	-5.39138	4.98383	-0.81495	C	5.63555	4.68380	1.25555	C	1.51271	-0.50004	-0.23626
C	-5.37716	5.03849	0.55345	C	5.63706	4.12759	2.50722	C	0.80336	0.73922	-0.24580
C	-1.76781	3.91985	-2.79426	C	4.43451	3.64014	3.09406	C	1.50880	1.96147	-0.23096
C	-3.02384	3.48530	-3.33181	C	4.42275	2.53710	4.03475	C	0.79822	3.19988	-0.23545
C	-4.22800	4.01338	-2.82469	C	5.61312	1.86704	4.43667	C	1.50536	4.43222	-0.21170
C	0.71015	4.56355	-1.57983	C	5.59205	0.54526	4.79459	C	5.88490	-5.35418	-0.18825
C	0.68681	3.88799	-2.83745	H	-6.34436	5.05248	-1.32713	C	7.29176	-5.32792	-0.17611
C	-0.54552	3.44158	-3.35522	H	-6.31946	5.14805	1.07796	C	7.96673	-4.13411	-0.16639
C	-0.57266	2.28520	-4.19188	H	-6.31560	4.30061	2.99959	C	0.82294	-4.18998	-0.20843
C	-1.82100	1.64126	-4.44283	H	-6.33363	2.46448	4.55844	C	1.55775	-5.37745	-0.21119
C	-3.05077	2.32567	-4.17014	H	-6.36815	0.43621	5.08206	C	2.94058	-5.37440	-0.20876
C	-4.28115	1.71729	-4.48742	H	-6.41400	-1.92944	4.63598	C	-0.62844	0.73718	-0.27807
C	-5.46575	2.46511	-4.23210	H	-6.45285	-3.61977	3.39970	C	-1.33414	-0.50379	-0.26795
C	-5.44037	3.57390	-3.42878	H	-6.48511	-4.75664	1.27638	C	-0.62663	-1.72447	-0.25263
C	-1.84591	0.26104	-4.69907	H	-6.50153	-4.85965	-0.81402	C	-1.34177	-2.96211	-0.23267
C	-3.10033	-0.43191	-4.68410	H	-6.50567	-3.89275	-3.02016	C	-0.63490	-4.19161	-0.20188
C	-4.30708	0.29274	-4.75285	H	-6.49301	-2.28489	-4.36265	C	-0.63062	3.19793	-0.26873
C	0.63299	1.61642	-4.48305	H	-6.46195	0.04538	-4.96630	C	-1.33828	1.95756	-0.28774
C	0.60734	0.21314	-4.74401	H	-6.42364	2.10200	-4.58653	C	-2.76762	-0.50583	-0.28067
C	-0.62240	-0.47357	-4.70507	H	-6.37921	4.05185	-3.17318	C	-3.47556	-1.72393	-0.26517
C	-0.64048	-1.85531	-4.34844	H	6.57099	2.36895	4.36086	C	-2.76995	-2.96413	-0.24085
C	-1.88197	-2.46349	-3.99636	H	6.53408	0.04583	4.99038	C	-3.48180	-4.19480	-0.21637
C	-3.11838	-1.81783	-4.32753	H	6.49408	-2.01425	4.62056	C	-2.74963	-5.38077	-0.16890
C	-4.34383	-2.45226	-4.04275	H	6.45157	-3.95563	3.19502	C	-1.36681	-5.38020	-0.16126
C	-5.53639	-1.78008	-4.43486	H	6.42079	-4.93634	1.33825	C	-3.47382	0.73450	-0.29820
C	-5.51873	-0.45446	-4.77759	H	6.40124	-5.02035	-1.06719	C	-2.77099	1.95482	-0.30493
C	-1.88993	-3.53954	-3.09499	H	6.40130	-4.16974	-2.98747	C	-4.90586	0.73071	-0.31190
C	-3.13574	-3.96481	-2.52598	H	6.41472	-2.34363	-4.55781	C	-5.61414	-0.50027	-0.30182
C	-4.35254	-3.56201	-3.11109	H	6.43977	-0.32172	-5.10570	C	-4.91384	-1.72530	-0.27710
C	0.57147	-2.50344	-4.03976	H	6.48211	2.04451	-4.66103	C	-5.63338	-2.94766	-0.26548
C	0.56294	-3.59271	-3.11862	H	6.52367	3.73255	-3.42147	C	-4.94708	-4.19807	-0.23838
C	-0.65672	-3.99690	-2.54296	H	6.56358	4.86589	-1.29639	C	-1.34198	4.42901	-0.27146
C	-0.65552	-4.55521	-1.23036	H	6.58502	4.94354	0.80115	C	-0.61030	5.61924	-0.23625
C	-1.88638	-4.64904	-0.51435	H	6.58803	3.96664	3.00209	C	0.77000	5.62067	-0.20848
C	-3.13421	-4.53033	-1.21092	C	-2.62493	-0.76086	-0.69143	C	-2.79913	4.42894	-0.30828
C	-4.34832	-4.69324	-0.51495	C	-1.69163	-0.89978	0.50249	C	-3.48880	3.19031	-0.31577
C	-5.55295	-4.59834	-1.26927	C	-3.63357	-0.50509	-0.36059	C	-4.91352	3.18024	-0.33636
C	-5.55498	-4.04943	-2.52342	H	-2.27440	0.01754	-1.37611	C	-5.61751	1.94795	-0.33307
C	0.56599	-4.69621	-0.54256	H	-2.67054	-1.69779	-1.25226	C	-7.05789	1.94572	-0.35066
C	3.04403	-4.74171	-0.56192	H	-1.64191	0.02049	1.09685	C	-7.73751	0.74981	-0.34316
C	1.79833	-4.56789	-1.24982	H	-2.03425	-1.68025	1.19386	C	-7.05139	-0.49216	-0.31767
C	1.79635	-4.01289	-2.53828	C	-0.28269	-1.24796	0.09218	C	-7.74181	-1.70089	-0.30857
C	3.04170	-3.62393	-3.13221	O	0.54143	-1.32794	1.15152	C	-7.06533	-2.92814	-0.28324
C	3.05013	-2.53803	-4.06367	O	0.09701	-1.42817	-1.04208	C	-7.77848	-4.15564	-0.27597
C	1.81279	-1.87809	-4.36241	H	1.42243	-1.57213	0.82325	C	-7.10026	-5.34742	-0.25484
C	1.83133	-0.51954	-4.71647	C	-5.69335	-5.36963	-0.23709	C	-5.63650	4.40378	-0.35752
C	3.08505	0.17324	-4.77907	C	-7.07765	4.37824	-0.37868	C	-7.75551	3.20965	-0.37522
C	3.11084	1.58009	-4.51607	C	-4.92797	5.60625	-0.35848	C	-3.54399	5.61718	-0.33374
C	1.88157	-2.24687	-4.20047	C	-0.43884	-0.46083	3.06955	C	-1.11349	0.86268	2.81950
C	1.90859	3.38304	-3.37555	C	-1.43039	-1.60984	3.16746	C	-8.82429	0.74612	-0.35585
C	3.16514	3.84791	-2.86545	C	-7.60540	5.32730	-0.39713	H	-8.84117	3.19355	-0.39028
C	3.18882	4.52253	-1.60339	C	7.76724	5.34909	-0.12068	H	-8.86382	-4.12951	-0.28916
C	1.95512	4.71105	-0.89757	C	8.82851	-1.69453	-0.32147	H	-7.64388	-6.28618	-0.25211
C	1.96954	4.76248	0.50549	C	-8.82429	0.74612	-0.35585	H	-5.20338	-6.33528	-0.22435
C	3.21730	4.62419	1.19832	C	-8.84117	3.19355	-0.39028	C	-3.25487	-6.33777	-0.13373
C	3.21904	4.04237	2.50569	C	-8.86382	-4.12951	-0.28916	C	-8.86382	-4.12951	-0.28916
C	1.97289	3.61980	3.07458	C	-7.64388	-6.28618	-0.25211	C	-7.64388	-6.28618	-0.25211
C	1.96169	2.55052	3.98405	C	-5.20338	-6.33528	-0.22435	H	-3.25487	-6.33777	-0.13373
C	3.19635	1.90635	4.32447	C	-7.22965	-0.47241	-0.15970	C	-7.22965	-0.47241	-0.15970
C	5.46898	-4.86418	0.82441	C	-7.22965	-0.47241	-0.15970	C	-7.22965	-0.47241	-0.15970
C	5.45774	-4.91198	-0.54449	C	-7.22965	-0.47241	-0.15970	C	-7.22965	-0.47241	-0.15970
C	4.25747	-4.68583	-1.27640	C	-7.22965	-0.47241	-0.15970	C	-7.22965	-0.47241	-0.15970
C	4.25654	-4.10529	-2.60433	C	-7.22965	-0.47241	-0.15970	C	-7.22965	-0.47241	-0.15970

H	-0.86355	-6.33732	-0.11825	C	-3.21590	3.52951	-2.42677	C	-1.63596	-4.13829	4.71545
H	1.05660	-6.33658	-0.21971	C	-2.99724	4.79106	-1.78169	C	-2.94622	-3.51851	4.69140
H	3.44821	-6.33076	-0.21126	C	-2.22982	5.78517	-2.42045	C	-4.14344	-4.27650	4.55006
H	5.39767	-6.32129	-0.19447	C	-3.45104	0.94315	-3.56231	C	-5.24578	-3.74480	3.93532
H	7.83800	-6.26515	-0.17392	C	-4.28144	1.31828	-2.46335	C	-5.22839	-2.41787	3.41905
H	9.05202	-4.10489	-0.15628	C	-4.05296	2.54863	-1.81527	C	-6.02061	-2.02489	2.27082
H	9.01002	-1.66991	-0.14592	C	-4.37265	2.67705	-0.42979	C	-6.86848	-2.93924	1.58322
H	8.99902	0.77107	-0.13230	C	-3.84519	3.78245	0.30282	C	-7.11265	-2.80244	0.24246
H	9.00909	3.21896	-0.11687	C	-3.31703	4.91953	-0.39263	C	-6.52604	-1.74145	-0.50486
H	-5.47511	6.54406	-0.37831	C	-2.86388	6.04029	0.33129	C	-6.20057	-1.87228	-1.91147
H	-3.04403	6.57732	-0.33679	C	-2.39112	7.15505	-0.41846	C	-6.44580	-3.07081	-2.64008
H	-1.11623	6.57599	-0.22795	C	-2.08454	7.03170	-1.74773	C	-5.64775	-3.43142	-3.69335
H	1.27284	6.57872	-0.18139	C	-3.59427	3.64164	1.67704	C	-4.54908	-2.61793	-4.09238
C	3.20223	6.58589	-0.17931	C	-2.81531	4.63810	2.35237	C	-3.35352	-3.17243	-4.69628
H	5.63334	6.55968	-0.14479	C	-2.60420	5.89474	1.75007	C	-3.19708	-4.56764	-4.93275
H	-2.07066	-1.49726	4.04551	C	-4.91025	1.57115	0.25853	C	-1.95850	-5.15234	-4.91044
H	-2.07584	-1.63920	2.28576	C	-4.65551	1.42823	1.65597	H	-2.16667	8.09035	0.08150
H	-0.90314	-2.56339	3.24275	C	-3.87140	2.39569	2.31557	H	-1.62586	7.87272	-2.25519
H	0.15600	-0.35860	3.98384	C	-3.09073	2.00882	3.44659	H	-0.40623	7.32261	-3.86724
H	0.28409	-0.61286	2.25957	C	-2.05715	2.87932	3.90549	H	1.57835	6.40191	-4.87474
O	-0.22368	1.86570	2.71834	C	-2.03265	4.25027	3.48613	H	3.47290	5.50917	-4.83267
O	-2.30592	1.03857	2.71628	C	-1.05399	5.12598	3.99733	H	5.40975	4.57772	-3.74536
H	-0.71848	2.67965	2.52868	C	-1.10797	6.48446	3.57374	H	6.56349	4.00343	-2.08831
				C	-1.85712	6.85577	2.48898	H	6.99527	3.75876	0.26837
				C	-0.92755	2.33464	4.53671	H	6.52304	3.94847	2.30711
				C	0.22398	3.16240	4.74812	H	5.12280	4.57995	4.16136
				C	0.11183	4.56367	4.65044	H	3.39182	5.38269	5.03692
				C	-3.12250	0.66776	3.87863	H	1.21567	6.41175	4.99358
				C	-1.97369	0.11378	4.51985	H	-0.46964	7.22555	4.04094
				C	-0.83379	0.92084	4.70780	H	-1.78628	7.87772	2.13460
				C	0.45672	0.31053	4.73480	H	-4.06947	-5.20414	-5.02716
				C	1.61491	1.13231	4.59088	H	-1.89252	-6.23158	-4.98921
				C	1.51757	2.55065	4.77550	H	-0.20285	-7.04456	-4.04344
				C	2.67504	3.35161	4.70432	H	1.11605	-7.69641	-2.13865
				C	2.51917	4.74684	4.94050	H	1.49377	-7.90878	-0.08523
				C	1.28102	5.33246	4.91511	H	0.94537	-7.69094	2.24952
				C	2.77322	0.59481	4.00724	H	-0.28334	-7.13978	3.85511
				C	3.83157	1.47681	3.60914	H	-2.26727	-6.21881	4.86293
				C	3.87111	2.79661	4.10140	H	-4.16080	-5.32293	4.83261
				C	0.56136	-1.08538	4.57191	H	-6.09849	-4.38817	3.74985
				C	1.73844	-1.63175	3.97749	H	-7.24446	-3.81921	2.09262
				C	2.76994	-0.76313	3.56805	H	-7.67347	-3.57906	-0.26476
				C	3.59825	-1.13628	2.46689	H	-7.20286	-3.76821	-2.29998
				C	4.40780	-0.14165	4.18088	H	-5.80022	-4.40185	-4.15181
				C	4.66345	1.10188	2.50686	H	6.57820	-4.33535	1.45389
				C	5.52041	2.05309	1.91783	C	6.93649	-3.30946	1.34677
				C	5.76698	3.25024	2.64779	H	6.19163	-2.63573	1.78041
				C	4.96995	3.60975	3.70253	H	7.85979	-3.19822	1.91886
				C	3.36503	-2.36390	1.81483	C	7.17001	-2.97415	-0.11929
				C	2.31464	-4.60792	1.77915	C	7.56847	-1.53227	-0.30359
				C	2.53069	-3.34698	2.42566	H	7.97521	-3.58547	-0.54397
				C	1.71525	-2.97969	3.50789	H	6.28451	-3.16611	-0.73252
				C	0.68108	-3.87383	3.93884	O	7.41499	-1.12239	-1.57354
				C	-0.49863	-3.32629	4.53592	O	7.99007	-0.80531	0.56664
				C	-0.60318	-1.90376	4.68067	H	7.69183	-0.19224	-1.61713
				C	-1.87204	-1.30340	4.65550				
				C	-3.03357	-2.12716	4.48698				
				C	-4.18538	-1.57144	3.84481				
				C	-4.13555	-0.21201	3.39219				
				C	-4.90329	0.16858	2.27964				
				C	-5.71794	-0.81112	1.62240				
				C	-5.97297	-0.66810	0.22134				
				C	-5.40477	0.45017	-0.47331				
				C	-5.08989	0.32355	-1.83570				
				C	-5.34298	-0.92142	-2.49983				
				C	-4.51007	-1.29784	-3.60091				
				C	-3.45283	-0.41544	-4.00007				
				C	-2.29508	-0.95243	-4.58516				
				C	-2.19687	-2.37059	-4.76988				
				C	1.71532	-6.97291	0.41495				
				C	1.40420	-6.84937	1.74310				
				C	1.54612	-5.60248	2.41607				
				C	0.70114	-5.22271	3.53080				
				C	-0.33115	-6.07019	4.02458				
				C	-1.45956	-5.54646	4.59730				

C	0.59885	-1.90752	-4.30572	C	5.51009	3.77083	3.16375	H	-6.44487	2.52251	4.41305
C	0.59594	-0.53086	-4.68557	C	-3.09095	4.69383	1.19694	H	-6.44930	4.11738	3.05055
C	-0.62467	0.17227	-4.71713	C	-3.08626	4.12510	2.50997	H	-6.45693	5.07270	0.83996
C	-0.62594	1.57949	-4.47768	C	-1.84066	3.68536	3.06716	H	-6.46529	4.95816	-1.25684
C	-1.86139	2.23136	-4.18648	C	-1.83703	2.62349	3.98526	H	-6.47020	3.79637	-3.36682
C	-1.84511	-4.60736	-1.17960	C	-0.60001	2.00197	4.33192	H	-1.23284	-1.92078	0.45860
C	-3.08742	-4.75054	-0.47836	C	-0.59800	0.62443	4.70629				
C	-4.30684	-4.67482	-1.18044	C	0.62195	-0.08019	4.73319				
C	0.60676	-4.04139	-2.48231	C	1.85673	0.63291	4.68001				
C	0.61110	-4.62114	-1.17724	C	3.10013	-0.07866	4.73115				
C	-0.60774	-4.75470	-0.48217	C	4.31735	0.63092	4.75136				
C	-0.60339	-4.67574	0.94422	C	0.62204	-1.48557	4.48312				
C	-1.83871	-4.45278	1.62594	C	1.85616	-2.13914	4.19077				
C	-3.08467	-4.67234	0.95077	C	3.09955	-1.48848	4.48352				
C	-4.29955	-4.52764	1.64945	C	4.31640	-2.16348	4.26270				
C	-5.50044	-4.79852	0.93372	C	5.51592	-1.48018	4.61122				
C	-5.50395	-4.86918	-0.43392	C	5.51658	-0.13085	4.84686				
C	1.84034	-3.59315	-3.04448	C	-3.07890	2.00303	4.34377				
C	1.83662	-2.52742	-3.95819	C	-3.07679	0.62207	4.71991				
C	0.61677	-4.48084	1.62229	C	-1.83286	-0.09055	4.72510				
C	1.85068	-4.66114	0.92917	C	-1.83257	-1.47282	4.47905				
C	1.84784	-4.72887	-0.47270	C	-0.59765	-2.13750	4.21506				
C	3.08935	-4.61137	-1.17999	C	-0.59836	-3.30378	3.39178				
C	3.08604	-4.03412	-2.48890	C	0.61907	-3.78042	2.86617				
C	4.30074	-3.65534	-3.09374	C	1.85455	-3.28701	3.38184				
C	4.29669	-2.55580	-4.03844	C	3.09710	-3.78126	2.86642				
C	3.07794	-1.90625	-4.31762	C	4.31502	-3.34802	3.42752				
C	3.07457	-0.52704	-4.69924	C	5.51242	-4.56826	1.69957				
C	1.83030	0.18488	-4.70886	C	5.51388	-3.90494	2.89783				
C	1.82892	1.56897	-4.47290	C	-3.07628	-2.14053	4.22977				
C	0.59346	2.23442	-4.21341	C	-3.07821	-3.30767	3.40174				
C	3.09503	-4.47843	1.61680	C	-1.83605	-3.76679	2.85171				
C	4.31180	-4.72262	0.94968	C	-4.29636	-3.82348	2.91659				
C	4.30882	-4.79223	-0.49797	C	-5.49367	-3.35922	3.53192				
C	5.50573	-4.71107	-1.26576	C	-5.49168	-2.24241	4.32475				
C	5.50185	-4.16166	-2.52023	C	-4.29289	-1.51064	4.55849				
C	4.29061	0.17843	-4.79525	C	-4.29339	-0.08310	4.81137				
C	5.49060	-0.58757	-4.82119	C	-5.49302	0.68348	4.84118				
C	5.49357	-1.90752	-4.45619	C	-5.49498	2.00456	4.48055				
C	4.28908	1.60754	-4.55127	C	-4.29754	2.65290	4.06407				
C	3.07212	2.23885	-4.22649	C	-4.30121	3.75019	3.11685				
C	0.59437	3.40212	-3.39190	C	-5.50221	4.25492	2.54145				
C	1.83093	3.86805	-2.85255	C	-5.50683	4.79850	1.28442				
C	3.07302	3.40874	-3.40196	C	-4.31060	4.87448	0.51495				
C	4.29136	3.92324	-2.91540	C	-4.31561	4.80263	-0.93298				
C	5.48897	3.45921	-3.53055	C	-5.51717	4.64843	-1.68150				
C	5.48769	2.34073	-4.32087	C	-5.52000	3.98777	-2.88134				
C	-1.86061	3.37938	-3.37772	C	-4.32143	3.43473	-3.41582				
C	-0.62421	3.87242	-2.86235	O	1.06795	-1.65480	0.33543				
C	-0.62106	4.56140	-1.61178	C	0.28225	-1.48764	-0.56211				
C	0.60036	4.75502	-0.93589	O	-1.03937	-1.63623	-0.45299				
C	1.83395	4.54485	-1.62225	H	0.54755	-1.18783	-1.58701				
C	3.07942	4.76029	-0.94565	H	6.45063	5.05175	0.95113				
C	4.29451	4.62194	-1.64537	H	6.44256	4.93911	-1.45376				
C	0.60503	4.82225	0.49051	H	6.43797	3.92616	-3.29276				
C	1.84298	4.67573	1.18592	H	6.43556	1.95958	-4.68325				
C	3.08414	4.82716	0.48425	H	6.43864	-0.10433	-5.02844				
C	4.30381	4.75325	1.18602	H	6.44384	-2.42455	-4.38734				
C	5.49999	4.95361	0.43952	H	6.44917	-4.02066	-3.02789				
C	5.49548	4.88995	-0.92852	H	6.45573	4.98565	-0.82129				
C	-3.10315	3.86928	-2.85673	H	6.46078	-4.88043	1.27719				
C	-3.10018	4.55996	-1.60315	H	6.46324	-3.71438	3.38526				
C	-1.85457	4.73622	-0.91538	H	6.46463	-2.00428	4.58936				
C	-1.84994	4.80263	0.48711	H	6.46624	0.36745	5.00465				
C	-0.61202	4.69275	1.18926	H	6.46379	2.38702	4.44793				
C	-0.60731	4.12451	2.49869	H	6.45813	4.20972	2.87413				
C	0.61433	3.70641	3.06318	H	-6.47037	2.08727	-4.57495				
C	1.84763	4.11635	2.47342	H	-6.46860	-0.28475	-4.98743				
C	3.09325	3.71071	3.05619	H	-6.46235	-2.30662	-4.44307				
C	4.30872	4.17538	2.51530	H	-6.45767	-4.13488	-2.87492				
C	0.61804	2.62618	3.99626	H	-6.45447	-4.96679	-0.94586				
C	1.85483	1.98749	4.31134	H	-6.44789	-4.84317	1.45864				
C	3.09697	2.62778	3.99154	H	-6.44292	-3.82528	3.29354				
C	4.31565	2.02919	4.36880	H	-6.43948	-1.86179	4.68789				
C	5.51336	2.73424	4.05905	H	-6.44133	0.20014	5.04693				
Formic acid-graphene, CPCM											

C 3.50338 1.77153 -0.14220
C 5.64622 0.55506 -0.16547
C 4.94159 1.77767 -0.14413
C 5.65718 3.00229 -0.12506
C 4.96656 4.25039 -0.10215
C 7.77389 -0.68799 -0.19177
C 7.08358 0.55169 -0.16920
C 7.77006 1.76253 -0.15192
C 7.08932 2.98751 -0.13046
C 7.79834 4.21730 -0.11500
C 7.11603 5.40681 -0.09737
C 5.70896 5.42437 -0.09170
C 1.02341 -0.81842 2.81678
O 0.22437 -1.88605 2.78247
O 2.22714 -0.85949 2.81738
H 0.42590 0.10274 2.84285
H 7.65752 -5.26558 -0.26616
H -7.71647 -5.33926 -0.15633
H 8.85684 1.75967 -0.15549
H 8.86073 -0.68079 -0.19489
H 8.88609 -3.12779 -0.23684
H 8.88383 4.19472 -0.11872
H 7.65650 6.34735 -0.08765
H 5.21578 6.38839 -0.07979
H 3.26678 6.38484 -0.02205
H 0.87543 6.37626 -0.01339
H -1.04451 6.36840 -0.08400
H -3.43594 6.35433 -0.06702
H -5.38471 6.33802 -0.00432
H -7.82471 6.27356 0.02018
H -9.03185 4.10945 -0.00328
H -8.98208 1.67483 -0.04204
H -8.96311 -0.76592 -0.07955
H -8.96523 -3.21355 -0.11616
H 5.53119 -6.48924 -0.27845
H 3.09995 -6.53051 -0.26455
H 1.17169 -6.53600 -0.16933
H -1.21792 -6.54707 -0.14994
H -3.14708 -6.56030 -0.21061
H -5.57854 -6.54241 -0.19275
H 0.78260 -2.68067 2.72846

Formic acid-convex surface of SWCNT, CPCM
C -5.43845 0.99390 4.86118
C -4.13980 1.55186 4.68721
C -3.04294 0.66921 4.74763
C -3.25744 -0.74270 4.65001
C -4.56476 -1.24523 4.49493
C -5.64349 -0.35701 4.76904
C -1.70771 1.17543 4.62096
C -1.50962 2.46461 4.10035
C -2.64716 3.24356 3.70652
C -3.93525 2.88214 4.14855
C -2.49801 4.19674 2.64890
C -3.63931 4.77042 2.05380
C -4.87651 4.63074 2.74525
C -5.01916 3.71899 3.75737
C -1.21653 4.33584 2.02172
C -0.04839 3.81840 2.65736
C -0.19675 2.86928 3.71346
C 0.92007 2.11124 4.11946
C 0.71860 0.80046 4.64885
C -0.59258 0.29436 4.75286
C -0.80642 -1.11384 4.65424
C -2.12935 -1.59918 4.42729
C -1.15160 4.72364 0.67356
C -2.36718 4.98061 -0.04149
C -3.57081 5.17781 0.66417
C 1.21157 3.97552 2.04534
C 1.27714 4.36641 0.67418
C 0.07966 4.58943 -0.03457
C 0.05045 4.37029 -1.44412
C -1.21147 4.27674 -2.10353
C -2.39841 4.75177 -1.45450

C -3.63236 4.72258 -2.13426
C -4.76607 5.24954 -1.45215
C -4.73602 5.46994 -0.10052
C 2.37566 3.42889 2.66319
C 2.22973 2.49557 3.70227
C 1.21871 3.92634 -2.09479
C 2.47493 3.99257 -1.42210
C 2.50494 4.21488 -0.03550
C 3.72813 4.00609 0.68229
C 3.66194 3.60560 2.05527
C 4.81816 3.12684 2.70292
C 4.66768 2.16273 3.77493
C 3.37091 1.74046 4.12941
C 3.16910 0.42666 4.66059
C 1.83290 -0.08616 4.74474
C 1.62251 -1.47094 4.64738
C 0.29790 -1.96615 4.45426
C 3.66893 3.55986 -2.08665
C 4.91826 3.69080 -1.44727
C 4.94906 3.92146 -0.01620
C 6.13353 3.75414 0.75638
C 6.07021 3.37016 2.06951
C 4.26798 -0.43894 4.82760
C 5.56864 0.13841 4.77536
C 5.76187 1.39531 4.26690
C 4.05097 -1.86869 4.72668
C 2.74856 -2.33966 4.46585
C 0.11295 -3.19468 3.75122
C 1.25791 -3.89228 3.26211
C 2.56307 -3.57146 3.76133
C 3.68326 -4.31020 3.33073
C 4.94624 -3.97014 3.89317
C 5.12390 -2.79121 4.56739
C -2.31126 -2.80709 3.73548
C -1.16989 -3.52815 3.27262
C -1.28921 -4.33786 2.10305
C -0.12193 -4.78647 1.45332
C 1.14040 -4.68924 2.11231
C 2.32796 -5.16420 1.46437
C 3.56172 -5.13424 2.14433
C -0.15260 -5.01550 0.04426
C 1.08051 -5.14056 -0.66318
C 2.29698 -5.39382 0.05187
C 3.50094 -5.58905 -0.65339
C 4.66640 -5.88041 0.11115
C 4.69600 -5.66064 1.46282
C -3.62075 -3.15681 3.26825
C -3.74027 -3.96774 2.09510
C -2.54645 -4.40197 1.43040
C -2.57651 -4.62677 0.04470
C -1.34880 -4.78774 -0.66505
C -1.28190 -4.38808 -0.203426
C -0.02168 -4.22919 -2.64514
C 1.14643 -4.74700 -2.00964
C 2.42815 -4.60623 -2.63657
C 3.56946 -5.18086 -2.04276
C 0.12721 -3.27826 -3.69987
C 1.43993 -2.87354 -4.08704
C 2.57746 -3.65243 -3.69341
C 3.86548 -3.29144 -4.13612
C 4.94922 -4.12880 -3.74589
C 4.80649 -5.04120 -2.73436
C -3.79963 -4.41588 -0.67285
C -3.73261 -4.01617 -2.04576
C -2.44547 -3.83959 -2.65210
C -2.29912 -2.90526 -3.69014
C -0.98939 -2.52059 -4.10673
C -0.78811 -1.21032 -4.63748
C 0.52293 -0.70412 -4.74221
C 1.63803 -1.58489 -4.60902
C 2.97327 -1.07875 -4.73632
C 4.07014 -1.96128 -4.67509
C 0.73663 0.70428 -4.64586
C 2.05948 1.18994 -4.41916
C 3.18767 0.33325 -4.64024

C 4.49490 0.83608 -4.48486
C 5.57377 -0.05235 -4.75760
C 5.36880 -1.40336 -4.84894
C -3.44026 -2.15079 -4.11894
C -3.23863 -0.83719 -4.65070
C -1.90261 -0.32403 -4.73480
C -1.69262 1.06092 -4.63929
C -0.36799 1.55658 -4.44684
C -0.18337 2.78534 -3.74445
C 1.09955 3.11891 -3.26554
C 2.24121 2.39847 -3.72826
C 3.55016 2.74851 -3.25990
C 4.68220 2.08462 -3.77255
C 6.07128 3.28223 -2.17638
C 5.95722 2.50655 -3.29935
C -2.81903 1.92935 -4.45795
C -2.63391 3.16123 -3.75340
C -1.32868 3.48223 -3.25499
C -3.75420 3.89904 -3.32109
C -5.01741 3.55828 -3.88260
C -5.19473 2.37960 -4.55740
C -4.12136 1.45775 -4.71798
C -4.33776 0.02792 -4.81890
C -5.63821 -0.55000 -4.76800
C -5.83131 -1.80693 -4.25966
C -4.73723 -2.57353 -3.76614
C -4.88831 -3.53728 -2.69401
C -6.14079 -3.77932 -2.06085
C -6.20474 -4.16184 -0.74742
C -5.02041 -4.32938 0.02537
C -4.98964 -4.09848 1.45632
C -6.14245 -3.68968 2.18572
C -6.02784 -2.91458 3.30894
C -4.75249 -2.49316 3.78180
O 1.04076 7.57393 0.90146
C 0.93076 7.46681 -0.42336
O 1.84260 7.22137 -1.17105
H -0.10888 7.63484 -0.73448
H 5.58179 -6.17854 -0.38734
H 5.63430 -5.79375 1.98909
H 5.81196 -4.59324 3.69982
H 6.12426 -2.52052 4.88546
H 6.43718 -0.45374 5.04002
H 6.77657 1.75678 4.14505
H 6.99467 3.14932 2.59078
H 7.10587 3.82567 0.28239
H 7.06154 3.49127 -1.78780
H 6.86154 2.12843 -3.76228
H 6.59070 0.32164 -4.78895
H 6.23011 -2.05431 -4.94760
H 5.93344 -3.97798 -4.17453
H 5.68292 -5.58197 -2.39574
H -6.66039 -0.73105 4.80083
H -6.29964 1.64486 4.96082
H -6.00349 3.56800 4.18566
H -5.75313 5.17076 2.40593
H -5.65111 5.76921 0.39785
H -5.70444 5.38332 -1.97816
H -5.88352 4.18043 -3.68793
H -6.19521 2.10832 -4.87458
H -6.50671 0.04163 -5.03396
H -6.84591 -2.16914 -4.13922
H -7.06489 -3.55818 -2.58260
H -7.17715 -4.23216 -0.27341
H -7.13283 -3.89852 1.79732
H -6.93187 -2.53647 3.77242
H 1.96714 7.40116 1.14130

Ethylammonium-concave surface of SWCNT, CPCM
C -5.61076 -3.29365 -3.33942
C -4.41928 -3.77770 -2.72823
C -3.19219 -3.32407 -3.25519
C -3.16623 -2.18161 -4.12101
C -4.36819 -1.51910 -4.44554

C	-5.58540	-2.20435	-4.16924	C	-1.72021	3.62816	-3.14570	H	6.67172	4.73339	1.20946
C	-1.95415	-3.80441	-2.70914	C	-0.46420	4.04146	-2.60886	H	6.64395	4.77474	-1.19782
C	-1.95827	-4.43284	-1.45182	C	-0.42948	4.64679	-1.31665	H	-6.52652	-1.80443	-4.52864
C	-3.20037	-4.58526	-0.74793	C	0.80248	4.75495	-0.64084	H	-6.57059	-3.71806	-3.06862
C	-4.42326	-4.43117	-1.43367	C	2.02340	4.54734	-1.35029	H	-6.57568	-4.67452	-1.19750
C	-3.18305	-4.60688	0.68547	C	3.28007	4.67703	-0.67229	H	-6.54664	-4.71347	1.20922
C	-4.38963	-4.47477	1.40287	C	4.48506	4.54273	-1.39027	H	-6.49909	-3.81982	3.10686
C	-5.60214	-4.66036	0.68008	C	0.81900	4.73053	0.78663	H	-6.41970	-1.95773	4.63181
C	-5.61907	-4.63828	-0.68928	C	2.05585	4.50000	1.46051	H	-6.34698	0.07658	5.12372
C	-1.92554	-4.47793	1.36528	C	3.29661	4.65271	0.75869	H	-6.27445	2.43268	4.63012
C	-0.70453	-4.67777	0.65320	C	4.51774	4.49478	1.44379	H	-6.23844	4.09373	3.35736
C	-0.72088	-4.65568	-0.77486	C	5.71499	4.70065	0.70073	H	-6.23003	5.18356	1.21073
C	0.49468	-4.52471	-1.47657	C	5.69921	4.72415	-0.66861	H	-6.25317	5.22818	-0.88991
C	0.49920	-3.88716	-2.75423	C	-2.94173	4.12448	-2.58261	H	-6.31174	4.21228	-3.07173
C	-0.71216	-3.40122	-3.28787	C	-2.90695	4.73002	-1.28651	H	-6.37996	2.58674	-4.39418
C	-0.68704	-2.26334	-4.15144	C	-1.65163	4.81811	-0.59958	H	-6.46588	0.24779	-4.95733
C	-1.90399	-1.56399	-4.41224	C	-1.63551	4.79369	0.80394	H	-1.15349	0.02844	1.28999
C	-1.89311	-3.89749	2.64463	C	-0.39717	4.59861	1.48633	H	0.39034	-0.73356	0.86721
C	-3.11677	-3.43189	3.23074	C	-0.40257	3.95035	2.75802	H	-0.96131	-1.73651	1.40725
C	-4.35521	-3.86645	2.71776	C	0.80822	3.45766	3.28503	H	-0.64965	-1.86953	-1.09309
C	0.52723	-4.57072	1.32924	C	2.05048	3.86289	2.71162	H	-0.91709	-0.11681	-1.21753
C	0.56091	-3.98025	2.62834	C	3.28538	3.38135	3.25815	H	-2.93030	-1.34411	-1.66770
C	-0.63760	-3.51749	3.20910	C	4.51203	3.83791	2.73614	H	-2.88643	-2.08447	-0.18717
C	-0.59187	-2.40789	4.10804	C	0.78213	2.32176	4.14906	H	-3.12721	-0.45309	-0.28945
C	-1.80207	-1.71711	4.41745	C	1.99892	1.62579	4.41663				
C	-3.06989	-2.32363	4.13472	C	3.25935	2.24395	4.12641				
C	-4.26250	-1.67304	4.50910	C	4.46010	1.58537	4.45830				
C	-5.48752	-2.34605	4.23780	C	5.67824	2.26899	4.18250				
C	-5.53297	-3.40536	3.37101	C	5.70339	3.35648	3.35006				
C	1.74892	-4.73950	0.61038	C	-2.87496	4.68100	1.51599				
C	1.73289	-4.71618	-0.79304	C	-2.87995	4.03194	2.79132				
C	0.65081	-1.81024	4.39971	C	-1.64588	3.51792	3.30912				
C	1.86223	-2.48014	4.05159	C	-1.67114	2.40114	4.15953				
C	1.81736	-3.56543	3.16303	C	-0.45366	1.71893	4.45665				
C	3.03857	-4.05708	2.59600	C	-0.49588	0.32265	4.75017				
C	3.00407	-4.65624	1.29734	C	0.70024	-0.42186	4.72806				
C	4.20564	-4.89632	0.60163	C	1.95763	0.25270	4.70644				
C	4.18873	-4.87024	-0.84766	C	3.17767	-0.49970	4.70661				
C	2.97131	-4.60826	-1.50666	C	4.41765	0.16740	4.75733				
C	2.97591	-3.96561	-2.78499	C	5.54514	-1.96830	4.47452				
C	1.74235	-3.45490	-3.30627	C	5.59180	-0.63765	4.79464				
C	1.76646	-2.34050	-4.15960	C	-2.93016	1.80223	4.49194				
C	0.54837	-1.65835	-4.45645	C	-2.97268	0.40237	4.78583				
C	3.12875	-1.89026	4.37249	C	-1.75363	-0.35101	4.73871				
C	4.32106	-2.58739	4.09314	C	-4.21209	-0.26472	4.84823				
C	4.27434	-3.70713	3.17427	C	-5.38440	0.53860	4.93657				
C	5.44896	-4.26346	2.59233	C	-5.34333	1.87827	4.65528				
C	5.41608	-4.83874	1.34996	C	-4.12800	2.50841	4.26453				
C	4.19773	-3.59590	-3.38055	C	-4.10224	3.66052	3.38545				
C	5.38594	-4.16870	-2.84412	C	-5.29040	4.23540	2.85119				
C	5.38161	-4.78452	-1.62085	C	-5.28580	4.85519	1.62986				
C	4.22299	-2.44658	4.26315	C	-4.09262	4.94369	0.85751				
C	3.02519	-1.74089	-4.49200	C	-4.10913	4.97016	-0.59185				
C	0.59009	-0.26116	-4.74629	C	-5.31944	4.91112	-1.34043				
C	1.84814	0.41205	-4.73296	C	-5.35252	4.33340	-2.58161				
C	3.06707	-0.34057	-4.78387	C	-4.17779	3.77459	-3.16083				
C	4.30605	0.32762	-4.84159	C	-4.22506	2.65212	-4.07633				
C	5.47848	-0.47561	-4.93143	C	-5.44963	2.03418	-4.45796				
C	5.43837	-1.81587	4.65300	C	-5.49881	0.70390	-4.77911				
C	-1.86360	-0.18896	-4.69626	C	-4.32497	-0.10100	-4.74347				
C	-0.60556	0.48433	-4.71804	N	-2.60865	-1.23725	-0.69825				
C	-0.55593	1.87071	-4.38215	C	-1.12221	-1.00600	-0.61973				
C	0.68717	2.46246	-4.08235	C	-0.69449	-0.84928	0.82611				
C	1.89699	1.77513	-4.40002	H	6.59240	3.88359	-3.09679				
C	3.16424	2.38282	-4.11738	H	6.51353	2.02212	-4.62228				
C	4.35657	1.73503	-4.49769	H	6.44092	-0.01251	-5.11670				
C	0.73387	3.56756	-3.18014	H	6.36969	-2.36978	-4.62790				
C	1.98916	3.95267	-2.62160	H	6.33388	-4.02874	-3.35091				
C	3.21097	3.48993	-3.21192	H	6.32584	-5.11203	-1.20124				
C	4.44944	3.92856	-2.70285	H	6.34981	-5.15451	0.89875				
C	5.62607	3.46773	-3.35900	H	6.40837	-4.14236	3.08216				
C	5.58135	2.40865	-4.22651	H	6.47618	-2.51977	4.41092				
C	-3.08378	0.56440	-4.69150	H	6.55839	-0.18031	4.97253				
C	-3.03306	1.95451	-4.35568	H	6.61907	1.87136	4.54545				
C	-1.76593	2.54209	-4.03375	H	6.66320	3.78256	3.08111				

C	-3.51474	-4.13320	-0.25651	C	4.54104	1.49812	2.29390	C	-1.00965	-1.74547	-4.25769
C	-2.78677	-5.32228	-0.23307	C	5.08164	0.31800	2.90329	C	-2.26872	-1.22672	-3.89610
C	-1.40408	-5.32751	-0.21062	C	6.21150	-0.30903	2.34249	C	-2.61691	0.11115	-4.25236
C	-3.48833	0.79813	-0.20156	C	4.30722	-0.36314	3.89547	C	-3.90363	0.63758	-3.90276
C	-2.77924	2.01713	-0.18409	C	4.67647	-1.65971	4.30716	C	-4.27215	1.93381	-4.31567
C	-4.92157	0.79970	-0.20118	C	5.98300	-2.10807	3.96213	C	-3.03945	-1.90162	-2.90240
C	-5.63300	-0.42896	-0.22339	C	6.72460	-1.45520	3.01366	C	-4.13506	-1.21759	-2.29661
C	-4.93771	-1.65733	-0.24190	C	3.02005	0.16138	4.24627	C	-4.67657	-0.03856	-2.90641
C	-5.66157	-2.87650	-0.26491	C	2.67121	1.49959	3.89176	C	-5.80509	0.59091	-2.34475
C	-4.97995	-4.12986	-0.28093	C	3.44276	2.17757	2.90023	C	-6.31873	1.73557	-3.01740
C	-1.33846	4.48430	-0.14371	C	2.92767	3.34814	2.30745	C	-5.57763	2.38431	-3.96911
C	-0.60132	5.67109	-0.12334	C	3.30072	3.67504	0.96879	C	1.64580	-2.71547	-4.70181
C	0.77948	5.66729	-0.12310	C	4.17686	2.82067	0.27020	C	0.62268	-3.61089	-4.25477
C	-2.79657	4.49051	-0.14468	C	4.07831	2.73127	-1.15136	C	-0.64819	-3.07099	-3.86999
C	-3.49269	3.25603	-0.16226	C	4.71551	1.64449	-1.82263	C	-1.40839	-3.73632	-2.89477
C	-4.91723	3.24988	-0.16239	C	2.01753	-0.71739	4.68723	C	-2.52689	-3.07307	-2.30849
C	-5.62656	2.02004	-0.18206	C	2.30532	-2.11907	4.77624	C	-2.89784	-3.39759	-0.96854
C	-7.06691	2.02368	-0.18360	C	3.64140	-2.56674	4.76283	C	-3.76654	-2.53505	-0.26894
C	-7.75073	0.83034	-0.20601	C	1.41300	2.01757	4.25747	C	-4.49697	-1.53256	-0.97725
C	-7.07006	-0.41464	-0.22754	C	0.39373	1.12406	4.70601	C	-5.40535	-0.67335	-0.27459
C	-7.76503	-1.62068	-0.25432	C	0.66965	-0.25640	4.77370	C	-6.18470	0.26107	-0.98573
C	-7.09349	-2.85052	-0.27496	C	-0.39474	-1.18963	4.58841	C	-3.67302	-2.45044	1.15462
C	-7.81144	-4.07499	-0.30672	C	-0.07901	-2.55640	4.32436	C	-4.30829	-1.36147	1.82675
C	-7.13771	-5.26912	-0.32991	C	1.23812	-3.05470	4.59234	C	-5.30811	-0.58531	1.15233
C	-5.73071	-5.29767	-0.31775	C	1.52675	-4.42050	4.40053	C	-5.98949	0.43906	1.84022
C	-5.63545	4.47594	-0.14362	C	2.84087	-4.86247	4.72411	C	-7.00565	1.13831	1.12892
C	-7.07691	4.45609	-0.14322	C	3.86241	-3.96705	4.89871	C	-7.10083	1.05161	-0.23467
C	-7.75944	3.29052	-0.16224	C	1.05024	3.34321	3.87176	C	-0.89657	-4.93959	-2.30638
C	-4.92157	5.67513	-0.12708	C	1.80805	4.00884	2.89513	C	-1.27097	-5.26644	-0.96398
C	-3.53731	5.68128	-0.12808	C	-1.69693	-0.70970	4.34356	C	-2.14383	-4.37739	-0.25519
C	-0.71744	-0.45010	3.10455	C	-2.00380	0.66517	4.57400	C	-2.04797	-4.29101	1.14408
N	-1.64512	0.73103	3.00712	C	-0.95688	1.58287	4.75623	C	-2.70722	-3.22562	1.82847
C	-1.51368	-1.73942	3.10255	C	-1.24148	2.98737	4.70978	C	-2.15814	-2.73874	3.05312
H	-7.60095	5.40719	-0.12737	C	-0.21939	3.88290	4.26050	C	-2.59343	-1.49693	3.56009
H	7.77626	5.36524	-0.11445	C	-0.54602	5.21607	3.94076	C	-3.76960	-0.88551	3.03282
H	-8.85169	-1.60974	-0.26022	C	0.23527	5.90235	2.93113	C	-4.23018	0.36635	3.55769
H	-8.83753	0.83112	-0.20815	C	1.29348	5.21161	2.30796	C	-5.43064	0.93196	3.08252
H	-8.84518	3.27887	-0.16223	C	1.66554	5.53776	0.96481	C	-4.99530	2.91051	4.42526
H	-8.89665	-4.04436	-0.31457	C	2.54142	4.65136	0.25632	C	-5.85588	2.15575	3.67325
H	-7.68490	-6.20536	-0.35813	C	2.44509	4.56399	-1.14161	C	-1.07779	-5.09216	1.83061
H	-5.24477	-6.26515	-0.34129	C	3.10814	3.49996	-1.82430	C	-0.52598	-4.60350	3.05759
H	-3.29579	-6.27783	-0.22499	C	-3.33147	1.15470	4.34433	C	-0.96229	-3.33183	3.55597
H	-0.90513	-6.28743	-0.18609	C	-3.65008	2.49552	4.63920	C	0.61469	-5.22051	3.60745
H	1.01673	-6.29222	-0.21299	C	-2.56960	3.44223	4.83143	C	0.97152	-6.50274	3.10159
H	3.40737	-6.29633	-0.16662	C	-2.78192	4.85021	4.82237	C	0.44363	-6.97032	1.92726
H	5.35634	-6.29355	-0.07824	C	-1.80404	5.70720	4.39251	C	-0.47965	-6.18798	1.17670
H	7.79621	-6.24769	-0.03833	C	0.97133	6.54777	0.26856	C	-0.57971	-6.27807	-0.26712
H	9.01901	-4.09163	-0.03813	C	0.15101	7.42346	1.03575	C	0.23939	-7.15502	-1.03395
H	8.98641	-1.65758	-0.05806	C	-0.20376	7.11226	2.32156	C	0.59739	-6.84240	-2.31856
H	8.98633	0.78178	-0.07612	C	0.87234	6.45780	-1.17515	C	0.16246	-5.63077	-2.92754
H	9.00837	3.22920	-0.09172	C	1.47355	5.36311	-1.82834	C	0.94768	-4.94429	-3.93419
H	-5.46513	6.61509	-0.11363	C	2.55833	3.01151	-0.34810	C	2.20757	-5.43523	-4.38050
H	-3.03414	6.63958	-0.11567	C	1.36290	3.60352	-3.55394	C	3.18674	-4.57780	-4.80694
H	-1.10297	6.62996	-0.10603	C	0.92438	4.87497	-3.05678	C	2.97445	-3.16986	-4.81856
H	1.28633	6.62335	-0.10389	C	-0.21472	5.49210	-3.60976	C	4.05472	-2.22236	-4.62720
H	3.21680	6.62180	-0.15803	C	-0.57481	6.77327	-3.10337	C	5.40008	-2.63608	-4.41275
H	5.64776	6.58509	-0.14182	C	-0.05067	7.23951	-1.92689	C	6.26015	-1.87791	-3.66344
H	-2.10974	-1.83687	4.01261	C	4.17294	1.16264	-3.02502	C	5.83520	-0.65248	-3.07540
H	-2.18048	-1.79349	2.23693	C	2.99609	1.77094	-3.55454	C	-6.54843	-4.45716	-0.62736
H	-0.82241	-2.58285	3.04929	C	2.10008	0.98189	-4.33738	N	-7.10406	-3.44755	0.34109
H	-0.14718	-0.31737	4.02335	C	0.79880	1.46138	-4.58755	C	-5.70203	-5.47532	0.10876
H	-0.03795	-0.37765	2.25365	C	0.48210	2.82818	-4.32501	H	-4.46244	4.62044	-5.05465
H	-1.13557	1.61885	3.03472	C	-0.83399	3.32652	-4.59751	H	-2.66737	6.19340	-4.74298
H	-2.18911	0.70710	2.13608	C	-1.12362	4.69218	-4.40637	H	-1.35253	7.35009	-3.59053
H	-2.31613	0.74074	3.78162	C	-0.26512	0.52792	-4.77425	H	-0.43071	8.17063	-1.52224
				C	-1.61344	0.98920	-4.69226	H	-0.29003	8.29891	0.57291
				C	-1.90098	2.39100	-4.78334	H	-0.91339	7.75171	2.83391
				C	-3.23698	2.83919	-4.77392	H	-2.04082	6.76096	4.29881
				C	-3.45777	4.23923	-4.91267	H	-3.76059	5.25408	5.05527
				C	-2.43648	5.13423	-4.73536	H	-5.32324	3.88568	4.76666
				C	4.63400	-0.08946	-3.55012	H	-6.83578	2.55862	3.44453
				C	3.73530	-0.88133	-4.33358	H	-7.65232	1.83453	1.65081
				C	2.40753	-0.39315	-4.56605	H	-7.82006	1.68144	-0.74558
				C	1.36124	-1.31116	-4.75044	H	-7.25975	2.17298	-2.70412
				C	0.01056	-0.85254	-4.70533	H	-5.95846	3.31336	-4.37773
Ethylammonium-convex surface of SWCNT, CPCM											
C	7.50825	-0.76822	0.23638	C	5.61509	0.02569	0.98515	C	5.81850	0.96383	0.27503
C	6.59349	0.02569	0.98515	C	5.71932	0.87383	-1.14961	C	6.39684	-0.15369	-1.83613
C	5.81850	0.96383	0.27503	C	6.41306	-0.85518	-1.12681	C	4.90955	1.82092	0.97802

H	8.05724	-1.55366	-1.64893	C	-4.29388	-1.66603	-4.44535	C	5.48352	2.64907	-4.10650
H	8.22509	-1.40022	0.74816	C	-5.48680	-2.39993	-4.18901	C	5.47998	3.70119	-3.22959
H	7.66729	-1.89010	2.70170	C	-5.47690	-3.49925	-3.37222	C	4.27966	4.10870	-2.58058
H	6.36467	-3.03732	4.36963	C	-4.24687	-4.69061	1.36077	C	4.27933	4.70662	-1.26031
H	4.86766	-4.34829	5.03645	C	-5.44802	-4.91270	0.62881	C	5.47870	4.92882	-0.52516
H	3.07237	-5.92151	4.72962	C	-5.45494	-4.87486	-0.74026	C	5.48422	4.89175	0.84394
H	1.74982	-7.07992	3.58739	C	-4.24507	-4.09097	2.68031	C	4.29004	4.62957	1.57422
H	0.82157	-7.90240	1.52301	C	-3.02892	-3.60758	3.20293	C	4.30035	3.96218	2.86093
H	0.67767	-8.03206	-0.57162	C	-0.55525	-2.48857	4.10569	C	5.50544	3.52431	3.48082
H	1.30656	-7.48279	-2.83036	C	-1.79456	-1.85596	4.42299	C	5.51796	2.42858	4.30223
H	2.44478	-6.48869	-4.28478	C	-3.03383	-2.51155	4.12303	C	4.32643	1.69294	4.56115
H	4.16657	-4.98162	-5.03510	C	-4.25433	-1.91861	4.50300	C	4.34044	0.27033	4.83994
H	5.72893	-3.61171	-4.75205	C	-5.44842	-2.63916	4.21539	C	5.54632	-0.48655	4.87091
H	7.24086	-2.27914	-3.43502	C	-5.44389	-3.68826	3.33485	C	5.55567	-1.81280	4.52965
H	-6.29997	-6.04826	0.82108	C	1.89909	-2.46695	4.07426	C	4.36005	-2.47676	4.13267
H	-5.27407	-6.16862	-0.61709	C	0.66028	-1.85032	4.42336	O	0.56355	0.83612	-1.56174
H	-4.87794	-4.99512	0.64474	C	0.65006	-0.46759	4.77861	C	0.31649	-0.34226	-1.20631
H	-7.40608	-4.91124	-1.12260	C	-0.57524	0.22788	4.80413	O	1.13449	-1.29109	-1.09559
H	-5.97221	-3.89279	-1.36141	C	-1.80471	-0.49611	4.77182	C	-1.15225	-0.68584	-0.84397
H	-7.65232	-2.72389	-0.13339	C	-3.05408	0.20540	4.81902	C	-2.11629	0.48965	-0.89495
H	-6.35404	-2.97820	0.86136	C	-4.26508	-0.51390	4.86076	H	-6.43635	2.09777	4.64749
H	-7.71713	-3.89314	1.03052	C	-0.58864	1.62823	4.52635	H	-6.41483	-0.26329	5.12000
				C	-1.83076	2.26230	4.22348	H	-6.39804	-2.29544	4.60944
				C	-3.06736	1.60908	4.53904	H	-6.39037	-4.14085	3.06160
				C	-4.29118	2.26703	4.30483	H	-6.39379	-5.00626	1.15031
				C	-5.48289	1.58269	4.67788	H	-6.40625	-4.93917	-1.25629
				C	-5.47036	0.23964	4.94631	H	-6.42184	-3.96478	-3.11580
				C	3.13891	-1.83214	4.41372	H	-6.43928	-2.03211	-4.55337
				C	3.12883	-0.44580	4.77022	H	-6.45694	0.01699	-4.96448
				C	1.87942	0.25736	4.77507	H	-6.47392	2.35341	-4.38141
				C	1.86615	1.63481	4.50296	H	-6.48110	3.96551	-3.04133
				C	0.62395	2.28398	4.23369	H	-6.48064	4.95383	-0.84473
				C	0.61081	3.42539	3.37628	H	-6.47288	4.87942	1.25128
				C	-0.61445	3.87033	2.84078	H	-6.45596	3.77116	3.38952
				C	-1.84369	3.38364	3.37850	H	6.51479	-3.94045	3.12584
				C	-3.09309	3.85022	2.85245	H	6.51177	-4.93996	0.93483
				C	-4.30454	3.42532	3.43345	H	6.50302	-4.88107	-1.16317
				C	-0.62461	4.52722	1.57336	H	6.48422	-3.76745	-3.29927
				C	-1.86357	4.67819	0.88146	H	6.46415	-2.09062	-4.55274
				C	-3.10310	4.50886	1.58192	H	6.44493	0.27260	-5.01811
				C	-4.32477	4.73026	0.91568	H	6.43358	2.30040	-4.49541
				C	-5.51979	4.58618	1.67658	H	6.42704	4.15105	-2.95371
				C	-5.51029	3.95597	2.89273	H	6.42521	5.02396	-1.04513
				C	3.10259	2.30637	4.22785	H	6.43458	4.95871	1.36126
				C	3.08922	3.45182	3.36963	H	6.44932	3.99161	3.22393
				C	1.84007	3.88543	2.81551	H	6.47107	2.06425	4.66829
				C	1.83001	4.53064	1.56832	H	6.49265	0.00690	5.06117
				C	0.59048	4.71492	0.88474	H	6.50899	-2.32444	4.46140
				C	0.58491	4.75748	-0.54238	H	-1.80047	1.28711	-0.21335
				C	-0.63522	4.60892	-1.23228	H	-2.12775	0.91818	-1.90051
				C	-1.86871	4.71979	-0.52221	H	-3.13752	0.19409	-0.63029
				C	-3.11411	4.59262	-1.22124	H	-1.14448	-1.15041	0.15238
				C	-4.33039	4.77598	-0.53325	H	-1.48076	-1.47855	-1.52900
				C	-0.63482	4.03072	-2.53742				
				C	-1.86869	3.57769	-3.09268				
				C	-3.11347	4.01021	-2.52844				
				C	-4.33074	3.61713	-3.11963				
				C	-5.53144	4.11916	-2.54146				
				C	-5.53166	4.68073	-1.29231				
				C	3.06929	4.74205	0.87905				
				C	3.06341	4.78255	-0.55201				
				C	1.81913	4.61059	-1.24352				
				C	1.81835	4.03389	-2.52337				
				C	0.58532	3.61108	-3.10287				
				C	0.59038	2.51558	-4.01422				
				C	-0.62421	1.87721	-4.32652				
				C	-1.86268	2.50140	-3.94947				
				C	-3.10270	1.86188	-4.32708				
				C	-4.32514	2.50602	-4.04998				
				C	-5.51109	0.51154	-4.77429				
				C	-5.52085	1.84040	-4.44393				
				C	3.06366	3.62767	-3.10628				
				C	3.06734	2.52912	-4.02323				
				C	1.82698	1.87644	-4.32035				
				C	4.28810	1.93092	-4.39566				

C	2.96099	4.43882	-0.18144	H	3.44649	-6.32786	-0.19497	C	3.30826	4.71509	-4.40365
C	3.65534	3.20265	-0.18002	H	5.39524	-6.31950	-0.23061	C	4.40945	4.32323	-3.68940
C	5.08020	3.19662	-0.16030	H	7.83596	-6.26345	-0.22546	C	0.85121	4.29810	-4.75654
C	5.79926	4.42246	-0.14089	H	9.05058	-4.10408	-0.19841	C	-0.20299	3.37114	-4.63347
C	5.08676	5.62252	-0.13902	H	9.00975	-1.66842	-0.17091	C	-2.28004	1.45621	-4.17700
C	3.70264	5.62935	-0.15890	H	8.99876	0.77374	-0.14210	C	-2.43773	2.81027	-3.75415
C	5.08034	0.74698	-0.17778	H	9.00787	3.22194	-0.11396	C	-1.47688	3.80120	-4.14254
C	5.78823	1.96640	-0.16231	H	-5.47400	6.54623	-0.39455	C	-1.67317	5.15018	-3.78603
C	7.22867	1.96791	-0.14682	H	-3.04302	6.57834	-0.34349	C	-0.70511	6.09248	-4.23663
C	7.92209	3.23440	-0.12659	H	-1.11704	6.57723	-0.26388	C	0.51441	5.68090	-4.70478
C	7.24049	4.40088	-0.12314	H	1.27231	6.58104	-0.21166	C	-3.06270	-0.87042	-4.20313
C	5.79203	-0.48230	-0.18059	H	3.19990	6.58802	-0.15642	C	-3.23864	0.49048	-3.81064
C	7.22968	-0.47035	-0.16954	H	5.63118	6.56209	-0.12188	C	-4.18296	0.79914	-2.78524
C	7.91193	0.77401	-0.15190	H	-2.01582	-1.52772	4.06402	C	-4.13600	2.06271	-2.16305
C	3.65604	-1.71204	-0.20270	H	-2.09434	-1.55583	2.30669	C	-3.36644	3.11387	-2.74596
C	5.09429	-1.70947	-0.19208	H	-0.89177	-2.55296	3.15351	C	-3.33260	4.40748	-2.12873
C	5.81726	-2.93021	-0.19600	H	0.20008	-0.37827	3.97445	C	-2.63200	5.46352	-2.74491
C	7.24947	-2.90657	-0.19127	H	0.26473	-0.55962	2.23992	C	-4.56896	2.19029	-0.80857
C	7.92300	-1.67750	-0.17661					C	-4.21892	3.36487	-0.07711
C	0.80633	-1.71905	-0.21623					C	-3.76580	4.53513	-0.77055
C	1.52517	-2.95481	-0.20475					C	-3.48892	5.71614	-0.05315
C	2.95351	-2.95358	-0.20306					C	-3.08292	6.85635	-0.80357
C	3.66820	-4.18285	-0.20217					C	-2.66981	6.73431	-2.10391
C	5.13379	-4.18274	-0.20605					C	-4.04526	-1.85331	-3.85074
C	5.88277	-5.35262	-0.21793					C	-4.99234	-1.54371	-2.82303
C	7.28967	-5.32617	-0.21586					C	-4.92369	-0.26224	-2.18370
C	7.96518	-4.13271	-0.20132					C	-5.35050	-0.13636	-0.85195
C	0.82143	-4.18665	-0.19157					C	-5.03426	1.04979	-0.12400
C	1.55598	-5.37443	-0.19142					C	-4.87092	0.97061	1.29221
C	2.93878	-5.37149	-0.19683					C	-4.24806	2.03513	1.97401
C	-0.63636	-4.18776	-0.18420					C	-4.05789	3.28698	1.31568
C	-1.34273	-2.95793	-0.21323					C	-3.44418	4.37961	2.01189
C	-0.62818	-1.72010	-0.23294					C	-3.32243	5.63560	1.38463
C	-1.33481	-0.49957	-0.24124					C	-3.52246	1.76524	3.17366
C	-0.61089	5.62052	-0.25537					C	-2.62738	2.75557	3.67875
C	0.76912	5.62278	-0.22402					C	-2.71701	4.10908	3.21457
C	-3.47348	0.73699	-0.28930					C	-1.88123	5.09980	3.76700
C	-2.76742	-0.50229	-0.26631					C	-2.04657	6.43278	3.29442
C	-3.47546	-1.71998	-0.25330					C	-2.74219	6.69163	2.14328
C	-2.77061	-2.96055	-0.22577					C	-5.84507	-1.29219	-0.16272
C	-3.48231	-4.19129	-0.20374					C	-5.68163	-1.37144	1.25705
C	-2.75068	-5.37777	-0.15635					C	-5.02931	-0.29192	1.93835
C	-1.36800	-5.37682	-0.14660					C	-4.31547	-0.55734	3.11816
C	-4.90508	0.73330	-0.31459					C	-3.44397	0.44069	3.64875
C	-5.61428	-0.49740	-0.30598					C	-2.29578	0.03361	4.39379
C	-4.91380	-1.72213	-0.27508					C	-1.26663	0.96510	4.63687
C	-5.63369	-2.94458	-0.26462					C	-1.49784	2.35517	4.41091
C	-4.94755	-4.19490	-0.23076					C	-0.46123	3.30926	4.67669
C	-5.61737	1.95033	-0.34208					C	-0.71534	4.68656	4.52278
C	-7.05773	1.94806	-0.36789					C	0.07604	0.50076	4.77909
C	-7.73780	0.75238	-0.36214					C	1.14691	1.44013	4.68895
C	-7.05159	-0.48947	-0.33033					C	0.88476	2.84393	4.81835
C	-7.74207	-1.69814	-0.32229					C	1.95159	3.76433	4.80142
C	-7.06558	-2.92532	-0.29003					C	1.62938	5.14044	4.97775
C	-7.77865	-4.15287	-0.28278					C	0.34119	5.58565	4.84282
C	-7.10056	-5.34463	-0.25375					C	-4.25434	-1.90155	3.61295
C	-5.69380	-5.36662	-0.22868					C	-3.10308	-2.30984	4.35965
C	-7.07679	4.38048	-0.40042					C	-2.05348	-1.35979	4.58551
C	-7.75507	3.21207	-0.39844					C	-0.73319	-1.81664	4.72575
C	-1.08625	0.96916	2.89560					C	0.34193	-0.87923	4.67231
O	-2.33241	1.00455	2.75197					C	1.61194	-1.30893	4.18140
C	-0.43077	-0.42237	3.07766					C	2.57067	-0.34362	3.81367
C	-1.40757	-1.58613	3.15624					C	2.39579	1.01764	4.20572
O	-0.29193	1.94374	2.90792					C	3.37948	1.99952	3.85250
H	-7.60427	5.32970	-0.42327					C	3.24108	3.32803	4.30237
H	7.76561	5.35156	-0.10706					C	5.17876	3.94767	2.97108
H	-8.82873	-1.69194	-0.34100					C	4.27178	4.24628	3.95304
H	-8.82453	0.74871	-0.38086					C	-0.46611	-3.22296	4.63904
H	-8.84069	3.19618	-0.41912					C	0.80716	-3.65367	4.14689
H	-8.86395	-4.12682	-0.30185					C	1.76800	-2.66309	3.75828
H	-7.64423	-6.28341	-0.25038					C	1.00181	-5.00246	3.78842
H	-5.20381	-6.33217	-0.20908					C	0.03341	-5.94431	4.23934
H	-3.25607	-6.33486	-0.12503					C	-1.18502	-5.53255	4.71017
H	-0.86446	-6.33396	-0.10603					C	-1.52056	-4.14951	4.76363
H	1.05467	-6.33353	-0.19106					C	-2.88367	-3.67747	4.61890

C	-3.97839	-4.56499	4.41506	C	-3.07223	-3.98738	-2.62304	C	-0.61531	-1.66300	4.45811
C	-5.07993	-4.17412	3.70112	C	-4.29003	-3.60284	-3.21756	C	0.60784	-2.29935	4.16663
C	-5.16418	-2.86812	3.13973	C	0.62171	-2.42999	-4.08051	C	1.83951	-1.63633	4.44961
C	-5.90143	-2.59402	1.92206	C	0.62557	-3.53432	-3.17397	C	3.08640	-2.28804	4.17519
C	-6.59152	-3.61305	1.20572	C	-0.59384	-3.97450	-2.61800	C	4.29997	-1.66173	4.52192
C	-6.74824	-3.53716	-0.15271	C	-0.59340	-4.57937	-1.32354	C	0.61468	-3.43465	3.30069
C	-6.22468	-2.43754	-0.89067	C	-1.82946	-4.71640	-0.62184	C	1.85340	-3.87180	2.74224
C	-5.78349	-2.56751	-2.26527	C	-3.07162	-4.59326	-1.32668	C	3.09360	-3.42484	3.30604
C	-5.84283	-3.80406	-2.96858	C	-4.28871	-4.80206	-0.64850	C	4.31429	-3.91379	2.79955
C	-4.93642	-4.10059	-3.95149	C	-5.48665	-4.70950	-1.41340	C	5.50988	-3.46613	3.43006
C	-3.90634	-3.18150	-4.30089	C	-5.48719	-4.12960	-2.65406	C	5.50261	-2.37857	4.26254
O	7.45602	-0.63000	-1.59315	C	1.85477	-1.77617	-4.37927	C	-3.10138	-0.27685	4.75165
C	7.54575	-1.06921	-0.41880	C	1.84822	-0.41124	-4.70856	C	-3.09386	-1.67781	4.45873
O	7.90245	-0.43549	0.60408	C	0.62733	-4.72423	-0.62969	C	-1.84709	-2.31171	4.14403
C	7.20613	-2.57023	-0.23992	C	1.86480	-4.54805	-1.32348	C	-1.84063	-3.42711	3.29134
C	7.12874	-3.03624	1.20643	C	1.86324	-3.95268	-2.59614	C	-0.60218	-3.89299	2.75666
H	-2.99300	7.82213	-0.31942	C	3.10559	-3.52370	-3.16965	C	-0.59745	-4.53924	1.48360
H	-2.26745	7.60762	-2.60455	C	3.10090	-2.41751	-4.07702	C	0.62472	-4.70426	0.80050
H	-0.88178	7.15478	-4.11236	C	4.31559	-1.80251	-4.43957	C	1.85895	-4.50826	1.49065
H	1.26272	6.43115	-4.93384	C	4.30915	-0.39397	-4.78234	C	3.10437	-4.69156	0.80390
H	3.23533	5.74969	-4.71914	C	3.08813	0.30791	-4.73977	C	4.31980	-4.56740	1.50566
H	5.17117	5.06130	-3.46473	C	3.08017	1.70870	-4.44637	C	5.52365	-4.82459	-0.59135
H	6.24528	4.65957	-1.71035	C	1.83331	2.34203	-4.13140	C	5.52089	-4.80339	0.77811
H	6.52719	4.52220	0.67867	C	1.82659	3.45663	-3.27760	C	-3.08081	-3.90577	2.75476
H	5.87856	4.71541	2.66087	C	0.58804	3.92174	-2.74225	C	-3.07637	-4.55100	1.47744
H	4.28480	5.23986	4.38647	C	3.10778	-4.71204	-0.62719	C	-1.83110	-4.69614	0.78194
H	2.41898	5.87031	5.11546	C	4.32497	-4.61012	-1.32932	C	-4.29126	-4.77878	0.80101
H	0.15447	6.65286	4.87769	C	4.32391	-3.99619	-2.64271	C	-5.49222	-4.65965	1.55698
H	-1.52984	7.25015	3.78443	C	5.52169	-3.56909	-3.28295	C	-5.49642	-4.04236	2.77956
H	-2.75366	7.70568	1.76038	C	5.51727	-2.50965	-4.15108	C	-4.30062	-3.50116	3.33193
H	-3.08421	-5.72275	-5.11836	C	4.29364	2.38111	-4.20001	C	-4.30741	-2.35036	4.21308
H	-0.81930	-6.50438	-4.88029	C	5.49660	1.71696	-4.57272	C	-5.51042	-1.68597	4.58526
H	0.86276	-7.10204	-3.78399	C	5.50446	0.37650	-4.85353	C	-5.51772	-0.34530	4.86488
H	2.08434	-7.55752	-1.75868	C	4.28682	3.53208	-3.31896	C	-4.32234	0.42524	4.79328
H	2.32341	-7.67433	0.32130	C	3.06684	3.93582	-2.74122	C	-4.32875	1.83386	4.45098
H	1.59558	-7.46014	2.60567	C	0.58282	4.56691	-1.46867	C	-5.53075	2.54116	4.16367
H	0.20905	-6.00662	4.11350	C	1.81639	4.72679	-0.76875	C	-5.53491	3.60058	3.29558
H	-1.93345	-6.28254	4.93961	C	3.06178	4.58194	-1.46423	C	-4.33716	4.02799	2.65501
H	-3.90595	-5.59891	4.73283	C	4.27692	4.81046	-0.78842	C	-4.33813	4.64168	1.34179
H	-5.84258	-4.91181	3.47863	C	5.47784	4.69106	-1.54446	C	-5.53689	4.85599	0.60355
H	-6.90745	-4.51582	1.71610	C	5.48260	4.07361	-2.76703	C	-5.53450	4.83463	-0.76590
H	-7.18559	-4.38170	-0.67294	C	-1.87205	4.53529	-1.47612	C	-4.33316	4.59773	-1.49291
H	-6.54199	-4.57234	-2.65848	C	-0.63862	4.73051	-0.78493	H	0.54840	-1.05638	0.53544
H	-4.94918	-5.09365	-4.38607	C	-0.64115	4.75298	0.64277	N	0.54408	-1.21801	-0.47506
H	6.83326	-4.08849	1.28017	C	0.57791	4.61036	1.33545	H	6.42168	4.01391	3.16955
H	6.40201	-2.43724	1.76324	C	1.81388	4.74868	0.63506	H	6.42008	5.03419	0.98836
H	8.09501	-2.91252	1.70227	C	3.05678	4.62610	1.33930	H	6.42481	4.99253	-1.11136
H	7.96876	-3.14295	-0.78491	C	4.27420	4.83462	0.66121	H	6.43323	3.90710	-3.26067
H	6.26449	-2.76414	-0.76790	C	0.57881	4.00534	2.62846	H	6.44257	2.24488	-4.53279
				C	1.81557	3.55774	3.18257	H	6.45668	-0.11181	-5.02635
				C	3.05757	4.01996	2.63564	H	6.46479	-2.14838	-4.53414
				C	4.27568	3.63534	3.22999	H	6.47242	-4.01121	-3.00786
				C	5.47287	4.16205	2.66668	H	6.47394	-4.90022	-1.10730
				C	5.47219	4.74199	1.42593	H	6.46942	-4.86238	1.29959
				C	-3.11764	4.72078	-0.79079	H	6.46138	-3.91814	3.17423
				C	-3.12016	4.74321	0.64041	H	6.44869	-2.00559	4.63789
				C	-1.87694	4.57893	1.33548	H	6.43967	0.04673	5.05827
				C	-1.87602	3.98405	2.60714	H	6.42805	2.38623	4.48988
				C	-0.63943	3.56486	3.18336	H	-6.47474	3.94827	-3.16134
				C	-0.63531	2.45992	4.08715	H	-6.46252	2.03711	-4.62684
				C	0.58678	1.83367	4.40371	H	-6.45318	-0.01525	-5.04714
				C	1.81952	2.47153	4.07188	H	-6.44226	-2.35465	-4.47852
				C	3.06540	1.84858	4.41109	H	-6.43589	-3.98183	-3.15717
				C	4.27979	2.51275	4.14703	H	-6.43446	-5.00211	-0.97607
				C	0.59328	0.44627	4.74053	H	-6.43925	-4.96074	1.12387
				C	1.83221	-0.26194	4.73655	H	-6.44698	-3.87559	3.27322
				C	3.07202	0.45779	4.74911	H	-6.45647	-2.21375	4.54578
				C	4.29280	-0.24257	4.81802	H	-6.46986	0.14336	5.03728
				C	5.48811	0.52980	4.86765	H	-6.47815	2.18009	4.54728
				C	5.48159	1.86047	4.54408	H	-6.48569	4.04306	3.02088
				C	-3.11808	3.55587	3.18109	H	-6.48720	4.93195	1.11961
				C	-3.11401	2.44848	4.08744	H	-6.48300	4.89400	-1.28747
				C	-1.86793	1.80628	4.38763	H	-0.30325	-0.81102	-0.87880
				C	-1.86161	0.44209	4.71955	H	1.36793	-0.77693	-0.89106
				C	-0.62282	-0.26559	4.75050	H	0.56259	-2.22729	-0.65551

Ammonium-graphene, CPCM						
C	7.17328	4.40310	-0.08076	C	-7.15048	4.38737
C	5.73189	4.42504	-0.08567	C	-7.82830	3.21883
C	5.01154	3.19982	-0.08032	C	-5.00016	5.61469
C	5.71837	1.96900	-0.07080	C	-3.61581	5.62541
C	7.15885	1.97059	-0.06520	C	5.02034	5.62563
C	7.85380	3.23617	-0.07071	C	3.63604	5.63306
C	5.01004	0.74979	-0.06662	H	-1.21772	-0.04674
C	5.72065	-0.47956	-0.05699	H	-1.21772	3.62673
C	7.15772	-0.46758	-0.05002	N	-0.73065	0.78852
C	7.84099	0.77612	-0.05478	H	-7.67827	5.33652
C	5.02337	-1.70648	-0.05364	H	7.69890	5.35346
C	3.58531	-1.70924	-0.06025	H	-8.90200	-1.68530
C	2.87441	-0.49312	-0.06854	H	-8.89686	0.75541
C	3.57758	0.74990	-0.07320	H	-8.91402	3.20280
C	2.87210	1.96921	-0.08065	H	-8.93794	-4.12065
C	3.58686	3.20681	-0.08454	H	-7.71828	-6.27777
C	5.74585	-2.92691	-0.04279	H	-5.27783	-6.32783
C	7.17769	-2.90366	-0.03355	H	-3.32814	-6.33198
C	7.85121	-1.67454	-0.03815	H	-0.93694	-6.33240
C	2.88234	-2.95060	-0.05753	H	0.98369	-6.33007
C	3.59716	-4.17990	-0.05225	H	3.37496	-6.32479
C	5.06252	-4.17904	-0.03932	H	5.32449	-6.31541
C	5.81197	-5.34843	-0.02185	H	7.76469	-6.26007
C	7.21889	-5.32272	-0.01232	H	8.97945	-4.09997
C	7.89416	-4.12908	-0.01895	H	8.93794	-1.66526
C	1.44134	-0.49481	-0.07789	H	8.92782	0.77503
C	0.73615	-1.71623	-0.07031	H	8.93954	3.22259
C	1.45425	-2.95206	-0.06289	H	-5.54715	6.55274
C	0.75007	-4.18360	-0.06077	H	-3.11597	6.58558
C	1.48476	-5.37094	-0.06604	H	-1.18533	6.58402
C	2.86769	-5.36828	-0.06189	H	1.20395	6.58605
C	1.43873	1.96890	-0.08897	H	3.13409	6.59210
C	0.73408	0.74572	-0.08539	H	5.56526	6.56487
C	-0.69896	-1.71874	-0.07763	H	-1.21816	1.62278
C	-1.41502	-2.95583	-0.06684	H	0.22766	0.78834
C	-0.70793	-4.18559	-0.05596	H	-0.71431	0.78991
C	-1.40762	-0.49930	-0.08334			
C	-0.70057	0.74402	-0.09679			
C	-2.84123	-0.50004	-0.08518			
C	-3.54918	-1.71757	-0.07569			
C	-2.84318	-2.95725	-0.06852			
C	-3.55523	-4.18798	-0.05798			
C	-2.82289	-5.37453	-0.03772			
C	-1.43998	-5.37446	-0.03648			
C	2.89359	4.44321	-0.09237			
C	1.43579	4.43961	-0.09259			
C	0.72736	3.20767	-0.09198			
C	-0.70140	3.20705	-0.09543			
C	-1.41054	1.96691	-0.09160			
C	-2.84443	1.96320	-0.09317			
C	-3.54684	0.74196	-0.08595			
C	-4.97935	0.73866	-0.08693			
C	-5.68720	-0.49243	-0.08176			
C	-4.98722	-1.71790	-0.07633			
C	-5.70703	-2.94000	-0.07210			
C	-5.02074	-4.19069	-0.06591			
C	-7.12439	-0.48374	-0.08352			
C	-7.81526	-1.69221	-0.08088			
C	-7.13904	-2.91985	-0.07588			
C	-7.85256	-4.14713	-0.07560			
C	-7.17446	-5.33915	-0.07342			
C	-5.76743	-5.36191	-0.06922			
C	-7.81003	0.75874	-0.08896			
C	-7.13057	1.95473	-0.09262			
C	-5.69010	1.95649	-0.09122			
C	-4.98614	3.18890	-0.09556			
C	-3.56155	3.19939	-0.09412			
C	-2.87075	4.43728	-0.09783			
C	-1.41290	4.43708	-0.09495			
C	-0.68018	5.62684	-0.09216			
C	0.70058	5.62794	-0.09106			
C	-5.70915	4.41262	-0.10070			
Ammonium-convex surface of SWCNT, CPCM						
C	7.15048	4.38737	-0.10211	C	1.71213	4.07017
C	-7.82830	3.21883	-0.09831	C	1.69636	4.59029
C	-5.00016	5.61469	-0.10512	C	2.93355	4.76358
C	-3.61581	5.62541	-0.10385	C	2.93614	4.66112
C	5.02034	5.62563	-0.09615	C	4.15757	4.54783
C	3.63604	5.63306	-0.09948	C	4.18160	3.82647
H	-1.21772	-0.04674	3.62673	C	2.98276	3.26405
N	-0.73065	0.78852	3.29485	C	3.02246	2.08113
H	-7.67827	5.33652	-0.10668	C	1.80292	1.36627
H	7.69890	5.35346	-0.08523	C	1.85105	-0.02194
H	-8.90200	-1.68530	-0.08319	C	0.64077	-0.77759
H	-8.89686	0.75541	-0.09019	C	2.96743	3.72761
H	-8.91402	3.20280	-0.09952	C	4.16912	4.21524
H	-8.93794	-4.12065	-0.07844	C	4.15161	4.74948
H	-7.71828	-6.27777	-0.07528	C	5.34379	4.96759
H	-5.27783	-6.32783	-0.07010	C	5.34648	4.87013
H	-3.32814	-6.33198	-0.02021	C	4.26070	1.48398
H	-0.93694	-6.33240	-0.01680	C	5.43395	2.26007
H	0.98369	-6.33007	-0.07598	C	5.39608	3.39180
H	3.37496	-6.32479	-0.06763	C	4.31063	0.05081
H	5.32449	-6.31541	-0.01342	C	3.11813	-0.69183
H	7.76469	-6.26007	0.00081	C	0.68807	-2.14031
H	8.97945	-4.09997	-0.01194	C	1.94350	-2.70697
H	8.93794	-1.66526	-0.03191	C	3.16562	-2.05789
H	8.92782	0.77503	-0.05013	C	4.40394	-2.65609
H	8.93954	3.22259	-0.06683	C	5.58074	-1.98201
H	-5.54715	6.55274	-0.11025	C	5.53562	-0.67489
H	-3.11597	6.58558	-0.10858	C	-1.76597	-2.20879
H	-1.18533	6.58402	-0.08990	C	-0.50990	-2.79319
H	1.20395	6.58605	-0.08725	C	-0.47443	-3.83993
H	3.13409	6.59210	-0.10910	C	0.75760	-4.19764
H	5.56526	6.56487	-0.10169	C	1.97828	-3.73652
H	-1.21816	1.62278	3.62860	C	3.23508	-4.11644
H	0.22766	0.78834	3.65035	C	4.43989	-3.72089
H	-0.71431	0.78991	2.26920	C	0.77532	-4.72602
				C	2.01305	-4.77713
				C	3.25267	-4.64664
				C	4.47469	-4.76985
				C	5.67098	-4.67486
				C	5.65416	-4.16795
				C	-2.98716	-2.88002
				C	-2.95158	-3.92903
				C	-1.69607	-4.27157
				C	-1.67876	-4.79045
				C	-0.43978	-4.87657
				C	-0.44327	-4.77555
				C	0.76858	-4.52865
				C	2.00972	-4.67789
				C	3.24613	-4.44768
				C	4.47130	-4.66506
				C	0.74493	-3.81739
				C	1.96286	-3.27582
				C	3.22242	-3.73421
				C	4.42424	-3.25050
				C	5.64192	-3.77455
				C	5.66444	-4.45755
				C	-2.91716	-4.96356
				C	-2.92061	-4.86203
				C	-1.68565	-4.59212
				C	-1.70888	-3.89375
				C	-0.49015	-3.37867
				C	-0.52994	-2.19763
				C	0.66637	-1.49786
				C	1.92358	-2.11428
				C	3.14367	-1.41496
				C	4.38360	-2.05194
				C	0.61739	-0.08637
				C	1.82793	0.66662
				C	3.09486	0.00001
				C	4.28709	0.75146
				C	5.51128	0.03411
				C	5.55793	-1.31974
				C	-2.96731	-3.46656
				C	-3.00719	-2.28328
				C	-1.78753	-1.56826

C	-1.83569	-0.18004	-4.74283	C	-3.15061	1.85567	-4.28491	C	-4.14238	-4.74966	-1.75587
C	-0.62554	0.57553	-4.70579	C	-1.92845	2.50519	-3.91019	C	-5.33099	-5.07196	-1.04094
C	-0.67291	1.93816	-4.28252	C	-4.38893	2.45429	-3.97893	C	-5.32764	-5.16922	0.32519
C	0.52529	2.59141	-3.93046	C	-5.56561	1.78009	-4.41263	C	-4.13551	-4.95044	1.07274
C	1.78151	2.00682	-4.27208	C	-5.52009	0.47272	-4.81829	C	-4.15343	-4.41629	2.42007
C	3.00259	2.67824	-3.93532	C	-4.29523	-0.25302	-4.81847	C	-5.36422	-4.07688	3.08799
C	4.23902	2.13547	-4.33757	C	-4.24540	-1.68636	-4.60745	C	-5.39819	-3.07297	4.01902
C	5.37997	3.87557	-3.07892	C	-5.41875	-2.46237	-4.38713	C	-4.22370	-2.33787	4.34775
C	5.41351	2.87096	-4.00905	C	-5.38072	-3.59393	-3.61683				
C	-3.10276	0.48971	-4.70892	C	-4.16640	-4.02855	-3.01306	H	-6.53246	2.26202	-4.32363
H	-0.93106	8.03459	0.60035	H	6.37302	2.57050	-4.41428	H	-6.45235	-0.03536	-5.03702
N	-0.59948	7.97604	-0.36498	H	6.44283	0.56778	-5.03519	H	-6.37970	-2.10567	-4.73974
H	6.62779	-4.90315	0.68115	H	6.52429	-1.81107	-4.67690	H	-6.31317	-4.09539	-3.38406
H	6.59870	-4.01452	2.91855	H	6.58352	-3.54348	-3.49669	H	-6.27840	-5.13937	-1.56351
H	6.54748	-2.46416	4.33209	H	6.62336	-4.74544	-1.40902	H	-6.27270	-5.31018	0.83701
H	6.46791	-0.16699	5.04655	H	6.42726	-0.77028	5.04554	H	-6.29800	-4.53877	2.78805
H	6.39496	1.90320	4.74771	H	6.50935	1.60856	4.68736	H	-6.35777	-2.77280	4.42430
H	6.32854	3.89314	3.39258	H	6.56819	3.34034	3.50559	H	-1.34057	8.27992	-0.99998
H	6.29370	4.93730	1.57286	H	6.60863	4.54281	1.41849	H	0.21848	8.57781	-0.48233
H	6.28902	5.10829	-0.82745	H	6.61392	4.69979	-0.67223	H	-0.34259	7.00573	-0.57913
H	6.31376	4.33766	-2.77944	H	6.58398	3.81177	-2.90962				