

Supporting Information

Theoretical Investigations on P-stabilized Boryl Cation Radicals: From Aufbau Principle to SOMO-HOMO Conversion

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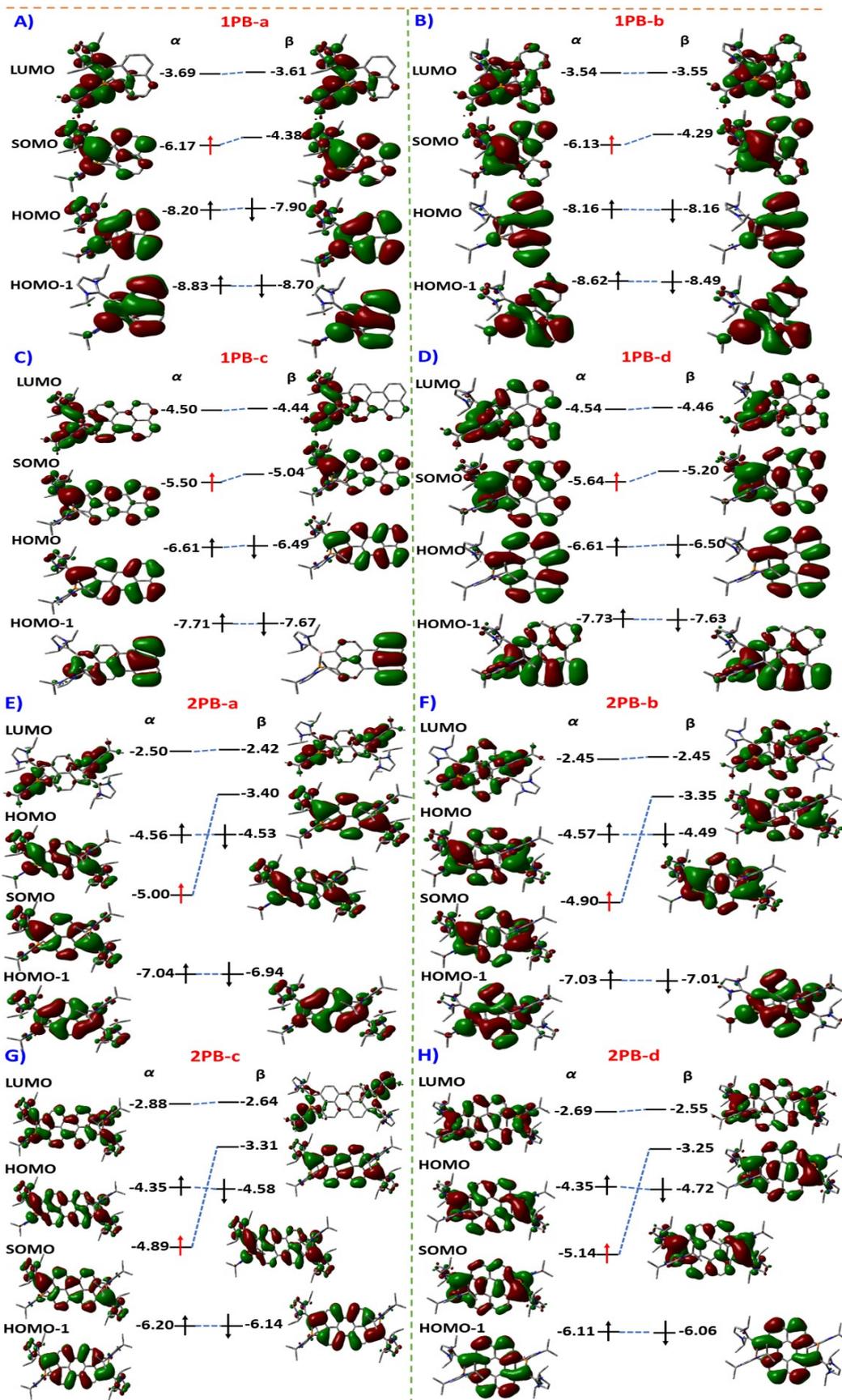


Figure S1. Orbital energies (in eV) and isosurfaces (± 0.02 a.u.) for the studied compounds at UB3LYP-D3/6-31G(d) level.

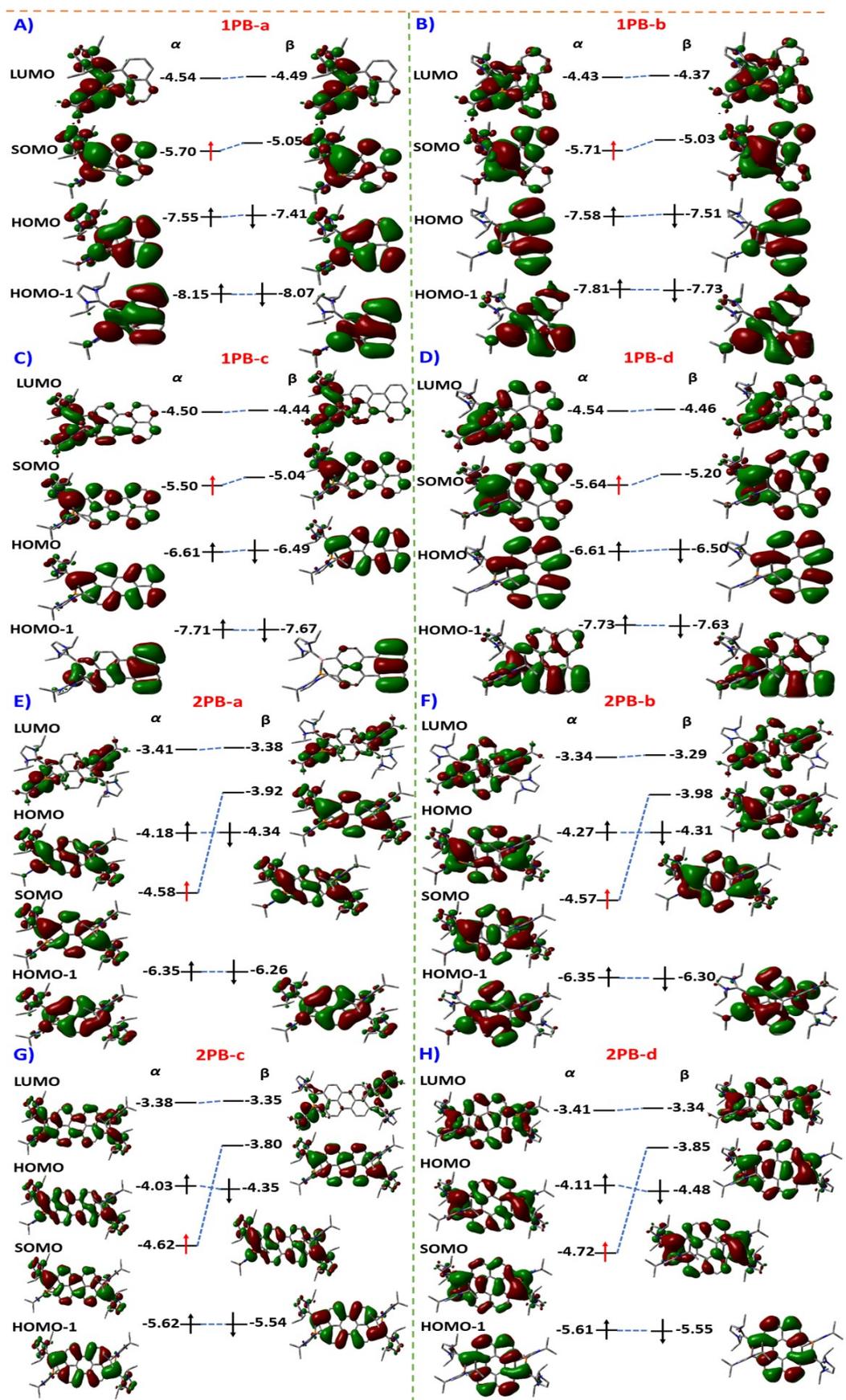


Figure S2. Orbital energies (in eV) and isosurfaces (± 0.02 a.u.) for the studied compounds at UB3P86/6-31G(d) level.

Table S1 NBO analysis data of the studied compounds from **1PB-a** to **1PB-d** on the basis of UB3LYP/6-31G(d) level.

	1PB-a	1PB-b	1PB-c	1PB-d
$d_{(P-B)}/\text{\AA}$	1.96	1.91	1.96	1.90
Occ.(LP _P) ^[a]	0.93	0.92	0.93	0.91
Occ.(LP* _B) ^[a]	0.14	0.13	0.18	0.18
Occ.(σ _{P-C}) ^[a]	0.98	0.98	0.98	0.97
Occ.(σ _{B-C}) ^[a]	0.98	0.98	0.98	0.98
Occ.(σ _{P-B}) ^[a]	0.96	0.97	0.96	0.97
Polarization% ^[b]	56.33(P)	55.27(P)	56.11(P)	54.44(P)
(σ _{P-B})	43.67(B)	44.73(B)	43.89(B)	45.56(B)
Hybridisation ^[c]	sp ^{3.50} d ^{0.01}	sp ^{2.95} d ^{0.01}	sp ^{3.52} d ^{0.01}	sp ^{3.06} d ^{0.01}
(σ _{P-B})	sp ^{2.37} d ^{0.00}	sp ^{2.12} d ^{0.00}	sp ^{2.39} d ^{0.00}	sp ^{2.13} d ^{0.00}
$E(2)^{[d]}$ (LP _P →LP* _B)	3.77	3.73	3.75	4.83
$E(2)^{[d]}$ (LP* _B →σ* _{P-C})	2.15	2.64	2.52	3.04

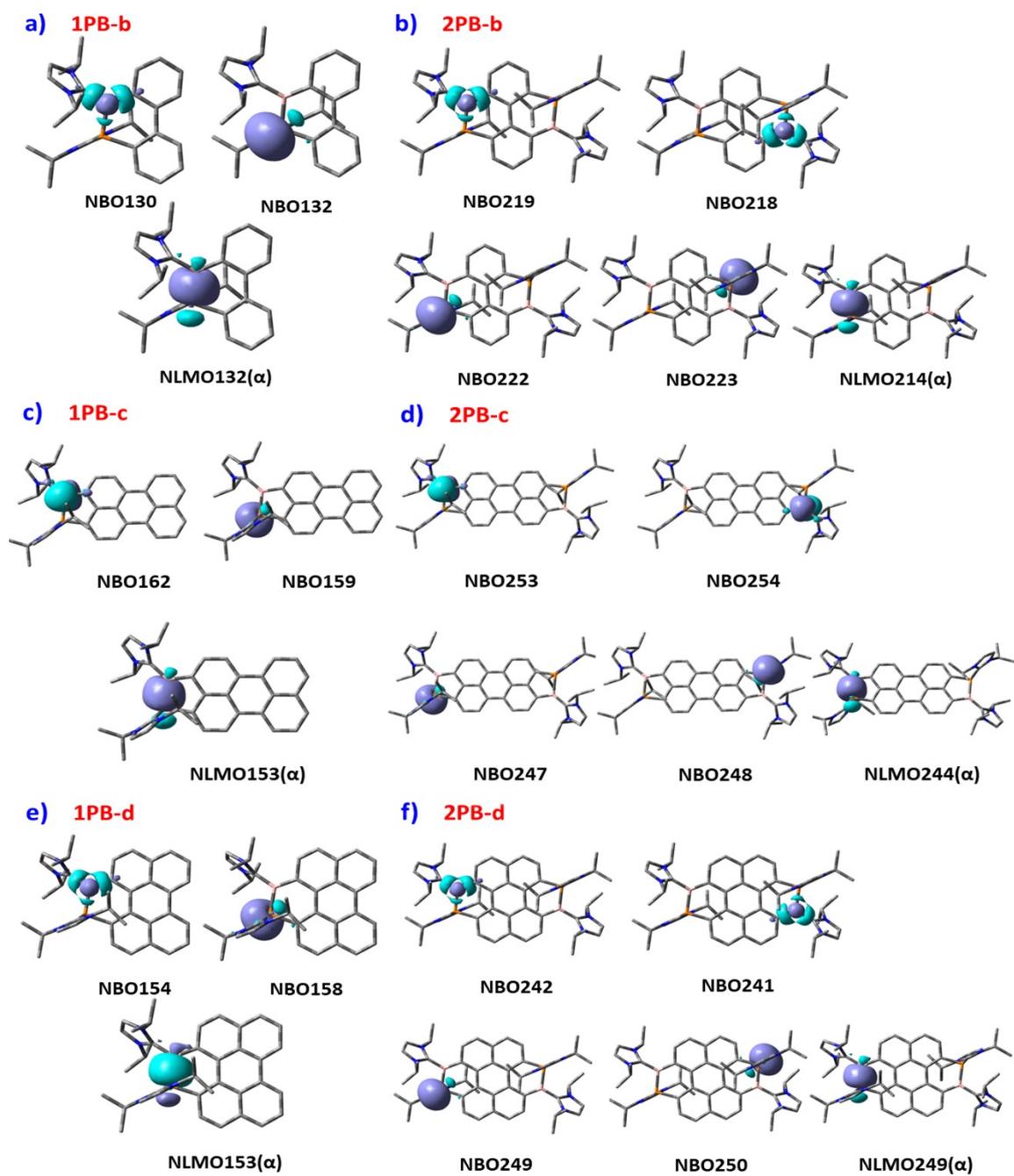


Figure S3. Calculated NBOs and NLMOs that show the LP_p and the localized LP_B^* in the studied compounds.

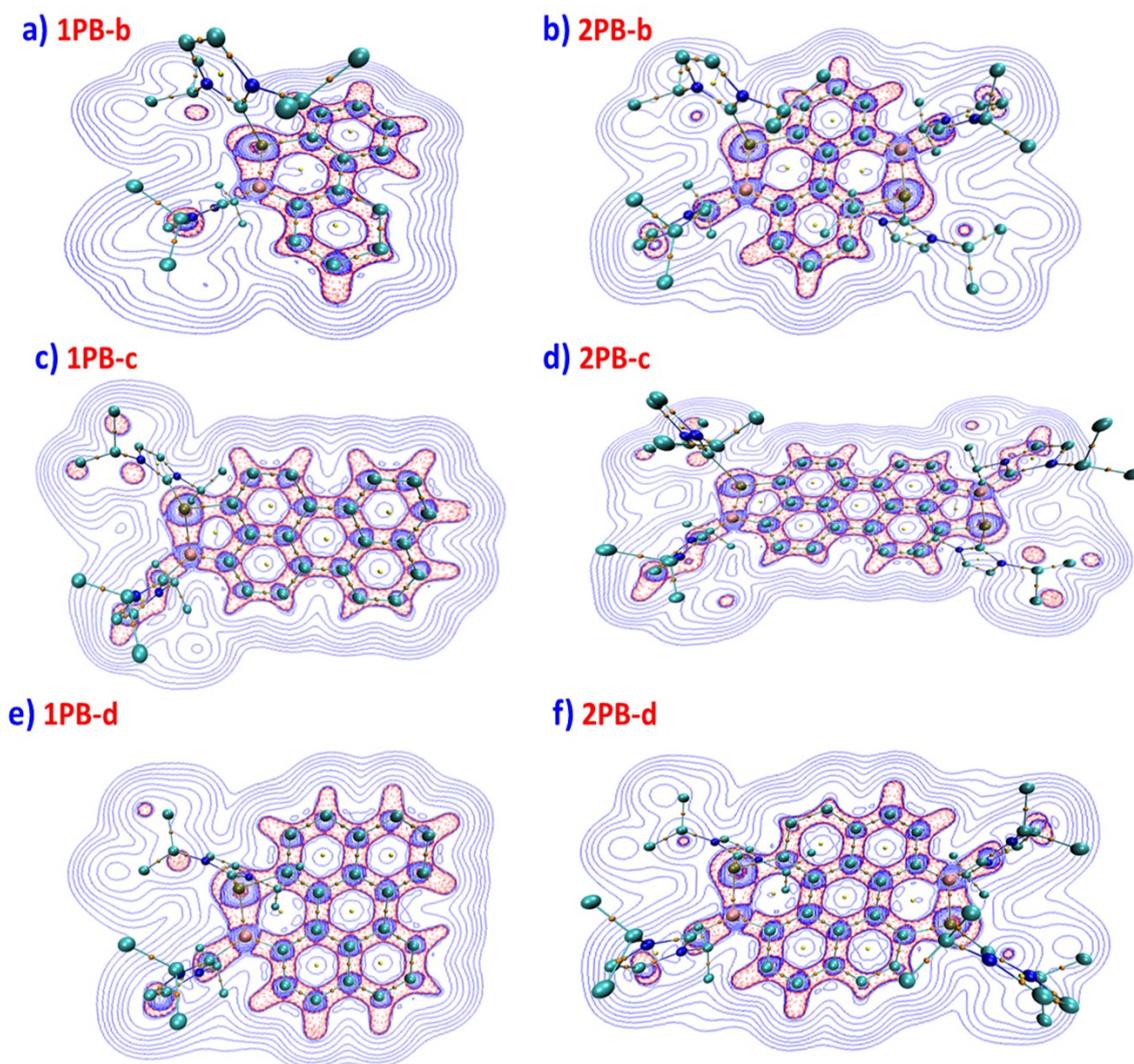


Figure S4. Plot of the Laplacian $\nabla^2\rho(r)$ and critical points in the plane containing P and B atoms at the UB3LYP/6-31G(d) level of theory. Red dashed lines indicate areas of charge concentration ($\nabla^2\rho(r)<0$) while solid blue lines show areas of charge depletion ($\nabla^2\rho(r)>0$). Orange dots are bond critical points, yellow dots are ring critical points.

Table S2 Calculated excited wavelengths (λ), oscillator strengths (f) and the transition nature of the selected transitions of studied compounds at TD-DFT//UB3LYP/6-31G(d) level.

Compounds	Excited state	Wavelength/nm	f	Transition nature	
1PB-a	S_1	692.2	0.06	SOMO(α) \rightarrow LUMO(α)	94%
	S_5	439.7	0.14	HOMO(β) \rightarrow SUMO(β)	66%
1PB-b	S_1	676.5	0.02	SOMO(α) \rightarrow LUMO(α)	99%
	S_3	500.8	0.04	HOMO(α) \rightarrow LUMO+3(α)	72%
	S_5	415.3	0.04	HOMO(β) \rightarrow SUMO(β)	57%
	S_{12}	322.7	0.12	HOMO-2(β) \rightarrow SUMO(β)	50%
1PB-c	S_1	983.0	0.10	SOMO(α) \rightarrow LUMO(α)	86%
	S_3	612.5	0.04	SOMO(α) \rightarrow LUMO+1(α)	94%
	S_5	496.1	0.17	SOMO(α) \rightarrow LUMO+2(α)	69%
	S_6	480.8	0.15	SOMO(α) \rightarrow LUMO+3(α)	81%
	S_{10}	396.9	0.10	HOMO-1(β) \rightarrow SUMO(β)	57%

1PB-d	S_{27}	304.3	0.09	HOMO-1(β) \rightarrow LUMO(β)	36%
	S_1	890.0	0.04	SOMO(α) \rightarrow LUMO(α)	82%
	S_2	690.4	0.11	HOMO(β) \rightarrow SUMO(β)	69%
	S_8	428.1	0.05	HOMO-1(β) \rightarrow SUMO(β)	70%
	S_{10}	395.2	0.11	HOMO(β) \rightarrow LUMO(β) HOMO(α) \rightarrow LUMO(α) SOMO(α) \rightarrow LUMO+6(α)	34% 22% 22%
2PB-a	S_{16}	346.6	0.19	HOMO-5(β) \rightarrow SUMO(β) HOMO-2(β) \rightarrow SUMO(β) HOMO-4(β) \rightarrow SUMO(β)	17% 17% 12%
	S_1	2339.7	0.08	HOMO(β) \rightarrow SUMO(β)	96%
	S_3	852.1	0.20	HOMO(α) \rightarrow LUMO(α)	91%
	S_6	748.3	0.16	HOMO(α) \rightarrow LUMO+2(α) HOMO(β) \rightarrow LUMO(β)	53% 44%
	S_{15}	454.4	0.44	SOMO(α) \rightarrow LUMO+3(α) HOMO(β) \rightarrow LUMO+3(β)	53% 27%
2PB-b	S_{26}	386.5	0.19	HOMO-2(β) \rightarrow SUMO(β)	68%
	S_1	2641.3	0.07	HOMO(β) \rightarrow SUMO(β)	97%
	S_3	846.4	0.09	HOMO(α) \rightarrow LUMO(α)	95%
	S_9	612.1	0.08	HOMO(α) \rightarrow LUMO+2(α) HOMO(β) \rightarrow LUMO+3(β)	44% 17%
	S_{11}	569.0	0.23	HOMO(α) \rightarrow LUMO+4(α) HOMO(β) \rightarrow LUMO+4(β)	46% 34%
2PB-c	S_1	1779.1	0.02	HOMO(β) \rightarrow SUMO(β)	75%
	S_2	1068.0	0.89	HOMO(α) \rightarrow LUMO(α)	73%
	S_7	661.9	0.09	HOMO(β) \rightarrow LUMO+1(β)	96%
	S_{10}	567.6	0.13	HOMO(β) \rightarrow LUMO+3(β)	81%
	S_{17}	506.9	0.09	HOMO(β) \rightarrow LUMO+4(β) HOMO(β) \rightarrow LUMO+5(β)	31% 29%
2PB-d	S_{19}	466.8	0.12	HOMO(α) \rightarrow LUMO+9(α) SOMO(α) \rightarrow LUMO+3(α)	49% 11%
	S_{20}	456.9	0.16	SOMO(α) \rightarrow LUMO+3(α) HOMO(β) \rightarrow LUMO+5(β)	32% 21%
	S_1	1519.6	0.06	HOMO(β) \rightarrow SUMO(β)	74%
	S_2	1010.6	0.33	HOMO(α) \rightarrow LUMO(α)	73%
	S_5	662.3	0.07	HOMO(α) \rightarrow LUMO+2(α)	88%
2PB-d	S_9	590.2	0.12	HOMO(α) \rightarrow LUMO+4(α) HOMO(β) \rightarrow LUMO+1(β)	53% 34%
	S_{12}	514.2	0.08	HOMO(β) \rightarrow LUMO+3(β)	76%
	S_{21}	439.0	0.06	SOMO(α) \rightarrow LUMO+3(α)	72%

Table S3 Calculated excited wavelengths (λ), oscillator strengths (f) and the transition nature of the selected transitions of studied compounds at TD-DFT//U ω B97XD/6-31G(d) level.

Compounds	Excited state	Wavelength/nm	f	Transition nature	
1PB-a	S ₁	597.5	0.09	SOMO(α) \rightarrow LUMO(α)	85%
	S ₃	414.7	0.09	SOMO(α) \rightarrow LUMO+2(α)	38%
				HOMO(α) \rightarrow LUMO(α)	12%
1PB-b	S ₁	526.2	0.04	SOMO(α) \rightarrow LUMO(α)	91%
	S ₃	432.5	0.04	SOMO(α) \rightarrow LUMO+3(α)	60%
	S ₈	320.8	0.06	HOMO(β) \rightarrow SUMO(β)	32%
				HOMO-1(β) \rightarrow SUMO(β)	15%
1PB-c	S ₁	820.4	0.12	SOMO(α) \rightarrow LUMO(α)	79%
	S ₂	585.6	0.36	HOMO(β) \rightarrow SUMO(β)	46%
	S ₅	413.5	0.30	SOMO(α) \rightarrow LUMO+2(α)	43%
	S ₉	348.6	0.15	HOMO(β) \rightarrow LUMO(β)	35%
HOMO(α) \rightarrow LUMO(α)				21%	
1PB-d	S ₁	733.2	0.05	SOMO(α) \rightarrow LUMO(α)	71%
	S ₂	621.7	0.13	HOMO(β) \rightarrow SUMO(β)	49%
				SOMO(α) \rightarrow LUMO(α)	19%
	S ₃	451.4	0.09	HOMO(α) \rightarrow LUMO(α)	24%
				HOMO(β) \rightarrow SUMO(β)	20%
	S ₅	403.9	0.05	SOMO(α) \rightarrow LUMO+2(α)	65%
S ₁₂	331.2	0.21	SOMO(α) \rightarrow LUMO+6(α)	20%	
2PB-a	S ₁	2822.3	0.13	HOMO(β) \rightarrow SUMO(β)	98%
				HOMO(α) \rightarrow LUMO(α)	82%
	S ₂	718.3	0.43	HOMO(β) \rightarrow LUMO+3(β)	38%
SOMO(α) \rightarrow LUMO+3(α)				24%	
2PB-b	S ₁₃	405.2	0.38	HOMO(α) \rightarrow LUMO+7(α)	23%
				HOMO-2(β) \rightarrow SUMO(β)	74%
	S ₁₈	341.1	0.17	HOMO(β) \rightarrow SUMO(β)	98%
2PB-c	S ₁	3863.6	0.12	HOMO(β) \rightarrow SUMO(β)	98%
	S ₃	637.8	0.14	HOMO(α) \rightarrow LUMO(α)	85%
	S ₇	517.5	0.06	HOMO(β) \rightarrow LUMO+1(β)	22%
				SOMO(α) \rightarrow LUMO+3(α)	16%
	S ₉	500.3	0.10	HOMO(α) \rightarrow LUMO+2(α)	47%
				SOMO(α) \rightarrow LUMO+1(α)	12%
S ₁₁	449.9	0.10	HOMO(β) \rightarrow LUMO+3(β)	54%	
2PB-d	S ₁	1193.3	0.24	HOMO(β) \rightarrow SUMO(β)	18%
				HOMO(α) \rightarrow LUMO(α)	91%
	S ₂	977.3	0.83	HOMO(α) \rightarrow LUMO(α)	89%
				HOMO(β) \rightarrow LUMO+3(β)	37%
	S ₅	530.9	0.33	HOMO(β) \rightarrow LUMO+1(β)	22%
				HOMO(α) \rightarrow LUMO+2(α)	39%
S ₆	520.6	0.17	HOMO(β) \rightarrow LUMO+3(β)	22%	
S ₁₅	399.7	0.09	HOMO(β) \rightarrow LUMO+1(β)	32%	

				HOMO(β) \rightarrow LUMO+3(β)	22%
	S ₂₁	328.0	0.27	HOMO-2(β) \rightarrow SUMO(β)	40%
				HOMO-3(β) \rightarrow LUMO(β)	14%
2PB-d	S ₁	1294.2	0.21	HOMO(β) \rightarrow SUMO(β)	93%
	S ₂	848.0	0.30	HOMO(α) \rightarrow LUMO(α)	86%
	S ₅	504.4	0.08	HOMO(α) \rightarrow LUMO+4(α)	28%
				HOMO(α) \rightarrow LUMO+2(α)	24%
	S ₈	483.6	0.17	HOMO(α) \rightarrow LUMO+4(α)	38%
				HOMO(β) \rightarrow LUMO+1(β)	26%
	S ₁₇	373.2	0.21	HOMO(β) \rightarrow LUMO+6(β)	35%
				HOMO(β) \rightarrow LUMO+4(β)	12%
	S ₁₉	360.2	0.17	HOMO(β) \rightarrow LUMO+4(β)	31%
				HOMO(β) \rightarrow LUMO+3(β)	12%

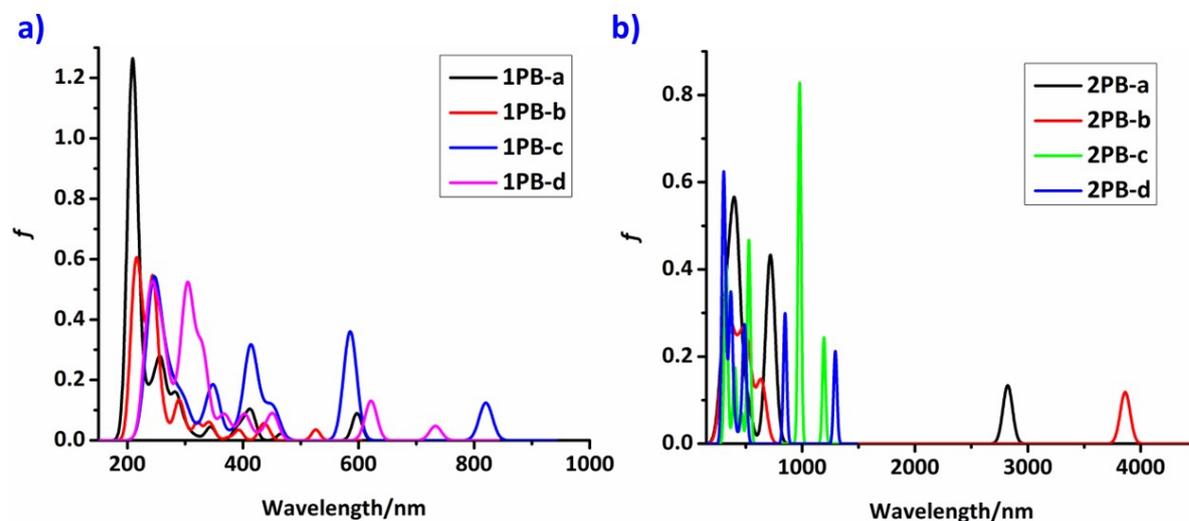
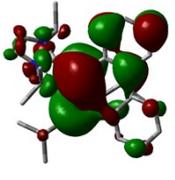
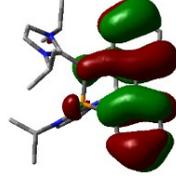
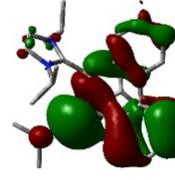
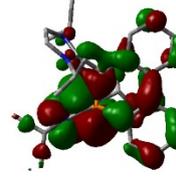
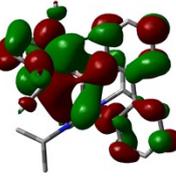
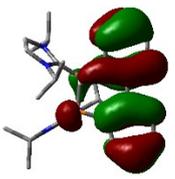
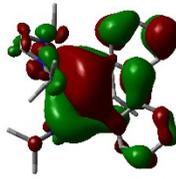
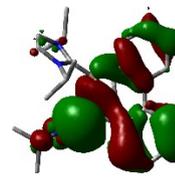
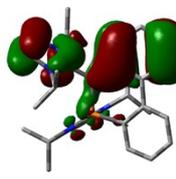
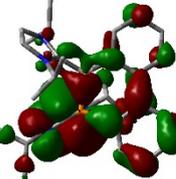
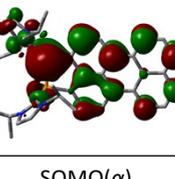
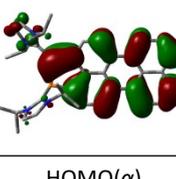
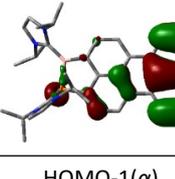
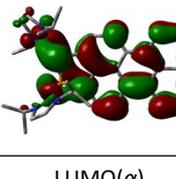
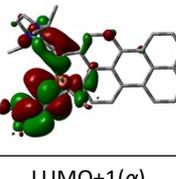
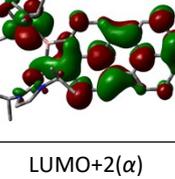
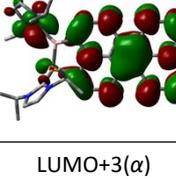
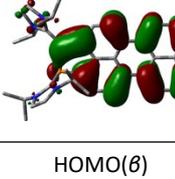
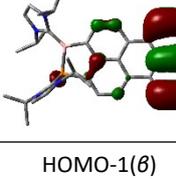
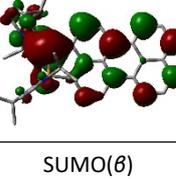
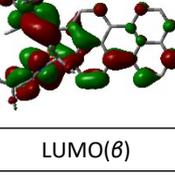
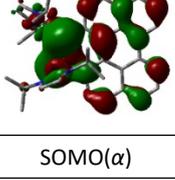
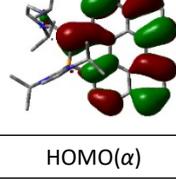
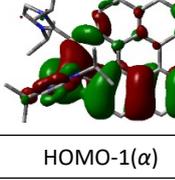
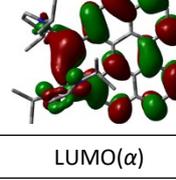
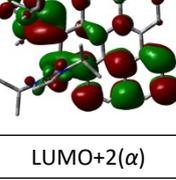
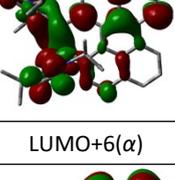
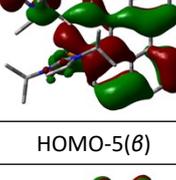
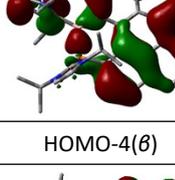
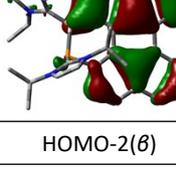
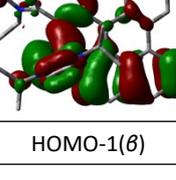
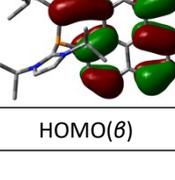
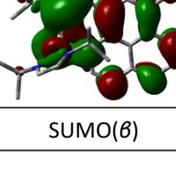
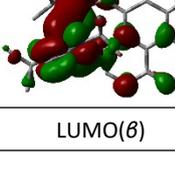
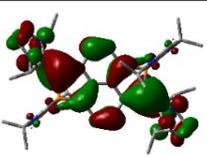
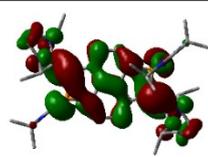
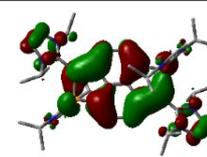
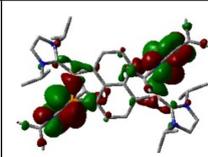
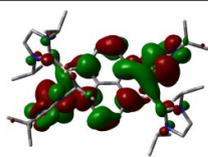
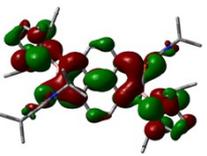
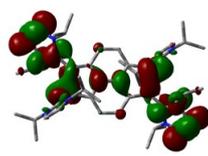
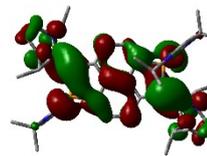
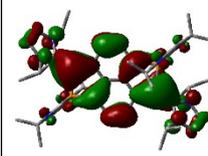
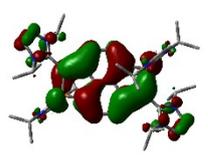
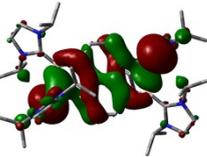
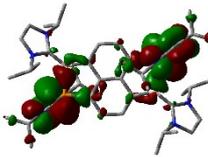
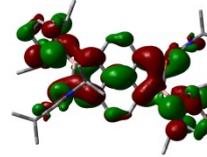
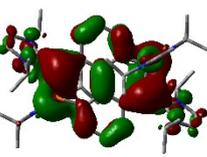
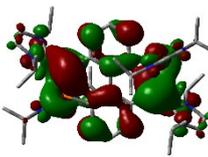
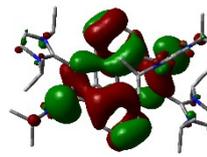
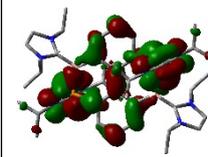
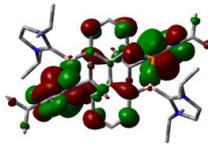
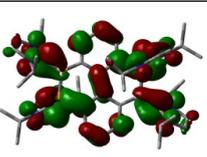
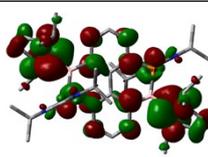
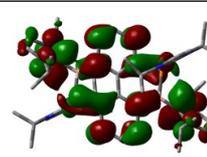
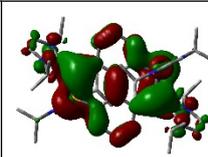
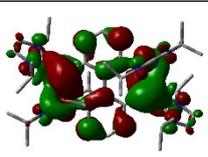
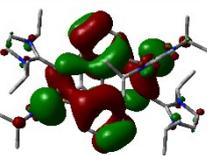
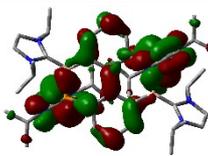
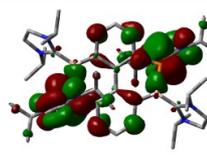
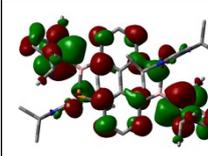
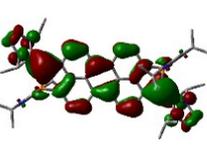
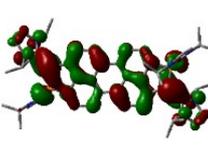
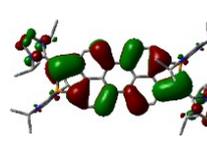
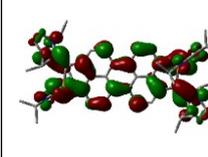
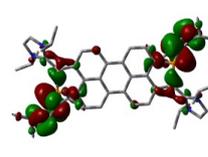
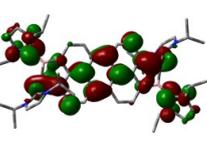
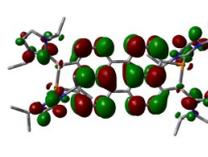
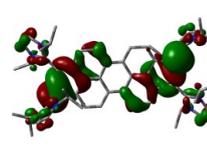
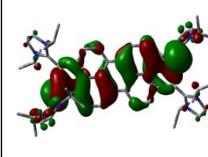
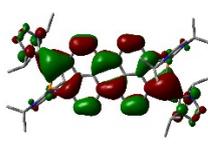


Figure S5. Calculated absorption spectra of the studied compounds at TD-DFT//U ω B97XD/6-31G(d).

Table S4 The molecular orbitals related to electronic configuration and the absorption transitions.

1PB-a				
SOMO(α)	HOMO(α)	HOMO-1(α)	LUMO(α)	LUMO+2(α)
HOMO(β)	HOMO-1(β)	SUMO(β)	LUMO(β)	
1PB-b				

				
SOMO(α)	HOMO(α)	HOMO-1(α)	LUMO(α)	LUMO+3(α)
				
HOMO(β)	SUMO(β)	HOMO-1(β)	HOMO-2(β)	LUMO(β)
1PB-c				
				
SOMO(α)	HOMO(α)	HOMO-1(α)	LUMO(α)	LUMO+1(α)
				
LUMO+2(α)	LUMO+3(α)	HOMO(β)	HOMO-1(β)	SUMO(β)
				
LUMO(β)				
1PB-d				
				
SOMO(α)	HOMO(α)	HOMO-1(α)	LUMO(α)	LUMO+2(α)
				
LUMO+6(α)	HOMO-5(β)	HOMO-4(β)	HOMO-2(β)	HOMO-1(β)
				
HOMO(β)	SUMO(β)	LUMO(β)		

2PB-a				
				
SOMO(α)	HOMO(α)	HOMO-1(α)	LUMO(α)	LUMO+2(α)
				
LUMO+3(α)	LUMO+7(α)	HOMO(β)	SUMO(β)	HOMO-1(β)
				
HOMO-2(β)	LUMO(β)	LUMO+3(β)		
2PB-b				
				
SOMO(α)	HOMO(α)	HOMO-1(α)	LUMO(α)	LUMO+1(α)
				
LUMO+2(α)	LUMO+3(α)	LUMO+4(α)	HOMO(β)	SUMO(β)
				
HOMO-1(β)	LUMO(β)	LUMO+1(β)	LUMO+3(β)	
2PB-c				
				
SOMO(α)	HOMO(α)	HOMO-1(α)	LUMO(α)	LUMO+2(α)
				
LUMO+3(α)	LUMO+9(α)	HOMO-3(β)	HOMO-2(β)	SUMO(β)

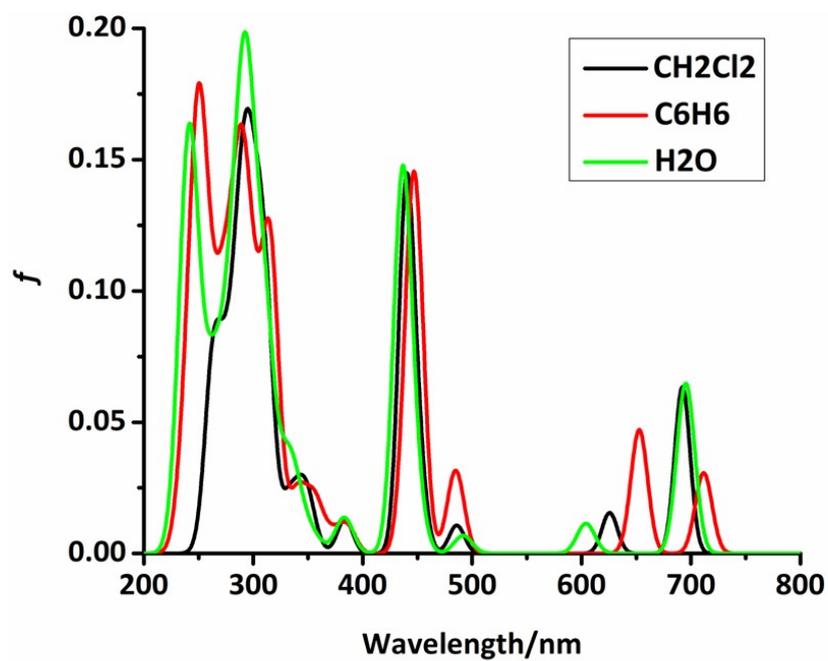
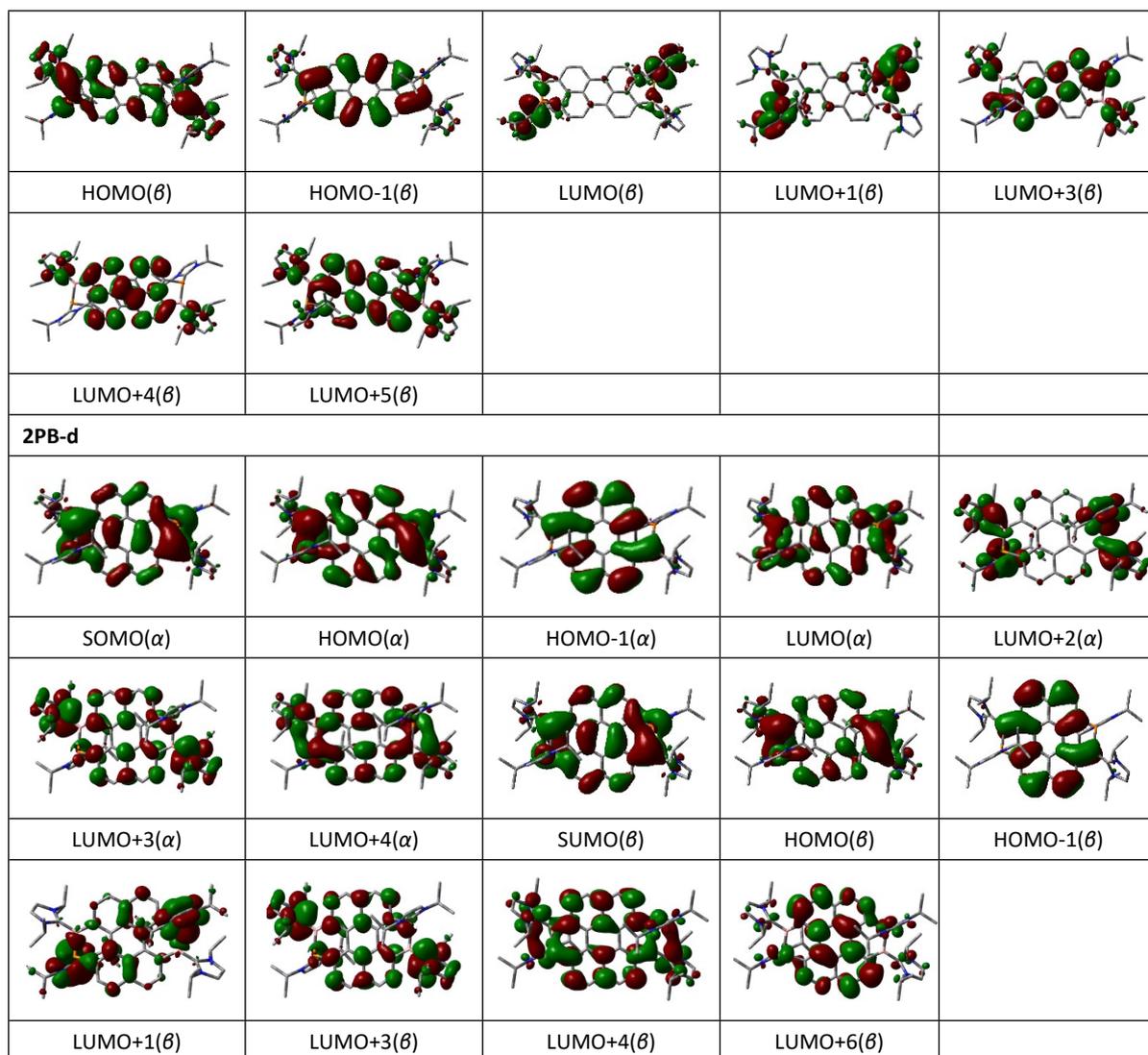
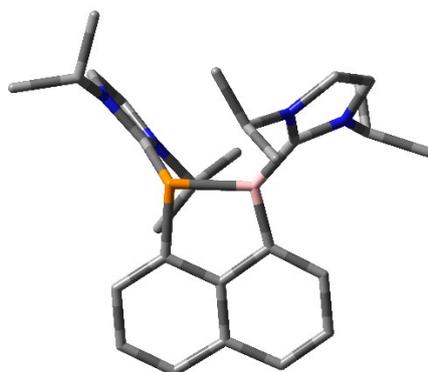


Figure S6. Calculated absorption spectra of the compound 1PB-a in different solvents.

Coordinates of the studied molecules

1PB-a



UB3LYP/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-3.167512	2.787044	-2.133636
2	6	0	-2.284025	3.827563	-1.914207
3	6	0	-0.979159	3.585382	-1.409539
4	6	0	-0.614175	2.242861	-1.106308
5	6	0	-1.534269	1.186929	-1.345025
6	6	0	-2.790664	1.450737	-1.866710
7	6	0	-0.010329	4.607506	-1.199003
8	6	0	0.690329	1.892031	-0.586673
9	1	0	-3.484870	0.643320	-2.086626
10	6	0	1.604665	2.947552	-0.437965
11	6	0	1.251519	4.279396	-0.735780
12	1	0	2.618161	2.745808	-0.101725
13	1	0	1.990762	5.064567	-0.599204
14	15	0	-0.766577	-0.457937	-1.042264
15	6	0	4.142091	-0.981273	0.932796
16	6	0	3.986997	-1.752826	-0.170556
17	6	0	-2.980381	-2.534072	1.627028
18	6	0	-2.947649	-1.357318	2.304355
19	6	0	2.203065	-0.369360	-0.057016
20	6	0	-1.765010	-1.083515	0.420118
21	1	0	4.624340	-2.520697	-0.578447
22	1	0	4.928546	-0.968843	1.669991
23	7	0	2.799993	-1.376358	-0.773903
24	7	0	3.049177	-0.134583	0.997563
25	6	0	2.390783	-1.850639	-2.119660
26	6	0	2.266085	-3.376481	-2.140205

27	6	0	3.353573	-1.315044	-3.185761
28	1	0	1.405094	-1.416149	-2.286655
29	1	0	1.581408	-3.729842	-1.362172
30	1	0	1.877389	-3.695948	-3.112128
31	1	0	3.233478	-3.870695	-1.996497
32	1	0	3.407708	-0.222780	-3.149239
33	1	0	4.364120	-1.718388	-3.056870
34	1	0	2.999956	-1.606821	-4.179751
35	6	0	2.776092	0.757326	2.149212
36	6	0	3.940383	1.725481	2.381297
37	6	0	2.461675	-0.079673	3.395704
38	1	0	1.889798	1.325291	1.859221
39	1	0	4.179129	2.292220	1.477055
40	1	0	3.670986	2.436217	3.168720
41	1	0	4.845678	1.201692	2.708001
42	1	0	1.641162	-0.778780	3.204034
43	1	0	3.333588	-0.658369	3.719872
44	1	0	2.173043	0.577622	4.222162
45	1	0	-3.395739	-1.082090	3.245396
46	1	0	-3.457539	-3.468966	1.872819
47	7	0	-2.193456	-0.473728	1.559300
48	7	0	-2.253225	-2.355859	0.467841
49	6	0	-1.948151	0.937626	1.973035
50	6	0	-1.350455	0.978950	3.382492
51	6	0	-3.238964	1.754062	1.859106
52	1	0	-1.211964	1.316359	1.266094
53	1	0	-0.457392	0.352199	3.457252
54	1	0	-1.067937	2.009960	3.616453
55	1	0	-2.067131	0.656642	4.145835
56	1	0	-3.636755	1.725458	0.841977
57	1	0	-4.005726	1.389974	2.552594
58	1	0	-3.027754	2.797759	2.111364
59	6	0	-2.085659	-3.421563	-0.560901
60	6	0	-3.445741	-3.804908	-1.151087
61	6	0	-1.326985	-4.612798	0.030976
62	1	0	-1.479916	-2.957352	-1.341314
63	1	0	-3.955860	-2.931022	-1.567649
64	1	0	-3.297837	-4.529577	-1.957672
65	1	0	-4.100976	-4.267995	-0.405098
66	1	0	-0.362935	-4.303429	0.447675
67	1	0	-1.899392	-5.111173	0.821217
68	1	0	-1.140824	-5.350425	-0.755753
69	5	0	0.875834	0.380241	-0.381194
70	1	0	-2.578011	4.848609	-2.144548

71	1	0	-0.267080	5.639525	-1.422119
72	1	0	-4.155426	2.991813	-2.536470

UWB97XD/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
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2	6	0	-2.030150	3.927879	-1.835440
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4	6	0	-0.437306	2.211596	-1.191286
5	6	0	-1.455439	1.238782	-1.350058
6	6	0	-2.719065	1.604865	-1.759193
7	6	0	0.350829	4.508775	-1.313455
8	6	0	0.864638	1.749004	-0.778697
9	1	0	-3.494829	0.858827	-1.911015
10	6	0	1.870956	2.711187	-0.705492
11	6	0	1.609042	4.072447	-0.966032
12	1	0	2.887021	2.417464	-0.457860
13	1	0	2.421259	4.789567	-0.889544
14	15	0	-0.837978	-0.456739	-1.038869
15	6	0	4.103583	-1.344786	0.665649
16	6	0	3.775515	-2.202736	-0.325080
17	6	0	-3.112932	-1.930736	1.926042
18	6	0	-2.760409	-0.770543	2.529101
19	6	0	2.175385	-0.625418	-0.240116
20	6	0	-1.755574	-0.826705	0.540578
21	1	0	4.288242	-3.078863	-0.686481
22	1	0	4.948281	-1.341669	1.335271
23	7	0	2.597572	-1.750581	-0.881081
24	7	0	3.118721	-0.380112	0.711680
25	6	0	1.917795	-2.391391	-2.019154
26	6	0	1.104052	-3.585819	-1.527247
27	6	0	2.911579	-2.763241	-3.115785
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30	1	0	0.518521	-4.005851	-2.350354
31	1	0	1.757967	-4.372201	-1.134469
32	1	0	3.522399	-1.902680	-3.401660
33	1	0	3.572899	-3.582261	-2.814399
34	1	0	2.359067	-3.098756	-3.997585
35	6	0	3.006346	0.606997	1.799022

36	6	0	4.262287	1.468801	1.888760
37	6	0	2.709178	-0.118769	3.110704
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40	1	0	4.105694	2.264475	2.622281
41	1	0	5.128833	0.884569	2.216455
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43	1	0	3.562227	-0.726591	3.430143
44	1	0	2.500353	0.607634	3.901378
45	1	0	-3.037364	-0.371635	3.491280
46	1	0	-3.751807	-2.730210	2.264430
47	7	0	-1.918409	-0.103280	1.671413
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63	1	0	-4.311811	-2.047432	-1.280492
64	1	0	-4.198083	-3.787811	-1.598208
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67	1	0	-2.977467	-4.687428	1.126027
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72	1	0	-4.004613	3.258169	-2.300183

UM06-2X/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z

1	6	0	-2.383679	3.531054	-1.880231
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3	6	0	0.002005	3.655853	-1.419153
4	6	0	0.005832	2.263469	-1.168347
5	6	0	-1.192753	1.515991	-1.299558
6	6	0	-2.368158	2.132108	-1.669991
7	6	0	1.238139	4.354479	-1.333380
8	6	0	1.199787	1.544689	-0.803265
9	1	0	-3.280555	1.556693	-1.806325
10	6	0	2.382212	2.279613	-0.781129
11	6	0	2.394311	3.668472	-1.041100
12	1	0	3.327818	1.783498	-0.577937
13	1	0	3.339272	4.202297	-1.006647
14	15	0	-0.918166	-0.279640	-1.040672
15	6	0	3.864712	-2.075511	0.506079
16	6	0	3.291458	-2.904207	-0.396944
17	6	0	-3.434334	-1.279703	1.939758
18	6	0	-2.834657	-0.227691	2.551723
19	6	0	2.032558	-1.040099	-0.293510
20	6	0	-1.880413	-0.475997	0.551456
21	1	0	3.595389	-3.879175	-0.741397
22	1	0	4.752356	-2.201376	1.105505
23	7	0	2.175282	-2.259881	-0.886686
24	7	0	3.089173	-0.936292	0.563782
25	6	0	1.251271	-2.826253	-1.882949
26	6	0	0.181326	-3.648251	-1.167657
27	6	0	2.000640	-3.639527	-2.932088
28	1	0	0.790018	-1.963746	-2.370041
29	1	0	-0.301367	-3.054936	-0.383088
30	1	0	-0.582210	-3.977652	-1.879103
31	1	0	0.626598	-4.534103	-0.702073
32	1	0	2.817025	-3.061574	-3.372222
33	1	0	2.403832	-4.568470	-2.517281
34	1	0	1.305830	-3.914223	-3.729384
35	6	0	3.238820	0.078483	1.623836
36	6	0	4.657245	0.637046	1.647318
37	6	0	2.843906	-0.543467	2.961920
38	1	0	2.535184	0.873080	1.367352
39	1	0	4.961494	1.009126	0.666192
40	1	0	4.710281	1.461894	2.362402
41	1	0	5.378765	-0.121699	1.967116
42	1	0	1.852441	-1.000625	2.893267
43	1	0	3.558775	-1.317259	3.259758
44	1	0	2.827518	0.221622	3.743099

45	1	0	-3.008313	0.210945	3.521603
46	1	0	-4.228177	-1.927876	2.275460
47	7	0	-1.877238	0.252086	1.689937
48	7	0	-2.834562	-1.422917	0.710641
49	6	0	-1.013096	1.417528	1.997249
50	6	0	-0.383276	1.244298	3.375465
51	6	0	-1.808514	2.713077	1.884241
52	1	0	-0.228185	1.396000	1.241603
53	1	0	0.089012	0.264467	3.478357
54	1	0	0.380049	2.014865	3.513284
55	1	0	-1.117834	1.366599	4.177795
56	1	0	-2.251173	2.823727	0.892196
57	1	0	-2.602381	2.748977	2.638442
58	1	0	-1.137593	3.559094	2.056443
59	6	0	-3.270710	-2.422002	-0.295056
60	6	0	-4.618324	-2.003344	-0.872220
61	6	0	-3.292049	-3.815596	0.322001
62	1	0	-2.515238	-2.381869	-1.081452
63	1	0	-4.554213	-1.011359	-1.327754
64	1	0	-4.925798	-2.717130	-1.640565
65	1	0	-5.391162	-1.984374	-0.097079
66	1	0	-2.331995	-4.062631	0.783420
67	1	0	-4.079038	-3.914046	1.076260
68	1	0	-3.497686	-4.548822	-0.462000
69	5	0	0.948240	0.037161	-0.564529
70	1	0	-1.247480	5.343361	-1.944497
71	1	0	1.259366	5.423523	-1.523826
72	1	0	-3.312705	4.017297	-2.160255

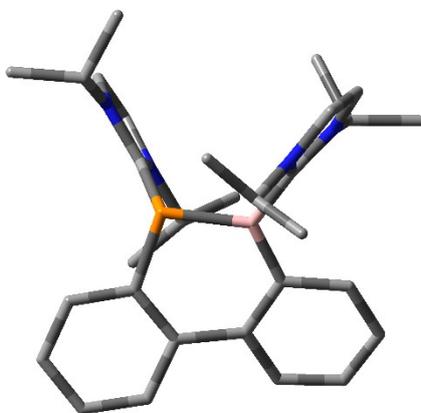
UBP86/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-3.019394	2.990298	-2.103376
2	6	0	-2.057334	3.976297	-1.900734
3	6	0	-0.760229	3.647421	-1.407493
4	6	0	-0.482808	2.275277	-1.094866
5	6	0	-1.480088	1.280054	-1.319202
6	6	0	-2.731361	1.626826	-1.831991
7	6	0	0.283937	4.604238	-1.215638
8	6	0	0.805457	1.836983	-0.585676
9	1	0	-3.485954	0.859926	-2.042088

10	6	0	1.800480	2.833298	-0.458400
11	6	0	1.535811	4.189346	-0.764050
12	1	0	2.810408	2.558916	-0.132290
13	1	0	2.335965	4.928777	-0.643775
14	15	0	-0.812686	-0.415870	-1.024125
15	6	0	4.107086	-1.247225	0.888197
16	6	0	3.863595	-2.040073	-0.198404
17	6	0	-3.143003	-2.351509	1.664792
18	6	0	-3.003332	-1.179110	2.359044
19	6	0	2.165311	-0.531670	-0.061149
20	6	0	-1.833361	-0.975817	0.439848
21	1	0	4.440622	-2.863966	-0.609335
22	1	0	4.921612	-1.269755	1.607434
23	7	0	2.675703	-1.605015	-0.771284
24	7	0	3.069798	-0.327049	0.965552
25	6	0	2.198778	-2.052233	-2.110940
26	6	0	2.253342	-3.581498	-2.229002
27	6	0	2.993191	-1.336104	-3.215553
28	1	0	1.145924	-1.730642	-2.159917
29	1	0	1.721767	-4.073201	-1.396291
30	1	0	1.772782	-3.885983	-3.173899
31	1	0	3.289430	-3.963176	-2.257001
32	1	0	2.907862	-0.241260	-3.113516
33	1	0	4.062245	-1.612017	-3.181864
34	1	0	2.597186	-1.622201	-4.204919
35	6	0	2.878729	0.599491	2.112580
36	6	0	4.114949	1.489073	2.311940
37	6	0	2.528681	-0.202671	3.377918
38	1	0	2.019059	1.226511	1.821959
39	1	0	4.382514	2.028578	1.388492
40	1	0	3.906746	2.234584	3.097791
41	1	0	4.992977	0.903436	2.638068
42	1	0	1.652819	-0.851913	3.206963
43	1	0	3.372206	-0.840455	3.696435
44	1	0	2.298678	0.487135	4.207784
45	1	0	-3.412717	-0.877403	3.319614
46	1	0	-3.690241	-3.257327	1.912420
47	7	0	-2.193988	-0.345445	1.604640
48	7	0	-2.425679	-2.215846	0.487556
49	6	0	-1.829450	1.044830	2.015140
50	6	0	-1.242424	1.041124	3.434139
51	6	0	-3.047589	1.970785	1.883249
52	1	0	-1.047853	1.350726	1.302595
53	1	0	-0.401880	0.333297	3.523432

54	1	0	-0.869761	2.052815	3.666616
55	1	0	-1.998577	0.788783	4.198627
56	1	0	-3.438331	1.971452	0.853364
57	1	0	-3.855353	1.673819	2.576286
58	1	0	-2.747976	3.001898	2.135278
59	6	0	-2.354430	-3.277543	-0.561629
60	6	0	-3.756668	-3.570574	-1.114763
61	6	0	-1.647971	-4.522821	-0.006142
62	1	0	-1.738301	-2.826726	-1.358561
63	1	0	-4.232577	-2.654872	-1.503590
64	1	0	-3.675918	-4.293819	-1.943651
65	1	0	-4.418802	-4.013573	-0.349828
66	1	0	-0.645998	-4.275889	0.384340
67	1	0	-2.229304	-4.998563	0.803682
68	1	0	-1.532737	-5.266974	-0.812191
69	5	0	0.891031	0.309577	-0.373181
70	1	0	-2.285020	5.022119	-2.138405
71	1	0	0.094893	5.659069	-1.444551
72	1	0	-4.003541	3.262564	-2.500020

1PB-b



UB3LYP/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-0.261907	-4.346388	1.160568
2	6	0	-0.785904	-3.155488	0.687283
3	6	0	0.001003	-2.156545	0.044835
4	6	0	1.380253	-2.482979	-0.213984
5	6	0	1.898845	-3.674837	0.333798
6	6	0	1.108465	-4.592819	1.016324
7	6	0	2.270300	-1.639854	-1.063576

8	6	0	2.015385	-0.282469	-1.404314
9	6	0	2.939990	0.436412	-2.185867
10	1	0	2.711001	1.466069	-2.451594
11	6	0	4.119421	-0.137787	-2.642886
12	6	0	4.357650	-1.484297	-2.360244
13	6	0	3.446694	-2.211127	-1.605115
14	1	0	-0.904133	-5.072897	1.651433
15	1	0	-1.849906	-2.972562	0.815102
16	1	0	1.554364	-5.498396	1.416942
17	1	0	4.820027	0.439603	-3.238841
18	1	0	5.244842	-1.977734	-2.747047
19	15	0	0.445346	0.595208	-1.040503
20	6	0	1.792248	2.668820	2.256879
21	6	0	1.180221	3.649563	1.543961
22	1	0	2.310677	2.712923	3.201143
23	1	0	1.065246	4.700247	1.756560
24	6	0	-4.321108	-0.104420	-0.800710
25	6	0	-4.268431	-0.147677	0.555024
26	1	0	-5.156375	0.063578	-1.461559
27	1	0	-5.047324	-0.015349	1.288584
28	6	0	0.970324	1.733118	0.391363
29	6	0	-2.186183	-0.533994	-0.220765
30	7	0	1.651035	1.494453	1.544790
31	7	0	0.680548	3.065814	0.396177
32	7	0	-3.041516	-0.346000	-1.266163
33	7	0	-2.955269	-0.415267	0.901273
34	6	0	-2.691488	-0.496665	-2.702564
35	6	0	-2.944834	0.809715	-3.458145
36	6	0	-3.430989	-1.695555	-3.305344
37	1	0	-1.619353	-0.707734	-2.699997
38	1	0	-2.384963	1.636288	-3.010301
39	1	0	-2.617520	0.698913	-4.496501
40	1	0	-4.008892	1.072524	-3.472376
41	1	0	-3.222045	-2.609926	-2.741836
42	1	0	-4.515144	-1.537541	-3.325472
43	1	0	-3.097859	-1.846423	-4.336826
44	6	0	-2.449988	-0.460489	2.295056
45	6	0	-3.254879	-1.454039	3.137687
46	6	0	-2.439632	0.948478	2.899357
47	1	0	-1.423660	-0.823352	2.201820
48	1	0	-3.262950	-2.448428	2.682831
49	1	0	-2.801050	-1.537901	4.129965
50	1	0	-4.291004	-1.126547	3.277788
51	1	0	-1.842953	1.634838	2.289604

52	1	0	-3.453420	1.355055	2.985023
53	1	0	-2.008104	0.917437	3.905174
54	6	0	2.224663	0.193048	1.986945
55	6	0	1.780292	-0.130468	3.416214
56	6	0	3.747747	0.208961	1.826579
57	1	0	1.797107	-0.549352	1.316819
58	1	0	0.690984	-0.088600	3.515009
59	1	0	2.104723	-1.145087	3.665121
60	1	0	2.223695	0.547320	4.154076
61	1	0	4.032934	0.428048	0.794174
62	1	0	4.212706	0.949703	2.487343
63	1	0	4.148742	-0.774553	2.089757
64	6	0	-0.032755	3.831578	-0.664745
65	6	0	0.880489	4.918961	-1.238180
66	6	0	-1.356205	4.380116	-0.123790
67	1	0	-0.238164	3.093536	-1.442362
68	1	0	1.817364	4.492759	-1.609928
69	1	0	0.374280	5.411081	-2.074377
70	1	0	1.119540	5.689375	-0.496820
71	1	0	-1.990638	3.575813	0.262817
72	1	0	-1.198605	5.111744	0.676537
73	1	0	-1.897559	4.884287	-0.930430
74	5	0	-0.631561	-0.810581	-0.320349
75	1	0	2.955444	-3.896464	0.236398
76	1	0	3.643850	-3.265730	-1.456865

UWB97XD/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-1.422382	-4.083165	-0.981541
2	6	0	-0.493410	-3.195408	-0.474855
3	6	0	-0.854842	-1.984551	0.169152
4	6	0	-2.248882	-1.754724	0.393018
5	6	0	-3.172703	-2.642689	-0.182393
6	6	0	-2.780620	-3.784519	-0.866219
7	6	0	-2.764708	-0.604641	1.195556
8	6	0	-2.019446	0.558072	1.503628
9	6	0	-2.616090	1.617645	2.202710
10	1	0	-2.014926	2.491507	2.442102
11	6	0	-3.940891	1.570278	2.605506
12	6	0	-4.668398	0.409794	2.358900

13	6	0	-4.083534	-0.651404	1.686316
14	1	0	-1.098760	-4.994069	-1.476499
15	1	0	0.563456	-3.430881	-0.579835
16	1	0	-3.530337	-4.443220	-1.292564
17	1	0	-4.386884	2.405242	3.135944
18	1	0	-5.692159	0.320411	2.708722
19	15	0	-0.234309	0.751625	1.180034
20	6	0	-0.563222	2.787581	-2.343791
21	6	0	0.455896	3.444345	-1.739720
22	1	0	-1.031331	2.953527	-3.300327
23	1	0	1.043605	4.282000	-2.076618
24	6	0	3.977406	-1.372676	0.551003
25	6	0	3.735127	-1.440924	-0.779173
26	1	0	4.905442	-1.426614	1.096923
27	1	0	4.413295	-1.557691	-1.609073
28	6	0	-0.223597	1.821510	-0.363440
29	6	0	1.761510	-1.203401	0.259905
30	7	0	-0.962344	1.783402	-1.493787
31	7	0	0.650716	2.844662	-0.515931
32	7	0	2.757058	-1.232108	1.176474
33	7	0	2.369934	-1.337581	-0.944762
34	6	0	2.561426	-1.177092	2.637661
35	6	0	3.114439	0.131353	3.193107
36	6	0	3.162384	-2.414238	3.298398
37	1	0	1.475806	-1.195884	2.769450
38	1	0	2.620435	0.987867	2.725400
39	1	0	2.933121	0.179105	4.270341
40	1	0	4.195174	0.209520	3.029242
41	1	0	2.762100	-3.328981	2.852712
42	1	0	4.254388	-2.430631	3.214782
43	1	0	2.912452	-2.412822	4.362740
44	6	0	1.686044	-1.238483	-2.245789
45	6	0	2.021125	-2.434365	-3.129946
46	6	0	2.021105	0.098925	-2.901757
47	1	0	0.621585	-1.266562	-2.001421
48	1	0	1.790476	-3.374979	-2.623520
49	1	0	1.425394	-2.385658	-4.045648
50	1	0	3.076674	-2.442144	-3.422202
51	1	0	1.748438	0.932389	-2.247785
52	1	0	3.089760	0.173644	-3.130288
53	1	0	1.470758	0.202914	-3.841534
54	6	0	-2.054726	0.831421	-1.791136
55	6	0	-1.911698	0.269079	-3.201242
56	6	0	-3.410375	1.484009	-1.544981

57	1	0	-1.912131	0.011233	-1.094140
58	1	0	-0.905730	-0.124497	-3.372958
59	1	0	-2.620359	-0.555225	-3.316617
60	1	0	-2.137367	1.010992	-3.974538
61	1	0	-3.482339	1.868945	-0.524574
62	1	0	-3.589075	2.303581	-2.249998
63	1	0	-4.197462	0.737293	-1.681795
64	6	0	1.727032	3.207509	0.433863
65	6	0	1.925389	4.718173	0.481570
66	6	0	3.003330	2.451045	0.072485
67	1	0	1.369077	2.864021	1.406879
68	1	0	0.980166	5.239706	0.655717
69	1	0	2.602316	4.957406	1.305842
70	1	0	2.382565	5.105825	-0.434823
71	1	0	2.837501	1.369238	0.090995
72	1	0	3.356721	2.731901	-0.925743
73	1	0	3.791242	2.688016	0.793271
74	5	0	0.230571	-0.971601	0.535527
75	1	0	-4.235220	-2.438283	-0.115020
76	1	0	-4.669765	-1.553892	1.563572

UM06-2X/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-1.444707	-4.083700	-1.002074
2	6	0	-0.510537	-3.188464	-0.515304
3	6	0	-0.867020	-1.984377	0.142248
4	6	0	-2.256520	-1.758642	0.389787
5	6	0	-3.187806	-2.653523	-0.165338
6	6	0	-2.802581	-3.794718	-0.854697
7	6	0	-2.761812	-0.601983	1.189387
8	6	0	-2.008404	0.557313	1.497119
9	6	0	-2.598500	1.621030	2.197140
10	1	0	-1.989377	2.489989	2.435507
11	6	0	-3.924350	1.583789	2.599922
12	6	0	-4.660489	0.427373	2.352850
13	6	0	-4.082291	-0.638376	1.680697
14	1	0	-1.126080	-4.991330	-1.505603
15	1	0	0.546999	-3.414025	-0.644716
16	1	0	-3.556835	-4.458505	-1.263957
17	1	0	-4.364296	2.422040	3.129799

18	1	0	-5.684621	0.344687	2.702589
19	15	0	-0.218040	0.748890	1.175724
20	6	0	-0.604520	2.790483	-2.352058
21	6	0	0.416948	3.459955	-1.759169
22	1	0	-1.086346	2.947345	-3.304188
23	1	0	0.992458	4.304363	-2.101647
24	6	0	3.975011	-1.364165	0.597153
25	6	0	3.752765	-1.464334	-0.736683
26	1	0	4.894981	-1.399436	1.159230
27	1	0	4.443825	-1.594846	-1.554429
28	6	0	-0.234275	1.833165	-0.370713
29	6	0	1.760426	-1.222053	0.269033
30	7	0	-0.984254	1.787412	-1.492510
31	7	0	0.628655	2.864223	-0.536046
32	7	0	2.743726	-1.222755	1.201055
33	7	0	2.388880	-1.379986	-0.922866
34	6	0	2.537368	-1.136301	2.661693
35	6	0	3.060364	0.196991	3.184288
36	6	0	3.178241	-2.335912	3.352027
37	1	0	1.452238	-1.181624	2.791491
38	1	0	2.534559	1.030727	2.710066
39	1	0	2.897595	0.257736	4.263416
40	1	0	4.135356	0.297674	2.997597
41	1	0	2.814736	-3.274168	2.925854
42	1	0	4.269714	-2.310498	3.270856
43	1	0	2.925088	-2.317654	4.414822
44	6	0	1.726887	-1.294265	-2.239076
45	6	0	2.176744	-2.435054	-3.143060
46	6	0	1.987367	0.082481	-2.844839
47	1	0	0.660597	-1.405372	-2.025957
48	1	0	2.017508	-3.403887	-2.662830
49	1	0	1.596971	-2.411281	-4.069191
50	1	0	3.233810	-2.345360	-3.413314
51	1	0	1.612846	0.872129	-2.184206
52	1	0	3.059062	0.242799	-3.005407
53	1	0	1.484479	0.169993	-3.812342
54	6	0	-2.063196	0.813208	-1.772017
55	6	0	-1.927094	0.259499	-3.185195
56	6	0	-3.427755	1.438580	-1.509351
57	1	0	-1.887631	-0.000888	-1.074454
58	1	0	-0.914280	-0.111542	-3.369063
59	1	0	-2.621411	-0.577365	-3.295961
60	1	0	-2.176566	1.002927	-3.949093
61	1	0	-3.494313	1.826727	-0.489442

62	1	0	-3.628313	2.250585	-2.216814
63	1	0	-4.200280	0.674720	-1.635573
64	6	0	1.721277	3.225299	0.398559
65	6	0	2.009899	4.719847	0.342145
66	6	0	2.951925	2.379443	0.081625
67	1	0	1.343747	2.965426	1.390482
68	1	0	1.098352	5.309386	0.469546
69	1	0	2.696924	4.974317	1.152505
70	1	0	2.494725	5.007095	-0.596071
71	1	0	2.724616	1.310131	0.161921
72	1	0	3.308213	2.585467	-0.933670
73	1	0	3.756765	2.614377	0.784027
74	5	0	0.225597	-0.976530	0.513490
75	1	0	-4.249374	-2.453600	-0.077970
76	1	0	-4.673080	-1.537760	1.558858

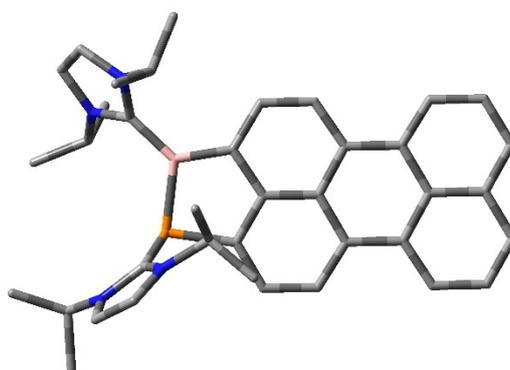
UBP86/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.249820	-4.412764	-0.997953
2	6	0	0.780080	-3.199320	-0.565854
3	6	0	-0.011186	-2.163868	0.027127
4	6	0	-1.403346	-2.472347	0.287354
5	6	0	-1.928273	-3.688111	-0.221392
6	6	0	-1.132336	-4.643591	-0.860982
7	6	0	-2.292983	-1.592794	1.100562
8	6	0	-2.029688	-0.217126	1.395896
9	6	0	-2.957306	0.540736	2.150063
10	1	0	-2.717906	1.586249	2.380951
11	6	0	-4.150441	-0.012400	2.623448
12	6	0	-4.397033	-1.375089	2.388775
13	6	0	-3.481576	-2.139433	1.661843
14	1	0	0.897785	-5.170734	-1.452421
15	1	0	1.856610	-3.025710	-0.685273
16	1	0	-1.584289	-5.568637	-1.234057
17	1	0	-4.856001	0.596032	3.198866
18	1	0	-5.295656	-1.852701	2.794134
19	15	0	-0.446995	0.639887	1.007228
20	6	0	-1.757737	2.583907	-2.391262
21	6	0	-1.153692	3.601782	-1.702044
22	1	0	-2.266387	2.589064	-3.351912

23	1	0	-1.035536	4.652391	-1.954776
24	6	0	4.325462	-0.062989	0.855119
25	6	0	4.302107	-0.208894	-0.505807
26	1	0	5.153019	0.152684	1.526219
27	1	0	5.102935	-0.132222	-1.236714
28	6	0	-0.955282	1.718047	-0.465627
29	6	0	2.187637	-0.536313	0.256757
30	7	0	-1.623430	1.433922	-1.629553
31	7	0	-0.668461	3.062001	-0.520841
32	7	0	3.030675	-0.269473	1.310412
33	7	0	2.991440	-0.502687	-0.860529
34	6	0	2.645103	-0.324548	2.749173
35	6	0	2.858711	1.040589	3.416326
36	6	0	3.388999	-1.468820	3.455102
37	1	0	1.565512	-0.555533	2.728004
38	1	0	2.288510	1.827345	2.894634
39	1	0	2.508033	0.997239	4.461227
40	1	0	3.925942	1.326538	3.433826
41	1	0	3.211554	-2.431581	2.947519
42	1	0	4.477770	-1.287109	3.496786
43	1	0	3.025048	-1.555006	4.492826
44	6	0	2.507601	-0.635092	-2.261472
45	6	0	3.335536	-1.673931	-3.031331
46	6	0	2.499284	0.740846	-2.947677
47	1	0	1.471861	-1.001585	-2.156047
48	1	0	3.347558	-2.646328	-2.512193
49	1	0	2.893306	-1.824932	-4.030438
50	1	0	4.378592	-1.342241	-3.179931
51	1	0	1.881056	1.461269	-2.385087
52	1	0	3.520260	1.152252	-3.038165
53	1	0	2.084922	0.647930	-3.966301
54	6	0	-2.193101	0.109960	-2.020074
55	6	0	-1.755278	-0.263228	-3.443617
56	6	0	-3.719294	0.125786	-1.848029
57	1	0	-1.749295	-0.608463	-1.315277
58	1	0	-0.658785	-0.214723	-3.554582
59	1	0	-2.074784	-1.297469	-3.652936
60	1	0	-2.216474	0.386032	-4.209064
61	1	0	-3.999932	0.382630	-0.813732
62	1	0	-4.195254	0.845788	-2.537998
63	1	0	-4.120755	-0.876193	-2.074033
64	6	0	0.024626	3.867009	0.529668
65	6	0	-0.909629	4.965508	1.057797
66	6	0	1.355230	4.411576	-0.009827

67	1	0	0.222402	3.139240	1.335592
68	1	0	-1.856742	4.540343	1.430038
69	1	0	-0.416882	5.490807	1.893289
70	1	0	-1.143527	5.718000	0.283897
71	1	0	2.006454	3.596462	-0.368670
72	1	0	1.201520	5.126632	-0.837627
73	1	0	1.885380	4.946601	0.796206
74	5	0	0.632561	-0.803971	0.345808
75	1	0	-2.997809	-3.897115	-0.126084
76	1	0	-3.681566	-3.208552	1.553033

1PB-c



UB3LYP/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	2.275004	2.369979	0.071090
2	6	0	3.070836	1.227242	-0.138992
3	6	0	2.400095	-0.006509	-0.432984
4	6	0	0.976658	-0.026919	-0.463244
5	6	0	0.168252	1.146021	-0.192789
6	6	0	0.885291	2.339889	0.041769
7	6	0	3.120278	-1.212137	-0.705971
8	6	0	0.285603	-1.217384	-0.794843
9	1	0	0.348110	3.272977	0.191582
10	6	0	0.996017	-2.373428	-1.092607
11	6	0	2.394254	-2.366716	-1.028936
12	1	0	0.481711	-3.284886	-1.388049
13	6	0	6.651874	2.423976	0.256821
14	6	0	7.366283	1.271797	0.009010
15	6	0	6.691945	0.061315	-0.294130
16	6	0	5.258395	0.039677	-0.345286
17	6	0	4.529518	1.250159	-0.087232

18	6	0	5.249600	2.411125	0.210494
19	1	0	7.169114	3.350168	0.490337
20	6	0	7.419691	-1.128477	-0.546338
21	6	0	4.589789	-1.189449	-0.652282
22	6	0	5.357786	-2.330252	-0.887415
23	6	0	6.760521	-2.302720	-0.836918
24	1	0	7.319870	-3.213800	-1.028604
25	1	0	4.877329	-3.274743	-1.116289
26	1	0	2.915107	-3.287216	-1.265543
27	1	0	4.725985	3.337965	0.415712
28	1	0	2.753633	3.324525	0.261003
29	15	0	-1.519455	-0.934482	-0.943353
30	6	0	-3.519837	-3.503309	1.447458
31	6	0	-2.582988	-3.113570	2.350276
32	1	0	-4.329371	-4.209059	1.540594
33	1	0	-2.427754	-3.422922	3.371208
34	6	0	-4.189093	3.309519	-0.881614
35	6	0	-3.770581	3.713249	0.342751
36	1	0	-4.977198	3.692495	-1.509632
37	1	0	-4.139427	4.499148	0.981864
38	6	0	-2.194457	-1.991484	0.449393
39	6	0	-2.456293	1.986347	-0.289047
40	7	0	-1.777007	-2.179853	1.731379
41	7	0	-3.271377	-2.810841	0.279795
42	7	0	-2.708426	2.901242	0.700564
43	7	0	-3.382842	2.252146	-1.264719
44	6	0	-0.616575	-1.529080	2.404690
45	6	0	0.512748	-2.542625	2.611171
46	6	0	-1.065304	-0.876699	3.715640
47	1	0	-0.290321	-0.750848	1.716564
48	1	0	0.829704	-2.981216	1.662159
49	1	0	1.375103	-2.034724	3.053831
50	1	0	0.210150	-3.345863	3.292937
51	1	0	-1.904199	-0.193453	3.556161
52	1	0	-1.357538	-1.617381	4.468147
53	1	0	-0.229349	-0.304752	4.129893
54	6	0	-4.073822	-2.991800	-0.962817
55	6	0	-5.521409	-2.551935	-0.725903
56	6	0	-3.955411	-4.434052	-1.463783
57	1	0	-3.607009	-2.325546	-1.690797
58	1	0	-5.569637	-1.518764	-0.366631
59	1	0	-6.078019	-2.615514	-1.666058
60	1	0	-6.029844	-3.193425	0.002455
61	1	0	-2.909144	-4.711510	-1.624208

62	1	0	-4.402342	-5.149450	-0.764689
63	1	0	-4.483240	-4.529240	-2.417685
64	6	0	-3.399370	1.673234	-2.631772
65	6	0	-2.889133	2.701290	-3.648068
66	6	0	-4.790936	1.134299	-2.973707
67	1	0	-2.699115	0.838519	-2.594931
68	1	0	-1.888254	3.051955	-3.378722
69	1	0	-2.834814	2.241411	-4.639903
70	1	0	-3.556010	3.568063	-3.715424
71	1	0	-5.132580	0.412215	-2.224797
72	1	0	-5.536507	1.934168	-3.044781
73	1	0	-4.756884	0.632339	-3.945624
74	6	0	-2.066877	2.936295	2.036290
75	6	0	-3.062738	2.472210	3.106721
76	6	0	-1.501349	4.327774	2.336928
77	1	0	-1.244396	2.221062	1.968496
78	1	0	-3.471323	1.485830	2.864140
79	1	0	-2.562532	2.412093	4.078566
80	1	0	-3.899408	3.172400	3.206472
81	1	0	-0.815481	4.660912	1.553263
82	1	0	-2.295652	5.075468	2.440746
83	1	0	-0.951258	4.300050	3.282668
84	5	0	-1.328206	0.908412	-0.309099
85	1	0	8.452384	1.273040	0.042804
86	1	0	8.505237	-1.097288	-0.505517

UWB97XD/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	2.223042	2.394606	-0.197366
2	6	0	3.007172	1.244517	-0.315394
3	6	0	2.337787	0.000832	-0.548540
4	6	0	0.925067	-0.012078	-0.609384
5	6	0	0.121589	1.171105	-0.414413
6	6	0	0.830920	2.368335	-0.248178
7	6	0	3.049564	-1.221188	-0.730044
8	6	0	0.231654	-1.213009	-0.874659
9	1	0	0.294078	3.309404	-0.167739
10	6	0	0.931011	-2.382275	-1.094112
11	6	0	2.328341	-2.380138	-1.005916
12	1	0	0.413147	-3.307341	-1.334147

13	6	0	6.585360	2.430902	0.095356
14	6	0	7.290085	1.264961	-0.054476
15	6	0	6.611469	0.044888	-0.295668
16	6	0	5.189611	0.032150	-0.386994
17	6	0	4.469143	1.259919	-0.228656
18	6	0	5.184069	2.424525	0.010837
19	1	0	7.103714	3.366220	0.281189
20	6	0	7.334890	-1.162839	-0.444850
21	6	0	4.520097	-1.206941	-0.631825
22	6	0	5.275260	-2.360553	-0.763255
23	6	0	6.676380	-2.342921	-0.672507
24	1	0	7.230148	-3.269546	-0.784383
25	1	0	4.793945	-3.315569	-0.940154
26	1	0	2.844887	-3.316707	-1.179185
27	1	0	4.666217	3.367954	0.140536
28	1	0	2.700548	3.358474	-0.060247
29	15	0	-1.574758	-0.963396	-0.964853
30	6	0	-3.154468	-3.400828	1.808735
31	6	0	-2.234780	-2.798155	2.599180
32	1	0	-3.864325	-4.181404	2.029270
33	1	0	-1.994220	-2.957969	3.637565
34	6	0	-4.315039	3.212140	-0.950157
35	6	0	-3.768500	3.735077	0.169509
36	1	0	-5.177947	3.523169	-1.515606
37	1	0	-4.073150	4.578961	0.767003
38	6	0	-2.079518	-1.885370	0.571976
39	6	0	-2.509386	1.975720	-0.438724
40	7	0	-1.584983	-1.861896	1.830443
41	7	0	-3.050438	-2.828236	0.562892
42	7	0	-2.661392	2.971812	0.476475
43	7	0	-3.532400	2.139343	-1.321028
44	6	0	-0.492759	-1.001333	2.342165
45	6	0	0.795135	-1.803715	2.493824
46	6	0	-0.919375	-0.333231	3.645756
47	1	0	-0.360484	-0.230824	1.584404
48	1	0	1.080684	-2.279275	1.553674
49	1	0	1.603372	-1.129501	2.790446
50	1	0	0.691857	-2.572873	3.267648
51	1	0	-1.895735	0.147068	3.547245
52	1	0	-0.959879	-1.041409	4.480092
53	1	0	-0.182154	0.431773	3.905316
54	6	0	-3.858070	-3.257392	-0.601700
55	6	0	-5.345468	-3.137137	-0.285540
56	6	0	-3.440836	-4.661600	-1.027536

57	1	0	-3.601109	-2.556453	-1.397645
58	1	0	-5.597846	-2.130322	0.060137
59	1	0	-5.922145	-3.344000	-1.191157
60	1	0	-5.661872	-3.856236	0.477298
61	1	0	-2.372746	-4.695505	-1.261099
62	1	0	-3.651597	-5.399027	-0.245761
63	1	0	-3.997396	-4.952186	-1.922706
64	6	0	-3.771176	1.308278	-2.513140
65	6	0	-4.093536	2.170946	-3.729684
66	6	0	-4.856016	0.276900	-2.213216
67	1	0	-2.825568	0.794187	-2.695809
68	1	0	-3.330611	2.939436	-3.880475
69	1	0	-4.119710	1.535741	-4.619180
70	1	0	-5.072139	2.655035	-3.645848
71	1	0	-4.593874	-0.310162	-1.327184
72	1	0	-5.821347	0.762303	-2.032120
73	1	0	-4.968816	-0.406013	-3.060368
74	6	0	-1.914353	3.102342	1.739419
75	6	0	-2.822986	2.714573	2.905368
76	6	0	-1.345095	4.509222	1.896571
77	1	0	-1.093625	2.386157	1.662078
78	1	0	-3.270852	1.730486	2.737167
79	1	0	-2.246659	2.684767	3.834516
80	1	0	-3.632786	3.440086	3.036171
81	1	0	-0.748920	4.801442	1.028772
82	1	0	-2.138718	5.251401	2.034515
83	1	0	-0.703687	4.544655	2.781447
84	5	0	-1.377503	0.907680	-0.479376
85	1	0	8.374376	1.258708	0.010056
86	1	0	8.418606	-1.137135	-0.374108

UM06-2X/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	2.259174	2.385663	-0.272616
2	6	0	3.028177	1.225146	-0.349025
3	6	0	2.344011	-0.019072	-0.527926
4	6	0	0.929221	-0.017784	-0.582316
5	6	0	0.140859	1.178339	-0.425139
6	6	0	0.862381	2.370692	-0.309844
7	6	0	3.042665	-1.255864	-0.674625

8	6	0	0.221930	-1.219257	-0.822554
9	1	0	0.336455	3.321139	-0.265219
10	6	0	0.909377	-2.399871	-1.015891
11	6	0	2.309308	-2.412811	-0.920961
12	1	0	0.381625	-3.322869	-1.243833
13	6	0	6.625137	2.388896	-0.023337
14	6	0	7.316164	1.209603	-0.130654
15	6	0	6.621720	-0.012137	-0.313832
16	6	0	5.198946	-0.012853	-0.392936
17	6	0	4.493359	1.228287	-0.278021
18	6	0	5.221248	2.393776	-0.093573
19	1	0	7.154520	3.325428	0.118195
20	6	0	7.331677	-1.233843	-0.416676
21	6	0	4.513980	-1.254402	-0.581395
22	6	0	5.254560	-2.421455	-0.666011
23	6	0	6.658392	-2.415775	-0.586411
24	1	0	7.200530	-3.352664	-0.660817
25	1	0	4.758912	-3.376776	-0.794210
26	1	0	2.817370	-3.357563	-1.073464
27	1	0	4.712053	3.345727	0.003038
28	1	0	2.748685	3.348705	-0.180972
29	15	0	-1.582010	-0.948507	-0.963253
30	6	0	-3.199538	-3.386793	1.801920
31	6	0	-2.298035	-2.768661	2.605725
32	1	0	-3.905634	-4.173897	2.013752
33	1	0	-2.073337	-2.916277	3.650200
34	6	0	-4.276867	3.273677	-0.986106
35	6	0	-3.648007	3.873201	0.051378
36	1	0	-5.160092	3.565500	-1.530476
37	1	0	-3.890685	4.776391	0.588425
38	6	0	-2.117978	-1.866163	0.574480
39	6	0	-2.477525	2.023093	-0.470201
40	7	0	-1.645337	-1.832191	1.840038
41	7	0	-3.079765	-2.818656	0.555215
42	7	0	-2.547079	3.102347	0.360942
43	7	0	-3.549492	2.146281	-1.303193
44	6	0	-0.569224	-0.955881	2.363264
45	6	0	0.718884	-1.749253	2.550794
46	6	0	-1.030284	-0.289763	3.655567
47	1	0	-0.429187	-0.191802	1.598637
48	1	0	1.036208	-2.221188	1.618689
49	1	0	1.511465	-1.070607	2.877603
50	1	0	0.592300	-2.519885	3.319296
51	1	0	-2.008837	0.181074	3.535112

52	1	0	-1.082719	-1.002065	4.485134
53	1	0	-0.305188	0.479939	3.933403
54	6	0	-3.843947	-3.283663	-0.627437
55	6	0	-5.336573	-3.296246	-0.318831
56	6	0	-3.313492	-4.642847	-1.069801
57	1	0	-3.637969	-2.547488	-1.406196
58	1	0	-5.674939	-2.326090	0.055348
59	1	0	-5.887525	-3.524882	-1.234678
60	1	0	-5.592920	-4.064545	0.417358
61	1	0	-2.247625	-4.584604	-1.306971
62	1	0	-3.458888	-5.396442	-0.289136
63	1	0	-3.848859	-4.972401	-1.963772
64	6	0	-3.901151	1.194517	-2.370032
65	6	0	-4.477933	1.914235	-3.583736
66	6	0	-4.856084	0.141687	-1.812024
67	1	0	-2.958127	0.722566	-2.656054
68	1	0	-3.818952	2.720105	-3.916235
69	1	0	-4.584147	1.198168	-4.402191
70	1	0	-5.471263	2.326073	-3.380378
71	1	0	-4.437495	-0.321068	-0.911346
72	1	0	-5.816825	0.596902	-1.548392
73	1	0	-5.035815	-0.639339	-2.557239
74	6	0	-1.760251	3.291444	1.594519
75	6	0	-2.636589	2.946443	2.797079
76	6	0	-1.208047	4.710212	1.676520
77	1	0	-0.935649	2.579094	1.524822
78	1	0	-3.079551	1.953787	2.675412
79	1	0	-2.039982	2.957625	3.713460
80	1	0	-3.447725	3.672734	2.911459
81	1	0	-0.646440	4.977950	0.778558
82	1	0	-2.010392	5.442512	1.812805
83	1	0	-0.541127	4.789853	2.538736
84	5	0	-1.371019	0.932035	-0.486873
85	1	0	8.400795	1.191336	-0.076095
86	1	0	8.416053	-1.214292	-0.355612

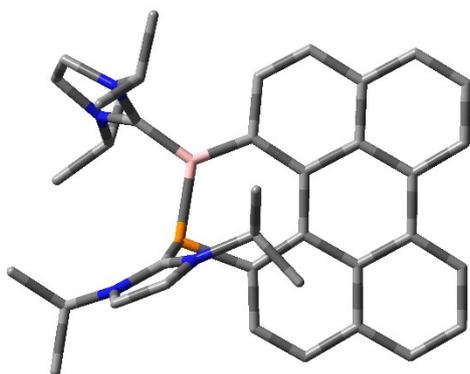
UBP86/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	2.278217	2.381767	0.030976
2	6	0	3.077368	1.225092	-0.156694

3	6	0	2.401744	-0.018117	-0.427029
4	6	0	0.969550	-0.037106	-0.451245
5	6	0	0.160206	1.145883	-0.198276
6	6	0	0.882240	2.351982	0.006997
7	6	0	3.123799	-1.235505	-0.681286
8	6	0	0.274049	-1.238382	-0.763078
9	1	0	0.339470	3.295742	0.137339
10	6	0	0.985568	-2.410285	-1.043342
11	6	0	2.389832	-2.403480	-0.982302
12	1	0	0.463666	-3.332665	-1.324237
13	6	0	6.672606	2.432051	0.219452
14	6	0	7.390501	1.266408	-0.014390
15	6	0	6.711718	0.046902	-0.298677
16	6	0	5.268617	0.025658	-0.346719
17	6	0	4.538029	1.246291	-0.105956
18	6	0	5.265322	2.420114	0.175638
19	1	0	7.196641	3.368170	0.440119
20	6	0	7.440946	-1.152604	-0.535389
21	6	0	4.594765	-1.212838	-0.633524
22	6	0	5.367297	-2.366964	-0.854972
23	6	0	6.775323	-2.339575	-0.808534
24	1	0	7.339022	-3.261012	-0.989118
25	1	0	4.879026	-3.321889	-1.069625
26	1	0	2.915169	-3.336158	-1.205630
27	1	0	4.736102	3.357362	0.370274
28	1	0	2.764666	3.347679	0.197767
29	15	0	-1.534349	-0.946940	-0.920855
30	6	0	-3.530201	-3.512481	1.492719
31	6	0	-2.609119	-3.078892	2.409043
32	1	0	-4.334139	-4.237527	1.589043
33	1	0	-2.463066	-3.362748	3.447978
34	6	0	-4.222430	3.301768	-0.923305
35	6	0	-3.772208	3.757861	0.284152
36	1	0	-5.026120	3.667142	-1.556885
37	1	0	-4.126039	4.577937	0.903471
38	6	0	-2.209229	-1.986544	0.475216
39	6	0	-2.476363	1.981334	-0.303918
40	7	0	-1.808919	-2.139707	1.779277
41	7	0	-3.274759	-2.839923	0.308729
42	7	0	-2.705216	2.950127	0.655753
43	7	0	-3.433029	2.214937	-1.275827
44	6	0	-0.663065	-1.448350	2.445109
45	6	0	0.503443	-2.427365	2.643130
46	6	0	-1.124975	-0.809720	3.763155

47	1	0	-0.370724	-0.652697	1.741848
48	1	0	0.832537	-2.856388	1.683519
49	1	0	1.357690	-1.887916	3.085597
50	1	0	0.227611	-3.247111	3.330925
51	1	0	-1.995760	-0.150690	3.611765
52	1	0	-1.383475	-1.565752	4.525751
53	1	0	-0.298955	-0.204246	4.172493
54	6	0	-4.046896	-3.062822	-0.950551
55	6	0	-5.512936	-2.650605	-0.752947
56	6	0	-3.882952	-4.515106	-1.422125
57	1	0	-3.568035	-2.389363	-1.682211
58	1	0	-5.594254	-1.604920	-0.410475
59	1	0	-6.050741	-2.744865	-1.711394
60	1	0	-6.026919	-3.297389	-0.019757
61	1	0	-2.819306	-4.774316	-1.554976
62	1	0	-4.334069	-5.232695	-0.714058
63	1	0	-4.390865	-4.641491	-2.393072
64	6	0	-3.452892	1.592991	-2.630114
65	6	0	-2.741773	2.510152	-3.638632
66	6	0	-4.886961	1.239265	-3.047299
67	1	0	-2.874012	0.661688	-2.522271
68	1	0	-1.708387	2.721070	-3.316279
69	1	0	-2.701381	2.017982	-4.625339
70	1	0	-3.277770	3.468740	-3.756764
71	1	0	-5.388588	0.616153	-2.287168
72	1	0	-5.504740	2.137444	-3.225456
73	1	0	-4.858017	0.674261	-3.994143
74	6	0	-2.043823	3.022572	1.985442
75	6	0	-3.030658	2.587884	3.082766
76	6	0	-1.473898	4.426066	2.239571
77	1	0	-1.215967	2.296250	1.920998
78	1	0	-3.447841	1.588735	2.869426
79	1	0	-2.515494	2.552917	4.057807
80	1	0	-3.871018	3.298750	3.173637
81	1	0	-0.796161	4.743082	1.430084
82	1	0	-2.274070	5.181256	2.338480
83	1	0	-0.903984	4.424460	3.184005
84	5	0	-1.345860	0.906718	-0.306917
85	1	0	8.485902	1.266836	0.017310
86	1	0	8.535831	-1.121150	-0.497254

1PB-d



UB3LYP/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-0.861729	1.355174	-1.050363
2	6	0	-1.946665	0.509182	-0.696472
3	6	0	-3.280085	1.063554	-0.830402
4	6	0	-3.470006	2.397823	-1.332258
5	6	0	-2.344656	3.175615	-1.705273
6	6	0	-1.086616	2.657262	-1.570195
7	6	0	-4.442870	0.315347	-0.463699
8	6	0	-4.767762	2.939872	-1.466189
9	1	0	-2.498891	4.174141	-2.105114
10	1	0	-0.227250	3.250732	-1.874186
11	6	0	-5.872454	2.194712	-1.115140
12	6	0	-5.705281	0.897694	-0.620158
13	1	0	-4.875085	3.949060	-1.854403
14	1	0	-6.872677	2.604216	-1.222434
15	6	0	-0.485897	-2.923583	0.227613
16	6	0	-1.598669	-3.620358	0.570994
17	6	0	-2.876161	-2.987341	0.556964
18	6	0	-2.977530	-1.620731	0.122585
19	6	0	-1.791182	-0.874467	-0.224776
20	6	0	-0.505003	-1.526799	-0.130732
21	1	0	-3.900544	-4.739973	1.269356
22	1	0	0.470205	-3.440076	0.226495
23	1	0	-1.539146	-4.668866	0.853127
24	6	0	-4.017305	-3.708889	0.945976
25	6	0	-4.285569	-1.044400	0.053806
26	6	0	-5.389830	-1.798510	0.470636
27	6	0	-5.265925	-3.114094	0.917326
28	1	0	-6.148867	-3.664518	1.228439
29	15	0	0.907413	0.929962	-0.959958
30	6	0	1.669047	3.011727	2.513490

31	6	0	2.714895	3.392202	1.734469
32	1	0	1.406899	3.301241	3.518354
33	1	0	3.530143	4.067189	1.939618
34	6	0	4.054155	-2.826527	0.149617
35	6	0	4.033695	-2.740303	-1.205211
36	1	0	4.772665	-3.284761	0.810092
37	1	0	4.728027	-3.116554	-1.939307
38	6	0	1.464453	1.954500	0.547550
39	6	0	2.188998	-1.705527	-0.433914
40	7	0	2.577524	2.739982	0.524499
41	7	0	0.911241	2.121541	1.778601
42	7	0	2.915657	-2.189503	0.612612
43	7	0	2.885035	-2.052229	-1.552041
44	6	0	2.567989	-2.025933	2.045003
45	6	0	3.572486	-1.093307	2.730965
46	6	0	2.456773	-3.386872	2.738542
47	1	0	1.582181	-1.553524	2.030150
48	1	0	3.622654	-0.123468	2.225014
49	1	0	3.270826	-0.924516	3.769738
50	1	0	4.578542	-1.526911	2.745646
51	1	0	1.728386	-4.028778	2.235819
52	1	0	3.420109	-3.907830	2.771273
53	1	0	2.125607	-3.241780	3.771528
54	6	0	2.425757	-1.841322	-2.950720
55	6	0	2.089857	-3.185891	-3.603868
56	6	0	3.454553	-1.027379	-3.738328
57	1	0	1.507382	-1.258220	-2.851503
58	1	0	1.342972	-3.730365	-3.018315
59	1	0	1.679415	-3.012160	-4.603373
60	1	0	2.978471	-3.817845	-3.712732
61	1	0	3.660655	-0.071918	-3.246244
62	1	0	4.398889	-1.570149	-3.860536
63	1	0	3.062597	-0.818248	-4.738314
64	6	0	-0.348907	1.503753	2.283615
65	6	0	-1.464019	2.552564	2.331692
66	6	0	-0.109934	0.835669	3.640787
67	1	0	-0.600951	0.735404	1.554993
68	1	0	-1.614993	3.014876	1.353033
69	1	0	-2.400448	2.070865	2.628615
70	1	0	-1.241395	3.337362	3.064030
71	1	0	0.722578	0.126499	3.599236
72	1	0	0.093589	1.564582	4.433014
73	1	0	-1.011364	0.285437	3.926168
74	6	0	3.520976	2.916568	-0.615017

75	6	0	4.889740	2.325232	-0.265457
76	6	0	3.588683	4.390088	-1.026225
77	1	0	3.075321	2.341030	-1.428926
78	1	0	4.807735	1.266808	0.003168
79	1	0	5.554276	2.407494	-1.131264
80	1	0	5.362649	2.857948	0.567207
81	1	0	2.593636	4.782185	-1.257713
82	1	0	4.036715	5.016198	-0.246813
83	1	0	4.209384	4.485259	-1.922452
84	5	0	0.832292	-0.883516	-0.393202
85	1	0	-6.381579	-1.364137	0.450927
86	1	0	-6.596195	0.337856	-0.365114

UWB97XD/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-0.911943	1.392785	-1.146996
2	6	0	-1.962090	0.511877	-0.816755
3	6	0	-3.306318	1.037321	-0.899781
4	6	0	-3.534911	2.373681	-1.349307
5	6	0	-2.438443	3.194725	-1.710645
6	6	0	-1.171304	2.707789	-1.610680
7	6	0	-4.438712	0.254592	-0.525503
8	6	0	-4.845513	2.887180	-1.442532
9	1	0	-2.624681	4.202865	-2.068869
10	1	0	-0.329032	3.334135	-1.894024
11	6	0	-5.919788	2.106291	-1.100680
12	6	0	-5.710735	0.801171	-0.645417
13	1	0	-4.985158	3.904990	-1.794990
14	1	0	-6.931310	2.491384	-1.180440
15	6	0	-0.399319	-2.892399	0.013737
16	6	0	-1.478073	-3.615630	0.385615
17	6	0	-2.770562	-3.012436	0.411464
18	6	0	-2.920585	-1.656556	-0.010774
19	6	0	-1.765806	-0.881055	-0.388897
20	6	0	-0.473848	-1.496831	-0.334950
21	1	0	-3.727510	-4.790327	1.149966
22	1	0	0.572295	-3.379502	-0.021719
23	1	0	-1.384578	-4.663050	0.660341
24	6	0	-3.878044	-3.761093	0.836160
25	6	0	-4.235783	-1.109575	-0.027239

26	6	0	-5.302442	-1.881925	0.425594
27	6	0	-5.134111	-3.196231	0.857610
28	1	0	-5.992219	-3.766508	1.198195
29	15	0	0.861165	1.029565	-1.051660
30	6	0	1.471697	2.620244	2.662336
31	6	0	2.588373	3.020000	2.007862
32	1	0	1.155065	2.801780	3.676357
33	1	0	3.426053	3.605308	2.348951
34	6	0	4.102077	-2.436218	0.326932
35	6	0	4.248802	-2.335017	-1.015664
36	1	0	4.770682	-2.825847	1.077608
37	1	0	5.067498	-2.624976	-1.654297
38	6	0	1.342091	1.840257	0.578980
39	6	0	2.231747	-1.518463	-0.494197
40	7	0	2.492687	2.538880	0.721616
41	7	0	0.720780	1.882040	1.778119
42	7	0	2.855941	-1.931235	0.632562
43	7	0	3.089582	-1.772684	-1.506143
44	6	0	2.310979	-1.780036	1.992619
45	6	0	3.127274	-0.744149	2.761107
46	6	0	2.233276	-3.128447	2.699443
47	1	0	1.296280	-1.403624	1.837174
48	1	0	3.148060	0.210700	2.227089
49	1	0	2.686000	-0.578071	3.748144
50	1	0	4.159074	-1.079946	2.910785
51	1	0	1.637253	-3.838113	2.120278
52	1	0	3.227135	-3.556021	2.869933
53	1	0	1.755648	-2.999503	3.674748
54	6	0	2.807314	-1.523183	-2.933540
55	6	0	2.938689	-2.817062	-3.731094
56	6	0	3.696027	-0.398347	-3.454166
57	1	0	1.763191	-1.198802	-2.955074
58	1	0	2.307211	-3.603004	-3.307801
59	1	0	2.620892	-2.639437	-4.761920
60	1	0	3.973845	-3.173866	-3.760416
61	1	0	3.531023	0.519376	-2.882065
62	1	0	4.756463	-0.668546	-3.397237
63	1	0	3.455918	-0.195513	-4.501385
64	6	0	-0.584622	1.267060	2.115519
65	6	0	-1.690314	2.316468	2.070847
66	6	0	-0.511529	0.550472	3.459977
67	1	0	-0.753454	0.518898	1.345269
68	1	0	-1.706476	2.833794	1.108611
69	1	0	-2.658144	1.825938	2.206608

70	1	0	-1.563045	3.055138	2.870319
71	1	0	0.330809	-0.145860	3.501087
72	1	0	-0.433927	1.246358	4.301946
73	1	0	-1.431868	-0.023975	3.593630
74	6	0	3.544961	2.679734	-0.309824
75	6	0	4.551934	1.540233	-0.170171
76	6	0	4.194284	4.057163	-0.242176
77	1	0	3.018796	2.579686	-1.261957
78	1	0	4.059790	0.567211	-0.266078
79	1	0	5.310930	1.617653	-0.954015
80	1	0	5.057648	1.580313	0.800885
81	1	0	3.444529	4.853024	-0.256334
82	1	0	4.823431	4.175817	0.646181
83	1	0	4.840687	4.183873	-1.114513
84	5	0	0.830648	-0.801240	-0.595298
85	1	0	-6.303049	-1.468966	0.452145
86	1	0	-6.583787	0.212605	-0.393675

UM06-2X/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-0.910199	1.388167	-1.115477
2	6	0	-1.966288	0.513720	-0.786295
3	6	0	-3.308660	1.046410	-0.877422
4	6	0	-3.527404	2.389029	-1.316268
5	6	0	-2.424482	3.206701	-1.670102
6	6	0	-1.160740	2.708777	-1.575205
7	6	0	-4.450611	0.265945	-0.521575
8	6	0	-4.834021	2.914083	-1.409978
9	1	0	-2.606450	4.218512	-2.020162
10	1	0	-0.312452	3.328363	-1.856521
11	6	0	-5.915735	2.138572	-1.077176
12	6	0	-5.717665	0.825572	-0.635484
13	1	0	-4.961264	3.936322	-1.753863
14	1	0	-6.923889	2.532498	-1.153117
15	6	0	-0.421851	-2.884055	0.111178
16	6	0	-1.510501	-3.607762	0.460713
17	6	0	-2.804731	-3.009797	0.434285
18	6	0	-2.944892	-1.653422	0.007242
19	6	0	-1.781247	-0.880299	-0.347274
20	6	0	-0.494910	-1.497451	-0.269486

21	1	0	-3.776896	-4.795050	1.132578
22	1	0	0.554378	-3.365301	0.112833
23	1	0	-1.424560	-4.650559	0.754661
24	6	0	-3.924482	-3.766661	0.815088
25	6	0	-4.261688	-1.108700	-0.044673
26	6	0	-5.341294	-1.891551	0.354765
27	6	0	-5.183847	-3.210212	0.784480
28	1	0	-6.052514	-3.787016	1.083840
29	15	0	0.865657	1.012550	-1.045125
30	6	0	1.472116	2.646579	2.662441
31	6	0	2.587658	3.052461	2.003572
32	1	0	1.150738	2.832384	3.674982
33	1	0	3.419214	3.651117	2.337798
34	6	0	4.116259	-2.460035	0.249811
35	6	0	4.236465	-2.311023	-1.093056
36	1	0	4.803531	-2.866028	0.975265
37	1	0	5.045515	-2.569551	-1.758012
38	6	0	1.351623	1.847702	0.583754
39	6	0	2.216415	-1.540926	-0.505991
40	7	0	2.495492	2.558702	0.721857
41	7	0	0.730139	1.895742	1.781630
42	7	0	2.867559	-1.986758	0.593617
43	7	0	3.059913	-1.750271	-1.542259
44	6	0	2.360410	-1.869117	1.974430
45	6	0	3.106866	-0.745820	2.689030
46	6	0	2.460257	-3.205771	2.698535
47	1	0	1.305876	-1.599922	1.860741
48	1	0	2.979811	0.203836	2.157567
49	1	0	2.727554	-0.628610	3.708129
50	1	0	4.177731	-0.967429	2.752566
51	1	0	1.941844	-3.991661	2.143584
52	1	0	3.501900	-3.507115	2.849201
53	1	0	1.995687	-3.117832	3.683888
54	6	0	2.755907	-1.467732	-2.961697
55	6	0	2.918889	-2.736892	-3.791450
56	6	0	3.621129	-0.315968	-3.460149
57	1	0	1.704405	-1.166816	-2.966501
58	1	0	2.317086	-3.552435	-3.382930
59	1	0	2.588960	-2.542923	-4.814858
60	1	0	3.965057	-3.056585	-3.835019
61	1	0	3.430155	0.590535	-2.878467
62	1	0	4.685649	-0.566967	-3.394991
63	1	0	3.386318	-0.107631	-4.507061
64	6	0	-0.564793	1.257147	2.121369

65	6	0	-1.689466	2.285014	2.075700
66	6	0	-0.469308	0.555666	3.471384
67	1	0	-0.714417	0.501520	1.353006
68	1	0	-1.719764	2.797789	1.110783
69	1	0	-2.646724	1.776450	2.222007
70	1	0	-1.568092	3.027729	2.872047
71	1	0	0.387162	-0.124054	3.508869
72	1	0	-0.394927	1.264097	4.302518
73	1	0	-1.378558	-0.032013	3.620045
74	6	0	3.552206	2.682567	-0.309863
75	6	0	4.482453	1.475452	-0.219736
76	6	0	4.295636	4.004263	-0.168325
77	1	0	3.020178	2.664660	-1.264416
78	1	0	3.926292	0.541010	-0.357333
79	1	0	5.250546	1.536764	-0.996027
80	1	0	4.979103	1.445807	0.756349
81	1	0	3.605180	4.850848	-0.133010
82	1	0	4.930936	4.021745	0.722704
83	1	0	4.948936	4.132941	-1.034386
84	5	0	0.816171	-0.814214	-0.559055
85	1	0	-6.344485	-1.485134	0.338904
86	1	0	-6.595024	0.242835	-0.386533

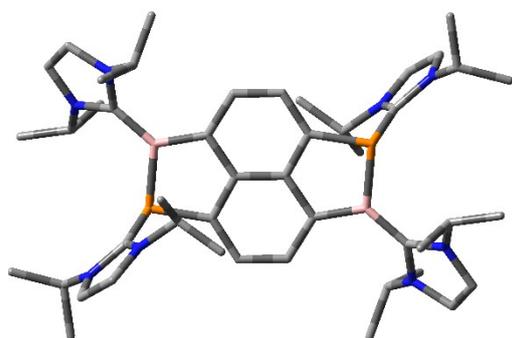
UBP86/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-0.846120	1.384315	-1.018780
2	6	0	-1.941703	0.524748	-0.690770
3	6	0	-3.277885	1.086674	-0.820767
4	6	0	-3.464596	2.442158	-1.293552
5	6	0	-2.331543	3.230952	-1.640483
6	6	0	-1.064927	2.704034	-1.509043
7	6	0	-4.449149	0.326120	-0.479435
8	6	0	-4.767798	2.990080	-1.424488
9	1	0	-2.483504	4.247671	-2.020125
10	1	0	-0.194050	3.307104	-1.794844
11	6	0	-5.883391	2.230932	-1.100143
12	6	0	-5.719492	0.916292	-0.634260
13	1	0	-4.872287	4.017369	-1.791437
14	1	0	-6.890815	2.646643	-1.208056
15	6	0	-0.479952	-2.945798	0.136906

16	6	0	-1.603489	-3.656913	0.459932
17	6	0	-2.883277	-3.018501	0.465379
18	6	0	-2.981725	-1.630956	0.067136
19	6	0	-1.789582	-0.873930	-0.254531
20	6	0	-0.496803	-1.534049	-0.173114
21	1	0	-3.918135	-4.800301	1.130598
22	1	0	0.484700	-3.466484	0.114888
23	1	0	-1.546332	-4.723326	0.709674
24	6	0	-4.033294	-3.751203	0.834463
25	6	0	-4.295676	-1.047469	0.007877
26	6	0	-5.409400	-1.814392	0.407781
27	6	0	-5.288443	-3.147996	0.821991
28	1	0	-6.180031	-3.708868	1.121258
29	15	0	0.929197	0.954842	-0.922568
30	6	0	1.621881	2.949512	2.622621
31	6	0	2.669329	3.385910	1.855027
32	1	0	1.342709	3.203493	3.642012
33	1	0	3.471200	4.082633	2.085590
34	6	0	4.066108	-2.880488	0.088368
35	6	0	4.087253	-2.688256	-1.266989
36	1	0	4.768631	-3.394828	0.739105
37	1	0	4.806935	-3.013849	-2.013833
38	6	0	1.458838	1.937247	0.612060
39	6	0	2.208706	-1.700286	-0.467220
40	7	0	2.556620	2.762920	0.621524
41	7	0	0.891812	2.056051	1.854606
42	7	0	2.910708	-2.274513	0.565852
43	7	0	2.946565	-1.968268	-1.594945
44	6	0	2.526091	-2.201664	2.001230
45	6	0	3.506148	-1.296157	2.764659
46	6	0	2.419710	-3.607049	2.610771
47	1	0	1.524702	-1.736171	1.985167
48	1	0	3.551138	-0.288874	2.316440
49	1	0	3.180759	-1.195756	3.814322
50	1	0	4.525967	-1.720148	2.772317
51	1	0	1.712999	-4.236523	2.046126
52	1	0	3.399236	-4.116527	2.643430
53	1	0	2.053414	-3.528325	3.648257
54	6	0	2.517306	-1.661817	-2.990197
55	6	0	2.206612	-2.963884	-3.744603
56	6	0	3.560603	-0.785374	-3.695301
57	1	0	1.583368	-1.087298	-2.864849
58	1	0	1.447421	-3.559681	-3.211155
59	1	0	1.811848	-2.721161	-4.745595

60	1	0	3.110854	-3.583467	-3.881176
61	1	0	3.744581	0.144085	-3.130821
62	1	0	4.521041	-1.314911	-3.829552
63	1	0	3.190079	-0.511121	-4.697267
64	6	0	-0.360556	1.388012	2.324721
65	6	0	-1.507538	2.407932	2.378025
66	6	0	-0.121178	0.692536	3.672654
67	1	0	-0.576366	0.624478	1.562049
68	1	0	-1.655940	2.892832	1.399784
69	1	0	-2.442481	1.889917	2.648944
70	1	0	-1.316872	3.186344	3.138986
71	1	0	0.740818	0.005602	3.627645
72	1	0	0.046461	1.413534	4.492521
73	1	0	-1.016523	0.103310	3.931427
74	6	0	3.494949	3.000846	-0.516150
75	6	0	4.891029	2.460093	-0.174385
76	6	0	3.498746	4.487831	-0.899567
77	1	0	3.062626	2.412951	-1.344633
78	1	0	4.854243	1.387463	0.081297
79	1	0	5.555923	2.584399	-1.045883
80	1	0	5.346021	3.005726	0.671508
81	1	0	2.480396	4.845261	-1.126432
82	1	0	3.923279	5.121443	-0.100730
83	1	0	4.120611	4.628663	-1.799643
84	5	0	0.853167	-0.882207	-0.406795
85	1	0	-6.407940	-1.370631	0.399592
86	1	0	-6.619157	0.342143	-0.400607

2PB-a



UB3LYP/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z

1	6	0	0.819339	2.323450	-0.620208
2	6	0	1.528422	1.156063	-0.208488
3	6	0	0.704400	-0.007799	0.079869
4	6	0	-0.704432	0.007832	-0.079854
5	6	0	-1.335483	1.183512	-0.551205
6	6	0	-0.560501	2.329426	-0.812757
7	1	0	1.364028	3.246354	-0.799415
8	6	0	1.335451	-1.183479	0.551223
9	6	0	-1.528453	-1.156031	0.208503
10	1	0	-1.040383	3.237833	-1.174673
11	6	0	-0.819370	-2.323419	0.620217
12	6	0	0.560470	-2.329393	0.812773
13	1	0	-1.364058	-3.246326	0.799415
14	1	0	1.040352	-3.237801	1.174690
15	15	0	-3.106917	0.886357	-0.840714
16	15	0	3.106881	-0.886317	0.840747
17	6	0	5.978367	3.188617	0.662225
18	6	0	5.520793	3.674886	-0.512619
19	6	0	4.410707	-3.186782	-2.292661
20	6	0	5.253130	-3.575927	-1.302477
21	6	0	-5.520785	-3.674928	0.512468
22	6	0	-5.978322	-3.188653	-0.662389
23	6	0	-5.253093	3.575947	1.302613
24	6	0	-4.410674	3.186745	2.292779
25	6	0	-4.164889	-1.942042	-0.076704
26	6	0	-3.888739	1.995199	0.461389
27	6	0	3.888727	-1.995191	-0.461314
28	6	0	4.164878	1.942043	0.076637
29	1	0	5.893045	4.481180	-1.123931
30	1	0	6.806039	3.512804	1.271838
31	1	0	-6.805958	-3.512853	-1.272044
32	1	0	-5.893042	-4.481243	1.123751
33	7	0	-5.161765	-2.125553	-1.024378
34	7	0	-4.414526	-2.918426	0.874697
35	7	0	4.414500	2.918405	-0.874790
36	7	0	5.161799	2.125543	1.024266
37	6	0	3.827546	2.964447	-2.228110
38	6	0	4.841693	2.450651	-3.260239
39	6	0	3.331289	4.373708	-2.568629
40	1	0	2.976489	2.282879	-2.192488
41	1	0	5.209366	1.458209	-2.980716
42	1	0	4.373549	2.383042	-4.248033
43	1	0	5.703893	3.121941	-3.343148
44	1	0	2.634653	4.746535	-1.812498

45	1	0	4.160051	5.086634	-2.651158
46	1	0	2.814908	4.358824	-3.533970
47	6	0	5.150343	1.562242	2.390918
48	6	0	4.457604	2.529597	3.359565
49	6	0	6.563800	1.184429	2.843388
50	1	0	4.555532	0.651450	2.326172
51	1	0	3.443739	2.753134	3.013446
52	1	0	4.390960	2.080567	4.356477
53	1	0	5.012235	3.471099	3.446613
54	1	0	7.050247	0.523110	2.118656
55	1	0	7.203381	2.062292	2.989748
56	1	0	6.509377	0.661736	3.803856
57	6	0	-5.150259	-1.562235	-2.391024
58	6	0	-6.563706	-1.184467	-2.843563
59	6	0	-4.457437	-2.529555	-3.359646
60	1	0	-4.555482	-0.651423	-2.326236
61	1	0	-7.050216	-0.523176	-2.118847
62	1	0	-6.509253	-0.661760	-3.804021
63	1	0	-7.203248	-2.062351	-2.989967
64	1	0	-3.443582	-2.753061	-3.013477
65	1	0	-5.012031	-3.471075	-3.446733
66	1	0	-4.390757	-2.080511	-4.356549
67	6	0	-3.827627	-2.964476	2.228040
68	6	0	-3.331344	-4.373729	2.568553
69	6	0	-4.841832	-2.450728	3.260136
70	1	0	-2.976587	-2.282883	2.192465
71	1	0	-2.634666	-4.746521	1.812445
72	1	0	-2.815004	-4.358849	3.533916
73	1	0	-4.160089	-5.086681	2.651033
74	1	0	-5.209527	-1.458295	2.980612
75	1	0	-5.704013	-3.122049	3.343000
76	1	0	-4.373730	-2.383118	4.247950
77	1	0	-4.336709	3.518829	3.315554
78	1	0	-6.047070	4.305073	1.305356
79	7	0	-3.581712	2.213100	1.771300
80	7	0	-4.923977	2.840879	0.179115
81	6	0	-2.512117	1.538695	2.555036
82	6	0	-3.084456	0.993976	3.867297
83	6	0	-1.335963	2.491930	2.784656
84	1	0	-2.195789	0.699447	1.936149
85	1	0	-3.957989	0.360811	3.689461
86	1	0	-2.318300	0.389178	4.362336
87	1	0	-3.367415	1.793505	4.561646
88	1	0	-0.923964	2.846862	1.837330

89	1	0	-1.635200	3.353329	3.394542
90	1	0	-0.542722	1.960024	3.319596
91	6	0	-5.604631	3.003319	-1.131059
92	6	0	-5.381155	4.417868	-1.674361
93	6	0	-7.085744	2.632464	-1.011037
94	1	0	-5.103782	2.290032	-1.788970
95	1	0	-4.313019	4.641184	-1.756967
96	1	0	-5.825805	4.499443	-2.671310
97	1	0	-5.847342	5.179354	-1.038907
98	1	0	-7.208224	1.618918	-0.615906
99	1	0	-7.629324	3.324246	-0.357437
100	1	0	-7.553867	2.675522	-1.999607
101	1	0	4.336758	-3.518900	-3.315426
102	1	0	6.047130	-4.305030	-1.305192
103	7	0	3.581711	-2.213146	-1.771219
104	7	0	4.923987	-2.840831	-0.179006
105	6	0	5.604637	-3.003207	1.131178
106	6	0	7.085741	-2.632314	1.011155
107	6	0	5.381196	-4.417743	1.674529
108	1	0	5.103764	-2.289911	1.789061
109	1	0	7.208195	-1.618777	0.615992
110	1	0	7.553857	-2.675326	1.999731
111	1	0	7.629346	-3.324102	0.357583
112	1	0	4.313065	-4.641083	1.757138
113	1	0	5.847405	-5.179239	1.039102
114	1	0	5.825844	-4.499272	2.671482
115	6	0	2.512099	-1.538800	-2.554983
116	6	0	1.335980	-2.492082	-2.784593
117	6	0	3.084432	-0.994092	-3.867250
118	1	0	2.195736	-0.699547	-1.936120
119	1	0	0.923985	-2.847010	-1.837264
120	1	0	0.542725	-1.960215	-3.319553
121	1	0	1.635255	-3.353482	-3.394460
122	1	0	3.957944	-0.360894	-3.689422
123	1	0	3.367423	-1.793627	-4.561579
124	1	0	2.318261	-0.389330	-4.362311
125	5	0	-3.010069	-0.923801	-0.080347
126	5	0	3.010040	0.923823	0.080339

UWB97XD/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z

1	6	0	1.026485	1.898865	-1.488307
2	6	0	1.613711	0.916775	-0.624295
3	6	0	0.675874	-0.050716	-0.065269
4	6	0	-0.690134	-0.051414	-0.394097
5	6	0	-1.200869	0.928022	-1.285502
6	6	0	-0.316561	1.885443	-1.820746
7	1	0	1.652500	2.685851	-1.899633
8	6	0	1.169412	-1.014000	0.835814
9	6	0	-1.597490	-1.000782	0.192275
10	1	0	-0.702665	2.651231	-2.491571
11	6	0	-1.041126	-1.977297	1.048101
12	6	0	0.312187	-1.972103	1.387227
13	1	0	-1.679848	-2.750909	1.471559
14	1	0	0.696798	-2.714325	2.083084
15	15	0	-2.981557	0.826190	-1.440417
16	15	0	2.935587	-0.725811	1.169743
17	6	0	6.059935	2.937272	-0.060268
18	6	0	5.722000	3.002581	-1.362501
19	6	0	4.298031	-3.726129	-1.221495
20	6	0	5.175808	-3.775539	-0.193320
21	6	0	-5.915968	-2.506311	1.353261
22	6	0	-6.323831	-2.519013	0.065507
23	6	0	-5.166879	3.093810	1.085385
24	6	0	-3.960080	3.375250	1.619767
25	6	0	-4.321380	-1.485133	0.130289
26	6	0	-3.621113	1.953000	-0.072914
27	6	0	3.707475	-2.141351	0.235666
28	6	0	4.234951	1.630162	-0.350708
29	1	0	6.184460	3.538106	-2.175852
30	1	0	6.861376	3.421474	0.471928
31	1	0	-7.217154	-2.929720	-0.375266
32	1	0	-6.398025	-2.886236	2.239210
33	7	0	-5.353024	-1.878911	-0.681071
34	7	0	-4.686454	-1.875917	1.389278
35	7	0	4.605384	2.203269	-1.540766
36	7	0	5.158785	2.086542	0.560999
37	6	0	4.150299	1.746808	-2.859197
38	6	0	5.205875	0.822524	-3.467584
39	6	0	3.820599	2.926646	-3.768265
40	1	0	3.241594	1.173459	-2.668858
41	1	0	5.433481	0.002828	-2.778050
42	1	0	4.842645	0.400116	-4.409782
43	1	0	6.135485	1.363485	-3.675924

44	1	0	3.108953	3.606607	-3.292694
45	1	0	4.717878	3.497345	-4.033485
46	1	0	3.377293	2.559800	-4.698493
47	6	0	5.001296	1.969415	2.018691
48	6	0	3.915439	2.927183	2.507487
49	6	0	6.329011	2.180906	2.738626
50	1	0	4.672583	0.945262	2.207189
51	1	0	2.975909	2.725698	1.983691
52	1	0	3.754337	2.796583	3.582155
53	1	0	4.210211	3.966405	2.323303
54	1	0	7.121677	1.555718	2.315241
55	1	0	6.652309	3.226956	2.707642
56	1	0	6.207246	1.911865	3.791603
57	6	0	-5.268639	-1.912413	-2.150977
58	6	0	-6.642434	-1.734781	-2.787437
59	6	0	-4.568958	-3.194636	-2.597671
60	1	0	-4.646650	-1.059154	-2.428088
61	1	0	-7.149009	-0.842587	-2.405872
62	1	0	-6.522057	-1.620504	-3.867995
63	1	0	-7.290468	-2.602297	-2.623069
64	1	0	-3.576186	-3.260256	-2.142418
65	1	0	-5.150654	-4.076575	-2.307446
66	1	0	-4.453302	-3.199948	-3.685587
67	6	0	-4.021081	-1.423394	2.620643
68	6	0	-3.973320	-2.539179	3.658045
69	6	0	-4.692377	-0.152607	3.136318
70	1	0	-3.000493	-1.182483	2.326030
71	1	0	-3.532598	-3.447511	3.236863
72	1	0	-3.356995	-2.218816	4.502535
73	1	0	-4.966569	-2.781864	4.051621
74	1	0	-4.667502	0.627857	2.369630
75	1	0	-5.735884	-0.338971	3.415170
76	1	0	-4.162637	0.219101	4.018745
77	1	0	-3.693679	4.011091	2.447589
78	1	0	-6.151738	3.440743	1.351823
79	7	0	-3.012253	2.672685	0.900538
80	7	0	-4.946462	2.214202	0.045869
81	6	0	-1.579915	2.667857	1.286945
82	6	0	-1.377087	1.775344	2.506514
83	6	0	-1.071034	4.091002	1.485733
84	1	0	-1.051560	2.236869	0.444465
85	1	0	-1.728040	0.761415	2.298335
86	1	0	-0.308827	1.714733	2.733636
87	1	0	-1.899638	2.169888	3.386648

88	1	0	-1.292642	4.712840	0.613655
89	1	0	-1.485318	4.571179	2.379532
90	1	0	0.015187	4.052021	1.605269
91	6	0	-6.020549	1.659084	-0.796815
92	6	0	-6.571677	2.737742	-1.723619
93	6	0	-7.087307	1.006799	0.077415
94	1	0	-5.543940	0.888033	-1.403700
95	1	0	-5.774448	3.151526	-2.347248
96	1	0	-7.335579	2.308159	-2.378488
97	1	0	-7.032684	3.553006	-1.155566
98	1	0	-6.645795	0.269173	0.753353
99	1	0	-7.633759	1.746560	0.672132
100	1	0	-7.817125	0.495614	-0.556821
101	1	0	4.234222	-4.325850	-2.114523
102	1	0	6.022289	-4.420465	-0.026499
103	7	0	3.407814	-2.710953	-0.954326
104	7	0	4.795566	-2.801180	0.703541
105	6	0	5.556981	-2.430520	1.912403
106	6	0	6.645105	-1.426366	1.536152
107	6	0	6.105887	-3.665969	2.616623
108	1	0	4.828852	-1.942026	2.563876
109	1	0	6.214000	-0.554579	1.032668
110	1	0	7.164836	-1.086349	2.437139
111	1	0	7.382565	-1.881578	0.865902
112	1	0	5.318101	-4.401865	2.800932
113	1	0	6.911649	-4.143077	2.048540
114	1	0	6.524780	-3.365573	3.580825
115	6	0	2.335550	-2.293654	-1.883832
116	6	0	1.154731	-3.254103	-1.813432
117	6	0	2.891393	-2.148845	-3.296846
118	1	0	2.037003	-1.305591	-1.543029
119	1	0	0.771775	-3.330044	-0.793725
120	1	0	0.347779	-2.874335	-2.446762
121	1	0	1.434234	-4.252106	-2.171951
122	1	0	3.785025	-1.520252	-3.303065
123	1	0	3.133101	-3.114321	-3.755212
124	1	0	2.131455	-1.669739	-3.920461
125	5	0	-3.030833	-0.757649	-0.277541
126	5	0	3.017748	0.727661	-0.115149

UM06-2X/6-31G*

Center Atomic Atomic Coordinates (Angstroms)

Number	Number	Type	X	Y	Z
1	6	0	0.822996	2.308925	-0.528388
2	6	0	1.507815	1.136722	-0.115212
3	6	0	0.689866	-0.032597	0.120600
4	6	0	-0.704762	-0.017565	-0.099681
5	6	0	-1.314652	1.159400	-0.569274
6	6	0	-0.547680	2.316814	-0.774432
7	1	0	1.379706	3.233681	-0.665672
8	6	0	1.309139	-1.215610	0.575873
9	6	0	-1.544270	-1.179921	0.148235
10	1	0	-1.022812	3.230932	-1.126248
11	6	0	-0.842752	-2.360256	0.548237
12	6	0	0.525327	-2.366285	0.779186
13	1	0	-1.393583	-3.287897	0.681467
14	1	0	0.999960	-3.286772	1.117737
15	15	0	-3.094269	0.882524	-0.860098
16	15	0	3.079427	-0.962618	0.853983
17	6	0	5.867540	3.193773	0.844956
18	6	0	5.400749	3.695675	-0.319392
19	6	0	4.049170	-3.042980	-2.521323
20	6	0	4.918598	-3.569458	-1.624164
21	6	0	-5.386115	-3.764867	0.435274
22	6	0	-5.916296	-3.243766	-0.691007
23	6	0	-4.828077	3.712493	1.439638
24	6	0	-4.022574	3.168576	2.385062
25	6	0	-4.143569	-1.956798	-0.122450
26	6	0	-3.714470	2.013316	0.498652
27	6	0	3.749548	-1.965110	-0.587953
28	6	0	4.121420	1.910752	0.209033
29	1	0	5.743646	4.532927	-0.906250
30	1	0	6.681694	3.525441	1.467553
31	1	0	-6.759144	-3.569505	-1.277332
32	1	0	-5.691144	-4.617907	1.020300
33	7	0	-5.162622	-2.131698	-1.025249
34	7	0	-4.301595	-2.978205	0.781802
35	7	0	4.330364	2.910397	-0.703901
36	7	0	5.090042	2.095208	1.160631
37	6	0	3.769663	2.932965	-2.063689
38	6	0	4.807796	2.378689	-3.038046
39	6	0	3.317284	4.338093	-2.444179
40	1	0	2.905705	2.265623	-2.033135
41	1	0	5.142604	1.389845	-2.709566
42	1	0	4.379793	2.292338	-4.041037

43	1	0	5.680883	3.037296	-3.094710
44	1	0	2.630508	4.751123	-1.701405
45	1	0	4.169040	5.019240	-2.544450
46	1	0	2.806385	4.307067	-3.410105
47	6	0	5.129089	1.383938	2.450779
48	6	0	4.022975	1.904730	3.365195
49	6	0	6.505442	1.496548	3.094689
50	1	0	4.937256	0.333249	2.221359
51	1	0	3.045899	1.799315	2.884579
52	1	0	4.016419	1.340108	4.301774
53	1	0	4.192523	2.961833	3.596264
54	1	0	7.300921	1.203428	2.403251
55	1	0	6.703208	2.511446	3.454103
56	1	0	6.543037	0.833112	3.962120
57	6	0	-5.283654	-1.388706	-2.288671
58	6	0	-6.688677	-1.513516	-2.865891
59	6	0	-4.216466	-1.855173	-3.275644
60	1	0	-5.105355	-0.339088	-2.041253
61	1	0	-7.453757	-1.256083	-2.127487
62	1	0	-6.783955	-0.829135	-3.712526
63	1	0	-6.883618	-2.523060	-3.241541
64	1	0	-3.220341	-1.755108	-2.835227
65	1	0	-4.384515	-2.904748	-3.540016
66	1	0	-4.261233	-1.253876	-4.188238
67	6	0	-3.707997	-2.997945	2.126617
68	6	0	-3.236159	-4.399511	2.496990
69	6	0	-4.726286	-2.453046	3.127457
70	1	0	-2.851531	-2.323174	2.077472
71	1	0	-2.563398	-4.807908	1.739063
72	1	0	-2.704324	-4.365247	3.451581
73	1	0	-4.080438	-5.087135	2.615822
74	1	0	-5.089212	-1.475268	2.796973
75	1	0	-5.584893	-3.126929	3.217521
76	1	0	-4.270629	-2.345587	4.116303
77	1	0	-3.879856	3.432731	3.420777
78	1	0	-5.518178	4.538094	1.497191
79	7	0	-3.350102	2.123853	1.795698
80	7	0	-4.633883	2.985814	0.285535
81	6	0	-2.387968	1.254961	2.510309
82	6	0	-3.011578	0.765145	3.813392
83	6	0	-1.069124	1.983348	2.739497
84	1	0	-2.241844	0.398960	1.850144
85	1	0	-3.999549	0.331492	3.640200
86	1	0	-2.366183	-0.005633	4.243790

87	1	0	-3.102934	1.567798	4.553082
88	1	0	-0.642887	2.341368	1.799823
89	1	0	-1.205572	2.830280	3.422764
90	1	0	-0.356444	1.288622	3.194055
91	6	0	-5.261717	3.302164	-1.016691
92	6	0	-4.395757	4.306675	-1.768425
93	6	0	-6.691509	3.790732	-0.818683
94	1	0	-5.273653	2.358282	-1.565311
95	1	0	-3.400640	3.891465	-1.951445
96	1	0	-4.854528	4.545968	-2.731670
97	1	0	-4.294839	5.233155	-1.193597
98	1	0	-7.267073	3.103892	-0.192397
99	1	0	-6.722439	4.789686	-0.372402
100	1	0	-7.178805	3.857869	-1.794335
101	1	0	3.881035	-3.283642	-3.558936
102	1	0	5.649398	-4.354050	-1.732883
103	7	0	3.343733	-2.055093	-1.874674
104	7	0	4.728054	-2.890954	-0.440719
105	6	0	5.416222	-3.221710	0.827034
106	6	0	6.878482	-3.565230	0.569558
107	6	0	4.662270	-4.341834	1.534942
108	1	0	5.358338	-2.313482	1.429589
109	1	0	7.373790	-2.790441	-0.021686
110	1	0	7.394910	-3.650567	1.528737
111	1	0	6.987343	-4.526267	0.057261
112	1	0	3.635578	-4.033844	1.752346
113	1	0	4.638296	-5.242598	0.912881
114	1	0	5.158858	-4.586882	2.477684
115	6	0	2.304911	-1.227708	-2.529711
116	6	0	1.022363	-2.026747	-2.726953
117	6	0	2.845504	-0.669710	-3.842629
118	1	0	2.128517	-0.400444	-1.843353
119	1	0	0.650885	-2.424350	-1.780059
120	1	0	0.254371	-1.366169	-3.140406
121	1	0	1.182035	-2.850991	-3.432327
122	1	0	3.813787	-0.183898	-3.698739
123	1	0	2.951797	-1.446933	-4.606908
124	1	0	2.138643	0.071507	-4.225736
125	5	0	-3.010543	-0.915173	-0.118472
126	5	0	2.981520	0.871429	0.182150

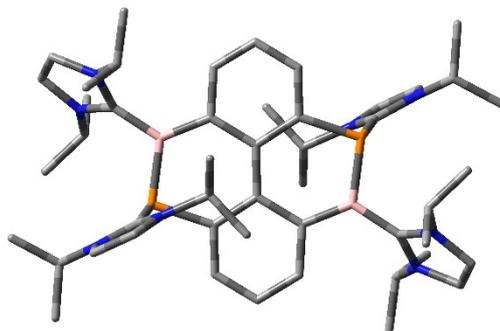
UBP86/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-0.814661	2.356962	0.540998
2	6	0	-1.530985	1.171460	0.177233
3	6	0	-0.708213	-0.007450	-0.075040
4	6	0	0.708201	0.007380	0.075077
5	6	0	1.347735	1.203163	0.510118
6	6	0	0.575964	2.367121	0.730619
7	1	0	-1.360946	3.295746	0.688149
8	6	0	-1.347750	-1.203237	-0.510064
9	6	0	1.530971	-1.171528	-0.177202
10	1	0	1.063812	3.294139	1.060113
11	6	0	0.814643	-2.357033	-0.540942
12	6	0	-0.575985	-2.367199	-0.730550
13	1	0	1.360920	-3.295825	-0.688074
14	1	0	-1.063831	-3.294223	-1.060028
15	15	0	3.125960	0.902392	0.809122
16	15	0	-3.125974	-0.902435	-0.809081
17	6	0	-6.015018	3.172540	-0.755109
18	6	0	-5.530598	3.727815	0.392061
19	6	0	-4.441118	-3.101459	2.401832
20	6	0	-5.257126	-3.560508	1.403558
21	6	0	5.530713	-3.727738	-0.392097
22	6	0	6.015061	-3.172498	0.755123
23	6	0	5.257049	3.560474	-1.403565
24	6	0	4.441033	3.101417	-2.401831
25	6	0	4.186145	-1.944702	0.124619
26	6	0	3.900492	1.974941	-0.515330
27	6	0	-3.900545	-1.974988	0.515338
28	6	0	-4.186129	1.944690	-0.124621
29	1	0	-5.892223	4.574957	0.969249
30	1	0	-6.860418	3.465625	-1.371187
31	1	0	6.860450	-3.465574	1.371218
32	1	0	5.892406	-4.574830	-0.969315
33	7	0	5.208822	-2.080521	1.068208
34	7	0	4.417631	-2.984908	-0.777712
35	7	0	-4.417515	2.984971	0.777651
36	7	0	-5.208828	2.080524	-1.068189
37	6	0	-3.806311	3.096969	2.121752
38	6	0	-4.808852	2.635357	3.195485
39	6	0	-3.302054	4.524825	2.382803
40	1	0	-2.949683	2.403633	2.100706
41	1	0	-5.183672	1.622652	2.968694

42	1	0	-4.323695	2.616963	4.186796
43	1	0	-5.676128	3.316985	3.255999
44	1	0	-2.613687	4.862571	1.590312
45	1	0	-4.136047	5.247455	2.445249
46	1	0	-2.764658	4.558418	3.346007
47	6	0	-5.214600	1.423770	-2.399145
48	6	0	-4.316086	2.201113	-3.376352
49	6	0	-6.645529	1.245085	-2.925161
50	1	0	-4.774153	0.425938	-2.236397
51	1	0	-3.293558	2.283123	-2.970547
52	1	0	-4.265948	1.676446	-4.346495
53	1	0	-4.711451	3.217936	-3.552432
54	1	0	-7.293071	0.745842	-2.183535
55	1	0	-7.112698	2.205787	-3.207075
56	1	0	-6.619236	0.622016	-3.835240
57	6	0	5.214518	-1.423805	2.399185
58	6	0	6.645424	-1.244963	2.925209
59	6	0	4.316094	-2.201285	3.376365
60	1	0	4.773953	-0.426022	2.236459
61	1	0	7.292908	-0.745620	2.183598
62	1	0	6.619055	-0.621922	3.835306
63	1	0	7.112709	-2.205616	3.207096
64	1	0	3.293577	-2.283405	2.970555
65	1	0	4.711579	-3.218067	3.552413
66	1	0	4.265891	-1.676656	4.346526
67	6	0	3.806517	-3.096833	-2.121861
68	6	0	3.302388	-4.524704	-2.383069
69	6	0	4.809091	-2.635032	-3.195482
70	1	0	2.949832	-2.403568	-2.100810
71	1	0	2.614009	-4.862577	-1.590642
72	1	0	2.765041	-4.558247	-3.346302
73	1	0	4.136438	-5.247265	-2.445544
74	1	0	5.183767	-1.622299	-2.968578
75	1	0	5.676448	-3.316557	-3.255974
76	1	0	4.324012	-2.616617	-4.186831
77	1	0	4.382646	3.386070	-3.449016
78	1	0	6.040676	4.313365	-1.421866
79	7	0	3.619515	2.129337	-1.852733
80	7	0	4.916719	2.868217	-0.250038
81	6	0	2.572548	1.393197	-2.616654
82	6	0	3.159846	0.848138	-3.927139
83	6	0	1.351101	2.292867	-2.855121
84	1	0	2.300069	0.544580	-1.966436
85	1	0	4.071162	0.254476	-3.746856

86	1	0	2.411657	0.194441	-4.406294
87	1	0	3.398367	1.652413	-4.646487
88	1	0	0.929041	2.653792	-1.903747
89	1	0	1.611992	3.158757	-3.491780
90	1	0	0.570602	1.711527	-3.374789
91	6	0	5.560764	3.099748	1.072093
92	6	0	5.319302	4.543519	1.537635
93	6	0	7.049025	2.724619	1.012892
94	1	0	5.030774	2.408577	1.751059
95	1	0	4.241118	4.773030	1.573987
96	1	0	5.734365	4.675926	2.551331
97	1	0	5.812207	5.278681	0.876462
98	1	0	7.184172	1.682722	0.676339
99	1	0	7.612640	3.385799	0.330218
100	1	0	7.494749	2.826001	2.017096
101	1	0	-4.382740	-3.386124	3.449016
102	1	0	-6.040747	-4.313406	1.421844
103	7	0	-3.619572	-2.129399	1.852744
104	7	0	-4.916776	-2.868252	0.250037
105	6	0	-5.560815	-3.099740	-1.072104
106	6	0	-7.049035	-2.724445	-1.012941
107	6	0	-5.319510	-4.543549	-1.537610
108	1	0	-5.030732	-2.408640	-1.751070
109	1	0	-7.184071	-1.682519	-0.676433
110	1	0	-7.494760	-2.825819	-2.017146
111	1	0	-7.612727	-3.385534	-0.330242
112	1	0	-4.241353	-4.773196	-1.573914
113	1	0	-5.812535	-5.278640	-0.876448
114	1	0	-5.734547	-4.675922	-2.551320
115	6	0	-2.572604	-1.393280	2.616681
116	6	0	-1.351187	-2.292982	2.855170
117	6	0	-3.159918	-0.848211	3.927153
118	1	0	-2.300102	-0.544663	1.966477
119	1	0	-0.929133	-2.653939	1.903805
120	1	0	-0.570670	-1.711658	3.374830
121	1	0	-1.612105	-3.158854	3.491845
122	1	0	-4.071152	-0.254438	3.746833
123	1	0	-3.398576	-1.652483	4.646459
124	1	0	-2.411678	-0.194616	4.406371
125	5	0	3.025130	-0.929374	0.098316
126	5	0	-3.025137	0.929336	-0.098313

2PB-b



UB3LYP/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.326900	2.828241	2.275157
2	6	0	1.386864	2.414262	1.504069
3	6	0	1.369687	1.255554	0.664066
4	6	0	0.078781	0.558831	0.470270
5	6	0	-1.029985	1.075934	1.249215
6	6	0	-0.876111	2.118228	2.168096
7	6	0	-0.078666	-0.558890	-0.470715
8	6	0	1.030188	-1.076057	-1.249511
9	6	0	0.876268	-2.118227	-2.168566
10	1	0	1.731832	-2.417496	-2.769450
11	6	0	-0.326845	-2.827928	-2.276071
12	6	0	-1.386902	-2.413873	-1.505108
13	6	0	-1.369600	-1.255455	-0.664766
14	1	0	0.410785	3.687721	2.936183
15	1	0	2.305269	2.993522	1.544485
16	1	0	-1.731574	2.417384	2.769185
17	1	0	-0.410782	-3.687244	-2.937303
18	1	0	-2.305418	-2.992925	-1.545872
19	15	0	2.790802	-0.591941	-1.132819
20	15	0	-2.790570	0.591523	1.132826
21	6	0	-5.880495	-2.714956	-1.015639
22	6	0	-5.892878	-2.911980	0.324822
23	1	0	-6.585590	-3.019898	-1.772209
24	1	0	-6.604094	-3.431835	0.946698
25	6	0	-3.949374	3.543291	-1.586963
26	6	0	-4.955437	3.594119	-0.677664
27	1	0	-3.797728	4.109974	-2.491554
28	1	0	-5.841972	4.207141	-0.648008
29	6	0	3.949057	-3.542743	1.588612
30	6	0	4.955369	-3.593840	0.679603

31	1	0	3.797242	-4.109039	2.493418
32	1	0	5.841994	-4.206758	0.650461
33	6	0	5.892936	2.911894	-0.325783
34	6	0	5.880475	2.715223	1.014732
35	1	0	6.604183	3.431598	-0.947751
36	1	0	6.585505	3.020397	1.771269
37	6	0	-4.015972	-1.736397	-0.168095
38	6	0	3.485466	-2.031845	-0.012142
39	6	0	4.015998	1.736441	0.167330
40	6	0	-3.485556	2.031639	0.012988
41	7	0	3.058131	-2.575924	1.159634
42	7	0	4.658724	-2.664730	-0.302458
43	7	0	4.750169	2.319727	-0.838128
44	7	0	4.731562	1.999065	1.312315
45	7	0	-4.658659	2.664525	0.303894
46	7	0	-3.058447	2.576172	-1.158675
47	7	0	-4.750122	-2.319875	0.837263
48	7	0	-4.731626	-1.998680	-1.313099
49	6	0	4.310364	2.465330	-2.242940
50	6	0	5.306087	1.804483	-3.198891
51	6	0	4.058966	3.941824	-2.572684
52	1	0	3.360520	1.926751	-2.284979
53	1	0	5.441669	0.748573	-2.948194
54	1	0	4.928183	1.865310	-4.224646
55	1	0	6.284005	2.300452	-3.175703
56	1	0	3.337144	4.379165	-1.875686
57	1	0	4.981003	4.532902	-2.532140
58	1	0	3.654200	4.027795	-3.586494
59	6	0	4.437756	1.436665	2.647919
60	6	0	4.387505	2.537217	3.711870
61	6	0	5.451868	0.338320	2.993336
62	1	0	3.445590	0.992679	2.545986
63	1	0	3.659686	3.309664	3.449508
64	1	0	4.091362	2.103241	4.672271
65	1	0	5.364832	3.013114	3.853696
66	1	0	5.458605	-0.443883	2.227429
67	1	0	6.466670	0.742179	3.083511
68	1	0	5.191126	-0.121453	3.952606
69	6	0	1.787206	-2.259336	1.862962
70	6	0	2.041726	-2.000821	3.350416
71	6	0	0.765192	-3.374715	1.623812
72	1	0	1.426753	-1.339838	1.407120
73	1	0	2.813187	-1.238960	3.496916
74	1	0	1.116425	-1.637017	3.807108

75	1	0	2.340718	-2.908370	3.887977
76	1	0	0.598837	-3.530496	0.554968
77	1	0	1.091436	-4.318811	2.077575
78	1	0	-0.191118	-3.090057	2.073466
79	6	0	5.507203	-2.443331	-1.501444
80	6	0	5.636151	-3.737566	-2.310206
81	6	0	6.860140	-1.851169	-1.095282
82	1	0	4.954062	-1.709284	-2.091112
83	1	0	4.651138	-4.131827	-2.578457
84	1	0	6.186831	-3.534989	-3.234383
85	1	0	6.183076	-4.513656	-1.762784
86	1	0	6.730151	-0.914402	-0.543580
87	1	0	7.437267	-2.543019	-0.470921
88	1	0	7.452835	-1.641303	-1.991664
89	6	0	-4.310187	-2.465972	2.241992
90	6	0	-4.057953	-3.942506	2.570920
91	6	0	-5.306263	-1.806191	3.198309
92	1	0	-3.360657	-1.926885	2.284323
93	1	0	-3.335823	-4.379014	1.873721
94	1	0	-3.653217	-4.028832	3.584712
95	1	0	-4.979653	-4.534078	2.529943
96	1	0	-5.442608	-0.750266	2.948073
97	1	0	-6.283854	-2.302797	3.175033
98	1	0	-4.928214	-1.867197	4.223999
99	6	0	-4.437924	-1.435982	-2.648602
100	6	0	-5.452206	-0.337712	-2.993760
101	6	0	-4.387573	-2.536315	-3.712779
102	1	0	-3.445803	-0.991903	-2.546605
103	1	0	-5.459013	0.444358	-2.227717
104	1	0	-5.191597	0.122262	-3.952968
105	1	0	-6.466955	-0.741697	-3.083943
106	1	0	-3.659635	-3.308713	-3.450613
107	1	0	-5.364843	-3.012313	-3.854653
108	1	0	-4.091534	-2.102101	-4.673105
109	6	0	-1.787765	2.259803	-1.862582
110	6	0	-0.765660	3.375105	-1.623478
111	6	0	-2.042858	2.001831	-3.350030
112	1	0	-1.427150	1.340149	-1.407182
113	1	0	-0.598958	3.530633	-0.554655
114	1	0	0.190501	3.090525	-2.073495
115	1	0	-1.092021	4.319311	-2.076928
116	1	0	-2.814291	1.239952	-3.496526
117	1	0	-2.342167	2.909560	-3.887110
118	1	0	-1.117695	1.638325	-3.807239

119	6	0	-5.506831	2.442678	1.503012
120	6	0	-6.860029	1.851060	1.096927
121	6	0	-5.635225	3.736507	2.312511
122	1	0	-4.953690	1.708178	2.092118
123	1	0	-6.730426	0.914583	0.544641
124	1	0	-7.452494	1.640815	1.993373
125	1	0	-7.437194	2.543399	0.473145
126	1	0	-4.650036	4.130370	2.580702
127	1	0	-6.182095	4.513031	1.765649
128	1	0	-6.185704	3.533577	3.236730
129	5	0	-2.688827	-0.909813	-0.002256
130	5	0	2.688875	0.909818	0.001625

UWB97XD/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.442751	-2.445727	-2.624055
2	6	0	1.457627	-2.155120	-1.761406
3	6	0	1.397181	-1.136764	-0.749698
4	6	0	0.102203	-0.477022	-0.523048
5	6	0	-0.963193	-0.876962	-1.413391
6	6	0	-0.780911	-1.771848	-2.456852
7	6	0	-0.088927	0.479528	0.571277
8	6	0	0.987872	0.874121	1.448133
9	6	0	0.781773	1.741423	2.527749
10	1	0	1.623801	1.960287	3.179737
11	6	0	-0.437837	2.370711	2.749993
12	6	0	-1.470022	2.074671	1.887214
13	6	0	-1.379218	1.119198	0.844539
14	1	0	0.561254	-3.195201	-3.402030
15	1	0	2.383512	-2.718971	-1.848839
16	1	0	-1.612259	-1.991447	-3.121884
17	1	0	-0.562696	3.084911	3.558725
18	1	0	-2.413046	2.601783	2.015332
19	15	0	2.750927	0.458907	1.292104
20	15	0	-2.716551	-0.412661	-1.290701
21	6	0	-5.955087	2.141828	1.417032
22	6	0	-5.963175	2.698978	0.184435
23	1	0	-6.687826	2.178289	2.207042
24	1	0	-6.700504	3.319653	-0.298663
25	6	0	-3.879041	-3.612387	0.995255

26	6	0	-4.923465	-3.491876	0.142800
27	1	0	-3.705340	-4.316865	1.792098
28	1	0	-5.833168	-4.063762	0.064769
29	6	0	3.839908	3.568328	-1.237443
30	6	0	4.902933	3.507493	-0.402054
31	1	0	3.653364	4.206271	-2.085920
32	1	0	5.818972	4.074883	-0.392460
33	6	0	5.996480	-2.668327	-0.047706
34	6	0	5.940093	-2.221442	-1.321737
35	1	0	6.761573	-3.229995	0.463661
36	1	0	6.650463	-2.312897	-2.127682
37	6	0	-4.030525	1.570835	0.402589
38	6	0	3.414281	1.970612	0.270463
39	6	0	4.026583	-1.597207	-0.299356
40	6	0	-3.431810	-1.902653	-0.369052
41	7	0	2.942354	2.610222	-0.822094
42	7	0	4.623682	2.525538	0.525939
43	7	0	4.818855	-2.289429	0.566833
44	7	0	4.731723	-1.567909	-1.467490
45	7	0	-4.632467	-2.439261	-0.697908
46	7	0	-2.977700	-2.621531	0.681915
47	7	0	-4.776542	2.346144	-0.425584
48	7	0	-4.765330	1.453412	1.539792
49	6	0	4.433824	-2.663608	1.933230
50	6	0	5.307506	-1.940453	2.953305
51	6	0	4.458455	-4.181904	2.094774
52	1	0	3.401966	-2.310645	2.025361
53	1	0	5.211072	-0.857839	2.835448
54	1	0	4.990218	-2.203067	3.966873
55	1	0	6.362308	-2.220549	2.846492
56	1	0	3.837701	-4.662002	1.332679
57	1	0	5.474737	-4.584859	2.021582
58	1	0	4.066657	-4.450759	3.080134
59	6	0	4.357909	-0.763832	-2.638124
60	6	0	4.353332	-1.608531	-3.907290
61	6	0	5.273673	0.454773	-2.738406
62	1	0	3.339916	-0.430432	-2.425384
63	1	0	3.689071	-2.469751	-3.800179
64	1	0	3.995293	-1.004741	-4.746308
65	1	0	5.357300	-1.967401	-4.161287
66	1	0	5.237111	1.039735	-1.814683
67	1	0	6.313240	0.160954	-2.922094
68	1	0	4.955974	1.097224	-3.565597
69	6	0	1.642863	2.348161	-1.469339

70	6	0	1.786337	2.306728	-2.986271
71	6	0	0.603247	3.358237	-0.996155
72	1	0	1.355463	1.354181	-1.140110
73	1	0	2.589777	1.629312	-3.289597
74	1	0	0.851423	1.928670	-3.408937
75	1	0	1.974598	3.295313	-3.420516
76	1	0	0.542835	3.369671	0.095385
77	1	0	0.839553	4.367418	-1.355095
78	1	0	-0.380274	3.068522	-1.378821
79	6	0	5.564531	2.072695	1.569154
80	6	0	6.246857	3.259099	2.241105
81	6	0	6.554162	1.077382	0.967649
82	1	0	4.938424	1.556634	2.300256
83	1	0	5.513283	3.989511	2.593888
84	1	0	6.814650	2.900295	3.104014
85	1	0	6.954566	3.763128	1.573987
86	1	0	6.028347	0.221100	0.534127
87	1	0	7.158066	1.548225	0.183593
88	1	0	7.230252	0.706578	1.744050
89	6	0	-4.344170	2.813171	-1.751909
90	6	0	-4.298538	4.338492	-1.785788
91	6	0	-5.226317	2.211628	-2.840740
92	1	0	-3.327201	2.424782	-1.857903
93	1	0	-3.668785	4.724966	-0.979345
94	1	0	-3.879736	4.669509	-2.740360
95	1	0	-5.297474	4.778222	-1.691411
96	1	0	-5.181991	1.119540	-2.807223
97	1	0	-6.269547	2.530480	-2.733215
98	1	0	-4.874426	2.537664	-3.823633
99	6	0	-4.413610	0.578350	2.668294
100	6	0	-5.344861	-0.631576	2.688623
101	6	0	-4.414648	1.351407	3.982152
102	1	0	-3.394720	0.250221	2.450055
103	1	0	-5.310706	-1.163141	1.733179
104	1	0	-5.041570	-1.324712	3.479007
105	1	0	-6.381330	-0.334453	2.883432
106	1	0	-3.739292	2.209049	3.931716
107	1	0	-5.417528	1.706114	4.244937
108	1	0	-4.072673	0.696435	4.788586
109	6	0	-1.690825	-2.425394	1.384757
110	6	0	-0.660587	-3.437208	0.897312
111	6	0	-1.887183	-2.459837	2.896051
112	1	0	-1.364284	-1.427067	1.111049
113	1	0	-0.581208	-3.416474	-0.192068

114	1	0	0.320352	-3.170137	1.301787
115	1	0	-0.917559	-4.452525	1.223302
116	1	0	-2.676422	-1.772938	3.214448
117	1	0	-2.122521	-3.463470	3.267850
118	1	0	-0.953784	-2.141314	3.367750
119	6	0	-5.549750	-1.917577	-1.730552
120	6	0	-6.545634	-0.953381	-1.090012
121	6	0	-6.225850	-3.056489	-2.485714
122	1	0	-4.906787	-1.364523	-2.419050
123	1	0	-6.025187	-0.128013	-0.594557
124	1	0	-7.203701	-0.532498	-1.856153
125	1	0	-7.168058	-1.466814	-0.348537
126	1	0	-5.490710	-3.772244	-2.863982
127	1	0	-6.954250	-3.590380	-1.866031
128	1	0	-6.769252	-2.641708	-3.339011
129	5	0	-2.660558	0.883633	0.067855
130	5	0	2.664135	-0.898487	0.016277

UM06-2X/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.417877	2.332745	2.792105
2	6	0	1.463088	2.030683	1.941764
3	6	0	1.368460	1.098259	0.882707
4	6	0	0.081386	0.470806	0.586481
5	6	0	-1.006332	0.862584	1.451773
6	6	0	-0.804165	1.722700	2.541669
7	6	0	-0.096220	-0.485635	-0.518373
8	6	0	0.976871	-0.891414	-1.394110
9	6	0	0.806714	-1.795446	-2.433768
10	1	0	1.644994	-2.019979	-3.088079
11	6	0	-0.421647	-2.459615	-2.615290
12	6	0	-1.449062	-2.153652	-1.771475
13	6	0	-1.391359	-1.136659	-0.755690
14	1	0	0.538970	3.034729	3.611561
15	1	0	2.414211	2.539039	2.092926
16	1	0	-1.654122	1.944170	3.182284
17	1	0	-0.535840	-3.210074	-3.392791
18	1	0	-2.382845	-2.703546	-1.875462
19	15	0	2.729746	-0.398344	-1.282900
20	15	0	-2.773919	0.440211	1.295428

21	6	0	-5.941472	-2.249873	-1.309025
22	6	0	-6.000688	-2.670720	-0.024071
23	1	0	-6.651449	-2.354298	-2.114419
24	1	0	-6.768266	-3.218574	0.499616
25	6	0	-3.836867	3.585651	-1.259774
26	6	0	-4.905602	3.540665	-0.425940
27	1	0	-3.641326	4.211862	-2.115833
28	1	0	-5.817664	4.115312	-0.423816
29	6	0	3.885559	-3.627256	0.980776
30	6	0	4.925004	-3.518519	0.116030
31	1	0	3.707948	-4.330749	1.778581
32	1	0	5.825182	-4.103900	0.023957
33	6	0	5.949361	2.718022	0.150752
34	6	0	5.958115	2.176412	1.392524
35	1	0	6.678519	3.334703	-0.350786
36	1	0	6.700195	2.224587	2.173848
37	6	0	-4.022658	-1.614915	-0.297752
38	6	0	3.447884	-1.907229	-0.376684
39	6	0	4.020052	1.590257	0.410082
40	6	0	-3.426687	2.000377	0.271573
41	7	0	2.996052	-2.623766	0.676233
42	7	0	4.638301	-2.459627	-0.718427
43	7	0	4.754387	2.356956	-0.437975
44	7	0	4.769141	1.491728	1.539656
45	7	0	-4.633701	2.567007	0.513736
46	7	0	-2.949182	2.626481	-0.825581
47	7	0	-4.819955	-2.286973	0.581713
48	7	0	-4.727695	-1.609435	-1.466603
49	6	0	4.317262	2.806581	-1.771734
50	6	0	5.183587	2.170389	-2.852664
51	6	0	4.313683	4.330995	-1.833197
52	1	0	3.291454	2.438190	-1.863337
53	1	0	5.101555	1.080478	-2.815630
54	1	0	4.850112	2.506609	-3.838031
55	1	0	6.235053	2.456354	-2.735094
56	1	0	3.707006	4.750862	-1.026623
57	1	0	5.327102	4.739001	-1.759711
58	1	0	3.894325	4.655326	-2.789001
59	6	0	4.443139	0.615821	2.678581
60	6	0	4.556334	1.375266	3.994165
61	6	0	5.333016	-0.623549	2.627268
62	1	0	3.400830	0.327604	2.517862
63	1	0	3.922644	2.265710	3.987117
64	1	0	4.231384	0.729368	4.814009

65	1	0	5.588810	1.677530	4.199045
66	1	0	5.199260	-1.153219	1.677846
67	1	0	6.389661	-0.352159	2.728607
68	1	0	5.080378	-1.305673	3.444314
69	6	0	1.718882	-2.400047	1.391994
70	6	0	1.931420	-2.473173	2.899012
71	6	0	0.655612	-3.373528	0.899163
72	1	0	1.428960	-1.385014	1.135392
73	1	0	2.746372	-1.818103	3.221401
74	1	0	1.013205	-2.139322	3.389102
75	1	0	2.140671	-3.492247	3.241529
76	1	0	0.571663	-3.341066	-0.190065
77	1	0	0.888822	-4.397022	1.216383
78	1	0	-0.314672	-3.082331	1.314620
79	6	0	5.559483	-1.929382	-1.746062
80	6	0	6.338375	-3.057243	-2.410939
81	6	0	6.471207	-0.883770	-1.108777
82	1	0	4.912663	-1.449228	-2.484505
83	1	0	5.670673	-3.843830	-2.771731
84	1	0	6.884270	-2.651836	-3.266202
85	1	0	7.076817	-3.498333	-1.733928
86	1	0	5.882168	-0.071898	-0.667342
87	1	0	7.084032	-1.337580	-0.321853
88	1	0	7.138775	-0.456356	-1.862824
89	6	0	-4.448249	-2.634343	1.960956
90	6	0	-4.518184	-4.146318	2.157923
91	6	0	-5.318348	-1.872604	2.954776
92	1	0	-3.409260	-2.301404	2.050733
93	1	0	-3.910626	-4.663451	1.410559
94	1	0	-4.140893	-4.402554	3.151495
95	1	0	-5.546894	-4.515535	2.089011
96	1	0	-5.188583	-0.794722	2.825356
97	1	0	-6.377229	-2.126847	2.826756
98	1	0	-5.029374	-2.133209	3.976820
99	6	0	-4.355883	-0.817499	-2.648485
100	6	0	-5.226971	0.435533	-2.707151
101	6	0	-4.439347	-1.660057	-3.915005
102	1	0	-3.317396	-0.526747	-2.472104
103	1	0	-5.107063	1.024041	-1.790868
104	1	0	-4.941202	1.058175	-3.560500
105	1	0	-6.285526	0.175068	-2.818130
106	1	0	-3.815864	-2.553811	-3.829762
107	1	0	-5.468561	-1.967841	-4.129490
108	1	0	-4.084914	-1.073833	-4.767103

109	6	0	-1.649351	2.327296	-1.457169
110	6	0	-0.581524	3.292588	-0.955660
111	6	0	-1.774508	2.323030	-2.975363
112	1	0	-1.414318	1.315462	-1.137047
113	1	0	-0.537693	3.291741	0.137456
114	1	0	0.396995	2.972734	-1.329670
115	1	0	-0.781250	4.311147	-1.309317
116	1	0	-2.601173	1.684606	-3.301374
117	1	0	-1.919864	3.328410	-3.385565
118	1	0	-0.849248	1.919894	-3.395714
119	6	0	-5.588397	2.109148	1.544182
120	6	0	-6.486742	1.028047	0.948269
121	6	0	-6.379890	3.281364	2.110437
122	1	0	-4.966614	1.672922	2.329531
123	1	0	-5.887911	0.186852	0.580987
124	1	0	-7.180972	0.653673	1.706664
125	1	0	-7.071046	1.431497	0.113417
126	1	0	-5.717597	4.084891	2.443083
127	1	0	-7.089580	3.684870	1.381063
128	1	0	-6.959613	2.935612	2.969809
129	5	0	-2.663046	-0.900395	0.007341
130	5	0	2.654771	0.878801	0.096449

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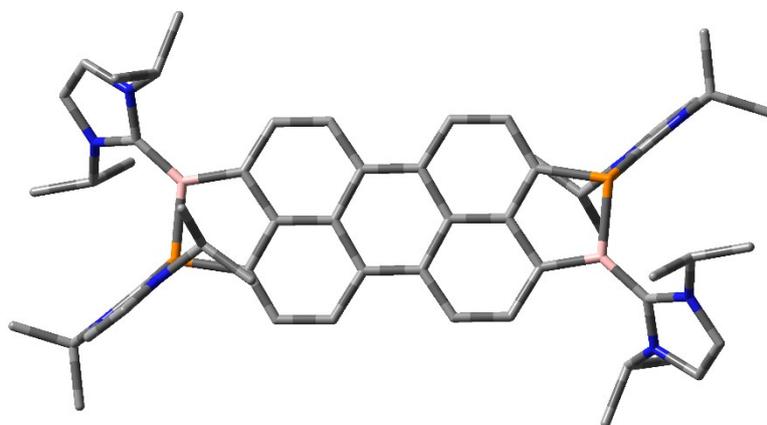
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	0.307474	-2.975327	-2.114368
2	6	0	1.379852	-2.514256	-1.370124
3	6	0	1.369123	-1.298156	-0.604300
4	6	0	0.075809	-0.587419	-0.442234
5	6	0	-1.041022	-1.145830	-1.187339
6	6	0	-0.896283	-2.248404	-2.050310
7	6	0	-0.075821	0.587377	0.442317
8	6	0	1.041014	1.145801	1.187405
9	6	0	0.896281	2.248393	2.050354
10	1	0	1.764745	2.576285	2.634963
11	6	0	-0.307472	2.975324	2.114398
12	6	0	-1.379852	2.514242	1.370164
13	6	0	-1.369132	1.298123	0.604370
14	1	0	0.385300	-3.883629	-2.723854
15	1	0	2.305575	-3.102192	-1.372102

16	1	0	-1.764742	-2.576284	-2.634933
17	1	0	-0.385292	3.883641	2.723861
18	1	0	-2.305571	3.102186	1.372124
19	15	0	2.809530	0.650654	1.090473
20	15	0	-2.809535	-0.650673	-1.090422
21	6	0	-5.890509	2.803904	0.901547
22	6	0	-5.929372	2.888947	-0.461726
23	1	0	-6.586277	3.173817	1.650438
24	1	0	-6.657581	3.360385	-1.117093
25	6	0	-3.971282	-3.417389	1.811139
26	6	0	-4.966280	-3.552949	0.880934
27	1	0	-3.830814	-3.912798	2.768486
28	1	0	-5.853945	-4.180633	0.881934
29	6	0	3.971228	3.417346	-1.811128
30	6	0	4.966267	3.552880	-0.880963
31	1	0	3.830737	3.912757	-2.768471
32	1	0	5.853951	4.180538	-0.882000
33	6	0	5.929445	-2.888882	0.461609
34	6	0	5.890527	-2.803798	-0.901659
35	1	0	6.657695	-3.360317	1.116934
36	1	0	6.586279	-3.173665	-1.650589
37	6	0	-4.029197	1.747852	0.096153
38	6	0	3.488386	2.020963	-0.094074
39	6	0	4.029211	-1.747833	-0.096161
40	6	0	-3.488411	-2.020989	0.094106
41	7	0	3.079050	2.472480	-1.324142
42	7	0	4.658125	2.696557	0.168249
43	7	0	4.791621	-2.253782	0.946406
44	7	0	4.730944	-2.111867	-1.236455
45	7	0	-4.658119	-2.696617	-0.168265
46	7	0	-3.079112	-2.472496	1.324191
47	7	0	-4.791549	2.253795	-0.946459
48	7	0	-4.730962	2.111944	1.236409
49	6	0	4.366086	-2.292939	2.366993
50	6	0	5.354804	-1.527395	3.256399
51	6	0	4.154267	-3.747067	2.821587
52	1	0	3.393929	-1.768287	2.366388
53	1	0	5.453694	-0.482688	2.918255
54	1	0	4.988882	-1.517985	4.297493
55	1	0	6.355110	-1.998432	3.257257
56	1	0	3.439363	-4.266477	2.161319
57	1	0	5.100040	-4.318099	2.830328
58	1	0	3.749463	-3.757682	3.848280
59	6	0	4.412999	-1.648983	-2.609116

60	6	0	4.349001	-2.829970	-3.588823
61	6	0	5.422635	-0.574994	-3.050496
62	1	0	3.410929	-1.196665	-2.517373
63	1	0	3.623537	-3.589317	-3.254369
64	1	0	4.032771	-2.468072	-4.582028
65	1	0	5.334014	-3.315726	-3.712302
66	1	0	5.436028	0.269648	-2.340784
67	1	0	6.445287	-0.986862	-3.122095
68	1	0	5.148197	-0.187916	-4.047351
69	6	0	1.810666	2.093797	-2.009170
70	6	0	2.064061	1.791928	-3.492655
71	6	0	0.757079	3.191088	-1.797901
72	1	0	1.481557	1.170087	-1.510288
73	1	0	2.868107	1.048175	-3.622164
74	1	0	1.141315	1.376425	-3.930665
75	1	0	2.324815	2.698060	-4.069448
76	1	0	0.597807	3.383873	-0.724680
77	1	0	1.054583	4.132688	-2.296025
78	1	0	-0.203835	2.859356	-2.225875
79	6	0	5.472579	2.588156	1.410660
80	6	0	5.503350	3.936724	2.145247
81	6	0	6.871547	2.043129	1.087559
82	1	0	4.921453	1.852354	2.022715
83	1	0	4.482111	4.294160	2.359397
84	1	0	6.036476	3.820151	3.104301
85	1	0	6.030645	4.713444	1.562603
86	1	0	6.810195	1.066313	0.578461
87	1	0	7.445391	2.736043	0.445968
88	1	0	7.440681	1.910052	2.023581
89	6	0	-4.365957	2.292892	-2.367030
90	6	0	-4.154069	3.746998	-2.821663
91	6	0	-5.354663	1.527352	-3.256452
92	1	0	-3.393817	1.768208	-2.366368
93	1	0	-3.439176	4.266406	-2.161381
94	1	0	-3.749221	3.757566	-3.848339
95	1	0	-5.099823	4.318061	-2.830464
96	1	0	-5.453601	0.482658	-2.918278
97	1	0	-6.354955	1.998422	-3.257364
98	1	0	-4.988701	1.517897	-4.297530
99	6	0	-4.413084	1.649098	2.609098
100	6	0	-5.422780	0.575166	3.050481
101	6	0	-4.349077	2.830118	3.588764
102	1	0	-3.411029	1.196738	2.517408
103	1	0	-5.436181	-0.269503	2.340801

104	1	0	-5.148394	0.188114	4.047360
105	1	0	-6.445418	0.987078	3.122027
106	1	0	-3.623571	3.589424	3.254309
107	1	0	-5.334075	3.315917	3.712190
108	1	0	-4.032897	2.468245	4.581994
109	6	0	-1.810767	-2.093779	2.009273
110	6	0	-0.757136	-3.191035	1.798037
111	6	0	-2.064231	-1.791932	3.492751
112	1	0	-1.481665	-1.170055	1.510412
113	1	0	-0.597814	-3.383804	0.724821
114	1	0	0.203749	-2.859277	2.226054
115	1	0	-1.054631	-4.132649	2.296139
116	1	0	-2.868304	-1.048203	3.622234
117	1	0	-2.324983	-2.698077	4.069523
118	1	0	-1.141514	-1.376406	3.930802
119	6	0	-5.472528	-2.588234	-1.410707
120	6	0	-6.871518	-2.043230	-1.087661
121	6	0	-5.503248	-3.936804	-2.145292
122	1	0	-4.921391	-1.852424	-2.022743
123	1	0	-6.810202	-1.066410	-0.578565
124	1	0	-7.440620	-1.910168	-2.023705
125	1	0	-7.445372	-2.736151	-0.446087
126	1	0	-4.481995	-4.294225	-2.359400
127	1	0	-6.030554	-4.713531	-1.562667
128	1	0	-6.036338	-3.820242	-3.104367
129	5	0	-2.704726	0.913836	-0.028004
130	5	0	2.704719	-0.913862	0.028065

2PB-c



UB3LYP/6-31G*

Center Atomic Atomic Coordinates (Angstroms)

Number	Number	Type	X	Y	Z
1	6	0	1.572962	-2.358752	0.413614
2	6	0	0.760754	-1.206417	0.236403
3	6	0	1.411762	0.010704	-0.142008
4	6	0	2.833910	0.023645	-0.272470
5	6	0	3.662279	-1.144424	-0.012412
6	6	0	2.947818	-2.335948	0.291186
7	6	0	0.674473	1.219109	-0.397147
8	6	0	3.500413	1.198180	-0.691123
9	1	0	3.490299	-3.270191	0.412166
10	6	0	2.770729	2.355902	-0.979925
11	6	0	1.390982	2.366682	-0.816801
12	1	0	3.273762	3.250396	-1.342267
13	6	0	-2.770750	-2.355920	0.980052
14	6	0	-3.500434	-1.198195	0.691260
15	6	0	-2.833928	-0.023656	0.272621
16	6	0	-1.411779	-0.010714	0.142166
17	6	0	-0.674488	-1.219121	0.397300
18	6	0	-1.391002	-2.366699	0.816939
19	1	0	-3.273787	-3.250419	1.342376
20	6	0	-3.662293	1.144411	0.012562
21	6	0	-0.760773	1.206406	-0.236247
22	6	0	-1.572978	2.358738	-0.413470
23	6	0	-2.947837	2.335929	-0.291050
24	1	0	-3.490316	3.270171	-0.412044
25	1	0	-1.100255	3.307724	-0.646594
26	1	0	0.853561	3.278453	-1.053305
27	1	0	-0.853583	-3.278474	1.053432
28	1	0	1.100236	-3.307738	0.646734
29	15	0	5.284801	0.905650	-0.931654
30	15	0	-5.284820	-0.905685	0.931759
31	6	0	-7.603066	3.714963	-0.377010
32	6	0	-8.082115	3.229982	0.790991
33	1	0	-7.953439	4.531242	-0.987912
34	1	0	-8.910914	3.563893	1.393857
35	6	0	-7.358211	-3.527506	-1.356542
36	6	0	-6.475040	-3.121846	-2.303933
37	1	0	-8.157892	-4.248519	-1.407845
38	1	0	-6.364139	-3.429446	-3.331006
39	6	0	7.358268	3.527567	1.356479
40	6	0	6.475237	3.121832	2.303967
41	1	0	8.157907	4.248631	1.407698
42	1	0	6.364442	3.429404	3.331060

43	6	0	8.081847	-3.230169	-0.791420
44	6	0	7.603028	-3.715106	0.376695
45	1	0	8.910490	-3.564136	-1.394473
46	1	0	7.953479	-4.531403	0.987527
47	6	0	6.012994	1.983376	0.424999
48	6	0	6.285142	-1.960825	-0.219300
49	6	0	-6.012959	-1.983377	-0.424934
50	6	0	-6.285215	1.960739	0.219241
51	7	0	5.658213	2.169935	1.726984
52	7	0	7.065351	2.824942	0.203117
53	7	0	6.505612	-2.942911	0.728251
54	7	0	7.284705	-2.154893	-1.156210
55	7	0	-6.505524	2.942843	-0.728335
56	7	0	-7.285001	2.154735	1.155941
57	7	0	-5.658030	-2.169986	-1.726869
58	7	0	-7.065389	-2.824880	-0.203157
59	6	0	4.549687	1.491422	2.453789
60	6	0	3.382049	2.458432	2.668415
61	6	0	5.066251	0.900322	3.768942
62	1	0	4.241343	0.676003	1.800508
63	1	0	3.014021	2.851721	1.718214
64	1	0	2.558493	1.925088	3.153369
65	1	0	3.671344	3.294425	3.317029
66	1	0	5.933936	0.255586	3.603959
67	1	0	5.338989	1.675146	4.494627
68	1	0	4.271982	0.297426	4.219902
69	6	0	7.795966	3.014924	-1.076890
70	6	0	9.266175	2.618276	-0.913687
71	6	0	7.612031	4.447627	-1.586128
72	1	0	7.310027	2.328335	-1.773188
73	1	0	9.359934	1.591349	-0.546041
74	1	0	9.771273	2.684471	-1.882557
75	1	0	9.794377	3.281611	-0.219282
76	1	0	6.550927	4.690288	-1.698740
77	1	0	8.067677	5.183507	-0.913945
78	1	0	8.091637	4.549811	-2.564756
79	6	0	7.309173	-1.565656	-2.513148
80	6	0	6.661500	-2.524204	-3.520465
81	6	0	8.731608	-1.160419	-2.909941
82	1	0	6.698963	-0.665104	-2.449114
83	1	0	5.639577	-2.767602	-3.214130
84	1	0	6.621292	-2.056297	-4.509871
85	1	0	7.231620	-3.456335	-3.607915
86	1	0	9.181294	-0.500722	-2.160355

87	1	0	9.389274	-2.027046	-3.042859
88	1	0	8.703230	-0.626870	-3.865457
89	6	0	5.871101	-3.009559	2.060567
90	6	0	6.856978	-2.531557	3.135845
91	6	0	5.344025	-4.418199	2.352626
92	1	0	5.030466	-2.315928	2.008319
93	1	0	7.245078	-1.537244	2.892585
94	1	0	6.357023	-2.481471	4.108866
95	1	0	7.708176	-3.215149	3.231460
96	1	0	4.665149	-4.762244	1.567583
97	1	0	6.158968	-5.145613	2.445625
98	1	0	4.797105	-4.415385	3.300998
99	6	0	-4.549397	-1.491515	-2.453550
100	6	0	-5.065799	-0.900372	-3.768750
101	6	0	-3.381779	-2.458574	-2.668071
102	1	0	-4.241085	-0.676121	-1.800221
103	1	0	-5.933500	-0.255631	-3.603857
104	1	0	-4.271473	-0.297468	-4.219599
105	1	0	-5.338454	-1.675175	-4.494487
106	1	0	-3.013840	-2.851867	-1.717838
107	1	0	-3.671062	-3.294564	-3.316696
108	1	0	-2.558168	-1.925271	-3.152976
109	6	0	-7.796200	-3.014756	1.076753
110	6	0	-7.612682	-4.447529	1.585942
111	6	0	-9.266292	-2.617738	0.913391
112	1	0	-7.310175	-2.328321	1.773144
113	1	0	-6.551652	-4.690483	1.698619
114	1	0	-8.092383	-4.549618	2.564533
115	1	0	-8.068485	-5.183264	0.913706
116	1	0	-9.359753	-1.590753	0.545833
117	1	0	-9.794551	-3.280879	0.218842
118	1	0	-9.771543	-2.683908	1.882184
119	6	0	-7.309629	1.565581	2.512915
120	6	0	-8.732194	1.160910	2.909817
121	6	0	-6.661539	2.523941	3.520145
122	1	0	-6.699776	0.664785	2.448919
123	1	0	-9.182227	0.501426	2.160251
124	1	0	-8.703930	0.627306	3.865305
125	1	0	-9.389497	2.027793	3.042858
126	1	0	-5.639532	2.766911	3.213752
127	1	0	-7.231295	3.456301	3.607532
128	1	0	-6.621481	2.056094	4.509585
129	6	0	-5.870733	3.009543	-2.060513
130	6	0	-5.343678	4.418219	-2.352447

131	6	0	-6.856336	2.531484	-3.136017
132	1	0	-5.030065	2.315966	-2.008092
133	1	0	-4.664994	4.762299	-1.567254
134	1	0	-4.796554	4.415448	-3.300702
135	1	0	-6.158646	5.145584	-2.445613
136	1	0	-7.244429	1.537144	-2.892849
137	1	0	-7.707555	3.215023	-3.231827
138	1	0	-6.356154	2.481429	-4.108924
139	5	0	5.146555	-0.917446	-0.230777
140	5	0	-5.146578	0.917438	0.230912

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Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	1.656474	-2.219252	0.717126
2	6	0	0.804391	-1.135159	0.384442
3	6	0	1.393564	0.016308	-0.216744
4	6	0	2.801237	0.040933	-0.417964
5	6	0	3.670547	-1.038892	0.001784
6	6	0	3.019908	-2.179408	0.533848
7	6	0	0.617681	1.153668	-0.614770
8	6	0	3.417701	1.160431	-1.012541
9	1	0	3.606435	-3.058573	0.791739
10	6	0	2.648737	2.241910	-1.438575
11	6	0	1.279788	2.239058	-1.230691
12	1	0	3.116777	3.090179	-1.932759
13	6	0	-2.648857	-2.242435	1.438039
14	6	0	-3.417777	-1.160816	1.012272
15	6	0	-2.801254	-0.041189	0.418001
16	6	0	-1.393577	-0.016575	0.216805
17	6	0	-0.617709	-1.153992	0.614713
18	6	0	-1.279893	-2.239553	1.230256
19	1	0	-3.116952	-3.090861	1.931903
20	6	0	-3.670500	1.038809	-0.001421
21	6	0	-0.804381	1.134960	-0.384225
22	6	0	-1.656380	2.219240	-0.716494
23	6	0	-3.019809	2.179455	-0.533125
24	1	0	-3.606278	3.058767	-0.790643
25	1	0	-1.226630	3.125577	-1.130122
26	1	0	0.709053	3.095156	-1.571763
27	1	0	-0.709229	-3.095814	1.571032

28	1	0	1.226797	-3.125457	1.131119
29	15	0	5.206094	0.930043	-1.200792
30	15	0	-5.206159	-0.930438	1.200555
31	6	0	-7.685911	3.292345	-0.818520
32	6	0	-8.154582	3.011668	0.415067
33	1	0	-8.062374	3.967857	-1.569506
34	1	0	-9.003999	3.413620	0.941166
35	6	0	-7.389382	-3.306484	-1.196590
36	6	0	-6.329122	-3.154266	-2.021955
37	1	0	-8.304306	-3.860110	-1.326351
38	1	0	-6.143428	-3.559315	-3.003149
39	6	0	7.389445	3.306742	1.195579
40	6	0	6.329142	3.154907	2.020959
41	1	0	8.304437	3.860291	1.325198
42	1	0	6.143454	3.560298	3.002012
43	6	0	8.154556	-3.011856	-0.414200
44	6	0	7.685952	-3.292107	0.819511
45	1	0	9.003918	-3.414024	-0.940221
46	1	0	8.062433	-3.967388	1.570696
47	6	0	5.897955	1.994757	0.163332
48	6	0	6.316353	-1.745153	-0.085412
49	6	0	-5.897996	-1.994683	-0.163961
50	6	0	-6.316319	1.745121	0.085966
51	7	0	5.423446	2.337353	1.382996
52	7	0	7.107220	2.597030	0.048601
53	7	0	6.559048	-2.516838	1.017754
54	7	0	7.321941	-2.054260	-0.965185
55	7	0	-6.558990	2.517151	-1.016968
56	7	0	-7.321970	2.053916	0.965787
57	7	0	-5.423504	-2.336800	-1.383768
58	7	0	-7.107162	-2.597179	-0.049359
59	6	0	4.147008	1.907524	1.997585
60	6	0	3.140540	3.051720	1.985122
61	6	0	4.394440	1.347978	3.394074
62	1	0	3.784883	1.098218	1.372309
63	1	0	2.980613	3.416489	0.968298
64	1	0	2.180492	2.689012	2.362640
65	1	0	3.471205	3.881134	2.621475
66	1	0	5.165663	0.574304	3.372474
67	1	0	4.688423	2.121553	4.112252
68	1	0	3.466472	0.896746	3.755713
69	6	0	8.046722	2.424029	-1.075842
70	6	0	9.024883	1.296533	-0.752903
71	6	0	8.743239	3.737811	-1.413280

72	1	0	7.421327	2.127764	-1.921353
73	1	0	8.490888	0.367221	-0.529069
74	1	0	9.684573	1.122380	-1.608413
75	1	0	9.647640	1.553646	0.111075
76	1	0	8.018895	4.543174	-1.563266
77	1	0	9.454929	4.040528	-0.637790
78	1	0	9.309151	3.610250	-2.340043
79	6	0	7.328969	-1.650061	-2.382513
80	6	0	6.285226	-2.449883	-3.160074
81	6	0	8.723696	-1.777354	-2.985187
82	1	0	7.044869	-0.595274	-2.394500
83	1	0	5.292697	-2.315545	-2.720205
84	1	0	6.253266	-2.110260	-4.199689
85	1	0	6.535300	-3.516535	-3.150351
86	1	0	9.479463	-1.280323	-2.368771
87	1	0	9.015827	-2.823568	-3.125713
88	1	0	8.724720	-1.306852	-3.972117
89	6	0	5.935993	-2.314181	2.333096
90	6	0	6.888527	-1.517813	3.225377
91	6	0	5.524092	-3.643561	2.956626
92	1	0	5.041732	-1.718842	2.140267
93	1	0	7.156719	-0.569704	2.746946
94	1	0	6.413895	-1.303108	4.187923
95	1	0	7.809601	-2.077470	3.421745
96	1	0	4.888393	-4.217890	2.277687
97	1	0	6.393243	-4.256601	3.220370
98	1	0	4.962375	-3.455671	3.875978
99	6	0	-4.147158	-1.906569	-1.998276
100	6	0	-4.394702	-1.346880	-3.394691
101	6	0	-3.140400	-3.050510	-1.986015
102	1	0	-3.785258	-1.097252	-1.372873
103	1	0	-5.166154	-0.573437	-3.373031
104	1	0	-3.466847	-0.895324	-3.756216
105	1	0	-4.688410	-2.120439	-4.112999
106	1	0	-2.980344	-3.415407	-0.969259
107	1	0	-3.470879	-3.879897	-2.622499
108	1	0	-2.180455	-2.687498	-2.363504
109	6	0	-8.046632	-2.424667	1.075189
110	6	0	-8.743060	-3.738620	1.412149
111	6	0	-9.024879	-1.297112	0.752725
112	1	0	-7.421226	-2.128692	1.920793
113	1	0	-8.018668	-4.544004	1.561787
114	1	0	-9.308935	-3.611453	2.338989
115	1	0	-9.454773	-4.041068	0.636573

116	1	0	-8.490966	-0.367665	0.529263
117	1	0	-9.647633	-1.553923	-0.111344
118	1	0	-9.684567	-1.123362	1.608320
119	6	0	-7.329019	1.649345	2.383009
120	6	0	-8.723790	1.776343	2.985643
121	6	0	-6.285387	2.449067	3.160823
122	1	0	-7.044821	0.594583	2.394732
123	1	0	-9.479475	1.279411	2.369046
124	1	0	-8.724823	1.305564	3.972442
125	1	0	-9.016029	2.822489	3.126447
126	1	0	-5.292824	2.314926	2.720970
127	1	0	-6.535558	3.515699	3.151353
128	1	0	-6.253450	2.109189	4.200355
129	6	0	-5.935892	2.314925	-2.332352
130	6	0	-5.523912	3.644506	-2.955401
131	6	0	-6.888425	1.518911	-3.224949
132	1	0	-5.041665	1.719479	-2.139697
133	1	0	-4.888204	4.218564	-2.276241
134	1	0	-4.962180	3.456917	-3.874806
135	1	0	-6.393028	4.257681	-3.218948
136	1	0	-7.156693	0.570654	-2.746852
137	1	0	-7.809460	2.078683	-3.421174
138	1	0	-6.413754	1.304511	-4.187544
139	5	0	5.131633	-0.784988	-0.290649
140	5	0	-5.131607	0.784902	0.290958

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Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	1.562362	-2.383503	0.252638
2	6	0	0.756410	-1.219181	0.156625
3	6	0	1.400042	0.009178	-0.177285
4	6	0	2.813955	0.021395	-0.340715
5	6	0	3.641026	-1.153982	-0.139517
6	6	0	2.931197	-2.359067	0.109111
7	6	0	0.670899	1.231200	-0.354184
8	6	0	3.477580	1.205547	-0.709680
9	1	0	3.478271	-3.297537	0.168415
10	6	0	2.755591	2.378725	-0.928825
11	6	0	1.382346	2.390745	-0.736767
12	1	0	3.260909	3.287147	-1.250653

13	6	0	-2.755401	-2.378571	0.929210
14	6	0	-3.477433	-1.205461	0.709849
15	6	0	-2.813833	-0.021329	0.340757
16	6	0	-1.399921	-0.009099	0.177332
17	6	0	-0.670751	-1.231102	0.354312
18	6	0	-1.382161	-2.390599	0.737132
19	1	0	-3.260691	-3.286938	1.251238
20	6	0	-3.640911	1.154021	0.139473
21	6	0	-0.756299	1.219257	-0.156637
22	6	0	-1.562270	2.383534	-0.252840
23	6	0	-2.931118	2.359067	-0.109324
24	1	0	-3.478210	3.297514	-0.168790
25	1	0	-1.086824	3.340986	-0.438810
26	1	0	0.845385	3.314859	-0.917302
27	1	0	-0.845155	-3.314643	0.917892
28	1	0	1.086865	-3.340967	0.438426
29	15	0	5.266308	0.936439	-0.931984
30	15	0	-5.266159	-0.936411	0.932119
31	6	0	-7.423534	3.813238	-0.231801
32	6	0	-7.997069	3.266444	0.862499
33	1	0	-7.694974	4.689605	-0.798532
34	1	0	-8.851027	3.588925	1.434348
35	6	0	-6.963067	-3.559824	-1.618479
36	6	0	-6.087625	-2.994851	-2.486405
37	1	0	-7.673956	-4.357392	-1.759217
38	1	0	-5.892467	-3.209423	-3.525029
39	6	0	6.962859	3.560186	1.618490
40	6	0	6.087452	2.995158	2.486416
41	1	0	7.673615	4.357878	1.759195
42	1	0	5.892204	3.209790	3.525010
43	6	0	7.996673	-3.266976	-0.862759
44	6	0	7.422984	-3.813767	0.231457
45	1	0	8.850564	-3.589579	-1.434638
46	1	0	7.694223	-4.690253	0.798099
47	6	0	5.851547	1.954615	0.525831
48	6	0	6.235812	-1.969145	-0.303900
49	6	0	-5.851475	-1.954488	-0.525753
50	6	0	-6.235890	1.968985	0.303782
51	7	0	5.417760	2.006814	1.804490
52	7	0	6.811931	2.904151	0.417297
53	7	0	6.344941	-3.018313	0.569263
54	7	0	7.273975	-2.132397	-1.181415
55	7	0	-6.345345	3.017970	-0.569548
56	7	0	-7.274062	2.132122	1.181316

57	7	0	-5.417773	-2.006640	-1.804443
58	7	0	-6.811970	-2.903918	-0.417236
59	6	0	4.379488	1.145557	2.416970
60	6	0	3.085126	1.924968	2.613750
61	6	0	4.906319	0.558052	3.722231
62	1	0	4.228426	0.335850	1.702904
63	1	0	2.729568	2.349921	1.672728
64	1	0	2.315139	1.246575	2.991683
65	1	0	3.222418	2.729343	3.346111
66	1	0	5.881771	0.086458	3.579568
67	1	0	4.992416	1.315761	4.508324
68	1	0	4.202174	-0.200689	4.074649
69	6	0	7.519412	3.274495	-0.829359
70	6	0	8.959189	3.674376	-0.530211
71	6	0	6.740647	4.370086	-1.548462
72	1	0	7.514619	2.370310	-1.440979
73	1	0	9.469435	2.916811	0.070610
74	1	0	9.496955	3.785083	-1.474911
75	1	0	9.015523	4.636526	-0.011570
76	1	0	5.735558	4.022025	-1.802736
77	1	0	6.658980	5.261319	-0.917693
78	1	0	7.255548	4.646886	-2.472392
79	6	0	7.446722	-1.345844	-2.415457
80	6	0	6.403536	-1.761015	-3.449341
81	6	0	8.867352	-1.475586	-2.951099
82	1	0	7.276468	-0.303629	-2.134215
83	1	0	5.393614	-1.650340	-3.044841
84	1	0	6.493690	-1.136111	-4.342263
85	1	0	6.556846	-2.806295	-3.738030
86	1	0	9.612938	-1.257178	-2.180873
87	1	0	9.056963	-2.474509	-3.356627
88	1	0	9.000241	-0.763853	-3.769483
89	6	0	5.668879	-3.101979	1.873977
90	6	0	6.636225	-2.641830	2.963531
91	6	0	5.146661	-4.510966	2.130560
92	1	0	4.830117	-2.405990	1.811251
93	1	0	7.041928	-1.656219	2.716684
94	1	0	6.122142	-2.581131	3.927192
95	1	0	7.471862	-3.342316	3.065527
96	1	0	4.509407	-4.856657	1.313406
97	1	0	5.967634	-5.224942	2.256420
98	1	0	4.560424	-4.518334	3.053192
99	6	0	-4.379370	-1.145519	-2.416887
100	6	0	-4.906002	-0.558054	-3.722248

101	6	0	-3.085056	-1.925054	-2.613493
102	1	0	-4.228308	-0.335777	-1.702863
103	1	0	-5.881463	-0.086427	-3.579754
104	1	0	-4.201783	0.200654	-4.074591
105	1	0	-4.991998	-1.315786	-4.508329
106	1	0	-2.729597	-2.349950	-1.672409
107	1	0	-3.222371	-2.729484	-3.345790
108	1	0	-2.314983	-1.246761	-2.991433
109	6	0	-7.519381	-3.274315	0.829444
110	6	0	-6.740583	-4.369947	1.548450
111	6	0	-8.959178	-3.674173	0.530366
112	1	0	-7.514552	-2.370162	1.441111
113	1	0	-5.735474	-4.021908	1.802673
114	1	0	-7.255427	-4.646783	2.472400
115	1	0	-6.658964	-5.261151	0.917633
116	1	0	-9.469453	-2.916587	-0.070405
117	1	0	-9.015554	-4.636309	0.011704
118	1	0	-9.496891	-3.784899	1.475093
119	6	0	-7.446659	1.345637	2.415414
120	6	0	-8.867359	1.474983	2.950973
121	6	0	-6.403607	1.761161	3.449291
122	1	0	-7.276070	0.303456	2.134276
123	1	0	-9.612825	1.256353	2.180693
124	1	0	-9.000093	0.763237	3.769371
125	1	0	-9.057295	2.473856	3.356471
126	1	0	-5.393659	1.650686	3.044788
127	1	0	-6.557158	2.806423	3.737914
128	1	0	-6.493593	1.136296	4.342256
129	6	0	-5.669074	3.101898	-1.874126
130	6	0	-5.146861	4.510955	-2.130352
131	6	0	-6.636213	2.641964	-2.963956
132	1	0	-4.830321	2.405889	-1.811389
133	1	0	-4.509772	4.856538	-1.313028
134	1	0	-4.560478	4.518537	-3.052889
135	1	0	-5.967866	5.224899	-2.256196
136	1	0	-7.042009	1.656324	-2.717387
137	1	0	-7.471809	3.342489	-3.066028
138	1	0	-6.121923	2.581424	-3.927517
139	5	0	5.120095	-0.900084	-0.308756
140	5	0	-5.119979	0.900108	0.308799

BP86/6-31G(d)

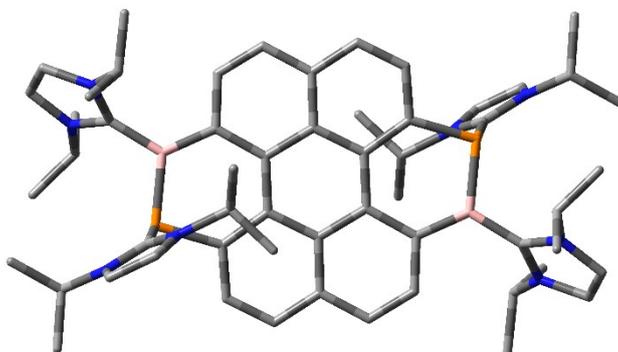
Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-1.575152	-2.382827	-0.352567
2	6	0	-0.762087	-1.219529	-0.207183
3	6	0	-1.418843	0.013369	0.138398
4	6	0	-2.847949	0.027334	0.263123
5	6	0	-3.677809	-1.151229	0.029579
6	6	0	-2.960289	-2.356831	-0.235734
7	6	0	-0.679718	1.234448	0.365585
8	6	0	-3.519855	1.217670	0.657091
9	1	0	-3.507590	-3.302359	-0.330392
10	6	0	-2.789779	2.390502	0.920075
11	6	0	-1.401190	2.397625	0.756710
12	1	0	-3.298952	3.299607	1.263780
13	6	0	2.789760	-2.390506	-0.919929
14	6	0	3.519834	-1.217664	-0.656987
15	6	0	2.847927	-0.027325	-0.263027
16	6	0	1.418822	-0.013366	-0.138287
17	6	0	0.679698	-1.234451	-0.365456
18	6	0	1.401173	-2.397635	-0.756550
19	1	0	3.298934	-3.299621	-1.263609
20	6	0	3.677782	1.151246	-0.029521
21	6	0	0.762065	1.219530	0.207292
22	6	0	1.575123	2.382836	0.352644
23	6	0	2.960257	2.356848	0.235781
24	1	0	3.507552	3.302381	0.330408
25	1	0	1.095336	3.346166	0.556186
26	1	0	-0.858609	3.322518	0.974699
27	1	0	0.858597	-3.322539	-0.974506
28	1	0	-1.095369	-3.346158	-0.556113
29	15	0	-5.309916	0.921262	0.907398
30	15	0	5.309876	-0.921243	-0.907376
31	6	0	7.626930	3.753941	0.287581
32	6	0	8.133529	3.208613	-0.855882
33	1	0	7.967019	4.606061	0.870402
34	1	0	8.980999	3.515780	-1.462154
35	6	0	7.377983	-3.518614	1.428951
36	6	0	6.514884	-3.057724	2.386157
37	1	0	8.172409	-4.257713	1.490638
38	1	0	6.418003	-3.327224	3.434484
39	6	0	-7.377851	3.518715	-1.428998
40	6	0	-6.514710	3.057826	-2.386167
41	1	0	-8.172255	4.257834	-1.490715

42	1	0	-6.417749	3.327362	-3.434478
43	6	0	-8.133512	-3.208695	0.855810
44	6	0	-7.626960	-3.753882	-0.287740
45	1	0	-8.980945	-3.515947	1.462092
46	1	0	-7.967068	-4.605933	-0.870651
47	6	0	-6.032506	1.972400	-0.461950
48	6	0	-6.319518	-1.954052	0.248945
49	6	0	6.032550	-1.972354	0.461943
50	6	0	6.319488	1.954068	-0.248958
51	7	0	-5.700372	2.108712	-1.788624
52	7	0	-7.072510	2.851369	-0.251719
53	7	0	-6.521586	-2.993226	-0.656858
54	7	0	-7.346826	-2.106889	1.179928
55	7	0	6.521532	2.993340	0.656741
56	7	0	7.346852	2.106772	-1.179899
57	7	0	5.700526	-2.108605	1.788650
58	7	0	7.072561	-2.851304	0.251671
59	6	0	-4.608195	1.382243	-2.499892
60	6	0	-3.400061	2.306560	-2.709768
61	6	0	-5.133972	0.799225	-3.819954
62	1	0	-4.339833	0.553114	-1.824309
63	1	0	-3.025347	2.698482	-1.751012
64	1	0	-2.584574	1.734605	-3.183775
65	1	0	-3.655258	3.152218	-3.375078
66	1	0	-6.036342	0.185819	-3.661762
67	1	0	-5.365363	1.584157	-4.562557
68	1	0	-4.352312	0.156569	-4.258793
69	6	0	-7.771805	3.094149	1.040808
70	6	0	-9.247681	2.682908	0.932670
71	6	0	-7.580413	4.551927	1.485063
72	1	0	-7.253309	2.428878	1.753523
73	1	0	-9.346041	1.630960	0.615039
74	1	0	-9.734040	2.795675	1.916563
75	1	0	-9.798945	3.315766	0.214039
76	1	0	-6.509958	4.807977	1.555187
77	1	0	-8.066598	5.262426	0.792708
78	1	0	-8.034218	4.693307	2.480725
79	6	0	-7.381609	-1.441637	2.507946
80	6	0	-6.492682	-2.205270	3.504257
81	6	0	-8.823510	-1.273712	3.006468
82	1	0	-6.947867	-0.441137	2.344858
83	1	0	-5.460880	-2.277785	3.121085
84	1	0	-6.467193	-1.675482	4.472398
85	1	0	-6.880305	-3.225437	3.677898

86	1	0	-9.462117	-0.783548	2.251137
87	1	0	-9.286533	-2.237516	3.284554
88	1	0	-8.818923	-0.646468	3.913948
89	6	0	-5.864881	-3.112032	-1.980104
90	6	0	-6.837899	-2.671829	-3.089025
91	6	0	-5.336324	-4.536199	-2.209474
92	1	0	-5.016477	-2.409478	-1.935897
93	1	0	-7.229169	-1.660017	-2.886933
94	1	0	-6.321651	-2.660713	-4.064517
95	1	0	-7.696448	-3.362510	-3.168943
96	1	0	-4.667263	-4.856052	-1.393718
97	1	0	-6.158988	-5.269887	-2.290317
98	1	0	-4.768814	-4.571751	-3.155066
99	6	0	4.608421	-1.382080	2.499971
100	6	0	5.134268	-0.799142	3.820040
101	6	0	3.400225	-2.306318	2.709836
102	1	0	4.340101	-0.552912	1.824414
103	1	0	6.036720	-0.185852	3.661859
104	1	0	4.352692	-0.156390	4.258887
105	1	0	5.365554	-1.584112	4.562636
106	1	0	3.025459	-2.698166	1.751069
107	1	0	3.655380	-3.152025	3.375098
108	1	0	2.584791	-1.734328	3.183889
109	6	0	7.771689	-3.094219	-1.040922
110	6	0	7.579865	-4.551933	-1.485202
111	6	0	9.247684	-2.683377	-0.932902
112	1	0	7.253307	-2.428794	-1.753574
113	1	0	6.509332	-4.807669	-1.555292
114	1	0	8.033594	-4.693433	-2.480882
115	1	0	8.065861	-5.262578	-0.792864
116	1	0	9.346362	-1.631477	-0.615212
117	1	0	9.798864	-3.316432	-0.214381
118	1	0	9.733907	-2.796208	-1.916855
119	6	0	7.381727	1.441281	-2.507798
120	6	0	8.823638	1.273588	-3.006367
121	6	0	6.492578	2.204522	-3.504211
122	1	0	6.948223	0.440708	-2.344508
123	1	0	9.462417	0.783753	-2.250968
124	1	0	8.819138	0.646130	-3.913699
125	1	0	9.286406	2.237438	-3.284717
126	1	0	5.460779	2.276880	-3.121000
127	1	0	6.879970	3.224741	-3.678060
128	1	0	6.467160	1.674542	-4.472249
129	6	0	5.864788	3.112299	1.979955

130	6	0	5.336284	4.536510	2.209174
131	6	0	6.837751	2.672167	3.088951
132	1	0	5.016358	2.409774	1.935787
133	1	0	4.667274	4.856326	1.393363
134	1	0	4.768736	4.572171	3.154739
135	1	0	6.158979	5.270166	2.289988
136	1	0	7.228989	1.660321	2.886972
137	1	0	7.696323	3.362824	3.168829
138	1	0	6.321471	2.661166	4.064427
139	5	0	-5.173887	-0.916150	0.238969
140	5	0	5.173860	0.916166	-0.238928

2PB-d



UB3LYP/6-31G*

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-2.316982	-1.185834	-1.267415
2	6	0	-1.193880	-0.561510	-0.616822
3	6	0	0.106316	-1.193102	-0.763882
4	6	0	0.195033	-2.416593	-1.525342
5	6	0	-0.916886	-2.931939	-2.207409
6	6	0	-2.140861	-2.312212	-2.090564
7	6	0	1.301994	-0.656591	-0.162543
8	6	0	1.421626	-3.137017	-1.573064
9	1	0	-0.799608	-3.830427	-2.808568
10	1	0	-3.003556	-2.716913	-2.615363
11	6	0	2.531639	-2.647135	-0.965001
12	6	0	2.571239	-1.371343	-0.309108
13	1	0	1.439929	-4.092082	-2.094065
14	1	0	3.440043	-3.243835	-0.985005
15	6	0	-2.531630	2.647102	0.965109
16	6	0	-1.421617	3.136981	1.573175

17	6	0	-0.195021	2.416564	1.525437
18	6	0	-0.106305	1.193077	0.763971
19	6	0	-1.301984	0.656568	0.162631
20	6	0	-2.571228	1.371321	0.309198
21	1	0	0.799625	3.830402	2.808657
22	1	0	-3.440035	3.243800	0.985121
23	1	0	-1.439922	4.092040	2.094186
24	6	0	0.916903	2.931916	2.207494
25	6	0	1.193893	0.561491	0.616901
26	6	0	2.317001	1.185826	1.267475
27	6	0	2.140882	2.312203	2.090627
28	1	0	3.003582	2.716913	2.615410
29	15	0	4.066683	0.726918	1.114942
30	15	0	-4.066662	-0.726904	-1.114916
31	6	0	7.050968	-2.888858	-0.656030
32	6	0	7.080000	-2.946763	0.698505
33	1	0	7.737394	-3.285273	-1.386895
34	1	0	7.791007	-3.412456	1.362076
35	6	0	6.083177	3.501099	-1.176076
36	6	0	5.024990	3.332099	-2.009159
37	1	0	6.952921	4.131741	-1.268118
38	1	0	4.802749	3.794771	-2.957258
39	6	0	-5.025069	-3.332167	2.009084
40	6	0	-6.083267	-3.501086	1.175998
41	1	0	-4.802845	-3.794890	2.957161
42	1	0	-6.953037	-4.131695	1.268015
43	6	0	-7.050929	2.888953	0.655961
44	6	0	-7.079934	2.946804	-0.698577
45	1	0	-7.737360	3.285414	1.386796
46	1	0	-7.790918	3.412486	-1.362180
47	6	0	5.222413	-1.796676	0.110900
48	6	0	4.701294	1.993322	-0.232456
49	6	0	-4.701320	-1.993333	0.232433
50	6	0	-5.222385	1.796698	-0.110890
51	7	0	5.910121	-2.186127	-1.008883
52	7	0	5.956599	-2.281906	1.160089
53	7	0	4.188769	2.398555	-1.424834
54	7	0	5.872107	2.676699	-0.084812
55	7	0	-5.872161	-2.676655	0.084764
56	7	0	-4.188809	-2.398635	1.424795
57	7	0	-5.910108	2.186208	1.008865
58	7	0	-5.956543	2.281898	-1.160112
59	6	0	5.569156	-1.797594	-2.395679
60	6	0	5.468072	-3.027429	-3.302597

61	6	0	6.576025	-0.765383	-2.918337
62	1	0	4.583950	-1.333422	-2.312882
63	1	0	4.742398	-3.746818	-2.913954
64	1	0	5.138859	-2.718133	-4.299704
65	1	0	6.434578	-3.532004	-3.416652
66	1	0	6.616003	0.110963	-2.263269
67	1	0	7.584438	-1.188304	-2.991919
68	1	0	6.281530	-0.432997	-3.919415
69	6	0	5.540776	-2.243943	2.581622
70	6	0	6.568862	-1.490365	3.428339
71	6	0	5.267416	-3.662830	3.093365
72	1	0	4.602131	-1.684573	2.573988
73	1	0	6.715489	-0.475359	3.047786
74	1	0	6.211829	-1.418559	4.460673
75	1	0	7.537547	-2.004181	3.446647
76	1	0	4.523421	-4.166019	2.468166
77	1	0	6.177536	-4.273384	3.111561
78	1	0	4.879141	-3.613770	4.115788
79	6	0	6.799088	2.595922	1.073452
80	6	0	6.959515	3.972223	1.725885
81	6	0	8.132376	1.974538	0.646668
82	1	0	6.296055	1.927136	1.775125
83	1	0	5.987836	4.385526	2.013199
84	1	0	7.570790	3.876478	2.628927
85	1	0	7.459023	4.687791	1.062915
86	1	0	7.982542	0.982303	0.208596
87	1	0	8.657528	2.599502	-0.084914
88	1	0	8.783965	1.868057	1.520087
89	6	0	2.890513	1.973689	-2.014910
90	6	0	3.075837	1.547577	-3.473931
91	6	0	1.851781	3.086954	-1.851316
92	1	0	2.583894	1.104396	-1.437309
93	1	0	3.858482	0.788858	-3.572291
94	1	0	2.137881	1.115617	-3.835336
95	1	0	3.323997	2.391566	-4.128044
96	1	0	1.737188	3.364670	-0.800471
97	1	0	2.128975	3.978177	-2.427833
98	1	0	0.881738	2.733870	-2.213899
99	6	0	-5.569182	1.797727	2.395685
100	6	0	-6.576098	0.765577	2.918373
101	6	0	-5.468072	3.027601	3.302548
102	1	0	-4.583990	1.333518	2.312928
103	1	0	-6.616093	-0.110801	2.263348
104	1	0	-6.281638	0.433232	3.919475

105	1	0	-7.584498	1.188538	2.991910
106	1	0	-4.742367	3.746949	2.913885
107	1	0	-6.434563	3.532213	3.416563
108	1	0	-5.138886	2.718340	4.299675
109	6	0	-5.540696	2.243867	-2.581637
110	6	0	-5.267296	3.662727	-3.093434
111	6	0	-6.568783	1.490276	-3.428341
112	1	0	-4.602063	1.684477	-2.573963
113	1	0	-4.523303	4.165927	-2.468242
114	1	0	-4.879003	3.613616	-4.115847
115	1	0	-6.177403	4.273299	-3.111674
116	1	0	-6.715437	0.475288	-3.047748
117	1	0	-7.537456	2.004111	-3.446685
118	1	0	-6.211734	1.418419	-4.460665
119	6	0	-2.890527	-1.973862	2.014885
120	6	0	-1.851850	-3.087168	1.851217
121	6	0	-3.075817	-1.547831	3.473933
122	1	0	-2.583874	-1.104550	1.437333
123	1	0	-1.737278	-3.364829	0.800356
124	1	0	-0.881787	-2.734151	2.213813
125	1	0	-2.129084	-3.978411	2.427685
126	1	0	-3.858426	-0.789083	3.572349
127	1	0	-3.324009	-2.391849	4.127997
128	1	0	-2.137837	-1.115938	3.835354
129	6	0	-6.799139	-2.595793	-1.073496
130	6	0	-8.132400	-1.974366	-0.646690
131	6	0	-6.959628	-3.972064	-1.725979
132	1	0	-6.296076	-1.927004	-1.775145
133	1	0	-7.982523	-0.982153	-0.208584
134	1	0	-8.783985	-1.867827	-1.520105
135	1	0	-8.657577	-2.599333	0.084871
136	1	0	-5.987968	-4.385401	-2.013307
137	1	0	-7.459169	-4.687632	-1.063036
138	1	0	-7.570896	-3.876257	-2.629019
139	5	0	-3.909550	0.926893	-0.205829
140	5	0	3.909564	-0.926900	0.205894

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Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-2.246402	-1.112402	-1.423807

2	6	0	-1.154395	-0.514828	-0.711155
3	6	0	0.143798	-1.137633	-0.832569
4	6	0	0.273535	-2.301411	-1.666525
5	6	0	-0.805133	-2.784848	-2.413140
6	6	0	-2.038174	-2.190490	-2.293435
7	6	0	1.297884	-0.649126	-0.132809
8	6	0	1.511340	-3.004537	-1.721916
9	1	0	-0.659960	-3.644234	-3.062151
10	1	0	-2.882987	-2.580637	-2.856223
11	6	0	2.584630	-2.552429	-1.036309
12	6	0	2.573144	-1.336144	-0.278672
13	1	0	1.562425	-3.916883	-2.311374
14	1	0	3.506017	-3.130481	-1.068890
15	6	0	-2.584592	2.552491	1.036769
16	6	0	-1.511258	3.004665	1.722286
17	6	0	-0.273435	2.301623	1.666781
18	6	0	-0.143725	1.137813	0.832869
19	6	0	-1.297832	0.649280	0.133156
20	6	0	-2.573088	1.336262	0.279074
21	1	0	0.660159	3.644600	3.062212
22	1	0	-3.506005	3.130490	1.069451
23	1	0	-1.562350	3.917010	2.311746
24	6	0	0.805310	2.785182	2.413241
25	6	0	1.154480	0.515015	0.711416
26	6	0	2.246562	1.112719	1.423863
27	6	0	2.038359	2.190901	2.293410
28	1	0	2.883225	2.581157	2.856045
29	15	0	3.999027	0.705308	1.269936
30	15	0	-3.998865	-0.704890	-1.270042
31	6	0	7.090591	-2.436191	-0.958248
32	6	0	7.208499	-2.674546	0.368317
33	1	0	7.760703	-2.660028	-1.772617
34	1	0	7.997510	-3.151738	0.926831
35	6	0	6.015791	3.332724	-1.097384
36	6	0	4.902348	3.230668	-1.860498
37	1	0	6.915718	3.906295	-1.245717
38	1	0	4.648452	3.707408	-2.793060
39	6	0	-4.902532	-3.230570	1.859952
40	6	0	-6.015845	-3.332623	1.096646
41	1	0	-4.648792	-3.707332	2.792542
42	1	0	-6.915798	-3.906193	1.244815
43	6	0	-7.090607	2.436116	0.958722
44	6	0	-7.208618	2.674363	-0.367852
45	1	0	-7.760671	2.659989	1.773121

46	1	0	-7.997689	3.151475	-0.926349
47	6	0	5.234918	-1.651904	0.039383
48	6	0	4.607964	1.923942	-0.073099
49	6	0	-4.607903	-1.923742	0.072674
50	6	0	-5.234922	1.651914	-0.038966
51	7	0	5.875987	-1.809093	-1.147860
52	7	0	6.062228	-2.193570	0.967465
53	7	0	4.053484	2.350981	-1.228488
54	7	0	5.817911	2.528900	0.004960
55	7	0	-5.817783	-2.528785	-0.005660
56	7	0	-4.053532	-2.350918	1.228068
57	7	0	-5.875973	1.809062	1.148302
58	7	0	-6.062365	2.193396	-0.967036
59	6	0	5.406702	-1.255352	-2.427520
60	6	0	5.304827	-2.343941	-3.489764
61	6	0	6.306584	-0.094930	-2.846092
62	1	0	4.405184	-0.877791	-2.207871
63	1	0	4.647947	-3.151402	-3.157368
64	1	0	4.883578	-1.919017	-4.405398
65	1	0	6.286103	-2.763804	-3.738195
66	1	0	6.344607	0.668261	-2.063228
67	1	0	7.328446	-0.433548	-3.050595
68	1	0	5.919254	0.367921	-3.758751
69	6	0	5.749649	-2.308159	2.400997
70	6	0	6.674263	-1.411440	3.217979
71	6	0	5.792117	-3.770518	2.836013
72	1	0	4.722809	-1.941057	2.485798
73	1	0	6.566415	-0.368744	2.906854
74	1	0	6.413216	-1.479793	4.277895
75	1	0	7.722724	-1.712102	3.107646
76	1	0	5.135656	-4.381124	2.209772
77	1	0	6.806601	-4.181387	2.786240
78	1	0	5.452781	-3.851075	3.872491
79	6	0	6.825026	2.288306	1.057445
80	6	0	7.540513	3.580877	1.433951
81	6	0	7.782789	1.187046	0.608590
82	1	0	6.249026	1.934391	1.915661
83	1	0	6.826330	4.373511	1.673900
84	1	0	8.158485	3.398991	2.317419
85	1	0	8.206763	3.932821	0.638943
86	1	0	7.238519	0.263621	0.388588
87	1	0	8.334484	1.487753	-0.289293
88	1	0	8.507346	0.976463	1.400977
89	6	0	2.719026	1.973189	-1.741791

90	6	0	2.780723	1.653888	-3.231291
91	6	0	1.699540	3.056660	-1.408964
92	1	0	2.461190	1.057031	-1.218822
93	1	0	3.567443	0.926283	-3.451666
94	1	0	1.823849	1.214839	-3.526048
95	1	0	2.941293	2.545402	-3.847903
96	1	0	1.694454	3.271764	-0.337251
97	1	0	1.912501	3.980551	-1.960201
98	1	0	0.699871	2.708037	-1.683370
99	6	0	-5.406724	1.255251	2.427951
100	6	0	-6.306500	0.094663	2.846297
101	6	0	-5.305152	2.343738	3.490325
102	1	0	-4.405128	0.877847	2.208399
103	1	0	-6.344178	-0.668525	2.063414
104	1	0	-5.919316	-0.368129	3.759046
105	1	0	-7.328475	0.433095	3.050546
106	1	0	-4.648342	3.151331	3.158114
107	1	0	-6.286520	2.763432	3.738681
108	1	0	-4.883964	1.918761	4.405963
109	6	0	-5.749945	2.307773	-2.400613
110	6	0	-5.792694	3.770038	-2.835922
111	6	0	-6.674459	1.410719	-3.217347
112	1	0	-4.723051	1.940832	-2.485432
113	1	0	-5.136281	4.380890	-2.209872
114	1	0	-5.453465	3.850436	-3.872449
115	1	0	-6.807241	4.180749	-2.786151
116	1	0	-6.566463	0.368111	-2.905980
117	1	0	-7.722955	1.711259	-3.107040
118	1	0	-6.413460	1.478853	-4.277287
119	6	0	-2.719111	-1.973196	1.741551
120	6	0	-1.699630	-3.056737	1.408922
121	6	0	-2.780973	-1.653820	3.231029
122	1	0	-2.461144	-1.057068	1.218576
123	1	0	-1.694404	-3.271908	0.337224
124	1	0	-0.699976	-2.708161	1.683443
125	1	0	-1.912722	-3.980584	1.960183
126	1	0	-3.567672	-0.926158	3.451288
127	1	0	-2.941650	-2.545293	3.847669
128	1	0	-1.824105	-1.214818	3.525872
129	6	0	-6.824714	-2.288240	-1.058333
130	6	0	-7.782859	-1.187319	-0.609464
131	6	0	-7.539742	-3.580922	-1.435316
132	1	0	-6.248608	-1.933972	-1.916338
133	1	0	-7.238846	-0.263811	-0.389157

134	1	0	-8.507290	-0.976744	-1.401968
135	1	0	-8.334692	-1.488332	0.288232
136	1	0	-6.825254	-4.373259	-1.675336
137	1	0	-8.206027	-3.933298	-0.640531
138	1	0	-8.157605	-3.398994	-2.318851
139	5	0	-3.878750	0.900971	-0.294905
140	5	0	3.878783	-0.900823	0.295232

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Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	-2.264685	-1.119224	-1.399537
2	6	0	-1.165283	-0.519954	-0.695560
3	6	0	0.136261	-1.136310	-0.836452
4	6	0	0.260679	-2.298854	-1.674077
5	6	0	-0.826919	-2.791504	-2.401106
6	6	0	-2.061951	-2.199591	-2.269066
7	6	0	1.299769	-0.642530	-0.153505
8	6	0	1.506551	-2.988598	-1.762224
9	1	0	-0.684408	-3.651832	-3.049176
10	1	0	-2.911744	-2.591262	-2.823167
11	6	0	2.588881	-2.531464	-1.094406
12	6	0	2.576651	-1.323593	-0.317360
13	1	0	1.552522	-3.892568	-2.364557
14	1	0	3.518500	-3.096051	-1.151908
15	6	0	-2.589004	2.532432	1.092490
16	6	0	-1.506693	2.989731	1.760115
17	6	0	-0.260835	2.299726	1.672400
18	6	0	-0.136477	1.136886	0.835159
19	6	0	-1.299984	0.642987	0.152319
20	6	0	-2.576939	1.324067	0.316053
21	1	0	0.684211	3.653058	3.047091
22	1	0	-3.518574	3.097133	1.149683
23	1	0	-1.552544	3.893993	2.362021
24	6	0	0.826654	2.792438	2.399388
25	6	0	1.164990	0.520386	0.694569
26	6	0	2.264277	1.119556	1.398755
27	6	0	2.061651	2.200175	2.267892
28	1	0	2.911366	2.591813	2.822133
29	15	0	4.019671	0.692261	1.264819
30	15	0	-4.020099	-0.692664	-1.264807

31	6	0	7.111653	-2.468275	-0.909357
32	6	0	7.208429	-2.677571	0.426024
33	1	0	7.795591	-2.707245	-1.708493
34	1	0	7.989156	-3.140160	1.009058
35	6	0	6.040811	3.364141	-1.082592
36	6	0	4.928888	3.255865	-1.852353
37	1	0	6.935928	3.948076	-1.222113
38	1	0	4.672134	3.733652	-2.784399
39	6	0	-4.927721	-3.255391	1.853799
40	6	0	-6.039953	-3.364104	1.084542
41	1	0	-4.670506	-3.732833	2.785894
42	1	0	-6.934918	-3.948135	1.224648
43	6	0	-7.111828	2.467790	0.909833
44	6	0	-7.209183	2.676909	-0.425537
45	1	0	-7.795497	2.706710	1.709216
46	1	0	-7.990243	3.139259	-1.008315
47	6	0	5.234453	-1.670446	0.041003
48	6	0	4.638965	1.937867	-0.069651
49	6	0	-4.638752	-1.937969	0.070505
50	6	0	-5.234831	1.670282	-0.041189
51	7	0	5.895820	-1.854304	-1.131488
52	7	0	6.049231	-2.190151	0.994379
53	7	0	4.086955	2.367085	-1.224363
54	7	0	5.843568	2.553484	0.014979
55	7	0	-5.843291	-2.553801	-0.013400
56	7	0	-4.086147	-2.366788	1.225063
57	7	0	-5.895800	1.854057	1.131536
58	7	0	-6.050113	2.189650	-0.994288
59	6	0	5.452689	-1.317265	-2.429917
60	6	0	5.478669	-2.401915	-3.499231
61	6	0	6.306775	-0.103963	-2.789203
62	1	0	4.419888	-1.001172	-2.259524
63	1	0	4.868969	-3.258121	-3.200011
64	1	0	5.072622	-2.001068	-4.431644
65	1	0	6.498437	-2.746455	-3.701792
66	1	0	6.231095	0.662883	-2.010541
67	1	0	7.360336	-0.383331	-2.901469
68	1	0	5.969974	0.328178	-3.736127
69	6	0	5.721105	-2.278988	2.428570
70	6	0	6.627404	-1.354830	3.234064
71	6	0	5.795109	-3.730600	2.892091
72	1	0	4.686859	-1.928545	2.495089
73	1	0	6.494083	-0.317143	2.915812
74	1	0	6.374213	-1.423336	4.295432

75	1	0	7.680379	-1.636177	3.117229
76	1	0	5.163517	-4.370522	2.270750
77	1	0	6.821438	-4.111250	2.860289
78	1	0	5.448127	-3.799179	3.926209
79	6	0	6.854600	2.294791	1.061980
80	6	0	7.677560	3.545575	1.342832
81	6	0	7.718277	1.107971	0.642429
82	1	0	6.277552	2.029479	1.951414
83	1	0	7.036434	4.407910	1.543295
84	1	0	8.299259	3.368363	2.223735
85	1	0	8.350349	3.786068	0.513460
86	1	0	7.100890	0.217593	0.479161
87	1	0	8.256768	1.333963	-0.284875
88	1	0	8.451922	0.881600	1.421902
89	6	0	2.759374	1.965408	-1.740900
90	6	0	2.833252	1.679924	-3.235923
91	6	0	1.716512	3.021110	-1.394131
92	1	0	2.532314	1.033301	-1.229599
93	1	0	3.641526	0.979370	-3.467245
94	1	0	1.889061	1.224129	-3.544854
95	1	0	2.973241	2.590602	-3.828092
96	1	0	1.703852	3.221845	-0.319095
97	1	0	1.916736	3.954545	-1.933391
98	1	0	0.725432	2.656627	-1.680533
99	6	0	-5.451918	1.317491	2.429914
100	6	0	-6.305821	0.104362	2.790202
101	6	0	-5.477218	2.402573	3.498806
102	1	0	-4.419239	1.001291	2.258997
103	1	0	-6.230687	-0.662778	2.011785
104	1	0	-5.968396	-0.327439	3.737059
105	1	0	-7.359297	0.383812	2.903074
106	1	0	-4.867613	3.258604	3.198893
107	1	0	-6.496844	2.747282	3.701799
108	1	0	-5.070677	2.002072	4.431153
109	6	0	-5.722665	2.278080	-2.428661
110	6	0	-5.797260	3.729510	-2.892654
111	6	0	-6.629106	1.353399	-3.233395
112	1	0	-4.688360	1.927860	-2.495499
113	1	0	-5.165559	4.369823	-2.271826
114	1	0	-5.450762	3.797817	-3.926952
115	1	0	-6.823671	4.109907	-2.860534
116	1	0	-6.495377	0.315866	-2.914811
117	1	0	-7.682095	1.634544	-3.116181
118	1	0	-6.376409	1.421570	-4.294901

119	6	0	-2.758257	-1.964875	1.740595
120	6	0	-1.715514	-3.020511	1.393244
121	6	0	-2.831110	-1.679151	3.235619
122	1	0	-2.531685	-1.032824	1.228954
123	1	0	-1.703547	-3.221374	0.318219
124	1	0	-0.724279	-2.655891	1.678935
125	1	0	-1.915291	-3.953900	1.932751
126	1	0	-3.639374	-0.978735	3.467416
127	1	0	-2.970452	-2.589756	3.828054
128	1	0	-1.886794	-1.223090	3.543775
129	6	0	-6.854743	-2.295720	-1.060154
130	6	0	-7.718482	-1.108859	-0.640856
131	6	0	-7.677599	-3.546765	-1.340138
132	1	0	-6.278036	-2.030707	-1.949897
133	1	0	-7.101199	-0.218313	-0.478143
134	1	0	-8.452371	-0.882940	-1.420230
135	1	0	-8.256686	-1.334542	0.286690
136	1	0	-7.036409	-4.409085	-1.540464
137	1	0	-8.350031	-3.787003	-0.510400
138	1	0	-8.299665	-3.370055	-2.220882
139	5	0	-3.880936	0.899369	-0.263188
140	5	0	3.880626	-0.899375	0.262612

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Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z
1	6	0	2.332055	-1.238378	1.216556
2	6	0	1.201928	-0.588147	0.590796
3	6	0	-0.103374	-1.227600	0.721592
4	6	0	-0.189283	-2.488387	1.436786
5	6	0	0.932077	-3.031707	2.098130
6	6	0	2.162359	-2.401397	2.002184
7	6	0	-1.307682	-0.664410	0.146522
8	6	0	-1.418627	-3.214537	1.457858
9	1	0	0.816012	-3.961972	2.667285
10	1	0	3.037163	-2.824656	2.511819
11	6	0	-2.540180	-2.694759	0.871758
12	6	0	-2.581079	-1.386844	0.272394
13	1	0	-1.433826	-4.199444	1.941699
14	1	0	-3.457863	-3.295584	0.864900
15	6	0	2.540151	2.694788	-0.871737

16	6	0	1.418600	3.214560	-1.457846
17	6	0	0.189252	2.488415	-1.436759
18	6	0	0.103340	1.227640	-0.721543
19	6	0	1.307647	0.664455	-0.146465
20	6	0	2.581046	1.386883	-0.272348
21	1	0	-0.816040	3.961983	-2.667280
22	1	0	3.457836	3.295608	-0.864895
23	1	0	1.433803	4.199455	-1.941711
24	6	0	-0.932108	3.031729	-2.098110
25	6	0	-1.201962	0.588188	-0.590746
26	6	0	-2.332088	1.238412	-1.216514
27	6	0	-2.162391	2.401422	-2.002154
28	1	0	-3.037195	2.824674	-2.511797
29	15	0	-4.090888	0.772192	-1.073773
30	15	0	4.090854	-0.772160	1.073818
31	6	0	-7.069679	-2.954635	0.556139
32	6	0	-7.124054	-2.909410	-0.809520
33	1	0	-7.747455	-3.409823	1.273832
34	1	0	-7.850981	-3.330253	-1.499721
35	6	0	-6.082028	3.471744	1.322043
36	6	0	-5.027431	3.239379	2.163442
37	1	0	-6.950318	4.115581	1.438081
38	1	0	-4.805515	3.651084	3.144714
39	6	0	5.027383	-3.239392	-2.163364
40	6	0	6.082077	-3.471606	-1.322045
41	1	0	4.805429	-3.651162	-3.144600
42	1	0	6.950430	-4.115349	-1.438132
43	6	0	7.069708	2.954507	-0.556273
44	6	0	7.124114	2.909338	0.809387
45	1	0	7.747489	3.409630	-1.274001
46	1	0	7.851080	3.330174	1.499552
47	6	0	-5.243568	-1.793361	-0.164942
48	6	0	-4.704863	1.980812	0.309877
49	6	0	4.704836	-1.980781	-0.309826
50	6	0	5.243562	1.793347	0.164904
51	7	0	-5.918600	-2.275887	0.941615
52	7	0	-6.005513	-2.206836	-1.241444
53	7	0	-4.197603	2.319600	1.537951
54	7	0	-5.870862	2.699566	0.187360
55	7	0	5.870929	-2.699394	-0.187381
56	7	0	4.197506	-2.319680	-1.537839
57	7	0	5.918595	2.275785	-0.941691
58	7	0	6.005560	2.206819	1.241368
59	6	0	-5.560596	-1.972056	2.349748

60	6	0	-5.458735	-3.258636	3.181706
61	6	0	-6.560226	-0.964192	2.942392
62	1	0	-4.563634	-1.504287	2.278611
63	1	0	-4.738986	-3.965741	2.738236
64	1	0	-5.112221	-3.011112	4.199519
65	1	0	-6.436260	-3.764962	3.278848
66	1	0	-6.597228	-0.042325	2.337225
67	1	0	-7.579013	-1.388291	2.995858
68	1	0	-6.256376	-0.694142	3.968730
69	6	0	-5.599252	-2.078332	-2.664765
70	6	0	-6.629837	-1.259950	-3.453672
71	6	0	-5.339953	-3.467047	-3.271478
72	1	0	-4.646961	-1.520805	-2.620270
73	1	0	-6.763133	-0.262548	-3.002915
74	1	0	-6.278501	-1.123581	-4.490706
75	1	0	-7.611508	-1.766720	-3.496621
76	1	0	-4.591866	-4.021670	-2.680526
77	1	0	-6.263422	-4.071307	-3.326041
78	1	0	-4.953319	-3.353118	-4.298696
79	6	0	-6.780160	2.697291	-0.993000
80	6	0	-6.896315	4.111896	-1.579479
81	6	0	-8.137670	2.084140	-0.619026
82	1	0	-6.266063	2.042934	-1.719232
83	1	0	-5.902853	4.520621	-1.829198
84	1	0	-7.496482	4.075553	-2.504632
85	1	0	-7.397977	4.809704	-0.885119
86	1	0	-8.016568	1.061070	-0.224182
87	1	0	-8.666991	2.690437	0.138181
88	1	0	-8.780408	2.034900	-1.514722
89	6	0	-2.903018	1.845965	2.108506
90	6	0	-3.091460	1.381297	3.559588
91	6	0	-1.838805	2.944162	1.968472
92	1	0	-2.621478	0.978248	1.493601
93	1	0	-3.900918	0.636431	3.643149
94	1	0	-2.155966	0.909395	3.903151
95	1	0	-3.310750	2.219371	4.245950
96	1	0	-1.725419	3.252752	0.916674
97	1	0	-2.094847	3.829925	2.579130
98	1	0	-0.866211	2.556134	2.314081
99	6	0	5.560554	1.971886	-2.349801
100	6	0	6.560110	0.963916	-2.942393
101	6	0	5.458767	3.258420	-3.181841
102	1	0	4.563563	1.504187	-2.278624
103	1	0	6.597053	0.042086	-2.337167

104	1	0	6.256231	0.693822	-3.968711
105	1	0	7.578925	1.387942	-2.995894
106	1	0	4.739078	3.965606	-2.738402
107	1	0	6.436326	3.764670	-3.279037
108	1	0	5.112215	3.010853	-4.199630
109	6	0	5.599340	2.078367	2.664705
110	6	0	5.340119	3.467109	3.271390
111	6	0	6.629916	1.259961	3.453599
112	1	0	4.647025	1.520879	2.620254
113	1	0	4.592033	4.021746	2.680450
114	1	0	4.953517	3.353224	4.298625
115	1	0	6.263615	4.071333	3.325903
116	1	0	6.763160	0.262544	3.002861
117	1	0	7.611609	1.766693	3.496506
118	1	0	6.278606	1.123631	4.490646
119	6	0	2.902816	-1.846216	-2.108298
120	6	0	1.838756	-2.944550	-1.968176
121	6	0	3.091087	-1.381534	-3.559397
122	1	0	2.621213	-0.978529	-1.493377
123	1	0	1.725492	-3.253152	-0.916368
124	1	0	0.866085	-2.556650	-2.313711
125	1	0	2.094865	-3.830282	-2.578850
126	1	0	3.900449	-0.636571	-3.643031
127	1	0	3.310420	-2.219586	-4.245772
128	1	0	2.155508	-0.909746	-3.902889
129	6	0	6.780340	-2.696954	0.992891
130	6	0	8.137741	-2.083658	0.618759
131	6	0	6.896720	-4.111519	1.579424
132	1	0	6.266234	-2.042625	1.719142
133	1	0	8.016478	-1.060620	0.223881
134	1	0	8.780559	-2.034301	1.514391
135	1	0	8.667062	-2.689925	-0.138472
136	1	0	5.903331	-4.520351	1.829256
137	1	0	7.398401	-4.809299	0.885049
138	1	0	7.496970	-4.075061	2.504519
139	5	0	3.933837	0.921540	0.221365
140	5	0	-3.933869	-0.921512	-0.221329
