

## Thread-based fluidic platform for urinary creatinine analysis

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## S1. White Balance

The  $\mu$ TAD was prepared by adding 5  $\mu$ L of acetic/acetate pH 3.8 buffer 0.10, 0.05 and 0.01M, followed by 0.5  $\mu$ L of the sensing cocktail. Two different creatinine solutions were tested at  $1.0 \times 10^{-7}$  and  $5.0 \times 10^{-2}$  M, with 3 replicates each. 3 min after adding 10  $\mu$ L of the standard solution, the device was digitalized, changing the white balance setting, and the signal variation was then calculated depending on its setting. Six different settings were checked and the results can be seen in Table S1. The best results were obtained when the incandescent setting was selected, which also had better reproducibility in terms of CV.

**Table S1.** Increase in hue signal and its coefficient of variation for each different white balance

White Balance	$\Delta H$	CV (%)
Incandescent (2800K)	0.0110	1.0
Sun (5500K)	0.0057	1.0
Cloudy (6500K)	0.0047	1.1
Fluorescent 1 (4000K)	0.0077	1.8
Fluorescent 2 (5000K)	0.0023	2.5
Fluorescent 3 (6000K)	0.0047	1.0

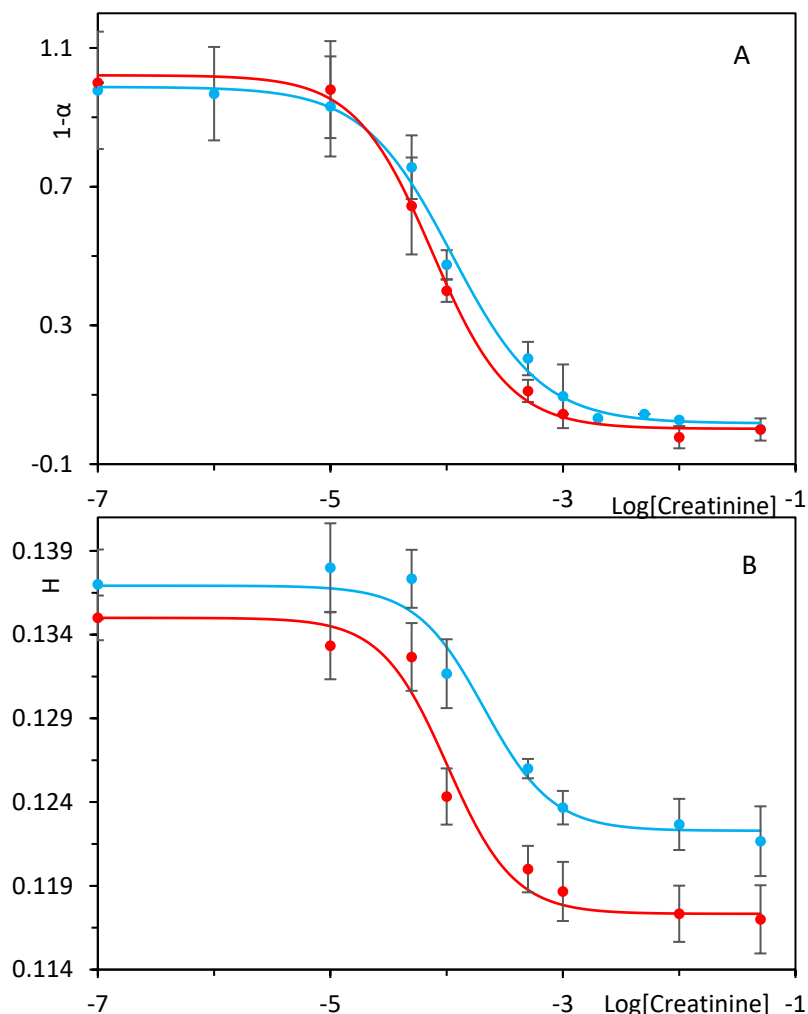
## S2. Influence of membrane activation

In previous works, we have demonstrated the suitability of the H colour coordinate for monitoring sensing membranes based on ionophore-chromoionophore chemistry using a bitonal pH indicator instead of a  $1-\alpha$  parameter. This simplifies the calculation and procedure of use, requiring only one measurement per membrane[1–3].

In order to check the use of H for ETH7075 indicator, two sets of sensing membranes were prepared by spin-coating, adding 15  $\mu$ L of the cocktail on a piece of Mylar sheet, spinning at 190 rpm and letting it dry in a THF atmosphere

To perform the assay, 8 creatinine standard solutions, buffered to pH 3.8 by adding 0.01M acetic/acetate, were prepared ( $1.0 \times 10^{-7}$ ,  $1.0 \times 10^{-5}$ ,  $5.0 \times 10^{-5}$ ,  $1.0 \times 10^{-4}$ ,  $5.0 \times 10^{-4}$ ,  $1.0 \times 10^{-3}$ ,  $1.0 \times 10^{-2}$  and  $5 \times 10^{-2}$  M) with 3 replicates each. One set of membranes was used by introducing it directly into the buffered standard solution for 3 min before digitalizing it with a camera. The other set was first introduced into a 0.1 M HCl solution for 3 min to

activate the sensing membrane and then into the standard solution for another 3 min. The second set was measured for both the H coordinate and absorbance.



**Figure S1.** Calibration obtained from activated membrane (blue line) and without activation (red line), using A) 1- $\alpha$ , and B) H as analytical parameters.

### S3. Cocktail concentration

The sensing cocktail comprises a solution of 0.88 mg (0.9 wt. %) of ETH7075, 3.2 mg (3.2 wt. %) of calix[4]pyrrole, 1.5 mg (1.5 wt. %) of KFMPB, 63.9 mg (63.0 wt. %) NPOE and 31.9 mg of PVC (31.5 wt. %) 1 mL of freshly distilled THF [4]. From this cocktail, four different dilutions were obtained by adding THF, thus obtaining the sensing cocktail in the 5 different concentrations that were tested. The  $\mu$ TADs were prepared by dropping 0.5  $\mu$ L of the cocktail on a scoured cotton thread and then letting it dry. Subsequently, three creatinine solutions ( $1 \times 10^{-7}$ ,  $1 \times 10^{-4}$  and  $5 \times 10^{-2}$  M) buffered to pH 3.8

were tested, adding 10  $\mu\text{L}$  on one end of the  $\mu\text{TAD}$  and digitalizing after 3 min, obtaining 3 replicates from each solution.

The H variation from the concentrated to the diluted solution is shown in Table S2 along with the CV of the measurements obtained for each sensing cocktail.

**Table S2.** Signal variation of  $\mu\text{TAD}$  depending on the concentration of sensing cocktail tested on thread

<b>Cocktail:THF</b>	<b><math>\Delta\text{H}</math></b>	<b>CV (%)</b>
1:0	0.015	0.4
1:1	0.014	0.9
1:2	0.004	0.8
1:3	0.001	2.3
1:4	0.003	2.0

#### **S4. Buffering of sample in the $\mu\text{TAD}$**

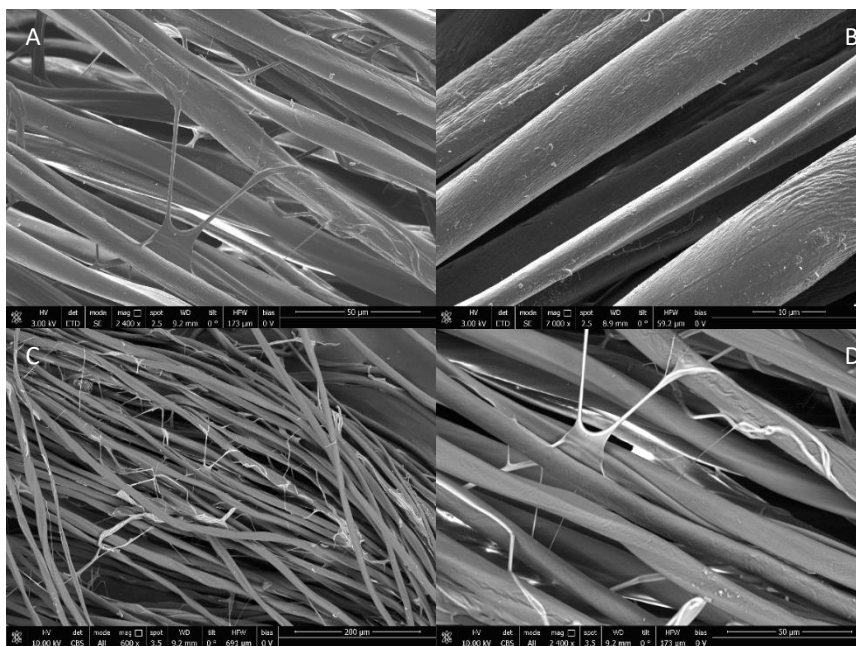
The  $\mu\text{TAD}$  was prepared by adding 5  $\mu\text{L}$  of acetic/acetate pH 3.8 buffer 0.10, 0.05 and 0.01M and then 0.5  $\mu\text{L}$  of the sensing cocktail. Non-buffered  $1 \times 10^{-7}$  and  $5 \times 10^{-2}$  M creatinine solution were tested (n=3), comparing the results obtained with those obtained using a buffered standard solution. The results are presented in Table S3.

**Table S3.** H values obtained at two different concentrations when the standard is buffered by the addition of the buffer and those obtained when buffered on the  $\mu\text{TAD}$

<b>Acetic/acetate buffer pH=3.8</b>	<b>Buffer location</b>	<b><math>1 \times 10^{-7}</math> M (H)</b>	<b><math>5 \times 10^{-2}</math> M (H)</b>
0.01 M	Solution	0.1399	0.1247
0.10 M	Thread	0.1397	0.1247
0.05 M	Thread	0.1327	0.1250
0.01 M	Thread	0.1323	0.1247

## S5. Response time

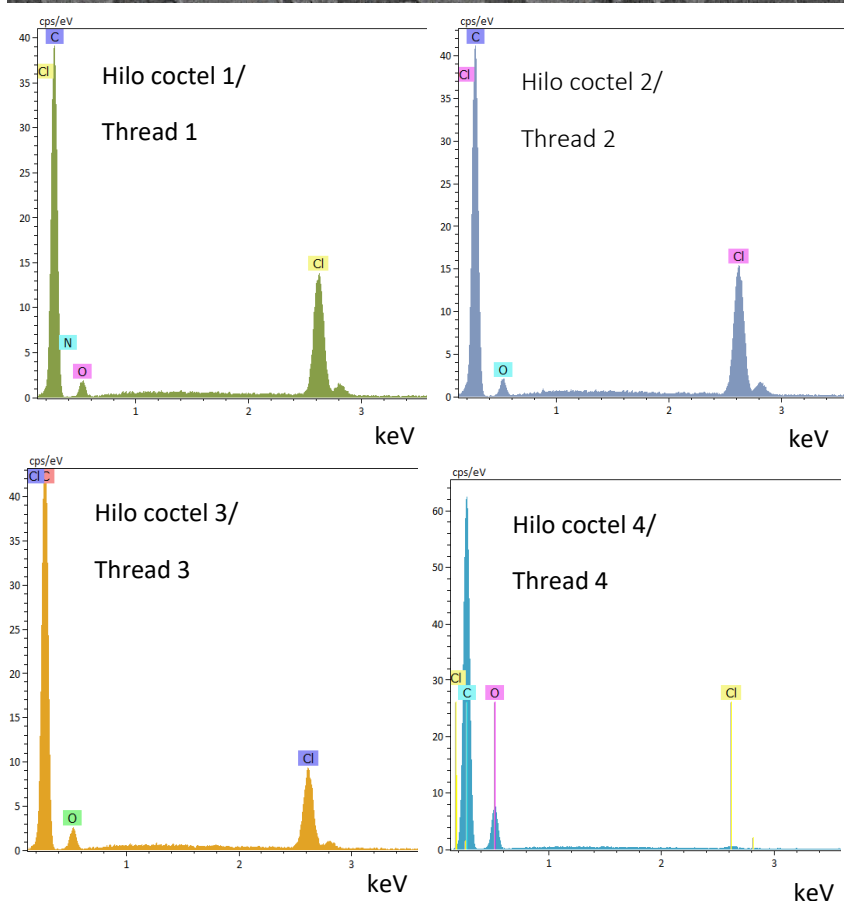
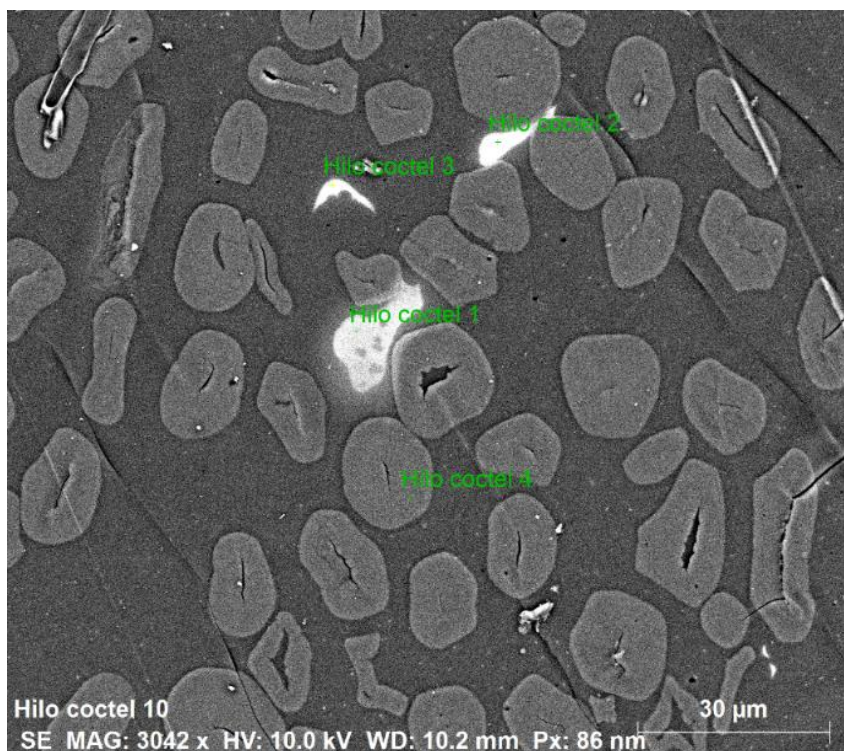
The reaction time for the  $\mu$ TAD was studied using two different creatinine solutions,  $1 \times 10^{-7}$  and  $5 \times 10^{-2}$  M, with 3 replicates each, taking pictures at different times (10, 15, 20, 30, 60, 120, 180 and 240 s).



**Figure S2.**  $\mu$ TAD images obtained by FEG-ESEM using CBS and ETD. A, C and D show the PVC membrane containing the reagents located in the hollow space between yarns like a ‘sensing web’

## S6. Calibration

To calibrate the  $\mu$ TAD, 11 creatinine standard solutions were tested ( $1.0 \times 10^{-7}$ ,  $1.0 \times 10^{-6}$ ,  $1.0 \times 10^{-5}$ ,  $5.0 \times 10^{-5}$ ,  $1.0 \times 10^{-4}$ ,  $5.0 \times 10^{-4}$ ,  $1.0 \times 10^{-3}$ ,  $5.0 \times 10^{-3}$ ,  $1.0 \times 10^{-2}$ ,  $5.0 \times 10^{-2}$  and  $9.0 \times 10^{-2}$  M) with 5 different replicates each. The photographs were taken in the same controlled situation described in the ‘Measurement setup’ section in the manuscript at 30 s, counting from the moment of the sample addition. The photographs were acquired and analysed with a smartphone running an in-house app[5].



**Figure S3.** EDX analysis cotton thread with and without sensing cocktail. The presence of Cl comes from the PVC used to obtain the membrane on the thread. Thread without sensing cocktail contains a very low quantity of Cl.

### S7. Selectivity study and maximum tolerable error

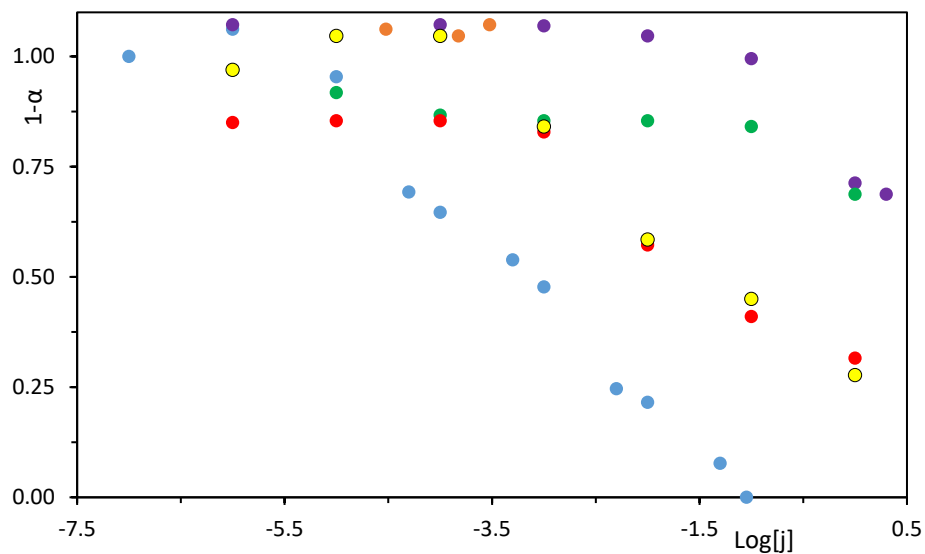
To calculate the selectivity coefficients for the sensing membrane studied, the separate solutions method[6] was used. The response curves (n=3) for creatinine, Na(I), K(I), NH<sub>4</sub>(I) (1.0x10<sup>-6</sup>, 1.0x10<sup>-5</sup>, 1.0x10<sup>-4</sup>, 1.0x10<sup>-3</sup>, 1.0x10<sup>-2</sup>, 1.0x10<sup>-1</sup> and 1 M) uric acid (3.0x10<sup>-5</sup>, 1.5x10<sup>-4</sup> and 3.0x10<sup>-4</sup> M) and urea (1.0x10<sup>-6</sup>, 1.0x10<sup>-4</sup>, 1.0x10<sup>-3</sup>, 1.0x10<sup>-2</sup>, 1.0x10<sup>-1</sup>, 1 and 2 M) were obtained. The results obtained are shown in Figure S3. The corresponding exchange constant for each equilibrium was calculated assuming a stoichiometric index of p = 1. Finally, the selectivity coefficient was calculated using Equation S1, where a<sub>H<sup>+</sup></sub> is the protonic activity in the sample, and C<sub>R</sub>, C<sub>I</sub> and C<sub>L</sub> are the molal concentrations of the lipophilic salt, lipophilic pH indicator and ionophore, respectively.

$$k_{IJ}^{opt} = \frac{v}{z} \frac{K_e^{JLq}}{K_e^{ILP}} \left( \frac{a_{H^+} \alpha}{1 - \alpha} \right)^{z-v} \frac{C_L - \frac{1}{v} C_R - (1 - \alpha) C_C}{C_L - \frac{1}{z} C_R - (1 - \alpha) C_C} \quad \text{Equation S1}$$

The selectivity coefficient calculated was compared with the selectivity factor  $K_{ij}^{opt,max}$ , calculated using equation S2.

$$K_{ij,max}^{opt} = \frac{a_{i,min}}{(a_{j,max})} \cdot \frac{P_{ij}}{100} \quad \text{Equation S2}$$

This value depends on the minimum concentration of analyte in the sample (a<sub>i,min</sub>, 5 mM creatinine), the highest concentration expected of the interfering specie (a<sub>j,max</sub>, 100 mM K(I), 200 mM Na(I), 20 mM NH<sub>4</sub>(I), 3.5 mM uric acid and 250 mM urea) and the highest tolerable error in the activity a<sub>i</sub> due to the interference of a<sub>j</sub> (P<sub>ij</sub>, 1, 10 and 100%).



**Figure S4.** Response of the  $\mu$ TAD in the presence of different species ( $j$ ) ( $n=3$ ). Creatinine (blue dots), Na(I) (green dots), K(I) (red dots), NH<sub>4</sub>(I) (yellow dots), uric acid (orange dots,) and urea (purple dots)

Artificial urine tested was prepared as described by Zhang[7]; the composition is shown in Table S4.

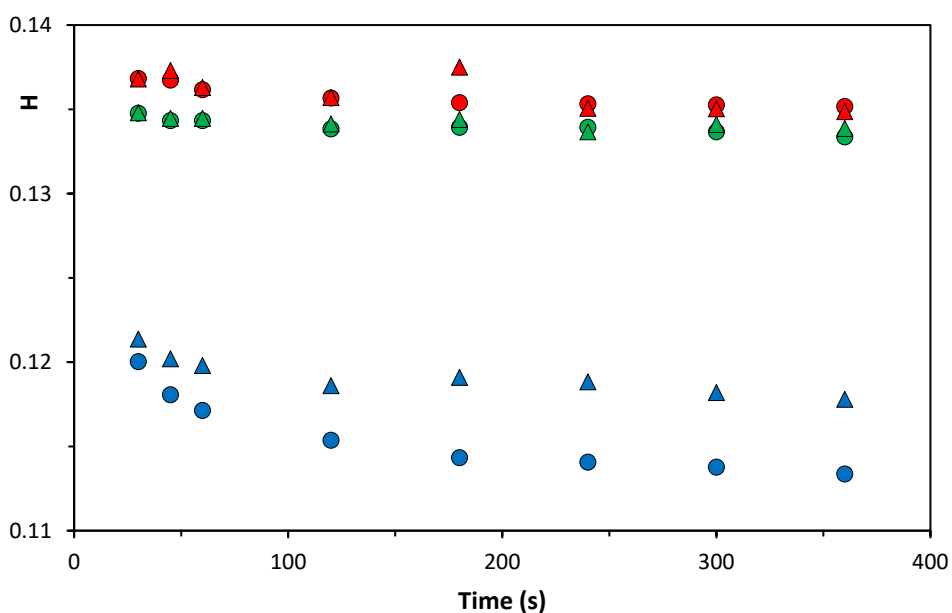
**Table S4.** Composition of the artificial urine tested

Species	Concentration (mM)
Creatinine	1.0
Urea	100
NaCl	440
Na <sub>2</sub> SO <sub>4</sub>	15
KCl	40
MgCl <sub>2</sub>	4.0
NaH <sub>2</sub> PO <sub>4</sub>	20
CaCl <sub>2</sub>	4.0
Na <sub>3</sub> C <sub>6</sub> H <sub>5</sub> O <sub>7</sub>	2.7
pH	6.0



### S8. Real sample analysis

The pre-treatment of the samples was studied using a freshly obtained urine sample that was diluted in water (1:0, 1:50 and 1:100) using a 0.22  $\mu\text{m}$  filter when filtered. A kinetic study of the  $\mu\text{TAD}$  was performed, obtaining a picture at 30, 45, 60, 120, 180, 240, 300 and 360 s (See Figure S5). The  $\mu\text{TADs}$  used were prepared by adding 5  $\mu\text{L}$  of acetic/acetate pH 3.8, 0.10M buffer, and 0.5  $\mu\text{L}$  of the sensing cocktail. The creatinine concentration obtained using different dilutions was compared to the value obtained using a reference method (Jaffé) [8](See Table S5).



**Figure S5.** Kinetic study of the  $\mu\text{TAD}$  depending on the sample treatment performed ( $\blacktriangle$ ) Filtered sample; non-filtered samples ( $\bullet$ ); 1:0 dilution (blue data); 1:50 dilution (green data); 1:100 dilution (red data) (n=3)

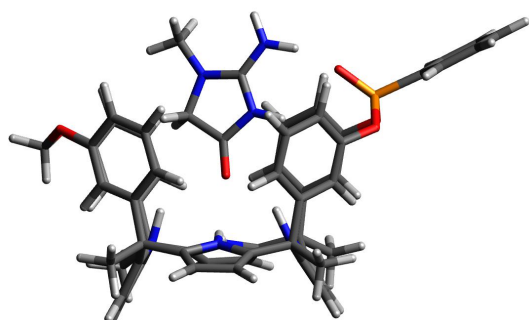
**Table S5.** Creatinine concentration predicted depending on the sample dilution

Urine dilution	Creatinine concentration, mM			Error (%)
	Sensor (H value)	Sensor [C]	Reference (Jaffé)	
1:0	0.073±0.059	Out of range	17.5	Out of range
1:50	0.130±0.001	35.7		104%
1:100	0.132±0.001	18.1		4%

## S9. References

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**S10. XYZ coordinates (Å) and Total Energy (Hartree) for all the complexes 1–18 studied, optimized at the DFT theoretical level (PBEh-3c)**

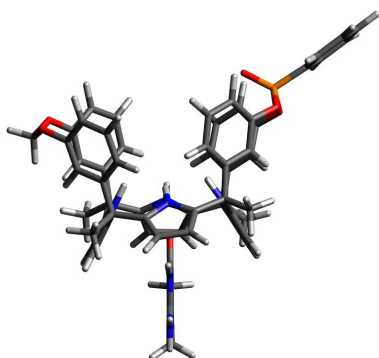


*Complex 1 (upper rim),  $E_{tot}$ (Hartree): -3450.175983144803*

C	-1.52324273313724	2.85002539561126	-3.00182247716933
C	-2.16928617320751	4.04733362491895	-2.83178332238625
C	-1.77549564968771	4.57356435320160	-1.57679188998432
C	-0.89459242739592	3.68724580314242	-1.01247871823608
N	-0.75792653041125	2.64751549793462	-1.88878605234511
C	-1.67239610013128	1.80932359938340	-4.08078138606662
C	-0.26933208834336	3.68037937122862	0.35786244248640
C	1.19985704632686	3.33718654634567	0.30626258150742
C	2.30761181245182	4.14216894736189	0.34306617471742
C	3.45047264629834	3.30357029300075	0.34869265127289
C	3.01567762209768	2.00505571442413	0.31345215454755
N	1.64787230806112	2.04407063985139	0.25663026819255
C	3.77646683379120	0.70511725338826	0.40266828056176
C	3.91135544994399	0.03429303917773	-0.94025748831501
C	4.99588554367740	-0.56722243865790	-1.52673086479080
C	4.55351441565176	-1.17175239708754	-2.72908302179370
C	3.20957278380513	-0.92433313742857	-2.84824662193409
N	2.84131105929049	-0.19477631178707	-1.75584978974514
C	2.22295725825619	-1.36208211888768	-3.90010565005342
C	1.40931760585644	-0.19197198768580	-4.39836068985072
C	1.55312123056127	0.58369416609692	-5.51590504476302
C	0.45341311510190	1.47783652021548	-5.56692664582946
C	-0.33811640058252	1.23080729352518	-4.47810467836504
N	0.27858187593267	0.24172476991909	-3.75278173649226
C	1.28031067322508	-2.46026227923240	-3.37973416258701
C	-2.63457552460188	0.69416892699621	-3.62668240386491
C	-1.00521857556068	2.69781771418232	1.28465565549586
C	3.08933397406603	-0.23453948356478	1.40678514333982
C	5.18062480891347	0.99049969754413	0.95669530676558
C	-0.43057956887512	5.07811045842634	0.97486584581994
C	-2.31558626950546	2.46544950321286	-5.31285784843738
C	3.00644254672681	-1.96710212120969	-5.07536456714686
C	2.54570645356027	0.28406557363080	2.58148761051489
C	2.00965526251321	-0.56248776709452	3.53716632174988
C	1.99316222505361	-1.93862787075781	3.35873791863115
C	2.53277237131546	-2.45147551233578	2.18918701870826
C	3.07148421509421	-1.61354280331864	1.22369756093963

C	-2.24107091645385	2.15093875415018	0.95499901093409
C	-2.93135026834734	1.35592102631619	1.86011091496474
C	-2.40498114985844	1.07935846956843	3.11114179674711
C	-1.16502922022384	1.61254943937951	3.43083768191351
C	-0.46828456669274	2.40833372229936	2.53947622822787
C	-2.60384708784923	-0.54763373042721	-4.26431920766332
C	-3.53286899771467	-1.53432446770737	-3.95459199422870
C	-4.52053166707845	-1.27789084445763	-3.00534673484495
C	-4.56089410477667	-0.04202768028524	-2.38368409199799
C	-3.61939460482915	0.93629420702402	-2.67513481127343
C	1.57066347499695	-3.20701974841590	-2.24553400648966
C	0.73439539509173	-4.25014341553303	-1.86748475790357
C	-0.40849308672546	-4.54674044478668	-2.58971964272765
C	-0.71047773429437	-3.80021143009305	-3.72745638576230
C	0.13819944702507	-2.77351691425212	-4.12018291208464
O	1.54675614281915	-0.00008277150907	4.71495042429009
O	-0.62107674606365	1.40794026289615	4.68780580041512
O	-1.81743839186082	-4.19405921131722	-4.40891382171848
O	-3.60650598297716	-2.75234304971535	-4.54736832788701
C	-2.54379099272417	-3.33750845055300	-5.23694192310801
P	-0.00006302347513	0.00004870846668	5.15341788687080
C	0.08258176539773	0.17500819535121	6.91610106240926
O	-0.73541966817025	-1.16431237708589	4.57753461077635
C	-0.89831962193125	0.89807206104082	7.59378542131680
C	-0.85680606245257	0.98295169792322	8.97510994009902
C	0.15472820662681	0.34841986995887	9.68138320224262
C	1.12835029326036	-0.37575056254301	9.00864241998501
C	1.09658908808882	-0.46536967214525	7.62747347362826
H	-2.86286755713755	4.50291209489899	-3.51896213132282
H	-2.12012703443813	5.49696190655314	-1.14214255292010
H	-0.06442021878392	1.92487011428469	-1.80656776005200
H	2.31154961818094	5.21936720185566	0.37228587991601
H	4.47612515961429	3.63204326374987	0.38825549439554
H	1.05650014593410	1.23443576843159	0.35643527625928
H	6.00293560313387	-0.58176661496728	-1.14393396086727
H	5.16393161111286	-1.72519508775061	-3.42300067635310
H	1.92190990113332	0.17995538922588	-1.61074904996847
H	2.35529457654959	0.51943703384048	-6.23203348190652
H	0.27031820075257	2.21431261820727	-6.33183603039999
H	-0.17760664504679	-0.28219854465996	-3.02360951157889
H	5.74285895381479	1.62828038846571	0.27552661437590
H	5.11555416058806	1.48643449069895	1.92369201200074
H	5.73447151532997	0.06339858172476	1.09350708829878
H	-1.48449603028059	5.33222513746969	1.07560587170991
H	0.01689222306634	5.11695174333442	1.96642049677991
H	0.04548808154859	5.83373316438475	0.35162222680170
H	-2.40074079264521	1.74790129801172	-6.12700578877286
H	-3.31683996269926	2.82243124547160	-5.07734620300415
H	-1.72377354770384	3.31359691224957	-5.65509349750540
H	3.72556247459994	-1.25395679823920	-5.47770435061820
H	2.33473399700466	-2.26623556499540	-5.87824758946137
H	3.54932987815248	-2.85298098905873	-4.74922150720794
H	2.57262602245625	1.35004518711949	2.77280873715037

H	1.60316211013061	-2.59450813133276	4.12501935964358
H	2.55099573927390	-3.52302367487704	2.03773257173521
H	3.51182794246237	-2.04082690052399	0.33326120029082
H	-2.68812508706581	2.37871191019770	-0.00225601390912
H	-3.90838700620541	0.97193156409955	1.59398489296449
H	-2.95793998301485	0.49277640126247	3.83213538396292
H	0.48272992435026	2.83382220556726	2.83881952717036
H	-1.86650624661660	-0.69736800388909	-5.04191434651324
H	-5.27153554638159	-2.03183269036880	-2.80584823393914
H	-5.34876108642903	0.16889713665841	-1.67169627043591
H	-3.67938508327495	1.90675936565251	-2.20083866854398
H	2.46586950844854	-2.99814595700944	-1.67714505500930
H	0.98364072494096	-4.84640537254246	-0.99904276022098
H	-1.05120117171521	-5.37131496428634	-2.30853073703655
H	-0.05423987540458	-2.21712323809553	-5.02926530309955
H	-1.91090704690303	-2.60015684398274	-5.73645792612126
H	-2.99868804937127	-3.97281295282293	-5.99358318042232
H	-1.68531580222043	1.40689809358687	7.05414595877083
H	-1.61040117320964	1.55415595651998	9.49971331636431
H	0.18924507351441	0.42551246144501	10.75985202073803
H	1.92189778771777	-0.86238287344450	9.55884137307310
H	1.87127521121750	-1.01872871775472	7.11416510815064
N	-2.51668255787808	-2.53691257951063	0.53015173547046
C	-1.89538969988508	-2.20937899976170	1.65073240942367
N	-0.85972496497764	-1.37450566071803	1.38346571862945
C	-0.79792321054514	-1.08270348698921	0.04267343839867
C	-1.87596240335832	-1.90391804705751	-0.60689275944100
O	-0.03002415233813	-0.32622182425684	-0.48305072748944
N	-2.18616099744861	-2.60141009598016	2.86256847348510
C	-3.63190687042360	-3.44926896471255	0.42151319128493
H	-1.68120166148224	-2.16884948196492	3.65660813363888
H	-2.95247520112975	-3.22849535929420	3.03835830106898
H	-4.00025946760405	-3.41811764644536	-0.59992430271655
H	-4.45168474461897	-3.15235755517090	1.07621707227823
H	-3.33684868916081	-4.47486607861542	0.64584437104328
H	-1.42812504884947	-2.63913450441367	-1.28332916159382
H	-2.56723534727481	-1.27511619336084	-1.17304834532669
H	-0.23608259994089	-1.00642510058740	2.09419718466970



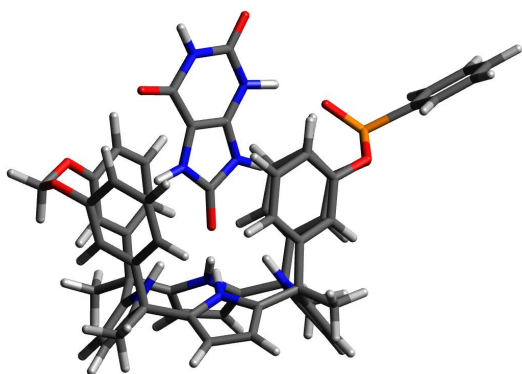
Complex 1 (lower rim),  $E_{tot}(\text{Hartree})$ : **-3450.142159799865**

C	-4.632852485	-1.204551407	-9.532756739
C	-5.656138190	-1.975960087	-10.030867555
C	-5.854290731	-3.052899329	-9.130463782
C	-4.948070994	-2.908772579	-8.107509626
N	-4.214324862	-1.793621672	-8.379161468
C	-4.093913983	0.117951993	-10.024971326
C	-4.700862313	-3.769024527	-6.892362351
C	-5.067825294	-3.018812289	-5.631183330
C	-6.194323470	-3.086678458	-4.846285581
C	-6.017295853	-2.187959552	-3.762919837
C	-4.786051753	-1.598253466	-3.913615034
N	-4.236106285	-2.111189829	-5.049373216
C	-4.067615510	-0.578531992	-3.055351978
C	-4.403073708	0.810443730	-3.544279360
C	-5.210527566	1.771098402	-2.983636765
C	-5.253930864	2.870663472	-3.884541237
C	-4.457584554	2.551552272	-4.965742493
N	-3.962465318	1.305366569	-4.735917772
C	-4.128894825	3.353033805	-6.204089249
C	-4.680732128	2.663701248	-7.429426714
C	-5.794428594	2.917018226	-8.194233317
C	-5.781033606	2.005069841	-9.283580893
C	-4.658390100	1.222454729	-9.153328071
N	-4.024162373	1.630431446	-8.022455409
C	-2.614135886	3.565143966	-6.339185747
C	-2.560205320	0.196871838	-10.017427977
C	-3.245276470	-4.243775978	-6.847894032
C	-2.560870931	-0.860547440	-3.042720580
C	-4.555468405	-0.716678862	-1.603945440
C	-5.571918196	-5.030755015	-6.985591312
C	-4.557219195	0.329092464	-11.474189840
C	-4.772329419	4.740812617	-6.079813809
C	-2.133366531	-2.177661771	-2.873634046
C	-0.785925674	-2.472616230	-2.778165717
C	0.175600594	-1.476644136	-2.852211357
C	-0.247864103	-0.169384236	-3.015741046
C	-1.599215831	0.140734261	-3.106012473
C	-2.505034108	-4.402731058	-8.015946031
C	-1.216183470	-4.914220248	-7.973805423
C	-0.633385804	-5.279207892	-6.770867309
C	-1.379358073	-5.135104941	-5.611740182
C	-2.665437558	-4.624541429	-5.639777410

C	-1.971443758	1.456611399	-10.158145255
C	-0.593590441	1.608338582	-10.183937588
C	0.223386370	0.484712241	-10.074417570
C	-0.356095274	-0.763083559	-9.964472202
C	-1.738760841	-0.918039926	-9.937681225
C	-1.785344417	3.571280719	-5.223454780
C	-0.432582944	3.854693294	-5.363339968
C	0.113258932	4.132724361	-6.603138905
C	-0.716290152	4.160186366	-7.720919952
C	-2.069813324	3.872200480	-7.587163571
O	-0.422870582	-3.785624023	-2.548264844
O	-0.867190560	-5.537437714	-4.392961886
O	-0.134465150	4.546914306	-8.884185192
O	0.054438854	2.788007183	-10.356905083
C	-0.531834820	4.028579805	-10.114294251
P	0.304807386	-4.708292101	-3.654357447
C	1.094648425	-5.946524215	-2.656993195
O	1.113884890	-3.921144651	-4.617962423
C	1.259898585	-7.236617311	-3.158267179
C	1.952673408	-8.178525698	-2.416945429
C	2.482689506	-7.838188272	-1.181010786
C	2.321763674	-6.554047821	-0.682032643
C	1.631038859	-5.605304529	-1.416716506
H	-6.186354449	-1.813873193	-10.955374355
H	-6.558877714	-3.860052416	-9.251810118
H	-3.504314239	-1.401832100	-7.774816749
H	-7.031184345	-3.751790677	-4.987004115
H	-6.700575420	-2.045131362	-2.940923198
H	-3.358088423	-1.798606528	-5.440895355
H	-5.691454626	1.716946515	-2.020694547
H	-5.731445749	3.821972725	-3.710005468
H	-3.375646383	0.784858430	-5.379203283
H	-6.509563243	3.709141159	-8.038750316
H	-6.490068636	1.969067273	-10.094711485
H	-3.174583755	1.210650492	-7.674835269
H	-5.629240947	-0.548540707	-1.521802114
H	-4.346912267	-1.716498383	-1.227866100
H	-4.045613885	-0.000036991	-0.961000789
H	-5.321670230	-5.603345717	-7.877336094
H	-5.412888301	-5.667534090	-6.116722926
H	-6.632522988	-4.781600311	-7.030806164
H	-4.211252397	1.288852674	-11.854636137
H	-4.155332576	-0.455147826	-12.114282500
H	-5.643929637	0.309993748	-11.557515034
H	-5.854549639	4.669763682	-5.960670251
H	-4.572652013	5.332528853	-6.971128198
H	-4.366628562	5.275648386	-5.222433659
H	-2.853979990	-2.982487604	-2.794097123
H	1.227671423	-1.712361437	-2.766558416
H	0.487098028	0.622341193	-3.070112832
H	-1.889790827	1.176048167	-3.211267056
H	-2.940506612	-4.143301183	-8.972131053
H	-0.658762629	-5.036266562	-8.893213699

H	0.369267431	-5.683826873	-6.740310709
H	-3.223056803	-4.557496759	-4.714755274
H	-2.622635981	2.314929810	-10.252336066
H	1.298672236	0.605646444	-10.084887451
H	0.281662821	-1.634908384	-9.894089871
H	-2.156168395	-1.911940148	-9.862276526
H	-2.188573569	3.372259766	-4.239221701
H	0.210792772	3.852199380	-4.493220619
H	1.168384487	4.333505554	-6.720173265
H	-2.726818588	3.915044865	-8.445709039
H	-1.620367973	4.006516018	-10.221357095
H	-0.126074634	4.712772873	-10.856173330
H	0.843506013	-7.515821016	-4.116560056
H	2.076815604	-9.180726860	-2.803428237
H	3.022378257	-8.577101574	-0.604143805
H	2.732676386	-6.290141297	0.282597420
H	1.505294388	-4.609148617	-1.014771816
N	-9.044373273	0.218221910	-6.681200906
C	-8.628073506	1.030329127	-5.723121133
N	-7.303748910	0.967191209	-5.566723779
C	-6.748235851	0.057145329	-6.478835503
C	-7.916157424	-0.491946843	-7.262399292
O	-5.599674120	-0.199267370	-6.581000993
N	-9.415858609	1.808139222	-4.999867414
C	-10.422553077	0.019001704	-7.065961083
H	-9.036749532	2.391934295	-4.274011325
H	-10.409519676	1.839995529	-5.147216727
H	-10.450408061	-0.678979229	-7.897407162
H	-10.883110403	0.947613348	-7.405753641
H	-11.011399699	-0.408295948	-6.252701711
H	-7.989921508	-1.573230088	-7.123837891
H	-7.787978375	-0.278821798	-8.326285605
H	-6.734920513	1.543156922	-4.938494889



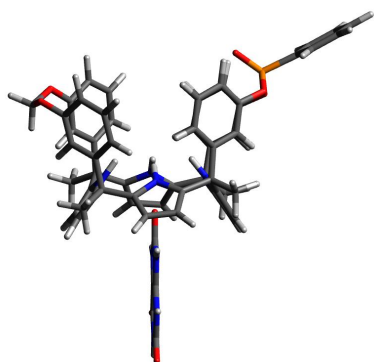


Complex 2a (upper rim),  $E_{tot}(\text{Hartree})$ : **-3690.838293513360**

N	5.06066690603904	0.77068382802379	1.55165663277319
C	4.49222777999612	0.22558915159254	2.69066046445576
O	5.08939937670433	0.12322991588100	3.73067215587947
N	3.18405330897304	-0.19400975435945	2.53263716923482
C	2.55596575050588	0.01113420273504	1.35279539333839
N	1.28351524473623	-0.33517083642975	1.01473522654984
C	1.02870432536936	0.05886224163437	-0.28102073842045
O	-0.04087084834045	-0.09211857211790	-0.88311595191882
N	2.16082705385122	0.63576821789546	-0.71952531555416
C	3.12589695140734	0.60379152398854	0.27591187460684
C	4.48352567840591	1.05238044929578	0.30748104501988
O	5.10617103823903	1.59853297088038	-0.57261375078317
H	6.02213629184674	1.06168224683884	1.66193499498542
H	2.62756953585583	-0.37021423536806	3.37279078828975
H	0.61494487474348	-0.81800385892958	1.59798349498199
H	2.29615170529744	1.00482870140801	-1.64980052125942
C	-1.43252807225579	-3.22157055853416	-2.79688434609571
C	-2.31586648831629	-4.26982657452595	-2.84218939048882
C	-3.14184451101577	-4.18405815518335	-1.69493148092347
C	-2.74120476498635	-3.08523504954281	-0.97694562134716
N	-1.71218519592305	-2.51168311544843	-1.66616444497539
C	-0.34750754604724	-2.81339998276572	-3.76279458205380
C	-3.19962694662522	-2.58013011452798	0.36850590643066
C	-3.74822665527155	-1.17575326724804	0.29436507687881
C	-5.02310025449111	-0.69973764451674	0.46839064679768
C	-4.96546740235783	0.71585724881664	0.41585547206588
C	-3.65636080127877	1.06799929637229	0.21217618090225
N	-2.93833913105855	-0.08860467987416	0.12942011454847
C	-2.99062327864766	2.42004184162457	0.11510756231112
C	-2.71115064270773	2.76795400845822	-1.32641666042693
C	-3.26805492036634	3.73507168659163	-2.12488176762548
C	-2.67191212017498	3.62947096673290	-3.40478344764415
C	-1.76486463749468	2.60153052502494	-3.35805163347660
N	-1.81233865067794	2.08577976753274	-2.09503652360322
C	-0.76969922627079	2.13339506852062	-4.39152646716793
C	-0.96208695982047	0.67854970858939	-4.74260772623430
C	-1.36566526989109	0.07911684558012	-5.90906420316764
C	-1.22978643923893	-1.32313024360004	-5.74166737390229
C	-0.74728843852976	-1.54293946156117	-4.47705423268360
N	-0.61175430512914	-0.32227777227003	-3.88425794482828
C	0.66651674218666	2.37381877281847	-3.89513853708478
C	1.00109060044575	-2.60585773271872	-3.05560094359974

C	-2.05226229098557	-2.63669739686710	1.38778511092273
C	-1.72432623110368	2.42025608575247	0.98514536213156
C	-3.93039961336626	3.48755442086832	0.69505239875400
C	-4.29597234316678	-3.51480994055446	0.89733464905644
C	-0.15860508739650	-3.93379218386438	-4.79378671822203
C	-0.94595960974650	2.97584127460414	-5.66195028085812
C	-1.79206024724664	1.85929042435821	2.26070936611341
C	-0.69918266401545	1.90266242939425	3.10451841054743
C	0.49723287809329	2.48227191077338	2.71222224806407
C	0.56720725286438	3.03402411137410	1.44403426946770
C	-0.53055631905588	3.01337858396753	0.59231439901647
C	-1.01041773802055	-3.55088868524290	1.25864970716379
C	-0.02243623838563	-3.64034614124311	2.22790174824815
C	-0.04721450521649	-2.82431113820256	3.34876223611192
C	-1.09574081868014	-1.92583157705931	3.48207414356179
C	-2.08525068741442	-1.82454325528581	2.51906801995065
C	1.97180547936121	-1.82094236758718	-3.68062407140022
C	3.20710281225307	-1.60247625116531	-3.08945018997850
C	3.49556694083906	-2.19451466103890	-1.86093913602040
C	2.54666034231866	-2.99487150411351	-1.25624958030887
C	1.30431724469303	-3.20744200826284	-1.84355995599996
C	0.95119353432964	3.39178979608385	-2.99016779296177
C	2.26019289465363	3.63643178824561	-2.60035147021456
C	3.30600853875343	2.87650227553737	-3.09699694993451
C	3.03360112282235	1.88290235018363	-4.03075381528068
C	1.72277599009356	1.63119061913828	-4.42165295354650
O	-0.85420058194246	1.40985747655586	4.39013689924832
O	-1.21057648534895	-1.13660371514372	4.61084573795102
O	4.11224652533867	1.24701442381041	-4.56843331517909
O	4.20393906729940	-0.84114940266040	-3.61013544680123
C	4.08548074934614	-0.12321278653222	-4.80232569533741
P	-0.17927364012378	0.06081868840773	4.94175136453789
C	-0.38846469174928	0.24630178932294	6.70126638528742
O	1.17811010166065	-0.20672059191490	4.40886757975928
C	-0.41490437266046	-0.89471490548943	7.50124184885621
C	-0.52274394477099	-0.77249953933261	8.87588407563024
C	-0.60268927938967	0.48450044127252	9.45779504967367
C	-0.57180499013387	1.62125801703188	8.66469729577321
C	-0.46251051183748	1.50730211298013	7.28822655295801
H	-2.37887890310837	-5.02047574945263	-3.61221260643643
H	-3.93711382319948	-4.86428224331319	-1.43779546552239
H	-1.16238107512004	-1.72992743802419	-1.34100137491720
H	-5.90934493592771	-1.29221089839709	0.62601548604740
H	-5.79843588863848	1.39210207094653	0.51637801099377
H	-1.93339857486638	-0.11986941463255	0.04173030303907
H	-4.02735924009638	4.44343488299355	-1.83778550493613
H	-2.88824481431306	4.24930383340359	-4.25914094033993
H	-1.21157704210148	1.35369364481490	-1.74624394986454
H	-1.71640496982576	0.58155600039995	-6.79549445467787
H	-1.46117890130818	-2.07679943320404	-6.47638572899651
H	-0.18732302931893	-0.18709948133541	-2.97867823963320
H	-4.86342036337984	3.53433189879795	0.13456532424552
H	-4.17065496316630	3.26899802749959	1.73426077394153

H	-3.45728798440239	4.46770607443844	0.65323963843467
H	-3.90989029536355	-4.52666966405104	1.01045240549932
H	-4.64771884623360	-3.17831953406785	1.87146270543305
H	-5.14607947939586	-3.54423866240194	0.21675703542859
H	0.63423885118772	-3.68226366471039	-5.49673496398465
H	0.11416101484002	-4.86243142754488	-4.29431432103569
H	-1.07219474295836	-4.10680905076223	-5.36271295493770
H	-1.95220364878929	2.86795069969358	-6.06657529728608
H	-0.23107541515288	2.66931224151885	-6.42424895415588
H	-0.77298944208954	4.02914561719059	-5.44584593806188
H	-2.71354772332005	1.40658151889172	2.60707402025151
H	1.34480909472174	2.51207667559789	3.38356411863977
H	1.48965348840099	3.49430401424181	1.11416487441181
H	-0.44759998491070	3.46502441856716	-0.38573317501838
H	-0.98712036286292	-4.21439864227884	0.40456147209135
H	0.77643401592279	-4.36154020757883	2.11616487128504
H	0.72172097930528	-2.90009659577145	4.10496953290734
H	-2.89669787793616	-1.12258577038060	2.66801013576057
H	1.72181961536061	-1.38544484988273	-4.63780245904671
H	4.45932056220088	-2.01883326192266	-1.40128791491385
H	2.77525315121402	-3.45877475837849	-0.30511963482542
H	0.57969962741185	-3.84055724593547	-1.35113394950822
H	0.14926841469231	4.00654617563194	-2.60177690803061
H	2.46942941107539	4.42627493727171	-1.89048345794045
H	4.32479888752165	3.04505154036302	-2.77913513861447
H	1.50912986874704	0.87691575739494	-5.16985853530937
H	3.21413950188120	-0.42992274244707	-5.38751909056699
H	4.98085394415712	-0.32408231936484	-5.38942399974376
H	-0.36394642965374	-1.88077244232117	7.05836473774333
H	-0.55009724504650	-1.65996735167801	9.49317237457377
H	-0.69114905329113	0.57801912627254	10.53190465491653
H	-0.63784647771911	2.60218873879571	9.11547804809794
H	-0.44596161538980	2.40129526176152	6.68039730484857

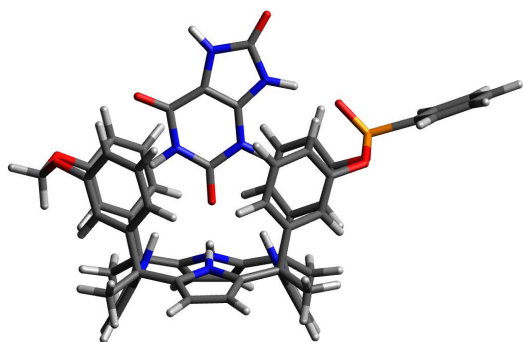


*Complex 2a (lower rim)*,  $E_{tot}(\text{Hartree})$ : **-3690.798363279659**

C	-8.524728740	2.712338527	2.700182003
C	-8.649879873	1.660656322	1.824192758
C	-7.344603155	1.303353537	1.397380093
C	-6.459603893	2.146763076	2.026844582
N	-7.196891650	2.990348011	2.798901837
C	-9.574741806	3.437747177	3.510026961
C	-4.956318238	2.242749307	1.927344565
C	-4.295290679	1.825041802	3.219922551
C	-3.629681784	0.672702458	3.555205102
C	-3.161640732	0.820264975	4.885441261
C	-3.554628702	2.059516094	5.323765612
N	-4.230338957	2.650555292	4.301279394
C	-3.332484558	2.764632331	6.642847015
C	-4.528823447	2.559485239	7.544316880
C	-4.669810420	1.750787390	8.647628908
C	-6.013442904	1.864242070	9.090626434
C	-6.655410215	2.741083539	8.246258088
N	-5.737533884	3.147919095	7.327965591
C	-8.070066913	3.273716669	8.284817286
C	-8.852320773	2.841855715	7.067766492
C	-9.869160089	1.929372936	6.925767828
C	-10.308053659	1.983854769	5.578053419
C	-9.545995323	2.928048502	4.935698250
N	-8.677045471	3.429780514	5.853572730
C	-8.068703617	4.805343728	8.406006998
C	-9.376232639	4.961038067	3.505958724
C	-4.520326693	3.662215395	1.546027647
C	-3.015964618	4.244580746	6.383639241
C	-2.099552227	2.160594570	7.331611925
C	-4.471364829	1.320202736	0.799651138
C	-10.953644082	3.147950509	2.901527036
C	-8.764719896	2.731188265	9.541541879
C	-2.112916081	4.563121839	5.367943119
C	-1.749488680	5.875500842	5.136016419
C	-2.270383941	6.915520323	5.890237931
C	-3.165268286	6.601325641	6.898358307
C	-3.529674947	5.284076555	7.149998394
C	-5.359782280	4.521301861	0.842812707
C	-4.921289217	5.778662867	0.453112729
C	-3.638471073	6.211230104	0.751186518
C	-2.798750332	5.344435631	1.435557563
C	-3.225322410	4.089632207	1.831951601

C	-9.992683113	5.712879649	4.509092564
C	-9.829914853	7.087737804	4.580761861
C	-9.063840130	7.740382730	3.616066980
C	-8.497391587	7.005836977	2.593926270
C	-8.647991767	5.624866532	2.529532996
C	-7.016659945	5.477251118	9.020907149
C	-7.061376569	6.856302355	9.171551356
C	-8.145857142	7.588498621	8.718413053
C	-9.219749351	6.919021116	8.140407654
C	-9.178205829	5.538113008	7.984541663
O	-0.798222656	6.120064183	4.158687394
O	-1.488851919	5.694221553	1.705301531
O	-10.298871973	7.682278988	7.814302638
O	-10.378696544	7.895355961	5.525230618
C	-11.036152107	7.425364761	6.662932459
P	-1.103051188	6.852387869	2.760496332
C	0.530712212	7.311570850	2.220632045
O	-2.145388385	7.902866056	2.844749006
C	0.777160682	7.458996508	0.856746514
C	2.021533304	7.881560323	0.421630890
C	3.021978178	8.160282519	1.341343053
C	2.778262683	8.017787624	2.698708844
C	1.535206077	7.596441748	3.142466682
H	-9.569771634	1.200681136	1.502702788
H	-7.101570476	0.531732545	0.684702663
H	-6.816061670	3.681606459	3.428079079
H	-3.474780338	-0.181224239	2.915955148
H	-2.586179221	0.098060909	5.441189328
H	-4.699080113	3.540219800	4.382629304
H	-3.896268814	1.163652515	9.114338057
H	-6.438124349	1.395236739	9.963540698
H	-5.939421802	3.744907422	6.537432460
H	-10.283338648	1.308236673	7.703084630
H	-11.102182994	1.398065327	5.144209144
H	-7.978097253	4.126027545	5.641892693
H	-2.242518380	1.100702159	7.538989588
H	-1.220896121	2.256166185	6.696228710
H	-1.900322121	2.669938370	8.273688163
H	-4.902263146	1.624185624	-0.153023208
H	-3.386839555	1.366517451	0.712601732
H	-4.754269812	0.285259491	0.987626302
H	-11.735217474	3.649099613	3.469980631
H	-10.997926801	3.502605326	1.872714747
H	-11.171476519	2.080315262	2.904198435
H	-8.786772429	1.641128947	9.542089430
H	-9.790988882	3.091234065	9.593636919
H	-8.244742274	3.064857073	10.438689935
H	-1.673262059	3.779189388	4.763435277
H	-1.982377298	7.940398046	5.698451260
H	-3.587249162	7.394577887	7.501812342
H	-4.223102497	5.078271001	7.952239573
H	-6.361379933	4.203676394	0.586490656
H	-5.586521250	6.432567837	-0.095412096

H	-3.296752118	7.189180536	0.442195821
H	-2.534019514	3.437744409	2.351023221
H	-10.602259477	5.183717806	5.228053576
H	-8.933714247	8.813005700	3.675825660
H	-7.918672447	7.514329024	1.833217458
H	-8.194556885	5.079173395	1.714932114
H	-6.163265846	4.924340876	9.391589290
H	-6.232488971	7.373226158	9.637442601
H	-8.172832604	8.665085670	8.808020849
H	-10.018173835	5.003426057	7.559037557
H	-11.317459280	6.372941912	6.580336071
H	-11.943844303	8.016677041	6.772686335
H	0.008278450	7.234644580	0.129304943
H	2.211894936	7.988606233	-0.637434668
H	3.994277773	8.487584358	0.998290684
H	3.558681901	8.231015451	3.416312131
H	1.360003890	7.481928771	4.203262105
N	-7.734256682	-4.127904844	5.338239919
C	-7.309820963	-4.070985464	6.645628298
O	-7.265491075	-5.027189394	7.379259683
N	-6.930009284	-2.805133342	7.059630998
C	-6.992392862	-1.746819519	6.207561960
N	-6.661671392	-0.455806929	6.444071296
C	-6.877855117	0.303967807	5.283636503
O	-6.679111313	1.485798125	5.171197105
N	-7.344773375	-0.587280678	4.367113841
C	-7.420525306	-1.854560756	4.923939015
C	-7.837366793	-3.101684396	4.378945547
O	-8.236545465	-3.328271750	3.259775460
H	-8.012642642	-5.046809983	5.023950465
H	-6.605645291	-2.716355079	8.008420645
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H	-7.600675990	-0.316165437	3.428845016



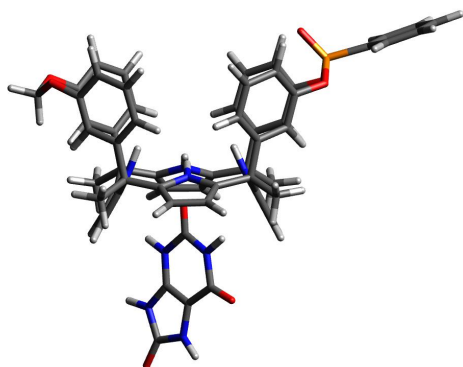
Complex **2b** (upper rim),  $E_{tot}(\text{Hartree})$ : **-3690.832240972805**

N	-2.39509353624438	0.19154054740459	-1.05960523343503
C	-1.27380839341192	0.13362746098483	-0.29414430237714
O	-0.14834650261678	0.00662137865407	-0.76900559404278
N	-1.47501712814892	0.22690756048430	1.05421846727608
C	-2.73597389773952	0.34964713822782	1.55136104839389
N	-3.11711717250355	0.43007229390205	2.84270608289649
C	-4.51414862561522	0.54603736390907	2.91625406910928
O	-5.18088552401842	0.63282251266817	3.91471549987946
N	-4.92269114338665	0.53654548605147	1.60542268783346
C	-3.83398703181573	0.41215641640098	0.75802414141504
C	-3.74051061803820	0.34737491389441	-0.65599454627896
O	-4.64005289247825	0.40544638144598	-1.46172537307703
H	-2.25263835410807	0.11911549559729	-2.06026437682578
H	-0.67174344958795	0.20416309099856	1.66659292747596
H	-2.49274275846299	0.37956601623765	3.65540681780348
H	-5.88359199660083	0.60072162058640	1.32047671011038
C	1.96457753047405	2.81543557815453	-2.96227683242374
C	2.82700119114855	3.87548740463226	-2.84624896775564
C	3.44625209249863	3.78680290825097	-1.57593241591578
C	2.94724776203174	2.67394323312417	-0.94730972265573
N	2.05192690118977	2.10025914610779	-1.80326658384887
C	1.04357249005397	2.42247265649096	-4.08883138911864
C	3.24071686940878	2.12024433783648	0.42291492032131
C	3.65041244473866	0.66792391680169	0.35702289239261
C	4.88927190966586	0.08214428020849	0.39907708005533
C	4.70111517361332	-1.32252425639593	0.40999544426500
C	3.35157335189569	-1.56137805207164	0.37424027116797
N	2.73299541136957	-0.34388572797393	0.32016344283445
C	2.57173855029115	-2.85308149853651	0.43986463608235
C	2.16280307636126	-3.31032693157035	-0.93601050750209
C	2.33713718822841	-4.52218179504306	-1.55485978942763
C	1.75045378380322	-4.43411760868723	-2.84000158986056
C	1.23197680345475	-3.17097338795463	-2.97517367746835
N	1.49260382765811	-2.50706430829661	-1.81219507568938
C	0.45385118596176	-2.55463499465212	-4.10959213727211
C	1.05209871408419	-1.23404540967218	-4.53356303452162
C	1.85402393280767	-0.90584149204315	-5.59591759856647
C	2.01893873161383	0.50325984161342	-5.59238016374245
C	1.31384067760993	1.00190585356540	-4.52834049423911
N	0.76351667338919	-0.06858515973360	-3.88092252412267
C	-1.02429858304558	-2.35947343031302	-3.73372006009313
C	-0.43442494518447	2.55721071804416	-3.69148384188200

C	2.04576515559950	2.27073209046769	1.37433769918395
C	1.36421651908664	-2.67017199731795	1.36870802954564
C	3.45622817304614	-3.94009065350003	1.06938250182327
C	4.39333228493062	2.92812468455921	1.04035516086702
C	1.28686899075770	3.37033573877311	-5.27288010455891
C	0.48690142189379	-3.52040941386948	-5.30369907506500
C	1.55594003874982	-2.05583005702129	2.60615242791261
C	0.51092595016560	-1.95147168753046	3.50549644254399
C	-0.75335920880326	-2.43705590707686	3.20385702576637
C	-0.94455055907252	-3.03506045197374	1.96915630053724
C	0.09961485235258	-3.15641037876739	1.06114760913789
C	0.98326633658949	3.12756350954598	1.11337873967345
C	-0.02882895773972	3.30421680838319	2.04799470038320
C	-0.00320051144017	2.64329796165604	3.26557273240421
C	1.05951733824779	1.78836279934484	3.52145693652504
C	2.06474940798337	1.59196548515391	2.59285877274507
C	-1.40333880875900	1.98045516121300	-4.51614837860378
C	-2.75475969401409	2.10967057291754	-4.22890257881089
C	-3.15768982253507	2.82895890502068	-3.10739391542302
C	-2.20069123940734	3.41881756627980	-2.30501123315061
C	-0.84552327008496	3.28697151999037	-2.58572136298338
C	-1.61114020446158	-3.04969421872133	-2.68276004020667
C	-2.97210548317673	-2.91378613327192	-2.43592863923214
C	-3.76016362954478	-2.08910801501405	-3.21434584067336
C	-3.18049400696753	-1.39404316620063	-4.27242630963438
C	-1.82339138857785	-1.53559551131649	-4.53013985279556
O	0.78257317973371	-1.40087226039702	4.74683440761344
O	1.18195144123365	1.14967756080552	4.74348236416202
O	-4.03290077830584	-0.65860148483581	-5.03416504598754
O	-3.75153394388071	1.63353661763966	-5.02334442840430
C	-3.61478773452595	0.45701863821246	-5.75501203118082
P	0.16892349213146	0.00173857485348	5.24576154057626
C	0.49352586816362	-0.04794375003221	6.99478587998668
O	-1.22784928630405	0.22747661632587	4.80332719878344
C	0.71902270106571	1.14016959571762	7.68681477706398
C	0.88443648804366	1.11658927011316	9.06157547309614
C	0.82202058231624	-0.08681802202709	9.74857804822349
C	0.59645222988771	-1.27042591207197	9.06173968080437
C	0.42929879403050	-1.25541396195929	7.68667307720612
H	3.00578807552246	4.63338469966764	-3.59067573556709
H	4.18561656667345	4.46360129812192	-1.18081695421992
H	1.49951888001173	1.28439693799766	-1.59755132807492
H	5.83498733834162	0.59849166261877	0.43086383586502
H	5.47861369667419	-2.06794814620138	0.44491678148665
H	1.73317672293967	-0.20799732232196	0.34907133499220
H	2.83613359970545	-5.38365776893181	-1.14335935871123
H	1.72199867580053	-5.21765771910549	-3.57815268247844
H	1.18982601454462	-1.56895598061151	-1.60861767728049
H	2.27545376886053	-1.59319049391900	-6.31106045895565
H	2.58367969325767	1.08172682708112	-6.30498015699724
H	0.08667877779319	0.00696537962747	-3.13867289634942
H	4.32616057660273	-4.14591998618711	0.44719585882325
H	3.80727737831249	-3.63197581316238	2.05288262247223



H	2.89458027759977	-4.86516181350899	1.18886417184304
H	4.09848116409773	3.96706882958473	1.17988844759719
H	4.66468355464347	2.52007859494067	2.01224533798121
H	5.27420585389334	2.90429575533963	0.40001518186214
H	0.65083178985834	3.10312322768100	-6.11509906203807
H	1.05582293365004	4.39605488920960	-4.98826762837210
H	2.32439008699305	3.33107126973754	-5.60456477382180
H	1.51052843031691	-3.73637967197461	-5.60911621306979
H	-0.04165614200473	-3.09492171097880	-6.15483453224462
H	0.00045280151768	-4.45927211949672	-5.04374643357364
H	2.53150224417946	-1.67206689109527	2.87974443663987
H	-1.56119004696738	-2.36408736457639	3.91826476361878
H	-1.92411088039458	-3.41677468774042	1.71279139667036
H	-0.07245056533325	-3.64411368364438	0.11167921055337
H	0.95265288280375	3.67454827677611	0.18098365532667
H	-0.84892133606945	3.97534628879002	1.82947477880352
H	-0.78297864812289	2.79588363489066	3.99883069666994
H	2.88243248460756	0.92157897270209	2.83058327994794
H	-1.07146015645549	1.46137020062225	-5.40731162542895
H	-4.21110283290535	2.91441373750359	-2.88081770414117
H	-2.51436376190643	3.98775097799874	-1.43930013309397
H	-0.11606601277419	3.77292449447422	-1.95234786313893
H	-1.01409398835043	-3.71048938304298	-2.06910962801191
H	-3.42488952724929	-3.45619507962034	-1.61598166513174
H	-4.81432053941821	-1.96378589054336	-3.01215057795840
H	-1.36312865822561	-1.03521135767563	-5.37291959467836
H	-2.60585129991406	0.33427708737972	-6.15737657241262
H	-4.30945157037796	0.54603014680591	-6.58763244854220
H	0.77582541209722	2.08288290015555	7.15937987767324
H	1.06487040414706	2.03904521391294	9.59676094202690
H	0.94930569043766	-0.10246164170579	10.82288638771987
H	0.55131397979328	-2.20873171299837	9.59797130606191
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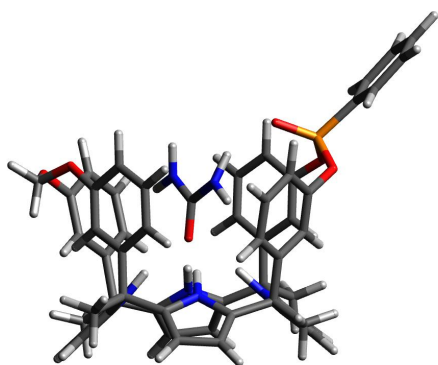


Complex **2b** (lower rim),  $E_{tot}$ (Hartree): **-3690.832240972805**

N	4.877432219	-1.773257503	-1.327781699
C	3.925537279	-1.980688917	-2.275111086
O	2.847324374	-1.392800043	-2.263627956
N	4.233217212	-2.912746875	-3.225831503
C	5.419832733	-3.577218464	-3.174364644
N	5.873596216	-4.535741776	-4.007816600
C	7.147556547	-4.956265564	-3.594610955
O	7.833305487	-5.799979904	-4.111224434
N	7.412620735	-4.189888657	-2.486602197
C	6.352002742	-3.340175995	-2.218439102
C	6.147598777	-2.378687456	-1.195628200
O	6.904591814	-2.072725020	-0.303944796
H	4.653474704	-1.085822898	-0.617757557
H	3.564670565	-3.093226984	-3.961522133
H	5.359512016	-4.929303542	-4.803871465
H	8.259506067	-4.258190566	-1.951099332
C	1.763948987	-1.277745857	-5.354710327
C	2.571945697	-1.040642900	-6.437239964
C	3.303790399	0.142737089	-6.174455081
C	2.925258849	0.599144880	-4.937105388
N	1.992446872	-0.274729963	-4.457960736
C	0.771750592	-2.382946779	-5.098061580
C	3.368082958	1.822470404	-4.177103002
C	3.851843469	1.467954346	-2.790841497
C	5.120746974	1.310668469	-2.296044408
C	5.013914255	1.085451766	-0.900881309
C	3.682062503	1.110428708	-0.576628690
N	2.993340615	1.321295781	-1.738113847
C	2.985157278	1.003991320	0.759013799
C	2.484107980	-0.396192878	0.999363192
C	2.671907298	-1.232462585	2.070504369
C	1.971193730	-2.432973679	1.803454237
C	1.372368541	-2.301144172	0.575996470
N	1.695646083	-1.061732989	0.106345012
C	0.464572242	-3.245121802	-0.170374649
C	0.947947225	-3.471292874	-1.583457644
C	1.634202071	-4.516031889	-2.146461875
C	1.718931000	-4.274076382	-3.541830828
C	1.082416439	-3.087747244	-3.797690008
N	0.652091641	-2.601450541	-2.595070521
C	-0.983758110	-2.729217266	-0.192198847
C	-0.671139366	-1.856749151	-5.056824910

C	2.254203819	2.873536371	-4.075638408
C	1.854972529	2.039636967	0.825616493
C	3.981233549	1.360695606	1.872924771
C	4.522733365	2.484504169	-4.945815648
C	0.856773941	-3.394214115	-6.251195733
C	0.447712894	-4.591175695	0.569597381
C	2.119023803	3.348512381	0.422423435
C	1.152326603	4.328868387	0.549558782
C	-0.104014017	4.042560518	1.064176490
C	-0.368219292	2.739246774	1.451756555
C	0.597836962	1.747427751	1.339875661
C	1.126274641	2.850940622	-4.887074542
C	0.191314202	3.876276745	-4.827198998
C	0.360475920	4.951109625	-3.969244807
C	1.488072619	4.969047875	-3.160564406
C	2.417847964	3.946620114	-3.199516276
C	-1.674238765	-2.694876161	-4.564029459
C	-3.000542453	-2.287302678	-4.545386405
C	-3.343973107	-1.028260444	-5.029512542
C	-2.355410537	-0.208753169	-5.538186669
C	-1.024660692	-0.610668274	-5.553381491
C	-1.436640722	-1.776501067	0.709207816
C	-2.776344687	-1.406658722	0.714966587
C	-3.674697496	-1.963507070	-0.173821987
C	-3.229843486	-2.921800648	-1.080709314
C	-1.894612775	-3.303030872	-1.082530442
O	1.499808950	5.624131674	0.203985453
O	1.752647356	6.044844602	-2.330554346
O	-4.185698307	-3.473290930	-1.874382863
O	-4.034395761	-3.075735940	-4.144237270
C	-3.895829618	-4.013534623	-3.124646854
P	0.853827684	6.410133441	-1.044101404
C	1.332226614	8.092505892	-0.715957264
O	-0.586760928	6.122488014	-1.243210834
C	1.549821861	8.965940881	-1.779503111
C	1.835734904	10.297890240	-1.530406018
C	1.901637381	10.762248048	-0.224999536
C	1.684169802	9.894713354	0.835022666
C	1.396983859	8.561069738	0.594413578
H	2.641934797	-1.649550222	-7.323173184
H	4.035419477	0.594724199	-6.823499502
H	1.507089344	-0.176252176	-3.581698944
H	6.034940440	1.361935053	-2.864924654
H	5.832354599	0.927805593	-0.217739073
H	1.993793210	1.449880069	-1.795644724
H	3.252800357	-1.020160606	2.952525911
H	1.922688995	-3.294566032	2.447595324
H	1.359296044	-0.671871897	-0.758549418
H	2.029717694	-5.372120506	-1.624771603
H	2.185696404	-4.913068182	-4.273387179
H	0.039481219	-1.808338317	-2.492926493
H	4.803736281	0.647483313	1.905815525
H	4.398866979	2.353769608	1.715352143

H	3.485324303	1.355820381	2.842218911
H	4.182977520	2.828894643	-5.921404099
H	4.900543211	3.344667451	-4.396195337
H	5.344251274	1.785072812	-5.095633720
H	0.165726457	-4.219728318	-6.089151619
H	0.593894621	-2.914698908	-7.193239228
H	1.861918021	-3.805494903	-6.343607510
H	1.451314449	-5.007109168	0.656305503
H	-0.176347364	-5.310208541	0.041975348
H	0.039642130	-4.466414366	1.571387618
H	3.091509861	3.611116699	0.023477061
H	-0.849192589	4.817857508	1.173341319
H	-1.343293000	2.494212307	1.851952156
H	0.371333648	0.742140211	1.667052178
H	0.983497490	2.035972387	-5.583444827
H	-0.681326608	3.843804466	-5.466073644
H	-0.359653409	5.756950373	-3.937026628
H	3.289727797	3.998248830	-2.557880350
H	-1.392666560	-3.686867954	-4.231713426
H	-4.376711825	-0.710660831	-4.999520827
H	-2.623914164	0.765764484	-5.925165393
H	-0.271296004	0.041820114	-5.973048888
H	-0.751911442	-1.337581831	1.422073145
H	-3.124422224	-0.664441333	1.421712137
H	-4.712557492	-1.662668002	-0.187157419
H	-1.538717224	-4.075703723	-1.752469841
H	-2.920572336	-4.506854484	-3.145242754
H	-4.664470603	-4.761715367	-3.306729970
H	1.506999077	8.612114565	-2.800823649
H	2.009820792	10.973552739	-2.356892039
H	2.122940273	11.803747603	-0.032936167
H	1.739113059	10.257068134	1.852706234
H	1.231885842	7.892444504	1.428175288

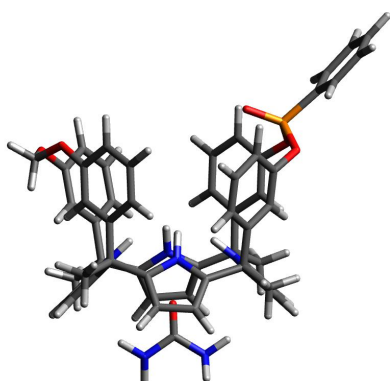


Complex 3 (upper rim),  $E_{tot}$ (Hartree): **-3279.271963056833**

C	-1.43651445178121	2.35222737792888	-3.35925069484417
C	-1.45574856342502	3.68711317742936	-3.67726282165032
C	-0.95363150200574	4.40148337219274	-2.56265388984506
C	-0.63982303492560	3.48521182376169	-1.59073275410949
N	-0.93142208383177	2.25090579506864	-2.09492552584275
C	-1.96405780572277	1.15986691047320	-4.12286400835105
C	-0.07500301163669	3.69024943725407	-0.20495752056192
C	1.37617460046617	3.27855949339254	-0.15131530498323
C	2.50990653261998	4.02841583338008	0.02776111528343
C	3.60803116128989	3.13515204128202	0.07810606197571
C	3.11821590918804	1.86197024842154	-0.07229899697608
N	1.76402043179341	1.97205313269866	-0.21814565848723
C	3.83355654494738	0.53448446679777	0.00040059783484
C	3.71220001103597	-0.26052846125818	-1.27888726135912
C	4.68388169171700	-0.70261476207216	-2.14228170631676
C	4.05915896186201	-1.53501090789554	-3.10347261469466
C	2.72132671633854	-1.58130242924006	-2.80244692235401
N	2.53111922670731	-0.79809456113382	-1.70237077406027
C	1.58214838275632	-2.31637241076888	-3.47002648224263
C	0.72096659931484	-1.35101024162887	-4.24941606360314
C	0.54001092836134	-1.19039643600479	-5.59956169291620
C	-0.45800519889329	-0.19949451387314	-5.77988938024250
C	-0.86027316274286	0.21636343137008	-4.53449851915603
N	-0.12131655916280	-0.48066675728531	-3.62431269549597
C	0.73343784146915	-3.06623377145321	-2.43019478922834
C	-3.02165252119404	0.42672654302264	-3.27927947499840
C	-0.88108678708592	2.92822011019334	0.85620186076398
C	3.31539921290417	-0.30235398028567	1.18233645023062
C	5.32133718103362	0.79848311144813	0.27335384088712
C	-0.18417106680458	5.17957303023423	0.15308507496937
C	-2.67869791582920	1.65841389018703	-5.38654030923492
C	2.15783261403595	-3.36321370347344	-4.43056100492888
C	2.72100078336705	0.29794485611325	2.28933356472478
C	2.29195041981963	-0.47339034727562	3.35799337377003
C	2.46265386919056	-1.84675493461577	3.36927956544548
C	3.08222416906398	-2.44328176109543	2.28085930159232
C	3.49275605621660	-1.68571855236953	1.19470655149073
C	-2.23763357138582	2.66525220087332	0.69440753029755
C	-2.95698231064752	2.02105836933391	1.68975072899342
C	-2.34618213015581	1.62784795605984	2.86941633324300
C	-1.00407635294187	1.92052280377736	3.03960536860722
C	-0.27545417740065	2.56058552957515	2.05497165561323

C	-3.21700984748066	-0.94616925821495	-3.41489392489563
C	-4.20770473352074	-1.59843157207618	-2.68983407998940
C	-5.02527188616099	-0.87750595781082	-1.82738368259976
C	-4.85512476584226	0.49302327094893	-1.71671456854455
C	-3.85922217930792	1.14453152425478	-2.42941009307024
C	1.30560907554145	-3.59750740366022	-1.28099291522103
C	0.51334677597132	-4.26657774086672	-0.35983761674433
C	-0.84560924798398	-4.41641073577608	-0.56140645032068
C	-1.42285291160829	-3.90646314771891	-1.71940420106411
C	-0.62811717776661	-3.25710847061637	-2.65342190629086
O	1.70700190572219	0.15385783719003	4.44078655869984
O	-0.37736175367142	1.63658624740641	4.23858281130016
O	-2.76854542183224	-4.07966457540326	-1.82497677044138
O	-4.49007309247251	-2.92565774849623	-2.80629003442504
C	-3.47995323469937	-3.86108042169958	-3.00648493865090
P	0.11008333310384	0.17114260280186	4.69598557453283
C	0.02772537961579	0.30679922691599	6.47500148898354
O	-0.62067180175685	-0.95231575144414	4.06837689871266
C	-0.99871921762625	1.03464100973752	7.07206681196363
C	-1.12964606007890	1.04503311325462	8.45108343747853
C	-0.24093563764948	0.32946206151653	9.23981090201919
C	0.78271918456814	-0.39666594595024	8.64876357160462
C	0.91853458925566	-0.41003511213907	7.27028846706562
H	-1.79776276608324	4.11822240172768	-4.60354815240086
H	-0.83662358783400	5.47036360169562	-2.49360774305540
H	-0.83112979002041	1.38650190691555	-1.57735467556404
H	2.55967820890211	5.10141758054791	0.11276652429572
H	4.64109550513509	3.40847757883653	0.21503660666151
H	1.11835521614862	1.19646633380895	-0.27934145566699
H	5.73409049853255	-0.46528725190914	-2.09571429812916
H	4.55029247186074	-2.03505579485858	-3.92181894362180
H	1.63419506247896	-0.68614747015696	-1.24703022820024
H	1.06149693538619	-1.71792662222526	-6.38129720247922
H	-0.83204703665859	0.15736020293200	-6.72533587780315
H	-0.27285530974432	-0.47385121727609	-2.62268725042763
H	5.76048932753476	1.40364504600145	-0.51999411893878
H	5.44918531454439	1.32250154634194	1.21960677979427
H	5.86994705936917	-0.14018185029696	0.33208991730733
H	-1.22567874267198	5.49644894572405	0.12330814730588
H	0.19739438889820	5.35978492869517	1.15706281006082
H	0.38305656477069	5.79601774190445	-0.54389607121477
H	-3.09676891839683	0.82021406610466	-5.94161707330071
H	-3.49603627424323	2.32874730984520	-5.12543135255104
H	-1.98971846697555	2.19380384768908	-6.03927660779260
H	2.76662130840780	-2.89765711274750	-5.20526195999619
H	1.35470123950689	-3.91680196777395	-4.91456333339296
H	2.78123882194233	-4.07201265910808	-3.88761745076586
H	2.59705322569123	1.37231924287791	2.32580950185791
H	2.11989409303651	-2.43818268699176	4.20758928967968
H	3.23154442836552	-3.51498239432050	2.27331014524738
H	3.96179615550705	-2.17098173999397	0.34797163031213
H	-2.73864053695861	2.97062856086639	-0.21453459101392
H	-4.00849714858039	1.81361165153037	1.53901503532524

H	-2.90206809421506	1.11903964218435	3.64555187128786
H	0.76549867629017	2.79894953386502	2.23240154414106
H	-2.59546725673869	-1.48495203551668	-4.11893067296493
H	-5.79938979570693	-1.39311179008324	-1.27452125231095
H	-5.50759110150066	1.06039511036353	-1.06505319889400
H	-3.74196839311229	2.21728080751922	-2.34070585364107
H	2.36567409774140	-3.48166397287694	-1.09663709025194
H	0.96099110100131	-4.66004924148024	0.54363930001224
H	-1.46517379485945	-4.92304982792148	0.16678843713534
H	-1.05019537984139	-2.86933263790381	-3.56780047511973
H	-2.82801945830295	-3.60124348443654	-3.84446198406216
H	-4.00374229883438	-4.78440250837629	-3.25652444513560
H	-1.69361765559814	1.60167158972451	6.46759144408794
H	-1.92681513944715	1.61536592827616	8.90876175054349
H	-0.34577671737769	0.33937982612053	10.31676363747908
H	1.48076566347303	-0.95179132975004	9.26083180862200
H	1.72691591454289	-0.97162604908350	6.82162469659568
C	-0.81997250442460	-0.85776200729872	0.22708798463298
O	-0.22943348646350	-0.28363372683540	-0.71756207223415
N	-0.14534394789938	-1.42958555998850	1.22968823207166
H	0.85853542160364	-1.41996779728911	1.18166320664381
H	-0.53554871548805	-1.53213844722579	2.15693836521181
N	-2.15616307844352	-0.92753414451145	0.26421410386601
H	-2.70619819573744	-0.47424822962922	-0.44463892171831
H	-2.63692818638096	-1.47640756396952	0.95176712141835



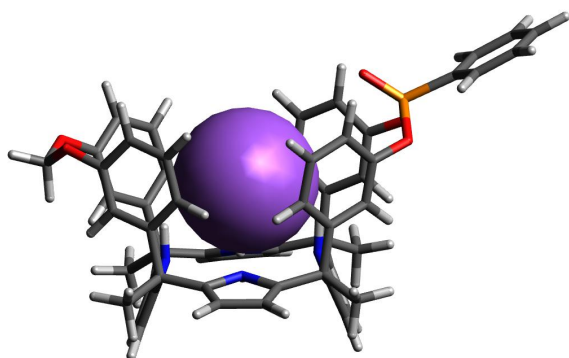
Complex **3** (lower rim),  $E_{tot}$ (Hartree): **-3279.233186658998**

C	-1.70087152716034	2.09176752795252	-3.12290410972413
C	-1.47391388839171	3.36048134948376	-3.58754801577661
C	-0.89504003382011	4.10892573845013	-2.53443265448103
C	-0.78052612123909	3.28274956045590	-1.44735680120565
N	-1.26306668698888	2.06167050061564	-1.82885104696326
C	-2.29380492232225	0.88622662273384	-3.81593308751480
C	-0.20052920629844	3.56171605426883	-0.07788870142065
C	1.25547927725133	3.15932112790282	-0.04004145855503
C	2.39857179384547	3.91593477105134	0.01248780191090
C	3.50111062347436	3.02266858572151	0.07349213024816
C	3.00038039983594	1.74426513178026	0.05911404901479
N	1.64547395013402	1.85573433716539	-0.00136874830804
C	3.70182546812471	0.41105638016640	0.13918179779531
C	3.49699566934850	-0.36524678849734	-1.14044497014821
C	4.32435684224652	-0.53600926029312	-2.21894762643816
C	3.65841782981523	-1.37786127017540	-3.14214184675817
C	2.44051509698225	-1.70438995919374	-2.60763933907836
N	2.35364809130858	-1.06443243707795	-1.40355791394583
C	1.31091220394473	-2.51916168327380	-3.19945762087350
C	0.40430840138329	-1.60272599206311	-3.98373028935598
C	0.21338184618325	-1.44350524157607	-5.33270236579471
C	-0.80355110644472	-0.46626020446039	-5.50610843801554
C	-1.20331738278838	-0.05798389914272	-4.25657425285737
N	-0.45865833127636	-0.75830288591277	-3.36122770007152
C	0.50920655230421	-3.25903237697582	-2.11962890738188
C	-3.29034092357464	0.15981851836228	-2.90112359405108
C	-0.97482773629174	2.84591481034778	1.03584703239238
C	3.20177284281073	-0.39567747567336	1.34319326399990
C	5.20342262594565	0.65418808533446	0.34354845892110
C	-0.30543346494063	5.06773635416235	0.20773604144180
C	-3.07993505026420	1.34530921010013	-5.05055400596006
C	1.88717445790632	-3.58194596023365	-4.14494002982063
C	2.63603983404320	0.23103217912839	2.44855824712091
C	2.20989213115603	-0.51330156608409	3.53559574648238
C	2.34193325751955	-1.88998921666890	3.55889680224325
C	2.94017246702217	-2.51242229647592	2.47529084108648
C	3.36689727385745	-1.77831267319070	1.38062565106322
C	-2.33410638729794	2.56850258160845	0.92168454675498
C	-3.01594990143822	1.93414483410619	1.94943762579051
C	-2.37201524270077	1.58603633082664	3.12346906991413
C	-1.03303603941895	1.91233786038720	3.25906241824274
C	-0.33896541449202	2.53121834283447	2.23537244230777



C	-3.47687336481107	-1.21738336047506	-3.00904212371071
C	-4.40879520015356	-1.86860230521119	-2.21222140858200
C	-5.17237552342968	-1.14612139870743	-1.30365431384517
C	-5.01630112031035	0.22541049325809	-1.22339376449336
C	-4.08262870134060	0.87947386786603	-2.01326595369742
C	1.11917521583029	-3.74643391637103	-0.96974893217768
C	0.36341390692399	-4.40834342155860	-0.01114020353323
C	-0.99070773249764	-4.61325133293956	-0.18726849511987
C	-1.60355762837982	-4.16611415642086	-1.35511652660079
C	-0.84980859593543	-3.50525913150147	-2.31450932474303
O	1.68856337398773	0.15499060900861	4.62376579012019
O	-0.37283003991321	1.67928468872835	4.44705818124590
O	-2.93236630836912	-4.42386284793083	-1.44975470741969
O	-4.68504322357497	-3.20071105346541	-2.29496673382698
C	-3.69952252270975	-4.13746295622434	-2.58141087529627
P	0.09430463173358	0.20175733469004	4.92735483383250
C	0.09054665267034	0.39957301950705	6.70795460197758
O	-0.67318605693288	-0.90969981126087	4.34329502531165
C	-0.93180597500744	1.11651437802628	7.32560097925641
C	-1.01460097168343	1.15557299576401	8.70778004280775
C	-0.08162144887812	0.47904672953165	9.47935043031164
C	0.93747126062244	-0.23660606881005	8.86916028153508
C	1.02522100989213	-0.27856451275851	7.48734617309084
H	-1.69135977174875	3.72722114282741	-4.57706699443979
H	-0.58755350924593	5.13998705057973	-2.58571760557723
H	-1.43949328864632	1.30225667644689	-1.19353143435457
H	2.45216894641648	4.99163637237608	0.01974938690918
H	4.54128570800466	3.29577460053404	0.14384294576032
H	1.01812471598812	1.07935895109277	-0.10304898641666
H	5.30841718856960	-0.11530671626062	-2.34224668461633
H	4.03741154009336	-1.69618143655517	-4.09821470218304
H	1.63182957647607	-1.24768176195929	-0.72674732683980
H	0.73898856138449	-1.96718732860275	-6.11349033297263
H	-1.20321135322175	-0.12509398157952	-6.44643867716476
H	-0.50371898328389	-0.64506315922500	-2.36482891692064
H	5.61445022453867	1.24993366551870	-0.47141086088529
H	5.38327295424256	1.18189240968610	1.28036703342476
H	5.74301798205143	-0.29144804817184	0.37595916345253
H	-1.34881812403458	5.37946088460844	0.19522784282458
H	0.11176014268135	5.29671778922796	1.18824462252997
H	0.23520953698076	5.65087008325827	-0.53764257226720
H	-3.54042414293198	0.48969120992407	-5.54346373501386
H	-3.87092216043585	2.03688056960711	-4.76373233370303
H	-2.42820393615123	1.84443318629881	-5.76696006386956
H	2.47444468346609	-3.13059522491597	-4.94438112919410
H	1.08164989950258	-4.15845949953171	-4.59910170723997
H	2.53134173262774	-4.26853771784506	-3.59746860808734
H	2.53723079621316	1.30767405473189	2.48209188458783
H	1.99647001710556	-2.45933026984394	4.41074209442759
H	3.07155331432401	-3.58602508748303	2.48369386926814
H	3.84741141105880	-2.28454831263213	0.55331243884476
H	-2.87299980669662	2.84854734446441	0.02707860363755
H	-4.06336167762207	1.69757744157015	1.82527366412183

H	-2.89729412774949	1.07839017823123	3.92001918781324
H	0.70305411104765	2.78552067221413	2.38373518177183
H	-2.90016539081368	-1.75870407395571	-3.74823577490533
H	-5.89028682209165	-1.66587476085078	-0.68422490869299
H	-5.62547409323387	0.79387037826444	-0.53204547418870
H	-3.98229289455384	1.95563860796488	-1.95485335487642
H	2.18123448144446	-3.61178368953433	-0.81418993291252
H	0.84055835886772	-4.76049637844948	0.89380454518343
H	-1.57978011939295	-5.11936414875232	0.56518221282096
H	-1.29878233209124	-3.16249564110368	-3.23426862408099
H	-3.08693037232246	-3.85554295583931	-3.44119124768515
H	-4.24527702351441	-5.04544603120263	-2.83592051163511
H	-1.66198822892788	1.65023881022362	6.73126071923031
H	-1.81276080961318	1.71205374694692	9.17980571094235
H	-0.15047785042293	0.50791591733314	10.55791169147707
H	1.66680689842072	-0.76619237378381	9.46688699785102
H	1.82941796162786	-0.83262710001864	7.02130838092491
H	3.85319310652441	3.05721753598550	-4.00215300237903
N	3.02129882882264	2.96665983748677	-3.44513742957695
H	3.16101674441676	3.11342177783409	-2.45663289603046
C	2.16130323132690	1.93877012664498	-3.74429732614681
N	2.15317177652179	1.57912522219612	-5.07049155177904
H	2.33603642901980	2.29811435612693	-5.74927571724218
H	1.40373118233361	0.95089970661349	-5.31904411910382
O	1.46563344752889	1.39812893003232	-2.91146141798969

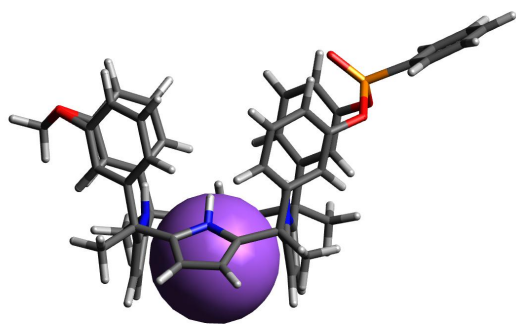


Complex 4 (upper rim),  $E_{tot}$ (Hartree): **-3216.341997015859**

C	-1.92927821205830	2.42297056873917	-2.89150594638183
C	-2.66797621163968	3.56418384320974	-2.72636685558361
C	-2.253321711105239	4.17802471332383	-1.51719464310284
C	-1.26300854304086	3.40411060727386	-0.97745178015401
N	-1.08515991763880	2.33761987596584	-1.81692616879085
C	-2.05458563604603	1.33167361817378	-3.92837852878108
C	-0.56486117789483	3.52229015589666	0.35249334390425
C	0.91461000465361	3.23602222747022	0.21257198855698
C	1.97176487985652	4.05026753439868	-0.08006647308460
C	3.15348982302294	3.25742775635974	-0.05426285293292
C	2.79307887218614	1.97741967757948	0.25984730795812
N	1.41270495850271	1.95514953930354	0.36634569217247
C	3.62296014083578	0.72500137533398	0.42848930025065
C	3.71929299134235	-0.03986431221476	-0.86409589898218
C	4.74640079104217	-0.78574518023217	-1.35136042179213
C	4.27348393315463	-1.47411318510625	-2.50573063776059
C	2.97040313337533	-1.13147059252530	-2.69242860940344
N	2.61009547669191	-0.27596900455183	-1.66192699411261
C	1.97437609578622	-1.64895156395160	-3.69615651762828
C	1.11351075658046	-0.52941939189353	-4.22763808616782
C	1.25286971923692	0.27165233752492	-5.32470853389738
C	0.11430363680710	1.11928407061411	-5.38898224553627
C	-0.69404431107717	0.81866587222473	-4.33007109430612
N	-0.05036779221304	-0.14992624346246	-3.59195198390710
C	1.07915727938351	-2.71520004295360	-3.04177980831848
C	-2.93181126004776	0.18197138348227	-3.38822875215157
C	-1.19274829185811	2.54890065490328	1.36061492345670
C	3.00275218124897	-0.18972853218755	1.49778524602231
C	5.03502300625431	1.09635762819981	0.90960313624238
C	-0.76001284714641	4.94481915176771	0.89879914723968
C	-2.77043012522750	1.89193963673464	-5.16439753633505
C	2.73084193067995	-2.31687166030523	-4.85357686728497
C	2.56232311022022	0.35423305156117	2.70160049481343
C	2.03547698332097	-0.45454995500912	3.69802551480690
C	1.96326073384803	-1.83409138555034	3.54266949528970
C	2.42455723584170	-2.38166102554288	2.35883953193214
C	2.93560582590053	-1.57607306695165	1.34514740932961
C	-2.36010574671053	1.84614513316146	1.08614552373895
C	-2.93281386397101	1.01984492547226	2.04302935607854
C	-2.36670176536835	0.87164895536764	3.29520653160858
C	-1.20061848914207	1.57146956315859	3.56535509309909
C	-0.62242649261586	2.40780973547818	2.62632344856154

C	-2.88911230456272	-1.08293548272834	-3.98529472986674
C	-3.72438735193410	-2.10382345703824	-3.54498135846383
C	-4.62945762552631	-1.86638026445368	-2.51674925483870
C	-4.69655915866421	-0.60776223342246	-1.95266032505649
C	-3.84764960570097	0.40826273710298	-2.36884135740232
C	1.36998840925273	-3.26634602106362	-1.79448610915133
C	0.55229377187747	-4.26234005987202	-1.26080298990217
C	-0.56740259083638	-4.70045415477449	-1.94141739739614
C	-0.85981076558072	-4.16411654113433	-3.19612192161158
C	-0.02587549406553	-3.19371445074739	-3.74246431967036
O	1.61430593905161	0.15219163061229	4.84353027590087
O	-0.59318423842312	1.47999299212782	4.79665048444873
O	-1.92722304885093	-4.68608398900160	-3.82854029524104
O	-3.78385992631968	-3.34937548944111	-4.09310030939487
C	-2.70717179109497	-3.94362810864580	-4.72967733117680
P	0.05040345212877	0.09113817052956	5.32396483911860
C	0.20578004495424	0.40697625196984	7.06618009769029
O	-0.63594054266083	-1.11516902726324	4.82418239424755
C	-0.77165277956659	1.14359057993610	7.73216163536396
C	-0.68660878401964	1.31460135736810	9.10339497526292
C	0.36639554827625	0.75928698626823	9.81251858627216
C	1.33248352457183	0.01675544256956	9.15216304655956
C	1.25777255036555	-0.16094159169254	7.78170264044359
H	-3.44707144066809	3.90417017036123	-3.38686996393687
H	-2.64531243282685	5.07934472394629	-1.07897191186295
H	-0.31179934047736	1.69877726187049	-1.75665699643843
H	1.92189169817143	5.10821793700302	-0.28356643803368
H	4.15546558418950	3.61133041865899	-0.24035152373298
H	0.94826203849447	1.31743757099582	0.99915142023752
H	5.72754103853225	-0.85837992022808	-0.91333008587210
H	4.83098822320936	-2.16665212631346	-3.11141000974037
H	1.93348788436722	0.45756149536202	-1.82166906557832
H	2.07857227478586	0.26077387899302	-6.01606309435276
H	-0.07194059700640	1.86950794451706	-6.13725422666432
H	-0.58402014519694	-0.79765779864305	-3.03284201837552
H	5.56780162806726	1.68268838455904	0.16116642821136
H	4.98018422908632	1.67763342478137	1.82906706405352
H	5.61210303760202	0.19516580013023	1.11262351961508
H	-1.81930795912775	5.13633119652651	1.06325580564812
H	-0.24301086664051	5.05834106487501	1.85047381269378
H	-0.37521621380039	5.69390231713861	0.20683771263370
H	-2.84195774290587	1.12651033102097	-5.93440362803341
H	-3.78114813569617	2.19938927160563	-4.90394990861525
H	-2.24465512830459	2.75350333584109	-5.57191318041196
H	3.41665190212354	-1.61819923283892	-5.33054346743298
H	2.03527221996364	-2.67966486931706	-5.60721376358849
H	3.30167843864573	-3.16893504717636	-4.48840725239897
H	2.63950872314425	1.41946030086011	2.88638642497982
H	1.57122797684095	-2.46365219358780	4.32938996426897
H	2.42616717282956	-3.45632697996655	2.23417254736426
H	3.35970575212387	-2.04035270348704	0.46473537091626
H	-2.84949108055066	1.96421511980732	0.13182060997866
H	-3.85205642068093	0.50271147680036	1.81056375912228

H	-2.81652925972625	0.22662758859864	4.03725613452647
H	0.26843608224974	2.95894423363202	2.90877696508343
H	-2.22643104589113	-1.23146119728294	-4.82934888099006
H	-5.28544643023014	-2.66396646463375	-2.19417757642184
H	-5.42475793440027	-0.41450234660466	-1.17597955534571
H	-3.93799693821338	1.39128026484888	-1.92765485695506
H	2.29822577879511	-3.00648549090344	-1.29808384751585
H	0.81589624043633	-4.72530959503213	-0.31642126591278
H	-1.19942707661729	-5.48187925330933	-1.54012420055207
H	-0.20481299793658	-2.81149868582485	-4.74019338720210
H	-2.10852418208599	-3.22710927787051	-5.29480294712295
H	-3.12490970249129	-4.67099742099970	-5.42045611067228
H	-1.59036067865456	1.59302444970874	7.18622953619636
H	-1.44070745898752	1.89238056543950	9.61565188958172
H	0.43027380740017	0.89727926123588	10.88226034010601
H	2.15405610421007	-0.41778065631741	9.70100474894483
H	2.02680128356103	-0.72761495286282	7.27344504287055
Na	0.57983752411145	-1.52344776261161	0.08062364914948



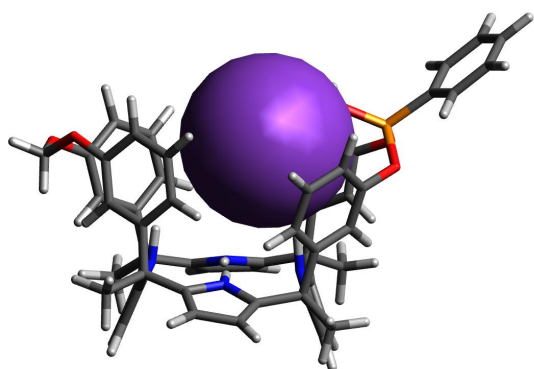
Complex 4 (lower rim),  $E_{tot}(\text{Hartree})$ : **-3216.354445088705**

C	-1.91259704886037	2.44683103989927	-2.93352304302719
C	-2.29098594675063	3.75326080357396	-2.97505881528075
C	-1.89985198303210	4.35945264617695	-1.74517693780418
C	-1.29260583763705	3.40777229560997	-0.98562838230248
N	-1.25010116695726	2.24274610953141	-1.73357405582556
C	-2.04072286326152	1.34361897274468	-3.94788808837849
C	-0.62197054001666	3.49687139235005	0.35823298684129
C	0.83548214845210	3.14557972261325	0.13040504732228
C	1.82549877977370	3.87337757118736	-0.48667389031151
C	3.01317566646886	3.09355773391710	-0.46048837807906
C	2.71982466113340	1.90770445808357	0.17117164545612
N	1.38701846064001	1.94233687850874	0.47597723829711
C	3.60576642338213	0.70774453579530	0.43169555688218
C	3.73181678274434	-0.02646733076975	-0.87478198102154
C	4.81841228184534	-0.35685615576436	-1.62211192968239
C	4.35580205914225	-1.05611812935478	-2.77734827546732
C	2.99971150825160	-1.13486334034047	-2.70232475420719
N	2.60424148129932	-0.45074838455922	-1.56157912920961
C	1.98950435842458	-1.67497186746783	-3.67805603425297
C	1.16170870701842	-0.49200655157968	-4.13823112758496
C	1.45605985143793	0.51893215794018	-5.02155129711263
C	0.31926968309131	1.37024937939535	-5.09795301798245
C	-0.64062082889760	0.85970854936307	-4.25730239989086
N	-0.08800341314423	-0.23134505224539	-3.64368710906168
C	1.08363371063447	-2.74592674406210	-3.06201242540785
C	-2.91799131592520	0.19768935279909	-3.43206953019306
C	-1.25711906117650	2.56539177707659	1.39218102975658
C	3.03377706904657	-0.20114317803353	1.52234188491570
C	4.98942665321742	1.18812622152948	0.89124308280982
C	-0.73038693831479	4.93580039760462	0.88506637413778
C	-2.67848808607559	1.89841829974073	-5.22906774762364
C	2.72511404883520	-2.29319542423720	-4.87545162519942
C	2.55383342249581	0.34953193793264	2.71023867479273
C	2.06533922830547	-0.46789344543931	3.71681496825662
C	2.05514182217509	-1.84772231639408	3.57488711977958
C	2.56616561062093	-2.39442019780184	2.41188837749716
C	3.04984896891808	-1.58536080247447	1.39304844233574
C	-2.47327742294345	1.93014382569299	1.17379725945372
C	-3.02537632585417	1.11022257298367	2.14983445057676
C	-2.38708975715365	0.90680211191192	3.35915486552310
C	-1.18776132433243	1.56536539856092	3.59070916623866
C	-0.62725935042847	2.38413057487700	2.62441200144999

C	-2.91623291774276	-1.02718287554923	-4.10401654048754
C	-3.72283969691003	-2.07288277263164	-3.67488089538297
C	-4.55758000554817	-1.89714179708467	-2.57559082387551
C	-4.58962302644422	-0.67414379333996	-1.93602473108904
C	-3.77391495574398	0.37072157841497	-2.35290768834104
C	1.35594467934309	-3.33602734290879	-1.83714557194779
C	0.49648866675020	-4.30363119309070	-1.32598092040997
C	-0.63353400056628	-4.68772060025941	-2.01649679947058
C	-0.90157100846192	-4.12386163557641	-3.26256907089412
C	-0.03967324379835	-3.16734162555341	-3.78107794007216
O	1.63861187155316	0.13030851739699	4.87410484166941
O	-0.54312233432242	1.47262691903040	4.79649199087966
O	-1.98640582758449	-4.61393201790803	-3.90827381273602
O	-3.81104812995159	-3.26913943603338	-4.31112999451597
C	-2.69400557947080	-3.88703355835284	-4.86683498235188
P	0.08642308506383	0.08281321838789	5.36394966767512
C	0.25135238471709	0.45127703294709	7.09713974123324
O	-0.63723338864383	-1.12258490456897	4.92746819636633
C	-0.73587222230051	1.18564852109220	7.75098909287771
C	-0.65798881732773	1.37912198002333	9.12006124136214
C	0.39738713057421	0.83980382404950	9.84039482425184
C	1.37961946536211	0.10590735713038	9.19200100603101
C	1.30943622212650	-0.09148687123765	7.82325805781987
H	-2.78407940665895	4.24883529816083	-3.79507111832778
H	-2.04019007484477	5.39314600478263	-1.47574317334425
H	-1.24945707150183	1.33739270319609	-1.28391480386068
H	1.72512205755140	4.87331443886001	-0.87955570026687
H	3.98247383385749	3.39099064253536	-0.82942825261462
H	0.91985365793342	1.25434232648476	1.04919859732548
H	5.84474614246194	-0.12436901030824	-1.38916753396285
H	4.97218847114177	-1.43527907463641	-3.57634306733997
H	1.77107879149509	-0.72989232510813	-1.06024288774400
H	2.36710875412626	0.62003519351317	-5.58972499537525
H	0.21360892272886	2.23228815913589	-5.73724102301492
H	-0.61841891643958	-0.89483727415212	-3.09681190037459
H	5.45272211748375	1.84901015722158	0.15866059456122
H	4.90740447678841	1.73231543579354	1.83037718173621
H	5.65232876126451	0.33921034202490	1.05464427289855
H	-1.77624878947761	5.20750928497272	1.02460858246661
H	-0.23034281671409	5.03024196394956	1.84680313605629
H	-0.27671074513601	5.65153261222115	0.20051631302625
H	-2.72886553641288	1.12616623153842	-5.99447803705363
H	-3.69281001485762	2.24200616836699	-5.03029088725901
H	-2.10585361631228	2.73429129391630	-5.63000849712356
H	3.36917188007753	-1.56955874929737	-5.37443622466825
H	2.01686642408269	-2.67165478723891	-5.60969539238266
H	3.33966927003320	-3.13014425068376	-4.54593538894802
H	2.57810023041690	1.42048929562804	2.87675324261258
H	1.66796713127629	-2.47903769066038	4.36174832474950
H	2.59176485699613	-3.46969481910095	2.29721270300052
H	3.47779152065535	-2.04478030808700	0.51168197143193
H	-3.02167197308104	2.09313334996129	0.25591144683579
H	-3.97251423483847	0.62306402830682	1.96174689824348

H	-2.81746891001123	0.26176032829081	4.11126554325771
H	0.30011094812273	2.89525582617770	2.85778898577532
H	-2.29455677492104	-1.14016656587522	-4.98393902597556
H	-5.18618179934796	-2.71457071085528	-2.24886137023740
H	-5.25874288665202	-0.53122332865861	-1.09784368793373
H	-3.84044314991423	1.32984418134352	-1.85648740347594
H	2.25054275864179	-3.07901242521914	-1.28696969766103
H	0.71549091005926	-4.75886687600871	-0.36929219177897
H	-1.30643075327326	-5.43371589914856	-1.61527060828962
H	-0.21736097897341	-2.74500556552639	-4.76241649175901
H	-2.05519166724618	-3.18216704892229	-5.40622623227010
H	-3.08413177143065	-4.61360537379535	-5.57566861970883
H	-1.56221628871244	1.61446676120814	7.20046484852240
H	-1.42294562518534	1.95322521824376	9.62453404294363
H	0.45539051053138	0.99313748098921	10.90961586127855
H	2.20437668756692	-0.31273989047851	9.75192656079602
H	2.08506569057579	-0.66005331297540	7.32842322915871
Na	1.43356692739251	1.83176896222685	-2.47563331118817



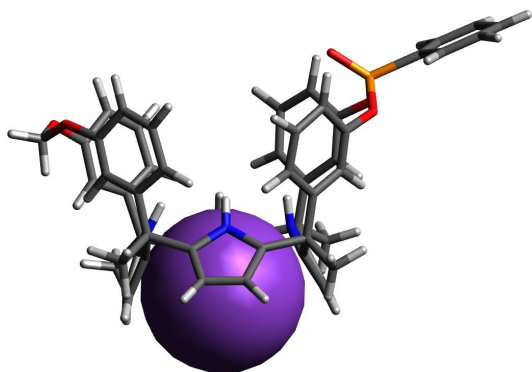


Complex 5 (upper rim),  $E_{tot}$ (Hartree): **-3653.773833393444**

C	-1.11211018495508	3.66353936590036	-3.98488841538210
C	-1.80937365021529	4.83580663908429	-3.85400662562342
C	-1.39241107322675	5.45189852738593	-2.64583672306616
C	-0.44620900960732	4.64271944940964	-2.07350844591131
N	-0.29491484587626	3.56070472612529	-2.89464771335196
C	-1.24818424642205	2.54160693338158	-4.98200888516591
C	0.24365122040687	4.72848401552275	-0.73872905077749
C	1.72307705504465	4.45383739454332	-0.88358591039752
C	2.75168332034421	5.29863464199569	-1.19292005761286
C	3.95553366047551	4.55017613245529	-1.15822954954572
C	3.64259527060860	3.26083040876596	-0.82856944974757
N	2.27051048548898	3.20159761061328	-0.71796202952996
C	4.53431398560455	2.05761008904866	-0.64108533564189
C	4.59462197490527	1.23883365447477	-1.90196640890547
C	5.62707070691108	0.53606033646285	-2.46358051074699
C	5.08540396289009	-0.26393295198540	-3.50398777456810
C	3.73851853870993	-0.02020602425573	-3.55468802714408
N	3.45510284127961	0.88203748779499	-2.56774081611104
C	2.65481496436899	-0.58594695558313	-4.43075223338427
C	1.84953636252394	0.54207832132690	-5.04004551495615
C	2.07512221535855	1.29022550157904	-6.16198076399538
C	0.97910853145343	2.17849425500709	-6.31995457565666
C	0.10874991706963	1.95583371161256	-5.28946490926886
N	0.67767754247125	0.99961298345604	-4.48185393188803
C	1.71918258899758	-1.51400374563222	-3.64364219741585
C	-2.17386173315353	1.43930782264383	-4.43013460677008
C	-0.38773612088299	3.74386457358235	0.25639401921792
C	4.04746317705294	1.16240844990179	0.51278609194578
C	5.94797167953503	2.53369075116862	-0.26957723514350
C	0.05025720101036	6.14321317614007	-0.17041424255974
C	-1.87372983009897	3.08991093116137	-6.27221534648504
C	3.30299974648494	-1.41647690133500	-5.54900407173451
C	3.46294078230060	1.71418467343316	1.65390199496162
C	3.11280156949870	0.90298245457005	2.72305189090457
C	3.35956557068132	-0.46136806203421	2.70907692177633
C	3.94289305336231	-1.01104635284572	1.57768022221934
C	4.26437832329024	-0.21584987160120	0.48603627187687
C	-1.56656395489678	3.06345396080687	-0.02908273335461
C	-2.16209150719271	2.24057828262791	0.91918842199087
C	-1.58910244582247	2.06460154504071	2.16730583342853
C	-0.40447281394705	2.73225729118756	2.44629425862685
C	0.19413267981729	3.56111940480079	1.51416032720491

C	-2.20567600070789	0.18995775055608	-5.05396159306238
C	-3.04743069131352	-0.81179264916976	-4.58962032927751
C	-3.88012948734482	-0.58196575860898	-3.50329598198489
C	-3.87632716345906	0.66462813310428	-2.90604629534460
C	-3.02811106614301	1.66680883644527	-3.35744074746070
C	2.00491200276101	-1.97507151627389	-2.36497220225293
C	1.11693465153856	-2.84677779686576	-1.73691399622518
C	-0.06129447721298	-3.23977118182479	-2.34584252717656
C	-0.34998966325970	-2.78910948928321	-3.63640007797189
C	0.55176242405242	-1.94727833196993	-4.27315938245355
O	2.51135387048259	1.47836309366856	3.82211510599324
O	0.18477238802028	2.59730457260503	3.68810877236305
O	-1.49527806267300	-3.25321571950686	-4.17648200912727
O	-3.15427531211876	-2.03023430451378	-5.19821926443275
C	-2.01238966793506	-2.78911573604202	-5.39810204930655
P	0.93571371391035	1.22927441809942	4.09758134646385
C	0.82546706917648	1.22911006003373	5.86569378385027
O	0.42936546921102	0.06672225805909	3.31204724243242
C	-0.34842411132692	1.65548571903973	6.48638285209866
C	-0.46176682731184	1.58179575041071	7.86384212879164
C	0.58786005817293	1.08476771087556	8.62325647546035
C	1.75700771903693	0.66260170157605	8.00763446949411
C	1.87983804829411	0.73138193391218	6.63032475737815
H	-2.55667925551935	5.21357139109427	-4.53262869920578
H	-1.76577812433855	6.38088807318689	-2.24727002555223
H	0.44880130381112	2.88851611495016	-2.81730461393771
H	2.66359113014212	6.34716465338989	-1.42600377201773
H	4.94138150997060	4.93307279094340	-1.36323146842668
H	1.79117014670596	2.47008895623502	-0.22228100319011
H	6.65896800992705	0.56076367621409	-2.15276148403813
H	5.63905654304420	-0.94158372551618	-4.13268261831450
H	2.59283627122176	1.39776074471127	-2.51702089006809
H	2.93095565550771	1.21949458291281	-6.81341007900646
H	0.85364360607899	2.89772584682414	-7.11220357878259
H	0.13089467159164	0.45761525879089	-3.83130758285104
H	6.39180363204563	3.10544650493191	-1.08369252488289
H	5.91882703530585	3.16220603824181	0.61938048359397
H	6.60295901072805	1.68891316274271	-0.05881942031246
H	-1.00759519043464	6.35429871738770	-0.02080592586912
H	0.55281070713578	6.24934774897496	0.78931786922346
H	0.45602426042305	6.89191734450302	-0.84895859985303
H	-1.93426610217720	2.31226278856633	-7.03186121327242
H	-2.88478546843773	3.44962553122070	-6.08611258420292
H	-1.28882487203069	3.91873541074095	-6.66985208410786
H	3.98484172097469	-0.81178770931197	-6.14576222439871
H	2.54638362253503	-1.82895962750180	-6.21388667771470
H	3.86491718193168	-2.24917090405684	-5.12707012367871
H	3.30807351339767	2.78381910333149	1.73161578499995
H	3.11147000135127	-1.07858613982159	3.56281789810033
H	4.16466589148880	-2.07056675620153	1.55291590635342
H	4.72836645943808	-0.66857479648652	-0.38026504650821
H	-2.04604403447803	3.19987870335055	-0.98683552656230
H	-3.09738914073035	1.74872854339457	0.68500204356214

H	-2.06480267957923	1.44418085785260	2.91494527046065
H	1.09898062390896	4.09176608472279	1.78804198918446
H	-1.58389989679710	0.02108040699960	-5.92677243013548
H	-4.53741247387237	-1.37018816979786	-3.16113939930560
H	-4.54887007695882	0.86155769674347	-2.08106825941548
H	-3.06060226438202	2.64185127502155	-2.89131905804273
H	2.93539507823175	-1.70460611219548	-1.88415594188431
H	1.37655848277561	-3.27039551063376	-0.77121546885561
H	-0.74220258215300	-3.92768761411620	-1.86133078166187
H	0.37463587521784	-1.60545572097820	-5.28358508650552
H	-1.25771290532274	-2.25595573266063	-5.98188797514592
H	-2.33376276269329	-3.66322007995119	-5.96133600674072
H	-1.16906304248549	2.06047127434562	5.90942735721430
H	-1.36905928297595	1.91923254078254	8.34537636404681
H	0.49648237769654	1.03252054846657	9.69978734568491
H	2.57861979572567	0.28347767210044	8.59974227660287
H	2.80269677206098	0.41248192281056	6.16508443907315
K	0.52370753002451	-0.56322307513200	0.82903373551395

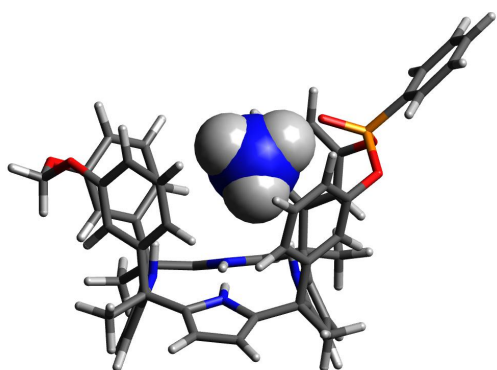


Complex 5 (lower rim),  $E_{tot}(\text{Hartree})$ : **-3653.783828586929**

C	-1.77376314105564	2.47646685988504	-3.01333157643553
C	-2.02160805813315	3.91492329348729	-3.09098100542533
C	-1.63874381817119	4.41057489724575	-1.87250028319408
C	-1.17168991045229	3.34764194644894	-1.00068443654977
N	-1.31438967908313	2.12165108925316	-1.67370553869523
C	-2.07374981675348	1.29515233385886	-4.05142718237292
C	-0.58741427005649	3.63018806133578	0.33374580756467
C	0.85980452421327	3.20397266871466	0.17791226978566
C	1.87560948988902	4.09264708623266	-0.01453768729589
C	3.12299092810027	3.35396270541778	-0.00927285702102
C	2.80501969996115	1.97180779793534	0.09797726595219
N	1.41410056036280	1.90484198036811	0.23749678429261
C	3.69171569282005	0.80963573712523	0.56215689363542
C	3.53630310765363	0.15625426644501	-0.78562601212877
C	4.61189387369883	-0.03291780162394	-1.86171703386404
C	4.15840248962100	-0.73942999195365	-3.01512073507549
C	2.82849480410693	-1.00988896671272	-2.71436839831730
N	2.52838576147091	-0.65693705967011	-1.37998080419661
C	1.82796606979179	-1.80249096250842	-3.65103282956277
C	1.15963763024725	-0.55129564996679	-4.18773610733795
C	1.28514759925565	0.21464169386761	-5.35382020726865
C	0.13807674604779	1.03892098533629	-5.45717373325268
C	-0.71013346930021	0.68382281529561	-4.40475460037039
N	-0.10048675509766	-0.32102111063580	-3.76259592370833
C	1.04420121794637	-2.91899785423080	-3.04402483440170
C	-3.06452608451957	0.15689498358658	-3.56963578950065
C	-1.14095661571373	2.71558827910767	1.43910570375859
C	3.15154621384002	-0.12133722213348	1.61621095894752
C	5.15476815518642	1.29019043878515	0.75682502185345
C	-0.76893178858373	5.00927788492412	0.78431494718582
C	-2.57986055977862	2.05134331394156	-5.35699600313109
C	2.83183027343048	-2.35611137586014	-4.76483086339498
C	2.53968304792393	0.26697693606102	2.77688653809242
C	2.12892206352128	-0.64944123805568	3.70323881157164
C	2.13155506560353	-2.02916759797523	3.57843274940036
C	2.73802276802064	-2.37678454622296	2.42226223660744
C	3.14218455883541	-1.48537026699850	1.41617078950268
C	-2.37331752281840	2.10233357558337	1.25504015765311
C	-3.19723009001674	1.28661288869137	2.15653468770353
C	-2.57308592113836	0.90996415289288	3.34449943183060
C	-1.36199078998780	1.50333056238858	3.62251497731741
C	-0.63563445183561	2.33107530406095	2.70763515153173

C	-3.06144419350084	-1.06001169018016	-4.22798276775747
C	-3.88707668701062	-1.97744282688350	-3.67762408906631
C	-4.73329530636249	-1.72298489265412	-2.50754566502874
C	-4.65600204063405	-0.49625312534259	-2.03357248703543
C	-3.72155179283919	0.44409731297461	-2.50098176934931
C	1.53359310006810	-3.43252637505088	-1.87129235316770
C	0.67960958307492	-4.48896843713413	-1.36744094159778
C	-0.46178167001863	-4.86710535717409	-1.82901886572736
C	-0.79576181745222	-4.26927439007210	-3.06486720273159
C	-0.13742967585720	-3.31561156150568	-3.59138249431169
O	1.45944134998925	-0.05771587112133	4.77924249799470
O	-0.71965421104594	1.28888694307569	4.82930437207131
O	-2.16700469263376	-4.45880784985277	-3.69348684696280
O	-3.98390581834104	-3.27762256596511	-4.12117361886711
C	-2.79942519151441	-4.02812506585454	-4.66549043892696
P	-0.09051545455693	-0.10030830213829	5.31228959710584
C	0.08213203871925	0.27658830061022	7.14028613730362
O	-0.81774448279096	-1.30553545072728	4.76871886790318
C	-0.85020657457330	1.04632920209240	7.77085204228182
C	-0.66604320115089	1.29052655271676	9.12472663857573
C	0.52029852688130	0.94667362277005	9.76888444000454
C	1.37586009524610	0.09001746563576	9.12849920938290
C	1.25897998044632	-0.19368460178186	7.79864990749612
H	-2.48497797416591	4.41170787679196	-3.88146627762748
H	-1.75700906094278	5.38961908901117	-1.60129687982794
H	-1.34861575667144	1.24629067208035	-1.12005001254229
H	1.74494948782386	5.17861627720366	-0.16800795326950
H	4.21586880786301	3.59924463932171	-0.12380120896912
H	0.87046990677844	1.25667849630158	0.70273793972695
H	5.62568227700819	0.27494937000308	-1.67069310379319
H	4.76673571281381	-1.05254469644906	-3.84794436583847
H	1.71487569073848	-0.92452507727916	-0.88789118162765
H	2.22292927336917	0.14450017592862	-5.90718893867264
H	0.07688341515666	2.01033746569308	-6.03583130404531
H	-0.43366519914817	-0.64008796739772	-2.81986434137025
H	5.41832753634146	1.95007444933477	0.03078586907811
H	5.09313170159136	1.50139815980247	1.85990310521465
H	5.78537803110871	0.41614613667229	0.88073265227402
H	-1.80118615734529	5.13254809679530	0.85249845166679
H	-0.39109009025086	5.14881633792344	1.76891325370861
H	-0.46313617602706	5.63808920922049	0.07996738643098
H	-2.69722306900148	1.24153082506222	-6.11861168263963
H	-3.62745079273001	2.41623237782363	-5.11691980992784
H	-1.98621388180284	2.87512670882415	-5.54734676573942
H	3.30533455164719	-1.48614215022389	-5.33392501194886
H	2.13062675698390	-2.94169397893909	-5.40448501329008
H	3.52750288009606	-3.08874985448225	-4.44471848889092
H	2.51818219586238	1.28839449026152	3.01417513244666
H	1.74018855637852	-2.66640748072015	4.31435995691370
H	2.77943005376189	-3.36645802967997	2.12663778515933
H	3.65639068326921	-1.88983784258170	0.50946441169922
H	-2.88242046686137	2.27787451458264	0.36883898960416
H	-4.16521923929111	0.81454599815792	1.83612454422432

H	-3.01406502125315	0.31953183655874	4.12962052949123
H	0.28959459321094	2.74218667916479	3.00806577099329
H	-2.42520175158406	-1.16607298840879	-5.09573640706251
H	-5.37572924332713	-2.53141821141758	-2.19252738142681
H	-5.15939393377085	-0.34344098245246	-1.18449125107679
H	-3.67385316601083	1.38469538406430	-1.97476182266245
H	2.43813228662900	-3.05364794690525	-1.45498593190043
H	0.91102532218658	-4.94977542623633	-0.52079409409333
H	-1.12833546709518	-5.61581473606389	-1.42255305239485
H	-0.41713841802267	-2.76848698466826	-4.55720550476277
H	-2.12372817063909	-3.36886737486655	-5.21665835754950
H	-3.01677469427643	-4.79656594005580	-5.36390135483113
H	-1.73153988890983	1.43977996661043	7.18833338349711
H	-1.34612389237733	2.02122595199962	9.53868567937435
H	0.61994441891378	1.16587470557351	10.75641251638695
H	2.31185819290677	-0.14930443355543	9.58671717484794
H	1.93852548217727	-0.83122549442683	7.28116309336350
K	1.79379182535895	2.03983583005988	-2.81367089602249



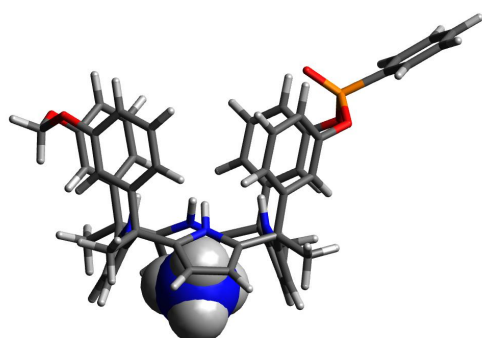
Complex **6** (upper rim),  $E_{tot}$ (Hartree): **-3111.284661592777**

C	-2.54611703681062	3.04919252965871	-4.12913671430528
C	-3.53186279879217	3.98079195278985	-3.93345445799822
C	-3.21951938302925	4.69372518703367	-2.74728112645090
C	-2.04617920173110	4.18561028104634	-2.25435690071059
N	-1.65567171622043	3.18665599792186	-3.10146943698382
C	-2.44390666325612	1.91504235173390	-5.11590742006280
C	-1.32028100671468	4.46543867058738	-0.96589716742743
C	0.16318981935704	4.63585014461416	-1.19961874266803
C	0.88815210904437	5.74949810684385	-1.51724908724816
C	2.25715822607638	5.38021745318293	-1.56411792978609
C	2.34432329599898	4.04719145254929	-1.27718490596939
N	1.05540698897681	3.59028891584205	-1.11008030336178
C	3.54605734918292	3.14151086662055	-1.18228578748900
C	3.73318583864069	2.36974199112294	-2.46010951203547
C	4.87376635595403	1.98016814015325	-3.11041729515634
C	4.49871202250724	1.04561366292792	-4.11097108213164
C	3.13936236966652	0.89438159080183	-4.04729423202076
N	2.69135755429428	1.69577648046635	-3.03468586925210
C	2.20021323734721	0.02025361333153	-4.82980738291582
C	1.07155294578320	0.85435710084349	-5.39707102426374
C	0.99187806726507	1.57515745322533	-6.55601232614952
C	-0.31855561186528	2.11756933095853	-6.64225229649930
C	-1.00869006237198	1.71628007308024	-5.53312944000026
N	-0.13444338320052	0.99950703027342	-4.75003831360343
C	1.62618605337385	-1.10390980498878	-3.95579971863661
C	-2.98699875897696	0.61608585381205	-4.48651037395865
C	-1.56539959934230	3.34045009644579	0.05092821381106
C	3.41108564304228	2.14757256154609	-0.01506089275323
C	4.79645865617669	3.98706071836507	-0.90471441816994
C	-1.88485602284658	5.75862370054004	-0.35414597130236
C	-3.29902507094904	2.23663344640128	-6.34848873543357
C	2.97366495717298	-0.63949609136954	-5.98156728555052
C	2.78461391935391	2.51853933106281	1.17581006286102
C	2.75113212891945	1.64051504658634	2.24764321307966
C	3.35791409660909	0.39686282410014	2.18782209801309
C	3.98474129361772	0.02849537238172	1.00905211312194
C	3.99472805955232	0.88170696158011	-0.08568658064753
C	-2.49848396073767	2.33149381998214	-0.16776802799174
C	-2.76733496414714	1.38361273671615	0.81316373108195
C	-2.10013365736501	1.40748190790644	2.02619764583732
C	-1.15029364770000	2.39760329614031	2.23160572655470
C	-0.88144499557419	3.35422564068460	1.26979854872390

C	-2.69340388448588	-0.61865769225657	-5.07136165244052
C	-3.20804311614191	-1.79410849090574	-4.53814687853851
C	-4.02937061609161	-1.75679656160920	-3.41974422880424
C	-4.34650785278951	-0.53436562183616	-2.85807360306199
C	-3.82685425918827	0.64220790671894	-3.37885604395396
C	2.14338228690950	-1.43837093417448	-2.71160973152693
C	1.59905666212991	-2.51050371434060	-2.00749480442324
C	0.53006911280482	-3.23191113730921	-2.50529835143674
C	0.00890753869721	-2.90762327516835	-3.76017045115197
C	0.57246923497345	-1.85876042313103	-4.47323374192418
O	2.08894684479139	2.02032332143034	3.40030151227280
O	-0.45880535246060	2.44957453269437	3.42921996206375
O	-1.00333595362445	-3.68858064007980	-4.18990628720367
O	-3.00680263668101	-3.02107178675553	-5.10365234260045
C	-1.71658033029128	-3.44809319036954	-5.37581805099368
P	0.66795868622272	1.35201816667450	3.77196284143031
C	0.67426727065537	1.28332400118781	5.53879577458896
O	0.45493082144010	0.08094855673005	3.00723599481605
C	-0.48160091329932	1.56600541251868	6.26488835928373
C	-0.47156878248874	1.43624443356071	7.64355184437998
C	0.68044240396238	1.02268463045440	8.29597100974532
C	1.83083027368031	0.73854678635500	7.57339461979224
C	1.83275789333798	0.86831451372719	6.19593165829098
H	-4.40201651041493	4.12413346327369	-4.55309415535197
H	-3.80977475165930	5.48136117219827	-2.30841195114579
H	-0.74727809887252	2.75594376380372	-3.09476459503825
H	0.49331363528163	6.73457379350508	-1.70325762718034
H	3.08049464310440	6.03763914608802	-1.79008868918084
H	0.83852316650999	2.74084587633347	-0.61815820737651
H	5.87848376370887	2.29787795430037	-2.88369386123657
H	5.16648973933150	0.54286013234379	-4.79074145866296
H	1.72561612804805	1.94649661172643	-2.90790571368880
H	1.78173037432583	1.71072822975344	-7.27716765642706
H	-0.69998532983782	2.72900384540797	-7.44373347601595
H	-0.46438379536697	0.34644405224596	-4.05644546790552
H	4.98240733387402	4.68181997030455	-1.72271667526084
H	4.67882310012492	4.55937150085952	0.01445451211018
H	5.67412298032722	3.35253139959323	-0.79437979365222
H	-2.93202618884735	5.62924085183074	-0.08498778672345
H	-1.33695347652939	6.03591621375782	0.54424636256984
H	-1.81705547288103	6.58431944372468	-1.06075559878298
H	-3.22012475879429	1.44184929507175	-7.08820671647452
H	-4.34803505131564	2.32808927069567	-6.07167518286877
H	-2.98654021027232	3.17367060016904	-6.80779127560323
H	3.44736746019542	0.10843210510912	-6.61562937526594
H	2.30547858496260	-1.23244134192495	-6.60246250240063
H	3.74875697809356	-1.29825370094935	-5.59229922066009
H	2.35055392184733	3.50559444086791	1.28410232989405
H	3.34480144756277	-0.26850817161641	3.04048062848557
H	4.47843946632630	-0.93250449130872	0.94337212334591
H	4.50076973539850	0.57241735985747	-0.99105865310303
H	-3.05438495833899	2.30093971679501	-1.09324275507240
H	-3.52124690788437	0.62835271797831	0.63260770037876



H	-2.32204605309465	0.68301122429556	2.79825181056763
H	-0.15418976901706	4.12971893468251	1.48202885415374
H	-2.08070892424870	-0.64775036436506	-5.96673868334806
H	-4.43066634782578	-2.67981313343203	-3.02320407599465
H	-5.01684261607332	-0.49511299572454	-2.00890628585452
H	-4.11181259593223	1.58941245259346	-2.94198992967285
H	2.99759928509570	-0.90588972057222	-2.31586833346057
H	2.04892349050787	-2.81330768386308	-1.06742503899564
H	0.11838414472815	-4.07262922224816	-1.96190696339386
H	0.21216644298422	-1.60249643825217	-5.45979952524124
H	-1.18581790426603	-2.76423665375475	-6.04392452891985
H	-1.82626477466596	-4.40695258138991	-5.87882122366187
H	-1.38262894627478	1.90050578739337	5.76974546872406
H	-1.36353014067057	1.66591542576601	8.20990519038922
H	0.68408028755296	0.92670197681988	9.37341319846062
H	2.72974984774735	0.42237304921643	8.08425278558558
H	2.74054946479389	0.65792485994625	5.64557455276959
H	0.47611022674296	-0.16079976186745	1.48170949093969
N	0.46473902076959	-0.28918690961098	0.41088089540572
H	1.32495560953581	0.08307633691215	0.00337398647878
H	-0.34784512974240	0.19642082105565	0.02922789100664
H	0.40174988696752	-1.27236100798974	0.15059795489577

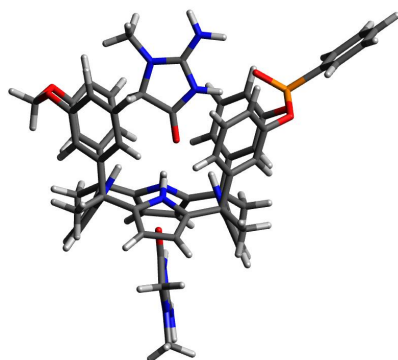


Complex 6 (lower rim),  $E_{tot}$ (Hartree): **-3111.293355423948**

C	2.32918573768155	4.37119227543786	-4.36160733540941
C	1.30179552707278	5.19269276039062	-4.73736654868836
C	0.33289967462763	4.39922643160308	-5.40512996600089
C	0.78918654968648	3.10991593223998	-5.42314348690168
N	1.98740762852098	3.09698183447201	-4.74995900927923
C	3.59214108175443	4.67684349444758	-3.59586504140669
C	0.17120785909175	1.85945024249346	-5.99697373451732
C	-0.19104176918961	0.94577752230398	-4.84608067774634
C	-1.34506344453630	0.87291155514759	-4.10095714448756
C	-1.18208139556903	-0.17346158931989	-3.15344555004682
C	0.06728674086747	-0.70807563524772	-3.33433568682360
N	0.66886368393478	0.01055070796131	-4.33550649943684
C	0.77350619423397	-1.81246443898749	-2.58043069240143
C	1.49510506564809	-1.18887314910412	-1.41207602371864
C	1.29176301083201	-1.31637147932498	-0.07071920907475
C	2.26957051766291	-0.52497282139336	0.59944514786093
C	3.04832756256505	0.06986592527741	-0.34668734655906
N	2.53177116276585	-0.28338288060321	-1.58403596159320
C	4.21378293820992	1.01597504738224	-0.20661666564503
C	3.77544512161854	2.36624729787546	-0.72493130317146
C	3.17182947956846	3.42025490771268	-0.08820319781919
C	2.98506773396220	4.45360493918726	-1.04753157665754
C	3.48615032009438	4.00318045975134	-2.24662406372465
N	3.91055624726627	2.71953796994852	-2.04136274196522
C	5.44902195203526	0.52299242455743	-0.96738133839244
C	4.85230514191982	4.20275746465796	-4.32830348371788
C	1.10894475620269	1.16060130449380	-6.98498037851220
C	1.73401892151924	-2.57734464665978	-3.49301831135707
C	-0.26725890887987	-2.81262680556042	-2.05856281964804
C	-1.10556660905049	2.23293711610481	-6.76455620629226
C	3.70222403537455	6.19514259917601	-3.40102673920801
C	4.58946874777453	1.14064897143300	1.27588707208906
C	1.34349812731573	-2.89329744096278	-4.79295644629557
C	2.17940118787880	-3.62575599141202	-5.61863810806925
C	3.42070943827367	-4.05781936187687	-5.17560513514023
C	3.79317105967766	-3.77315989817964	-3.87435427753500
C	2.96107289599495	-3.04410219484843	-3.03582279810951
C	2.12790627116196	1.85095874150049	-7.63139874711559
C	2.92885605090694	1.21101581595056	-8.56696634257859
C	2.73234912943255	-0.12157792657214	-8.88151817735556
C	1.69291300172681	-0.80068361458101	-8.26406116906312
C	0.88856349544987	-0.17294470753075	-7.32736780357683

C	6.05091524944298	4.08891050670599	-3.61865919417388
C	7.21831431534407	3.69384671415140	-4.25739771418424
C	7.20193656273064	3.41963234685160	-5.62181328648869
C	6.02658166947323	3.56806601159713	-6.32988674659977
C	4.85307083130834	3.95463560612605	-5.69352152846554
C	5.61499520134271	-0.81204241574260	-1.30394446542563
C	6.76843307927439	-1.22112805937150	-1.96415194744349
C	7.75602060261672	-0.31729873337014	-2.29564247518560
C	7.61390799185024	1.02100510838067	-1.93343858878172
C	6.46858741522321	1.43142067063791	-1.26487305828148
O	1.71989694545554	-3.95395898617230	-6.86730167744151
O	1.39593769156700	-2.09653459448059	-8.60145801752710
O	8.66644627490517	1.81924506929020	-2.22934189580604
O	8.42986841656415	3.61657682952628	-3.64889804106246
C	8.57159788117530	3.20810985705618	-2.32564994770549
P	2.36908292748182	-3.34715736280681	-8.23066416708553
C	1.86255270313742	-4.55849538565790	-9.43394563267512
O	3.78784658460398	-2.97767606011374	-8.10368335497059
C	1.62996117758677	-4.16534622799301	-10.75062916307864
C	1.34471126632503	-5.11654206819700	-11.71559031414038
C	1.29264946489625	-6.46000678790712	-11.37408006237966
C	1.52570356250696	-6.85453687399628	-10.06511727371712
C	1.81256358094641	-5.90885695192027	-9.09457963226026
H	1.23726773440929	6.25393891815010	-4.56229977639297
H	-0.59193955283461	4.75384271088249	-5.82860507360843
H	2.64470767544722	2.33601878639787	-4.80327321858886
H	-2.23395855601686	1.46518401300345	-4.24775023786326
H	-1.91827860399654	-0.50614843248723	-2.43932408462289
H	1.50770645163515	-0.28907265900415	-4.81093135864193
H	0.53018671676758	-1.91245179258489	0.40462014397806
H	2.37390998402695	-0.41880340037197	1.66678226135993
H	3.11652460602962	-0.29760280686972	-2.40816315413649
H	2.91489819836334	3.47018248714515	0.95767717337787
H	2.58243565326357	5.43500373845965	-0.85445356313962
H	4.50544415583004	2.22594045099404	-2.69006827769519
H	-1.00009596633481	-2.33308746069822	-1.40998827693963
H	-0.79988942859196	-3.26659514761664	-2.89178455618447
H	0.21910873799060	-3.60815765597419	-1.49619590539222
H	-0.86416895909489	2.88882478092865	-7.59942276877182
H	-1.57949263643522	1.33856157212843	-7.16394377836136
H	-1.82849597218977	2.74316221850716	-6.12882285495224
H	4.58557487921698	6.44387448918190	-2.81589441875278
H	3.78783208772891	6.69299720158446	-4.36567521807376
H	2.83126867968020	6.60060560390257	-2.88637274088371
H	3.75218060886529	1.49733153788313	1.87558852460682
H	5.41033274558120	1.84462109874472	1.39686289622524
H	4.90773974047285	0.17722828837103	1.67078503538822
H	0.37109426982791	-2.59571256264086	-5.16889280221013
H	4.07384381197254	-4.61783607619540	-5.82945866161585
H	4.74650287804302	-4.12745393410372	-3.50605995966986
H	3.26230686821826	-2.87004759763547	-2.01103220666644
H	2.28386223784785	2.90279654852101	-7.43225474891611
H	3.71856346637107	1.76306284921829	-9.05851544904964

H	3.36488592362225	-0.62028195081972	-9.60229666877120
H	0.06760240517411	-0.73135876188523	-6.89296530519306
H	6.06334911331778	4.34807869406745	-2.56714517381750
H	8.11558164865303	3.11186827613883	-6.11221333785778
H	6.01899842610426	3.37605358171267	-7.39447149152414
H	3.95156686333605	4.08675891235232	-6.27562736264072
H	4.87135482221766	-1.54656612225838	-1.02497561415952
H	6.89508781902108	-2.26332625892879	-2.22540838976084
H	8.65017899331542	-0.63412422353210	-2.81538594172032
H	6.35723717281946	2.45684628567189	-0.93647915718666
H	7.79097877062010	3.61577423054146	-1.67770431721999
H	9.53196998007893	3.59972944001565	-1.99966819503106
H	1.66069870362613	-3.12039442911378	-11.02945657449852
H	1.15974946342415	-4.80822012042657	-12.73550075588195
H	1.06946778214909	-7.20111818974950	-12.12994158426273
H	1.48317861830640	-7.90173110363518	-9.79823231489061
H	1.98873505151166	-6.23027854858646	-8.07700507098027
H	1.35468935530031	1.41577646143096	-1.90786746572097
N	0.70338516675009	2.21309304550197	-1.90219777305217
H	0.07923135958250	2.14564030327354	-2.71716860536196
H	1.24200409060052	3.08922246333359	-1.92146919828314
H	0.15668180998749	2.16562233146540	-1.04690450995322

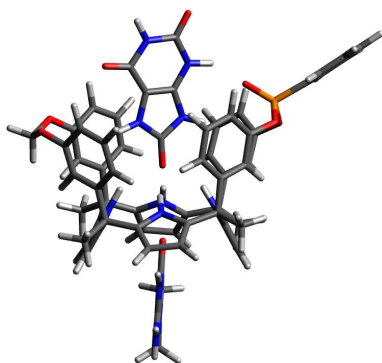


Complex 7,  $E_{tot}(\text{Hartree})$ : **-3845.837577751655**

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C	0.91114072596235	4.73605521440666	-1.96409420726172
C	0.98763272538920	6.12467826940699	-1.66450319842882
C	2.17161955910700	6.33999490610740	-0.99344604585807
N	2.79005164594869	5.13041758568810	-0.89369081270122
C	2.49809649173525	2.69817086771776	-1.53336822545267
C	2.75642397065441	7.61399349679769	-0.42831452982627
C	4.00729610517206	7.98766085933800	-1.19328759569190
C	4.17801640208290	8.82245588567201	-2.27032470326970
C	5.55842224661237	8.82366993822133	-2.59695941043001
C	6.19641968097728	7.98681243522519	-1.71310321395373
N	5.23775070249660	7.48450525493204	-0.88423572737709
C	7.65991815499900	7.61957810989880	-1.59234160889364
C	7.93182612902787	6.32214744329678	-2.31837072839154
C	8.65788839926594	6.08185323714986	-3.45872588258093
C	8.60759920995443	4.68865032280955	-3.71424709016871
C	7.85106740317789	4.11087000358040	-2.72531042391709
N	7.46481027330067	5.11500683793526	-1.88537195650384
C	7.41653510763534	2.67331643801869	-2.55457732518517
C	5.93887310589175	2.55382119319145	-2.85041703137527
C	5.27254387369472	2.18332428541334	-3.99049000905516
C	3.88387154356272	2.19749054966704	-3.69998548801186
C	3.73601963483762	2.57505478049597	-2.38951053193288
N	4.99078384654346	2.80394409067345	-1.90290205123695
C	7.72407054105736	2.11717911623236	-1.15660767980187
C	2.73428015060274	2.11847746480241	-0.13146216414517
C	3.04447716716341	7.47825757995635	1.07068254592978
C	8.09582114609191	7.53720950949964	-0.12539497589403
C	8.50178109063554	8.73266667140978	-2.23603282497624
C	1.72033534542700	8.73999234427261	-0.57365291205333
C	1.37443910432848	1.86062002846514	-2.16496855987283
C	8.19987594519190	1.80100645287734	-3.54843032533946
C	7.56039566498212	8.40730332043777	0.82285736520550
C	8.02238869391854	8.38370064754250	2.12672563321304
C	9.02599628399532	7.51763251577828	2.52571029577109
C	9.57463393117416	6.67007406363087	1.57758902048618
C	9.11383801231166	6.67382420198426	0.26960885865063
C	2.37423303982026	6.55101643321932	1.86139295195232
C	2.58391908276290	6.50622503096801	3.23238498873475
C	3.47004643712941	7.37680184192308	3.84381217823394
C	4.12750431018320	8.30715233283109	3.05474278654797
C	3.91995098309830	8.36951528263431	1.68898256489649

C	3.58301159176512	1.01975893208564	0.03122283280162
C	3.74067892419476	0.41692716931411	1.27343954261380
C	2.99924907454642	0.88101440907156	2.36032815582039
C	2.14226741787674	1.95381639868425	2.19383203593470
C	2.02010189506346	2.58853859983208	0.96400693398428
C	8.72658612453081	2.65488210039199	-0.35869254214253
C	9.06816884901945	2.03866984167475	0.83926971692526
C	8.40022717788127	0.90873188213374	1.27625805920667
C	7.37994438102669	0.37031527239379	0.49289097392022
C	7.06246143679879	0.96431912369565	-0.72126808012323
O	7.48983887140418	9.28739184110326	3.03194072302116
O	4.97635476984659	9.23195826888363	3.63423662866484
O	6.79626523490021	-0.75504949704606	0.98123364014550
O	4.57238192071352	-0.61739835804521	1.54911198870715
C	5.50205063154202	-1.14809469016706	0.64389841013928
P	6.44475512666505	8.85141686969061	4.17016446775426
C	6.72891406280484	10.00671634916667	5.47793385592735
O	6.54803321918569	7.38590684916059	4.47477413105921
C	5.67811626749534	10.36817616488335	6.32152288193486
C	5.91941340171778	11.20568039113234	7.39664489967124
C	7.20115655189651	11.68238162279336	7.63297610776006
C	8.24653874579816	11.32577708163736	6.79337794075451
C	8.01659361881286	10.48769116495074	5.71567499529458
H	0.08777981170652	4.23467545565967	-2.44556359095277
H	0.21675125590849	6.85781520827894	-1.84112247494293
H	3.70015410480423	4.99567823664204	-0.48636756319031
H	3.41247313379525	9.41252799677412	-2.74810548318379
H	6.02903085970713	9.42085181504851	-3.36151363108486
H	5.42393536540383	6.87982677950835	-0.09812447050733
H	9.20757120869657	6.81095867008696	-4.03166465231653
H	9.09664401493115	4.17497543468774	-4.52528037290788
H	6.84965201364078	4.99114739889191	-1.10039863848919
H	5.72269933727479	1.88536493038755	-4.92311694376710
H	3.09311207437779	1.91250939542994	-4.37498354621746
H	5.20078369988435	3.02839689399319	-0.94564387028273
H	8.27850756826679	8.83883951458031	-3.29753600091652
H	8.30295866893365	9.68706343129956	-1.75202082350478
H	9.56369943348414	8.51443602961024	-2.13590830422868
H	0.80994508263217	8.48817636689202	-0.03188225099251
H	2.11012375686773	9.67063877895760	-0.16675153672258
H	1.45755639365217	8.91729028930343	-1.61649344675030
H	1.67863996831717	0.81854536755935	-2.23838665108218
H	0.47156942570333	1.90586509867900	-1.55768738783761
H	1.13202680649104	2.21304279901406	-3.16704592368728
H	8.01441016861739	2.10362978813455	-4.57838062977651
H	7.91300785991151	0.75626316514376	-3.44803863410989
H	9.26952067004787	1.87778114732005	-3.36028355208591
H	6.80759753678968	9.13510762543292	0.54690123741453
H	9.39578914775003	7.52855721206761	3.54226347150698
H	10.38395854358947	6.00916581594392	1.85826261770903
H	9.57849713030530	6.02010322562311	-0.45634979769724
H	1.66106922901719	5.87220977553483	1.41431015947524
H	2.03685769913065	5.79338384028796	3.83492906553010

H	3.62178518061325	7.35358672091268	4.91473093142431
H	4.41980997419663	9.13851713123658	1.11292715769331
H	4.08709186899659	0.63088890992979	-0.84189201303568
H	3.07994066561623	0.37668954260921	3.31494042443955
H	1.55011547619897	2.29376445864525	3.03359073541385
H	1.33316449671458	3.41717357974073	0.85271308206040
H	9.27165161820793	3.52871728575599	-0.68660892512814
H	9.87581945045362	2.44216373000117	1.43626070502632
H	8.67775428705390	0.41695510547099	2.20010693881284
H	6.32308861991700	0.51955445772588	-1.37428499102173
H	5.24870587637687	-0.92634764122837	-0.39438077006259
H	5.47905964082745	-2.22641222625724	0.78382353549425
H	4.67079906715087	10.01821105053104	6.13891684307568
H	5.10461463208403	11.49392449635811	8.04651966344585
H	7.38403917389003	12.34040930491814	8.47175117252296
H	9.24191951807972	11.70796576899636	6.97307194743658
H	8.83737617476471	10.23040335136772	5.05974366386401
N	6.12658924311269	3.02046122475916	3.66699876730352
C	6.34951076725761	4.24923447164623	4.08936744259122
N	6.17667049375305	5.14504761465564	3.08579797730920
C	5.82601307237432	4.50906108357415	1.93004968147897
C	5.77648175319062	3.04574032713836	2.26127594286044
O	5.59758895903113	5.01986389493472	0.86108374740714
N	6.69355767722920	4.62671670239954	5.29811830913200
C	6.25168148236482	1.80781607488650	4.44802369047170
H	6.79771992562392	5.62029813088476	5.48220464903121
H	6.83703411058952	3.96893662929723	6.04537153097579
H	5.86944928617914	0.97602452803161	3.86211132543974
H	5.65960700938795	1.86731550359367	5.36161932900803
H	7.29224412969725	1.59660946468096	4.69464525278385
H	6.49313611113854	2.48174843603805	1.66101854474954
H	4.77484139607573	2.64592945031793	2.08801323251929
H	6.27908470177202	6.15752790336137	3.27561455108646
N	4.08430520328410	6.77091780973480	-6.07079836229416
C	2.92584960884667	6.69321200262481	-5.43932943620147
N	3.06670684901359	6.14897264482476	-4.22228988915039
C	4.41611766061520	5.87751593508139	-3.96351722347307
C	5.15092456478799	6.25825509682429	-5.22688433599064
O	4.85383075734949	5.43792062400881	-2.95520231005489
N	1.76780165182078	7.09315554384509	-5.93242341535919
C	4.27476006105305	7.28762592090909	-7.40914441707793
H	0.91410025177290	6.97256524419408	-5.41394352516440
H	1.69422619529585	7.50853798724403	-6.84581909325609
H	5.31849235921434	7.16502983417504	-7.68265747926257
H	4.04128374927483	8.35140818622240	-7.46737050525469
H	3.67951143082901	6.73792338458879	-8.13920855872692
H	5.63832886806358	5.38291019474123	-5.66285318421316
H	5.91030595664553	7.01264021880509	-5.01024072738982
H	2.33387423646462	6.06845748999389	-3.51310552182712



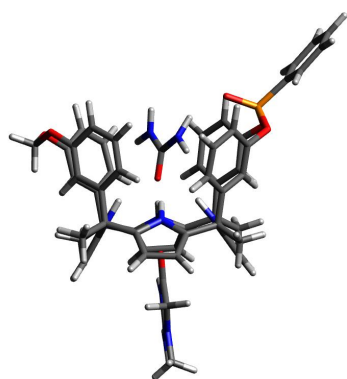
Complex 8a,  $E_{tot}(\text{Hartree})$ : -4086.556288284895

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O	4.51981259528998	-1.87644083629730	-5.86768841732223
N	2.25207769916956	-1.83238099816897	-6.00091159715842
C	1.15810502496280	-1.07920888721180	-6.24197647561494
N	-0.14848100365663	-1.46253022920843	-6.19452527735646
C	-0.95473625423892	-0.38758841672101	-6.49025766803068
O	-2.19480831962619	-0.39284739345668	-6.50257017140859
N	-0.12370707793895	0.63700070713476	-6.74261410038763
C	1.19440014793845	0.22640576290803	-6.60082528183927
C	2.43661096338843	0.91062644090388	-6.78902707815940
O	2.60100416860839	2.05963108224216	-7.12476757783319
H	4.42990899213897	0.45730370949594	-6.63752726794305
H	2.15060139100350	-2.75032194272777	-5.56639415700531
H	-0.48634066586419	-2.37173011759025	-5.91519830016689
H	-0.41697463584885	1.56328341110491	-7.01688375851837
C	-4.63447792548854	-1.20937681973016	-9.53480888190185
C	-5.65437818035186	-1.98296607185106	-10.03631955229364
C	-5.85281442849822	-3.06051733000129	-9.13704310969093
C	-4.95032111017889	-2.91489836355995	-8.11107464953836
N	-4.21830440506473	-1.79768162212082	-8.37989373913629
C	-4.09592533831337	0.11429370761197	-10.02411022741302
C	-4.70395587719637	-3.77481687306691	-6.89498586992385
C	-5.07086045414244	-3.02255148619781	-5.63483774915449
C	-6.20204716395615	-3.07988095764696	-4.85610101711025
C	-6.02371863510934	-2.18042720776663	-3.77371377002004
C	-4.78730077635733	-1.60048084777729	-3.91876315897462
N	-4.23508198237018	-2.12024897213339	-5.05032386597967
C	-4.06625385488715	-0.58343306811600	-3.05927859326836
C	-4.40129137218803	0.80697419798423	-3.54447900699907
C	-5.20748433070281	1.76759716931004	-2.98161969896756
C	-5.25124046292134	2.86760403676222	-3.88198950348412
C	-4.45652522284705	2.54874193769551	-4.96462456841586
N	-3.96174984246184	1.30226924161547	-4.73618208972946
C	-4.12919965209821	3.34989350795031	-6.20332570559362
C	-4.68190266316447	2.65942240047499	-7.42760180820951
C	-5.79574356140157	2.91311727336527	-8.19210346527630
C	-5.78305881470874	2.00084557585551	-9.28146575356163
C	-4.66058691099284	1.21793288304503	-9.15124673179009
N	-4.02588284048735	1.62588404221857	-8.02058278506235
C	-2.61467907184473	3.56341550336469	-6.33959471904725
C	-2.56210380848491	0.19396320497098	-10.01567173571696



C	-3.24662067855181	-4.24619282579625	-6.84866169734381
C	-2.55966090031948	-0.86654302524804	-3.04834630312989
C	-4.54984799710881	-0.72244652929424	-1.60740335398207
C	-5.57367477013871	-5.03699098008070	-6.98790027324877
C	-4.55956109503332	0.32648180653000	-11.47287354709207
C	-4.77366329655793	4.73674427065981	-6.07893285820895
C	-2.13125231265680	-2.18335353192614	-2.87899568348260
C	-0.78384525833523	-2.47615723427982	-2.77867796691982
C	0.17656528923472	-1.47927737453686	-2.85086140543673
C	-0.24765226317784	-0.17260814355727	-3.01676285807795
C	-1.59903378715368	0.13588916190812	-3.10915306467656
C	-2.49830538738903	-4.38883211110104	-8.01381203203248
C	-1.20561742131593	-4.89009935902569	-7.96801468321192
C	-0.62751238213501	-5.25977126176849	-6.76475540685210
C	-1.38132679516933	-5.13337102925159	-5.60875480833806
C	-2.67196144943527	-4.63452213657976	-5.63995066005186
C	-1.97308037805672	1.45377615966575	-10.15523044548253
C	-0.59509609888319	1.60441657719977	-10.18236564809462
C	0.22147783708806	0.48022933575444	-10.07599807424889
C	-0.35839849226845	-0.76724433456063	-9.96570562692711
C	-1.74101571489627	-0.92111308051148	-9.93685332314556
C	-1.78551457118912	3.56862461245137	-5.22423781342484
C	-0.43306701796614	3.85307625691801	-5.36398298234059
C	0.11277436039092	4.13214305785455	-6.60353647361462
C	-0.71670152498321	4.15944074625192	-7.72151267840752
C	-2.07046012418337	3.87169766822659	-7.58746625896156
O	-0.42068848710700	-3.78855433981320	-2.54768859591181
O	-0.86923605048096	-5.53832916783617	-4.39093364568117
O	-0.13440401185749	4.54453808745196	-8.88529894180702
O	0.05354462365741	2.78367346472661	-10.35623779354215
C	-0.53217887751004	4.02485791897248	-10.11499722685513
P	0.30546031659549	-4.71131678104682	-3.65413231290804
C	1.09701583917412	-5.94947093671023	-2.65865384213742
O	1.11497829526070	-3.92337072132794	-4.61658541409541
C	1.25997676183115	-7.24102256946118	-3.15697047104148
C	1.95425025982090	-8.18123951380460	-2.41471161181385
C	2.48810805931350	-7.83766466210323	-1.18128398511544
C	2.32864309716198	-6.55228701575236	-0.68509390839374
C	1.63666689934013	-5.60527728180298	-1.42067464382586
H	-6.18265651945807	-1.82105585246510	-10.96162808870035
H	-6.55283692114749	-3.87072169924224	-9.26210455415892
H	-3.51080664209450	-1.40458743978662	-7.77329439892322
H	-7.04417966237567	-3.73657910670878	-5.00338707852191
H	-6.71019001336613	-2.02757796860728	-2.95657301848701
H	-3.35272478123733	-1.81513074510404	-5.43772445611569
H	-5.68668650105803	1.71389625438470	-2.01758459075178
H	-5.72732539468178	3.81921120397127	-3.70593149506025
H	-3.37225230801480	0.78193796028848	-5.37765442921141
H	-6.50914117785531	3.70677864200185	-8.03633596442162
H	-6.49043405947133	1.96526637681185	-10.09422698494170
H	-3.17711372332438	1.20477732435165	-7.67239364693281
H	-5.62228637818381	-0.55078199347533	-1.52295531482095
H	-4.34239249763269	-1.72310088146339	-1.23440243724409

H	-4.03664439350189	-0.00853612484227	-0.96446962506043
H	-5.32010829877315	-5.60879952068374	-7.87894900805514
H	-5.41617090507682	-5.67327880137158	-6.11858031587613
H	-6.63400888712221	-4.78803075846410	-7.03471295759260
H	-4.21536788036493	1.28692079563971	-11.85320917314089
H	-4.15711262630879	-0.45719992703130	-12.11325684070714
H	-5.64633649685615	0.30552154780495	-11.55481476797429
H	-5.85561040139330	4.66423285377994	-5.95904383084003
H	-4.57497575043003	5.32843938014824	-6.97032202790060
H	-4.36781017462234	5.27201614426951	-5.22203075868129
H	-2.84996883628789	-2.99026298965832	-2.80329350272567
H	1.22833805704759	-1.71381725344827	-2.76325616302508
H	0.48558071242900	0.62049978976024	-3.07196071647751
H	-1.89217811197795	1.17067158908586	-3.21402077264159
H	-2.92934131625513	-4.12240592837874	-8.97018657356740
H	-0.64126199279833	-4.99815990645107	-8.88464872457030
H	0.37974004585044	-5.65106069357999	-6.73002660297090
H	-3.23829504357873	-4.58023295925778	-4.71888139765980
H	-2.62392820699923	2.31267005067513	-10.24812205432290
H	1.29660085830946	0.60134443409619	-10.09180581395680
H	0.27875049870351	-1.63960355237827	-9.89885244904883
H	-2.15957985265140	-1.91431190324026	-9.86140483945326
H	-2.18778408488492	3.36498585349359	-4.24067510101485
H	0.21042822577472	3.84787120075323	-4.49403050654146
H	1.16825318885766	4.33159758775110	-6.71985737044713
H	-2.72705605536884	3.91430717077645	-8.44637289508108
H	-1.62087954168226	4.00341435364386	-10.22244016556420
H	-0.12591058207429	4.70784719299562	-10.85777699734134
H	0.84013454468241	-7.52301826345911	-4.11302108903328
H	2.07542976962971	-9.18507005678442	-2.79795016606309
H	3.02903914997598	-8.57507737507866	-0.60371807179328
H	2.74075363601934	-6.28613500435564	0.27838401576983
H	1.51168798870310	-4.60810378352986	-1.02098268046341
N	-9.04633787906001	0.22689402892668	-6.67969658945877
C	-8.62915683015487	1.03852204944056	-5.72138117048909
N	-7.30498490609791	0.97216883492220	-5.56281197021279
C	-6.75031237325136	0.06218361008645	-6.47612432882599
C	-7.91835828741701	-0.48292997277656	-7.26149923612180
O	-5.60269924147083	-0.19838370457045	-6.57831222648313
N	-9.41585985965957	1.81925549599409	-4.99983631010058
C	-10.42438470429770	0.03023670217717	-7.06705322779149
H	-9.03583527761682	2.40243069210848	-4.27384611869507
H	-10.40972413652872	1.85198287237805	-5.14638245539950
H	-10.45259221414303	-0.66868506267411	-7.89767240248090
H	-10.88308346635060	0.95904943497028	-7.40879626590677
H	-11.01572627277584	-0.39545607493895	-6.25485849295880
H	-7.99140907583108	-1.56441558902939	-7.12543401958332
H	-7.78874616487372	-0.26686866431701	-8.32453788922950
H	-6.73610816650182	1.54916118099695	-4.93507369092440

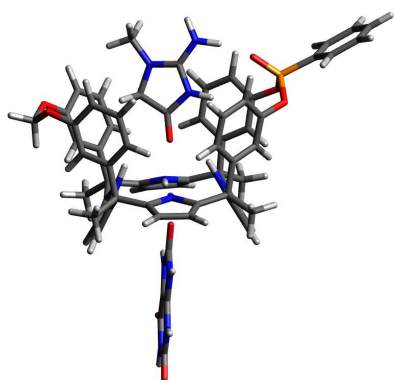


Complex 9,  $E_{tot}(\text{Hartree})$ : **-3674.991534836158**

C	4.31022969887694	1.78334768367432	-2.29364960459792
C	3.49639371106183	2.85418198850152	-2.59820734680897
C	4.17316099104237	4.03544997336788	-2.17977272138574
C	5.38003066781937	3.64952903776077	-1.64195808208525
N	5.43625617207934	2.29061599044845	-1.72300116551756
C	4.09955790088282	0.30203902784116	-2.50135588608074
C	6.50123914407845	4.47738328708508	-1.05917450205622
C	7.70188641333924	4.45052355241301	-1.98079300060782
C	8.11466459907866	5.37317420592534	-2.91030367996253
C	9.32483905826897	4.89982977056413	-3.47542289340721
C	9.62093645493182	3.69810144346716	-2.87749016700279
N	8.62433290328049	3.44431841244959	-1.98155365918442
C	10.80294499127801	2.77806832365538	-3.09148905129496
C	10.39426131266525	1.59004820927930	-3.93103463253223
C	10.72430927700670	1.25951902561698	-5.22394722162832
C	10.08153608386923	0.03229522025568	-5.52697695498086
C	9.37716926659195	-0.35069434427774	-4.41073184929270
N	9.58838162115509	0.59840744052272	-3.45846664285156
C	8.45375857662574	-1.52893429814161	-4.20023923830831
C	7.01925761125473	-1.04854668477651	-4.28963587946422
C	6.13933874499667	-1.02413796074160	-5.34568354809422
C	4.91136562921061	-0.50035189278565	-4.86475309235727
C	5.07709655111194	-0.22032675373132	-3.52878238408711
N	6.35902665250357	-0.54942581514954	-3.21104512831704
C	8.69305028346463	-2.23204624927917	-2.85699136824055
C	4.22395835684290	-0.45938851642672	-1.17550074126147
C	6.86637734697209	4.00226843933233	0.35063293194870
C	11.42587877215510	2.32121473213021	-1.76696556886638
C	11.90494647897663	3.55710400905275	-3.82624759200157
C	6.02484359417832	5.93136047778138	-0.91529804068164
C	2.66813383018839	0.06368536737796	-3.00366335817116
C	8.70916948714552	-2.56190164643980	-5.30681694204318
C	11.36364814279275	3.11493167352815	-0.62426476797265
C	11.98984185151066	2.70832107382355	0.54403967771765
C	12.71164884304977	1.52884932974248	0.60035574826187
C	12.80571822328165	0.75549599246821	-0.54646371320402
C	12.16417396499084	1.13921297253892	-1.71462963043088
C	5.93420706358422	3.37319359068033	1.16885518816287
C	6.26327243128461	3.01233601943803	2.46691743325036
C	7.52346150972663	3.26892036415721	2.97758717299191
C	8.43984634496200	3.92356172799229	2.17217020910580
C	8.12134446878707	4.29419320943201	0.87782818096211

C	4.54218980860233	-1.81616533153216	-1.18404296591497
C	4.58017940026465	-2.54704609551170	-0.00349630772953
C	4.26838887516997	-1.92559278591475	1.20323265499781
C	3.91329130036545	-0.58892072631445	1.20790073232956
C	3.89998101188777	0.15063559606352	0.03124949668673
C	9.89826620140941	-2.13452534410468	-2.17709930842266
C	10.06978444156213	-2.80063858733165	-0.97009280717356
C	9.05775018100426	-3.56833531211924	-0.43052037714514
C	7.85993857466550	-3.70715440526033	-1.12640780244834
C	7.68901318555382	-3.05218332024070	-2.33662108406987
O	11.90715892654005	3.51321687641665	1.66006395744447
O	9.67689308655511	4.26901091689290	2.67076818256359
O	6.95153268588358	-4.54580610201265	-0.55841433325218
O	4.84240871233649	-3.87378540551904	0.07043605529821
C	5.60088470678698	-4.55074530415189	-0.88818913797955
P	10.88068237540378	3.20910228737990	2.87507004222503
C	11.73450757011353	3.88641565195773	4.28289190602302
O	10.43156672304232	1.80046155618551	2.94584474255767
C	10.99253874709036	4.37176238589618	5.35824840502936
C	11.63627124354851	4.78579825615960	6.51169128799510
C	13.01907265279350	4.71734363595808	6.59810880050949
C	13.76050991920194	4.23635394652550	5.52944453660424
C	13.12268682588286	3.81872212828710	4.37269823445475
H	2.49775228291047	2.79507572003027	-3.00198829963942
H	3.78824704101895	5.04175904323564	-2.22557752486189
H	6.22448433916948	1.72979160155983	-1.40971009930084
H	7.64077640790259	6.31681047210915	-3.12714059828886
H	9.93591529061464	5.42113831364612	-4.19409299754020
H	8.53102352584757	2.58651768972881	-1.45116691436735
H	11.39098058495284	1.80440203647388	-5.87300125676626
H	10.16040019942949	-0.51837972870883	-6.45027089782720
H	9.12995630994032	0.59436420752563	-2.55415711566781
H	6.33005027879715	-1.38217626771065	-6.34459030718387
H	4.00019988622623	-0.39832755812978	-5.43255143237305
H	6.77852919158329	-0.42824279320573	-2.29713353853703
H	11.56690311578657	3.91279280038851	-4.79940066912275
H	12.21580728148498	4.41909090537837	-3.23769321732632
H	12.77702567010276	2.92458063861049	-3.98238462669170
H	5.17023056979392	5.98562642365580	-0.24287614425796
H	6.82219532406546	6.54441902461260	-0.49910932854664
H	5.73448865268229	6.36202957964782	-1.87377661208967
H	2.50818673699336	-0.99890643784089	-3.17828206292013
H	1.94382814498837	0.39520739733797	-2.26091947093008
H	2.47152073191755	0.59118038426370	-3.93798369811460
H	8.55026860017207	-2.13919411007795	-6.29931459674297
H	8.04034497773977	-3.41377956156311	-5.19456980865785
H	9.73485655196948	-2.92382294590808	-5.25219069676989
H	10.83655742691178	4.05956212373188	-0.63952836257187
H	13.19298356336484	1.22013396297097	1.51871234978717
H	13.37706042671295	-0.16288303500120	-0.52468520767737
H	12.24925868518105	0.52033357241648	-2.59885055280088
H	4.93841450017672	3.16631427845495	0.80003805715844
H	5.52673918092224	2.51909133845560	3.08760693804618

H	7.78444755195815	2.97927720303754	3.98650957414166
H	8.85091632593226	4.83539444208831	0.28980282225316
H	4.73209997289843	-2.29437308001167	-2.13473604329021
H	4.28572807712575	-2.50291766642597	2.11810868045323
H	3.64324167790670	-0.11455675302700	2.14276414429635
H	3.61366141155938	1.19324201596249	0.05758129291383
H	10.71290776166755	-1.55350938979334	-2.58531902533449
H	11.00767819170715	-2.71069696470818	-0.43792789648314
H	9.18868951601790	-4.07967063229303	0.51381828667135
H	6.78274457685016	-3.17454889407261	-2.91430379995435
H	5.41344406905247	-4.18455101548553	-1.90042919144074
H	5.27410459754706	-5.58696025098570	-0.83020331853698
H	9.91430083769629	4.43875052235485	5.29957098090579
H	11.05901138272763	5.16601941992333	7.34337092073056
H	13.51957641412641	5.04451845078611	7.49955137467603
H	14.83886707268409	4.18892838746913	5.59527803722256
H	13.71242087412003	3.45233127561410	3.54343018741877
C	8.22908664676167	0.36671271304774	0.20702644775693
O	7.87162609293798	0.66847334631264	-0.95700610993263
N	9.51758815502099	0.39094211440576	0.57421655085705
H	10.18402078751599	0.66563336637844	-0.12691478924503
H	9.79420301709012	0.59387033835673	1.52821359147699
N	7.33604311203450	-0.00362461957319	1.13274585326363
H	6.35808721419365	-0.04739691315036	0.90214973506173
H	7.62268085377049	-0.35071116691655	2.02941618884428
N	6.48414623880262	3.61057449064571	-7.00798226992602
C	5.45118073975304	3.85212187454758	-6.21657317493040
N	5.60512100627039	3.28106017868732	-5.02038421437162
C	6.83504712087433	2.60961647093424	-4.95180710560603
C	7.48136953282392	2.82186913446081	-6.30086333929612
O	7.24493134885488	2.01635672238099	-4.01633154186474
N	4.39004521547496	4.56666137562712	-6.55292720093573
C	6.64554338510271	4.11254857634850	-8.35293122731058
H	3.64862796869568	4.72226731584279	-5.89139983889255
H	4.30969707935892	5.01279532272237	-7.44997766811307
H	7.49559839806741	3.61244687118497	-8.80822685528996
H	6.83840510598799	5.18633180322346	-8.36704476187534
H	5.77349316614578	3.88809201968967	-8.96835041491305
H	7.67404071117619	1.86056654784124	-6.78255108354289
H	8.42796735201139	3.35423311229546	-6.17985910993083
H	4.92721599163970	3.29511318053830	-4.25209785632378



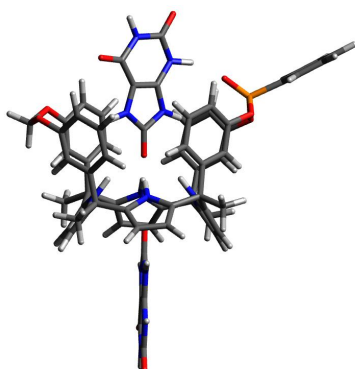
Complex 10,  $E_{tot}(\text{Hartree})$ : -4086.538308700876

C	-2.51849897884262	2.76142819379744	0.45104752309170
C	-3.12451902867220	3.95432131272219	0.14787695186637
C	-2.49472582820050	4.96055268431980	0.92726188566272
C	-1.51762112449673	4.35443129831612	1.67587096495999
N	-1.56193050646132	3.01914082365466	1.39069678956826
C	-2.85271758484275	1.35352084807987	0.02586466594038
C	-0.63590161893343	4.91237031276678	2.76553471506750
C	0.79984226656983	4.45194271249830	2.64163787156348
C	1.88291120270416	5.05883983290534	2.05700221588810
C	3.00968794957728	4.22732718477651	2.27241646299675
C	2.58996425098441	3.13099247235116	2.98268055603582
N	1.24900500303448	3.28463732418138	3.18909611678072
C	3.36536239131152	1.96382113246714	3.55104684849716
C	3.26407060008788	0.72604228743839	2.68982021516785
C	4.18678790423268	-0.26141713204093	2.44186794900913
C	3.52017563494024	-1.30491299598704	1.74682128338189
C	2.20964277452372	-0.92429622414620	1.58926405835978
N	2.07433694524145	0.29961402949449	2.17603543206319
C	1.02775137417014	-1.67979435622484	1.03106127572222
C	0.14191213594482	-0.79612242763778	0.18146678150960
C	0.08984815170477	-0.61830787564524	-1.17780607123181
C	-1.00972694144732	0.23096901375922	-1.45913813651158
C	-1.60563233433391	0.55276629615273	-0.26568661007491
N	-0.87940180161681	-0.06259152458513	0.71490796213624
C	0.18112622983690	-2.29984734434272	2.15844588792487
C	-3.71408993919057	0.65482833406040	1.09754047435166
C	-1.19068044723186	4.53298666083748	4.14802408560082
C	2.86452412462056	1.65389274676582	4.97379627816207
C	4.84520684556034	2.35717508930777	3.68002734331506
C	-0.67197955782068	6.44764966598207	2.68562901847555
C	-3.71626351874874	1.41257519848989	-1.24458755112666
C	1.55145340444151	-2.83924317082926	0.16893616842254
C	2.56839363186214	2.70266494401256	5.84506159868821
C	2.19481520701560	2.44281646412510	7.15276960171639
C	2.10744024192619	1.14488303371718	7.63690659594982
C	2.40273876623470	0.10476780414150	6.77022252170667
C	2.77031966779006	0.35212408318258	5.45566807776979
C	-2.46365888536947	3.99875309028504	4.32222849689501
C	-2.97266905711504	3.77570547563535	5.59483384164527
C	-2.22461266655520	4.06705586582944	6.72361672584470
C	-0.94935430588045	4.58074126827348	6.54563392680001
C	-0.43234560260632	4.81425744767817	5.28444468978609

C	-3.78612641970648	-0.73947529154840	1.13009654350194
C	-4.65148808397416	-1.39233569025920	2.00066824428156
C	-5.47498843845572	-0.64655765605976	2.84242950186281
C	-5.41150495105693	0.73548593336550	2.80531399073022
C	-4.52748291174287	1.38866626555296	1.95573138241345
C	0.62944288589228	-2.38404935665278	3.46991792162573
C	-0.14473156203367	-3.02303757853218	4.43058444277412
C	-1.37732816147850	-3.56438729230460	4.10902295196197
C	-1.83814198059184	-3.48090899146474	2.79619744933059
C	-1.05675061642107	-2.85809792755372	1.83313758990463
O	1.95778791633054	3.52104706251151	7.98864959334594
O	-0.18097402659229	4.93197843944725	7.64166201704211
O	-3.02167745309428	-4.10019264466031	2.54332621774017
O	-4.81773693020129	-2.73580558259490	2.07887164414230
C	-3.90763708750941	-3.66022112896851	1.56222859011923
P	0.51063248686238	3.85192485334176	8.61057391994935
C	0.90198424767147	4.81875079882762	10.04462004023410
O	-0.31366182970636	2.62005456211431	8.77892971400642
C	0.07020490082665	5.86940703699486	10.42927205917024
C	0.34943351230162	6.57834899015600	11.58552962566914
C	1.45089280086806	6.24245831072826	12.35903322330671
C	2.27914789584383	5.19675090090863	11.97767072358955
C	2.00881090450651	4.48256035114605	10.82281322902476
H	-3.94647997778250	4.09892278824090	-0.53417568649784
H	-2.75994659195883	6.00451561603987	0.94062668132186
H	-0.76884109603433	2.41033126021453	1.51794582117615
H	1.88241338827053	6.00705362049414	1.54350973655803
H	4.01975947088569	4.43597307642054	1.95895604102516
H	0.67664724300353	2.63263530479500	3.70115066277821
H	5.21932352197100	-0.26683186981640	2.75162681936030
H	3.95930993149079	-2.23832405098447	1.43323051039039
H	1.32905535488319	0.93562578682498	1.93938607183950
H	0.74265653496469	-1.07433917678865	-1.90447350356762
H	-1.33502527299117	0.54368553790122	-2.43803784167768
H	-1.11279202478847	-0.05564123713414	1.69405955251195
H	5.27970220935840	2.57161986644344	2.70443656116898
H	4.95728201080523	3.23830793527673	4.30885217931120
H	5.41760857084385	1.55019609234237	4.13424624359520
H	-1.67678823086369	6.81779915503437	2.88280411727060
H	-0.00458889500971	6.88716046822502	3.42457983368143
H	-0.36802826575708	6.79620235722226	1.69934657268879
H	-3.96206256464196	0.40862682097623	-1.58693002610034
H	-4.65214010159868	1.93265825802521	-1.04496121672469
H	-3.20056113930479	1.93945617305724	-2.04674030179082
H	2.19165415054279	-2.47226271863245	-0.63212337991362
H	0.72597962274256	-3.38933042090870	-0.27871371178650
H	2.12862452951246	-3.53716969111974	0.77313307679053
H	2.65118640867702	3.72939192913653	5.51066968701531
H	1.84271916573889	0.95229138748008	8.66732903616359
H	2.35648144566658	-0.91497914620287	7.13030120635698
H	3.00916924012471	-0.47968373216655	4.80797489485140
H	-3.07978552111794	3.78607372424404	3.46006501993036
H	-3.98007374224843	3.39449178193527	5.70649457284693

H	-2.63165737080538	3.92763480120404	7.71604461460225
H	0.55546740229719	5.24989172084601	5.18842862201527
H	-3.17548021414001	-1.29517157976014	0.43215682330302
H	-6.18361208217042	-1.15796854803725	3.48222119549553
H	-6.07135441026969	1.31645048390725	3.43790180404526
H	-4.50671686236207	2.46999201403551	1.92773232095141
H	1.59194611268082	-1.97484589863459	3.74030853451520
H	0.22599869180589	-3.11029077730183	5.44458899768623
H	-1.97186528341050	-4.08370088832606	4.85002252152798
H	-1.38062124377015	-2.81602081024566	0.80040950090103
H	-3.40120187565929	-3.28912420489880	0.66835683222891
H	-4.49632475021023	-4.53249553029286	1.28753890824684
H	-0.78341621514176	6.15256219413450	9.82865633047387
H	-0.28982349659634	7.39984888275057	11.87932065261426
H	1.66819405228037	6.80050041998567	13.26004820837496
H	3.14281619616358	4.94074881195398	12.57613638406217
H	2.67231343419312	3.68065897747046	10.52833265928028
N	-2.87689083512826	-0.18437155634015	6.07706787500295
C	-2.02136499181894	0.51075926457552	6.80739061682785
N	-1.02446882771997	0.99455691547078	6.02578419662945
C	-1.22418001142715	0.65312198757007	4.70708539867696
C	-2.48512613304603	-0.16245386514462	4.68053581362526
O	-0.52735688440495	0.95754785910771	3.78157272485812
N	-2.07384840717174	0.72792594238292	8.09556037129669
C	-4.04413677148756	-0.87405150118506	6.57631512066531
H	-1.41712368660101	1.41263693035712	8.51192463371339
H	-2.82594942349696	0.36148844893960	8.65343212067431
H	-4.57268482344495	-1.30667294612176	5.73138212757041
H	-4.72861407950951	-0.19097382027171	7.08081087590897
H	-3.77053901222637	-1.68556249865372	7.25149878811413
H	-2.28773978592788	-1.16515408395112	4.29375239343207
H	-3.24000186533627	0.32214052630982	4.05540716295195
H	-0.23602483347353	1.52351623320009	6.38257633788720
N	2.57179778432937	4.11015798224963	-4.75592835568810
C	3.70614014725941	3.34717265478284	-4.57849075996661
O	4.59241637981683	3.26348541687963	-5.38670036519236
N	3.75019922811054	2.66765271868692	-3.36771421901845
C	2.72607626150164	2.76895092435534	-2.48345253192088
N	2.59982611669492	2.19123287262557	-1.25923001463236
C	1.39352604899501	2.58453546942372	-0.67716170939683
O	0.99695651484659	2.25246994395383	0.41808840745236
N	0.81308120977735	3.39889622820280	-1.59208473826849
C	1.62587832059041	3.52248189625589	-2.70965396265781
C	1.46724457613769	4.28385295878825	-3.90716190390825
O	0.53862689547042	4.99637458372754	-4.20171793957305
H	2.53717778683424	4.61265173751471	-5.63298141949728
H	4.56342556990254	2.09688918904771	-3.20348235027191
H	3.23741305310877	1.56550013424002	-0.79399025316013
H	-0.06877846247185	3.86405539444717	-1.45030472888270



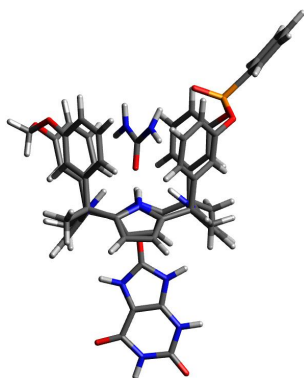


Complex 11a,  $E_{tot}$ (Hartree): **-4327.202864607931**

N	-5.52428753286403	10.66913824162776	5.11897986251704
C	-4.57161330955610	10.48771294038758	4.13071732059528
O	-3.93205539505595	11.39668502863702	3.66863967989080
N	-4.41868606664815	9.17672937481934	3.71727115581181
C	-5.12452751565263	8.19849905789349	4.32888995137382
N	-5.11047008066169	6.86549104294501	4.05643782528614
C	-5.97066827647017	6.20939189367652	4.91272328139765
O	-6.17152482815720	4.99085941941036	4.93660820526109
N	-6.50842842964228	7.16381181545731	5.69264780435684
C	-6.00536881332183	8.40673384531529	5.33722860295583
C	-6.27336643378938	9.72207321785882	5.82816040724481
O	-7.02502291150498	10.04363330327707	6.71864281896600
H	-5.64674022524193	11.62888758975626	5.41047274520263
H	-3.58024288328967	8.93242327774021	3.18491581397426
H	-4.56179260366382	6.40386872082631	3.34565123662527
H	-7.20134387291468	7.00338178866830	6.40977108144279
C	-8.52472873966119	2.71233852739107	2.70018200290471
C	-8.64987987316526	1.66065632167684	1.82419275781292
C	-7.34460315500585	1.30335353741551	1.39738009306436
C	-6.45960389333959	2.14676307644928	2.02684458221630
N	-7.19689165038580	2.99034801084620	2.79890183747335
C	-9.57474180552778	3.43774717704958	3.51002696063954
C	-4.95631823806221	2.24274930691194	1.92734456456443
C	-4.29529067913966	1.82504180231229	3.21992255070257
C	-3.62968178368540	0.67270245767119	3.55520510188530
C	-3.16164073173183	0.82026497518515	4.88544126066111
C	-3.55462870221528	2.05951609421793	5.32376561245462
N	-4.23033895658612	2.65055529184807	4.30127939387062
C	-3.33248455832995	2.76463233117063	6.64284701493140
C	-4.52882344741728	2.55948523861743	7.54431687966767
C	-4.66981042045758	1.75078739048484	8.64762890788981
C	-6.01344290372430	1.86424207047723	9.09062643429268
C	-6.65541021482929	2.74108353924367	8.24625808758013
N	-5.73753388433792	3.14791909529374	7.32796559145755
C	-8.07006691263771	3.27371666949016	8.28481728573157
C	-8.85232077321760	2.84185571454144	7.06776649202108
C	-9.86916008921308	1.92937293615733	6.92576782815743
C	-10.30805365885429	1.98385476929995	5.57805341871167
C	-9.54599532299387	2.92804850211408	4.93569824989159
N	-8.67704547077851	3.42978051372402	5.85357273022501
C	-8.06870361741559	4.80534372817932	8.40600699801714
C	-9.37623263912575	4.96103806742087	3.50595872375458

C	-4.52032669278153	3.66221539522663	1.54602764655035
C	-3.01596461834045	4.24458074564986	6.38363924092891
C	-2.09955222720657	2.16059457022413	7.33161192537958
C	-4.47136482912623	1.32020273616269	0.79965113787430
C	-10.95364408231444	3.14795050857930	2.90152703638332
C	-8.76471989642331	2.73118826510959	9.54154187892802
C	-2.11291608090654	4.56312183862560	5.36794311878341
C	-1.74948867971516	5.87550084208634	5.13601641916981
C	-2.27038394058407	6.91552032278454	5.89023793090241
C	-3.16526828602651	6.60132564130546	6.89835830677928
C	-3.52967494651529	5.28407655477365	7.14999839448374
C	-5.35978227963085	4.52130186125063	0.84281270727385
C	-4.92128921690168	5.77866286748001	0.45311272883900
C	-3.63847107256558	6.21123010402156	0.75118651807015
C	-2.79875033223199	5.34443563099485	1.43555756319730
C	-3.22532241025744	4.08963220728649	1.83195160094495
C	-9.99268311349737	5.71287964899488	4.50909256361095
C	-9.82991485337618	7.08773780370047	4.58076186116124
C	-9.06384012957241	7.74038272977216	3.61606697962980
C	-8.49739158723024	7.00583697681617	2.59392626987553
C	-8.64799176651739	5.62486653156170	2.52953299585748
C	-7.01665994497648	5.47725111821486	9.02090714942401
C	-7.06137656855011	6.85630235527597	9.17155135622278
C	-8.14585714249246	7.58849862090115	8.71841305268894
C	-9.21974935057682	6.91902111620528	8.14040765376157
C	-9.17820582861628	5.53811300766463	7.98454166278887
O	-0.79822265626594	6.12006418268598	4.15868739404172
O	-1.48885191907705	5.69422155312136	1.70530153089218
O	-10.29887197331094	7.68227898775489	7.81430263801911
O	-10.37869654444015	7.89535596088498	5.52523061763815
C	-11.03615210700287	7.42536476082713	6.66293245900993
P	-1.10305118757444	6.85238786923399	2.76049633226361
C	0.53071221195747	7.31157084999780	2.22063204530026
O	-2.14538838514995	7.90286605641534	2.84474900642157
C	0.77716068204816	7.45899650847436	0.85674651352809
C	2.02153330398841	7.88156032300045	0.42163089033963
C	3.02197817817080	8.16028251888443	1.34134305314177
C	2.77826268319450	8.01778762437194	2.69870884357006
C	1.53520607748044	7.59644174837214	3.14246668183774
H	-9.56977163388979	1.20068113622592	1.50270278830513
H	-7.10157047582005	0.53173254484730	0.68470266294698
H	-6.81606166959212	3.68160645893298	3.42807907920770
H	-3.47478033805288	-0.18122423945587	2.91595514819367
H	-2.58617922100425	0.09806090925009	5.44118932823850
H	-4.69908011347005	3.54021980048896	4.38262930385930
H	-3.89626881359810	1.16365251501514	9.11433805668923
H	-6.43812434862866	1.39523673859932	9.96354069845624
H	-5.93942180179757	3.74490742187212	6.53743246040295
H	-10.28333864815300	1.30823667331581	7.70308462963181
H	-11.10218299403457	1.39806532705499	5.14420914445545
H	-7.97809725341846	4.12602754478648	5.64189269250560
H	-2.24251838046454	1.10070215921674	7.53898958766865
H	-1.22089612106737	2.25616618519743	6.69622871003387

H	-1.90032212138009	2.66993836969927	8.27368816301707
H	-4.90226314559772	1.62418562358770	-0.15302320756775
H	-3.38683955545240	1.36651745113439	0.71260173192395
H	-4.75426981161530	0.28525949083707	0.98762630155277
H	-11.73521747371293	3.64909961271838	3.46998063066938
H	-10.99792680124515	3.50260532611637	1.87271474727445
H	-11.17147651939531	2.08031526177102	2.90419843514312
H	-8.78677242859439	1.64112894705721	9.54208942971594
H	-9.79098888244881	3.09123406466084	9.59363691911825
H	-8.24474227436726	3.06485707344227	10.43868993488472
H	-1.67326205861748	3.77918938809761	4.76343527719969
H	-1.98237729847091	7.94039804628896	5.69845125991352
H	-3.58724916221500	7.39457788716467	7.50181234232639
H	-4.22310249738242	5.07827100063168	7.95223957294520
H	-6.36137993301447	4.20367639443987	0.58649065613421
H	-5.58652124977833	6.43256783716641	-0.09541209647816
H	-3.29675211807076	7.18918053645194	0.44219582066847
H	-2.53401951401905	3.43774440901199	2.35102322122178
H	-10.60225947675646	5.18371780629921	5.22805357593299
H	-8.93371424716628	8.81300569991697	3.67582565987020
H	-7.91867244708971	7.51432902361215	1.83321745777776
H	-8.19455688497089	5.07917339546843	1.71493211413708
H	-6.16326584645197	4.92434087579315	9.39158928958529
H	-6.23248897075793	7.37322615800399	9.63744260125568
H	-8.17283260415637	8.66508567046111	8.80802084915638
H	-10.01817383534930	5.00342605740251	7.55903755707928
H	-11.31745927966378	6.37294191161702	6.58033607078449
H	-11.94384430343105	8.01667704076305	6.77268633547497
H	0.00827844959171	7.23464458004929	0.12930494338551
H	2.21189493571582	7.98860623347330	-0.63743466767070
H	3.99427777265290	8.48758435832936	0.99829068440685
H	3.55868190125532	8.23101545109673	3.41631213075585
H	1.36000389024025	7.48192877116850	4.20326210528517
N	-7.73425668184137	-4.12790484399702	5.33823991933740
C	-7.30982096278087	-4.07098546364012	6.64562829771076
O	-7.26549107526626	-5.02718939426017	7.37925968334392
N	-6.93000928366041	-2.80513334221754	7.05963099815635
C	-6.99239286226585	-1.74681951895856	6.20756195997642
N	-6.66167139160933	-0.45580692852552	6.44407129648491
C	-6.87785511700837	0.30396780705364	5.28363650333947
O	-6.67911131295122	1.48579812545314	5.17119710465692
N	-7.34477337513273	-0.58728067754326	4.36711384146862
C	-7.42052530624655	-1.85456075612078	4.92393901504575
C	-7.83736679268919	-3.10168439557371	4.37894554748784
O	-8.23654546462423	-3.32827175034056	3.25977545965295
H	-8.01264264198231	-5.04680998347587	5.02395046464827
H	-6.60564529075435	-2.71635507853654	8.00842064492505
H	-6.31663638194916	-0.02534988199432	7.29232023677307
H	-7.60067598976143	-0.31616543718860	3.42884501602034

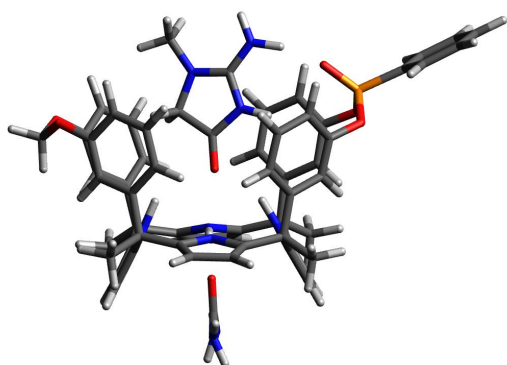


Complex 12a,  $E_{tot}$ (Hartree): **-3915.642021536771**

C	0.39715467026496	12.79082248553830	3.27456232839838
C	0.91964393711946	13.91149703213789	2.67743767997174
C	2.30341958665494	13.94921127152987	2.97890096447559
C	2.58788049863202	12.85025983892869	3.75229000903402
N	1.42043296378921	12.17032492925284	3.92391603346492
C	-1.02523892509795	12.28254446735720	3.33248039586332
C	3.89628634278096	12.39593131431636	4.35805210548607
C	4.46923344259649	11.22478537234384	3.59232011054848
C	5.54925333794654	11.15230304629466	2.74411527483087
C	5.67566183831928	9.79790468091091	2.33356251227330
C	4.66892335708815	9.08413744110876	2.94328603576126
N	3.96423195006276	9.96662390934488	3.70212586149662
C	4.37022463867557	7.60294866872714	2.91222607728403
C	3.05235612739248	7.29934862977976	2.23500715361051
C	2.79609196775029	6.63502606196434	1.05996876747896
C	1.38957954370925	6.54165997252011	0.91885216614617
C	0.82516230857236	7.15117197252546	2.01177819392990
N	1.84600992796256	7.59123279181577	2.79714878527572
C	-0.62641852363577	7.37111167103506	2.37651374698920
C	-1.01490297687719	8.80962253137586	2.11048433326180
C	-1.73628341053452	9.37380232175123	1.08569373494580
C	-1.84485057534432	10.76320923582320	1.35858124152109
C	-1.18498106270313	11.00408751621651	2.54212200565177
N	-0.69807194400093	9.81143513734924	2.97395036216999
C	-0.88336463320617	7.00750072416993	3.84697167427644
C	-1.46263167585024	12.08955794536414	4.79380985184507
C	3.73646364954233	12.03683849025679	5.84230020988522
C	4.38786006639055	7.00818765857105	4.32846756932132
C	5.49171005246147	6.90163210024924	2.13235809132341
C	4.89873388736608	13.55764640223371	4.29737096936953
C	-1.95586181835289	13.34520053221721	2.72998692217092
C	-1.50265959880509	6.45052638792332	1.51770527767063
C	5.11944483815623	7.59639708803732	5.35678193298509
C	5.14626459572387	7.01882879167803	6.61618443868466
C	4.47686395584310	5.83757799323238	6.88200929328939
C	3.77849508398883	5.22970633002463	5.84903640224882
C	3.72411514579506	5.80978844337476	4.59099151038229
C	2.76568553781751	12.64242541198773	6.63413384968654
C	2.67196472029365	12.35191203574704	7.98649387063370
C	3.54123967543482	11.45500140532913	8.58422924172594
C	4.52732473587249	10.87992915813523	7.80191422549483
C	4.63327033309386	11.16276712156888	6.45237607107865

C	-2.43649903219018	11.14991981903642	5.12636113389980
C	-2.86611342677530	10.99985270215491	6.43976729731318
C	-2.34482974909068	11.81547393930096	7.43784918601935
C	-1.41150156293269	12.78221433333582	7.10274836978843
C	-0.96108461199425	12.91571286836718	5.79650229683122
C	-0.15172799197088	6.01136715176840	4.48097684215366
C	-0.39895625900532	5.71090000433050	5.81245848025857
C	-1.36549033204599	6.38943963449198	6.52927241018157
C	-2.12687047075003	7.36470122062333	5.89330655191978
C	-1.90046023836461	7.64752294451610	4.55382691401207
O	5.87748715190667	7.63347396518698	7.61257910036453
O	5.47203707219510	10.05047244308743	8.37732298580240
O	-3.05373774798453	7.97459886488640	6.68117922710253
O	-3.83427727939917	10.12723393973532	6.83089292069731
C	-3.99323920490789	8.89141824563982	6.20915169575609
P	5.20022592227128	8.51552242225404	8.78741820307664
C	6.35873239366914	8.28890962977864	10.12641050008953
O	3.78216544468609	8.19075695278768	9.05537574316409
C	6.58121163658521	9.31974937074520	11.03603506613907
C	7.38717800062326	9.10549462813230	12.14221966862010
C	7.97087855451836	7.86431025769793	12.34808557848895
C	7.75247306736180	6.83571735466894	11.44370810558403
C	6.94736467399362	7.04405245461911	10.33587412230655
H	0.37449148899426	14.64041016195927	2.10060719037110
H	2.99896948158013	14.71294139776393	2.67158027207012
H	1.34001711496158	11.28425336536531	4.40550599214481
H	6.20796394252307	11.96264930917852	2.47624703489090
H	6.45138553265906	9.39355429424261	1.70337800428717
H	3.11569003126010	9.74329175075578	4.20774483426754
H	3.53056906167228	6.23713098368465	0.37869744027067
H	0.86349357040706	6.07411301230057	0.10320781465422
H	1.70224774905292	8.13541965927726	3.63816975984604
H	-2.16449262443779	8.85535071279190	0.24332845593566
H	-2.38084750863375	11.48841968004562	0.76737833240960
H	-0.12295404234670	9.67975234296797	3.79838335592183
H	5.53771678735037	7.26454512063405	1.10520245788885
H	6.45618945918059	7.08146245824375	2.60534674482401
H	5.32129600667933	5.82662403624493	2.10461272501747
H	4.51621209445174	14.41516978463839	4.84868516737855
H	5.84786850564203	13.26208426926443	4.74228135437717
H	5.08585614249575	13.86999026070682	3.26998009486807
H	-2.99006657904280	13.00573493132561	2.76650826936154
H	-1.88469984696733	14.27731470514196	3.28835554266472
H	-1.69749542436612	13.54578003730453	1.69010595857373
H	-1.36833994770773	6.64837136382996	0.45463901261365
H	-2.55480694335545	6.59529653399242	1.75794100941427
H	-1.25069249627630	5.40771177137811	1.70258911781663
H	5.67751309973521	8.50723703898547	5.18598454651105
H	4.49535162987976	5.40291342429873	7.87251819443541
H	3.25698455144446	4.29990324481248	6.03427352862439
H	3.16426965757872	5.32541301876341	3.80158254308859
H	2.07542043309506	13.34713781816462	6.19160127596898
H	1.90256830213240	12.82584039959100	8.58206624150231

H	3.46233736852334	11.21656990004953	9.63640983482788
H	5.43417146917620	10.71283853272420	5.88009376137442
H	-2.87225478492004	10.56166072388448	4.33043021627221
H	-2.68971157258173	11.69910151546469	8.45690849998554
H	-1.02181272844919	13.43653783666426	7.87257342337550
H	-0.22981343311711	13.67650987175317	5.55575475067235
H	0.61675664223244	5.47446949733043	3.94201801097986
H	0.18402500696148	4.94405896852703	6.30586639753082
H	-1.54205361089477	6.17105613348957	7.57426494550064
H	-2.49731087727152	8.37719761318786	4.02829333994464
H	-3.99129812005710	8.96977372812112	5.11969449659725
H	-4.97652973740204	8.54594479268394	6.52744500686981
H	6.13739827100865	10.29434847718643	10.88323469390616
H	7.56241250534664	9.91079522840173	12.84284193885492
H	8.59924393036704	7.69891824039015	13.21332924366947
H	8.21218656724837	5.86882483484307	11.59878139785906
H	6.78960887053413	6.23550975830794	9.63478035952896
C	1.26673053940906	9.13270500510921	6.31057145324054
O	1.30437198268778	9.42498213558118	5.09338891760892
N	1.91418661725035	8.06684332649970	6.79816821961701
H	2.42769038853305	7.50276006014738	6.14337743059884
H	2.25203428252651	8.03755970817591	7.75094133541350
N	0.56246673738617	9.87422445631843	7.17450687674341
H	0.07504956003754	10.69261017553651	6.85134313321689
H	0.40824385725356	9.58120769992026	8.12101638771456
N	2.53283842083183	11.95721083428907	-3.65924310742124
C	3.87708499775191	11.99826632839721	-3.37134069312002
O	4.72492014859523	12.31847533878906	-4.16770283553738
N	4.18391935798659	11.63695837993168	-2.07143204142347
C	3.20255451362968	11.28441599944775	-1.19857208750378
N	3.32983522428159	10.91326781144778	0.09504939126437
C	2.06325207336757	10.63929135963385	0.63253988248408
O	1.84094630985749	10.29264182201800	1.76371171014118
N	1.19670195706736	10.85776530937071	-0.39507056407346
C	1.88617756531547	11.25982845962450	-1.52955851139353
C	1.44317901692176	11.60832377276040	-2.83686346536279
O	0.30992984411527	11.62773484783252	-3.25952800021587
H	2.29466840426684	12.21806417015011	-4.60555892882328
H	5.15795856473306	11.63928894931498	-1.81746728652311
H	4.16560433150267	10.82098161871048	0.66000787992997
H	0.19903425607488	10.74961966558485	-0.28999185577120



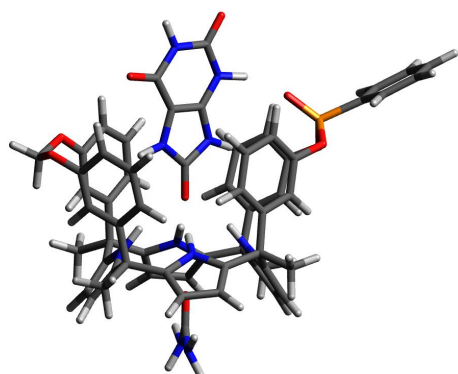
Complex 13,  $E_{tot}$ (Hartree): **-3674.985515649129**

C	-1.92302858023396	2.41118370136793	-2.88135085828753
C	-2.67674478452884	3.54582444699920	-2.71496464319779
C	-2.25610100644486	4.16458837876425	-1.50773767833583
C	-1.25309301300930	3.39271010722852	-0.97861500987790
N	-1.07500152867565	2.32427729637273	-1.81278726354958
C	-2.04803219079547	1.30097159407957	-3.89719022380431
C	-0.54996024318088	3.48885487328977	0.35321875126823
C	0.93218539043735	3.20243123757813	0.25117110958869
C	1.99993076087801	4.05637156972398	0.13376655721004
C	3.17981472901341	3.27314844556429	0.14551957591606
C	2.80600908989766	1.95787875235551	0.26768954751365
N	1.44283555670849	1.93881959047256	0.32402316036095
C	3.63825323548933	0.70392816733499	0.41029717999776
C	3.77040061740336	-0.05948171271557	-0.88667040996012
C	4.81786554326980	-0.80213251781736	-1.37516705123501
C	4.35084259699487	-1.49558447654114	-2.52253366840154
C	3.03279956048374	-1.15373638262485	-2.70254993593952
N	2.69711745852143	-0.29752574470256	-1.69550273363127
C	2.01072548609394	-1.66807870737649	-3.68762208917374
C	1.12226271274863	-0.56231530255026	-4.21331226280377
C	1.19846768920376	0.17058877724669	-5.36961013327512
C	0.05219985171477	0.99989352435720	-5.42974974075850
C	-0.69958927808035	0.75872864349454	-4.30782286259144
N	-0.02302852184922	-0.17568387388408	-3.57553450652185
C	1.13295359282440	-2.75876639370319	-3.04609428106046
C	-2.94681854438930	0.17378336466823	-3.34666513965253
C	-1.19895811610096	2.52413636013066	1.36052621312765
C	3.02445980862977	-0.20709816557987	1.49014814592724
C	5.04133728411696	1.09287666442230	0.90219787717293
C	-0.74461606460133	4.91089176250563	0.90474115714719
C	-2.76045514087079	1.85261744301960	-5.14309699312695
C	2.75356720434028	-2.31591841893948	-4.86646455282601
C	2.52348685461816	0.34962056287498	2.66717823490213
C	2.04431075807670	-0.46621778648351	3.67836975101343
C	2.05041424957989	-1.84901329878504	3.55991484874474
C	2.54712094359912	-2.39982671426181	2.38953183543649
C	3.02184640908437	-1.59278051372684	1.36632878360690
C	-2.40997269970432	1.88669691460997	1.10879451117002
C	-3.02207010043540	1.11035528144938	2.08406565297812
C	-2.43888165300348	0.93648331613906	3.32814220253031
C	-1.22027384001931	1.55251681009891	3.56660199682737
C	-0.60306437996821	2.33473838755596	2.60735838725277

C	-2.86556674179581	-1.10902431897048	-3.89344489850277
C	-3.74139836746865	-2.11312051007179	-3.49521681594449
C	-4.72917930869923	-1.83433193195902	-2.55300281539506
C	-4.82087072902116	-0.56020498881921	-2.02189136362802
C	-3.92977565366598	0.43640825273761	-2.39747265369278
C	1.46711884579843	-3.37320637370517	-1.84626241659830
C	0.67748409345330	-4.39941720393863	-1.34392605985110
C	-0.46318661259136	-4.81319626332908	-2.00917882251332
C	-0.80629658432369	-4.20558043252605	-3.21533916769671
C	-0.00540403178228	-3.19447395886171	-3.72816104314440
O	1.60774683944655	0.13425346982957	4.84758638421533
O	-0.61760775869232	1.44799819605972	4.80856024796724
O	-1.89930593940849	-4.71575230664218	-3.84390001970380
O	-3.76518634968039	-3.37598555652234	-3.99069694838453
C	-2.70340317167735	-3.95336714520219	-4.68938842305293
P	0.07601411169145	0.09776880454150	5.33648040682996
C	0.20839520869882	0.39117712388789	7.08093093911274
O	-0.62790707538672	-1.13077562249044	4.86645832327033
C	-0.76696166385322	1.13708196395300	7.74143454647753
C	-0.67953374020514	1.32101623571708	9.11099600664048
C	0.37236005439868	0.76271445107408	9.82213679047836
C	1.33919744453376	0.01356762446970	9.16737739760405
C	1.26158981171455	-0.17486301764365	7.79801835453296
H	-3.47002019559735	3.89086814669047	-3.35853097638812
H	-2.67623869073658	5.05842417280190	-1.07649031765784
H	-0.17653718846764	1.85975337993222	-1.88499844370573
H	1.94996557609098	5.13071626162303	0.06586783530161
H	4.18972160990886	3.64697188374440	0.10021032797786
H	0.88792233040405	1.09983798599188	0.39033477330885
H	5.80375889027685	-0.87813678815749	-0.94593136432330
H	4.92388947081197	-2.18340845675991	-3.12218429635632
H	1.93184534255565	0.35720856524149	-1.77853521065269
H	1.98101247420720	0.11096947056595	-6.10757447168434
H	-0.19725062699579	1.67946094533111	-6.22827881802311
H	-0.36166233959387	-0.59133456693274	-2.72386261074588
H	5.55699477941863	1.70099328626205	0.15941697988369
H	4.97962348706699	1.66139888697473	1.82919745726246
H	5.64673249698757	0.20779085293080	1.09362531407214
H	-1.80195341454846	5.12485348079822	1.05630180050606
H	-0.23997217840108	5.03111378404962	1.86228945231274
H	-0.34373402255511	5.64971144650145	0.21196009573270
H	-2.83771544723564	1.08679060071803	-5.91327289397188
H	-3.76954856541544	2.17936948157746	-4.89654261086194
H	-2.21956865207526	2.70521779464411	-5.55214246320012
H	3.41594180421666	-1.59880203177321	-5.35017695992845
H	2.05322019262764	-2.69187825730861	-5.61061861937694
H	3.35374198893656	-3.15758107935826	-4.52379922879782
H	2.53094580643521	1.42290018562314	2.81155316593893
H	1.70496191117182	-2.47743572360263	4.36895611143956
H	2.57612380902186	-3.47592669598356	2.27824584997585
H	3.42161659257442	-2.04956808583779	0.47225439939775
H	-2.89974514273018	2.02052085201063	0.15479870634923
H	-3.98396016029824	0.65886696690721	1.87539546006987



H	-2.93085290649320	0.36348045933769	4.10204113397534
H	0.33526874466612	2.82031666744970	2.84770389231379
H	-2.12795244209416	-1.28388244145648	-4.66456173830167
H	-5.43776895244557	-2.60679391872602	-2.28164573056687
H	-5.60746201046385	-0.33493990869220	-1.31247075303632
H	-4.02734885460387	1.43070375576984	-1.98334821581994
H	2.35775116065740	-3.07143593601171	-1.31511905939052
H	0.96247181086775	-4.88926000601907	-0.42125905316165
H	-1.07193859299958	-5.62358237441456	-1.62857223482595
H	-0.23585061300132	-2.73986281914510	-4.68361283933404
H	-2.13487685210602	-3.21969826179333	-5.26659169076862
H	-3.15708642233325	-4.65999857615072	-5.38079952796845
H	-1.58480958600550	1.58809410072861	7.19643144989944
H	-1.43032691796062	1.90738355390397	9.62273254279050
H	0.44212443175452	0.91663980202452	10.89046688305480
H	2.16043443466604	-0.41818896472312	9.72265297057629
H	2.03069680548472	-0.74649319844273	7.29621556691149
N	-2.52550112758961	-2.67011189920693	0.90552988284379
C	-1.83685463542322	-2.30362746429523	1.97410219768421
N	-0.82955349577325	-1.46985767986412	1.61847774396970
C	-0.85480454312233	-1.21965470716935	0.26387019756833
C	-1.99688709922034	-2.02780744549367	-0.28270143622896
O	-0.11508542991756	-0.49652525756317	-0.33884415029128
N	-2.05017106848670	-2.67082103434749	3.21116113227201
C	-3.62929659602390	-3.60237115549906	0.90077892464831
H	-1.52861580119805	-2.19849955491904	3.97104397876195
H	-2.81576558338297	-3.28027974571244	3.44265975149546
H	-3.99884165240239	-3.69342654269909	-0.11675388210043
H	-4.45370424747330	-3.25025368958037	1.52232507846654
H	-3.31465052117378	-4.59292573796095	1.23178081474106
H	-1.64109108035178	-2.75300419374673	-1.01847366117362
H	-2.73388536070015	-1.37320437078322	-0.75714900432258
H	-0.15842993873627	-1.08152571277618	2.27289600300259
C	2.19871045483087	2.96691977724805	-3.26349138021613
O	1.59317556790610	2.12005006432610	-2.62393747294441
N	3.48008258172887	2.77604860820490	-3.67957358980289
H	3.94163777976080	1.96230644659110	-3.30841873374148
H	4.07360108629054	3.56621672938548	-3.85999015741629
N	1.63428404652366	4.15603406956340	-3.60606138184329
H	0.64982609460230	4.24871898137069	-3.41905034040616
H	1.97856550823668	4.67047001101657	-4.39701641021806

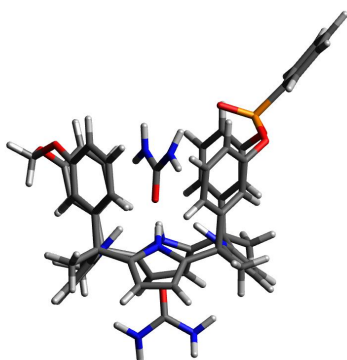


Complex 14a,  $E_{tot}(\text{Hartree})$ : **-3915.642021536771**

N	2.98005224670395	1.07375010943799	-12.15599389472984
C	3.63447041503500	0.17838903115977	-11.32740164807911
O	4.81526209540274	-0.04183085094015	-11.41038231664698
N	2.81867872968329	-0.44285788667999	-10.40026425477414
C	1.51244283512759	-0.10066923466242	-10.32717964927665
N	0.56552261744392	-0.60754233025290	-9.49186834074055
C	-0.64206990402377	0.01103311404486	-9.73532261699318
O	-1.69807188893766	-0.21245740963528	-9.13532395332536
N	-0.41279448884367	0.88904887880777	-10.72727871435141
C	0.91619476909356	0.82421041816153	-11.11907891107883
C	1.64983754504161	1.51240865480381	-12.13442221330481
O	1.24831710018428	2.35627739778340	-12.90116769560207
H	3.57235237398738	1.51604762314547	-12.84472023757544
H	3.25675262156002	-0.92643869243633	-9.61185319895949
H	0.69388309321381	-1.33043585920226	-8.79853066830900
H	-1.11884709634349	1.47662315359106	-11.14657363436392
C	-4.41950386708838	-2.98734097708783	-9.71887083501247
C	-5.05816239706297	-4.11467375899443	-9.25807353120020
C	-4.44159813390717	-4.48304464501169	-8.03444554339691
C	-3.44659349493765	-3.56867683911950	-7.78158225162432
N	-3.44983360378643	-2.68454783360629	-8.81534899899704
C	-4.68317852790573	-2.13775063421740	-10.94032353505947
C	-2.44415750414491	-3.50072203035492	-6.65463201695448
C	-2.61549759102323	-2.25524534554120	-5.81699972379409
C	-3.11394670059268	-2.09187994018498	-4.54932344501696
C	-2.96906108273055	-0.72507991022381	-4.20349631291591
C	-2.38297931227395	-0.09220246723490	-5.27029296088588
N	-2.17073129896426	-1.03488496110160	-6.22823497892010
C	-1.96776548308721	1.34790534135029	-5.47089243521943
C	-3.03331263363647	2.09623075812994	-6.23625650589940
C	-3.92652679533878	3.04805212070009	-5.80592335279400
C	-4.75360761276548	3.38472875037764	-6.90764564974746
C	-4.34290821159546	2.63085773137789	-7.98124332603567
N	-3.29880564775101	1.87015442037761	-7.55188665873645
C	-4.82250583357652	2.62950536804599	-9.41523315163649
C	-5.39716026820159	1.29095778316813	-9.81469116011090
C	-6.68828770782481	0.90588778599878	-10.07733693775877
C	-6.65224634793120	-0.43942797801245	-10.52475893594649
C	-5.33829106289535	-0.83856513063461	-10.52365894257426
N	-4.60353296962857	0.22080206598760	-10.08985321456427
C	-3.68013392041533	3.02580445908413	-10.36594938369474
C	-3.39561598976582	-1.84302894956524	-11.72720573457587

C	-1.01124895483414	-3.57603370581088	-7.19802157755924
C	-0.59519220162112	1.39141606206628	-6.15800059821524
C	-1.79507340580557	2.01771223276552	-4.09935269644873
C	-2.63651059114377	-4.73139285161602	-5.75673012970172
C	-5.62404780329865	-2.90410477418230	-11.87951591413237
C	-5.91174786539492	3.70156267908102	-9.56665454959653
C	0.40628947452062	0.53673107542941	-5.69646324814106
C	1.67613079304406	0.58641367954992	-6.23700832396309
C	1.99892660238263	1.46888087221898	-7.25581936743357
C	1.00498623856368	2.31470694413686	-7.71763862452279
C	-0.27344601827893	2.28467408951797	-7.17311890914485
C	-0.72321637728871	-4.19368837012763	-8.41140939466316
C	0.58674777336703	-4.31516941686198	-8.85201918832147
C	1.64164529939871	-3.82594253552310	-8.09673224133062
C	1.35189750658475	-3.22477927370091	-6.88025141823872
C	0.04928006784486	-3.09505445319130	-6.43232823652749
C	-3.37798731042598	-0.75424731324023	-12.60135823895693
C	-2.24387803203511	-0.43997560438536	-13.33417514432332
C	-1.10655085116038	-1.23748393418655	-13.21876457792630
C	-1.13448321373192	-2.33581873747734	-12.38261105307108
C	-2.26856643745979	-2.64746742091816	-11.64068543762485
C	-2.64076977787028	3.84269823391651	-9.93170254974335
C	-1.64752825837544	4.24101139914743	-10.81543574559375
C	-1.66959006732270	3.83890801935915	-12.14029671119212
C	-2.72964572096709	3.06129567450258	-12.59292954046609
C	-3.72350183294968	2.65291161605276	-11.71009140529259
O	2.64449240145810	-0.23621365040737	-5.68320858398262
O	2.36732848351700	-2.77910109313569	-6.05391665183110
O	-2.75457484560099	2.79955879055989	-13.93027123801872
O	-2.12943283266475	0.60447705119928	-14.19455682844455
C	-3.13522707907268	1.54896096867568	-14.40224710867448
P	3.29153082562514	-1.50785375707175	-6.42070637404995
C	4.73796058120077	-1.80655658435434	-5.42467430975629
O	3.46231750326699	-1.34093062262701	-7.88393216825984
C	5.28202508659942	-3.08904737000504	-5.38726464929031
C	6.44282511599777	-3.32613764636798	-4.67115718021493
C	7.06496932264839	-2.28860072045944	-3.99202870410120
C	6.52828338298961	-1.01089802043095	-4.03190860488320
C	5.36780811563526	-0.76512497669954	-4.74775160018995
H	-5.86691523605342	-4.63837364452700	-9.74166873309871
H	-4.69636521228469	-5.33802755359006	-7.42874359668121
H	-2.84748725469594	-1.87785173509056	-8.88649535994206
H	-3.52225327433159	-2.86622863699281	-3.92119320554396
H	-3.25556893583185	-0.27337450184526	-3.26803736595916
H	-1.82760533976617	-0.82099944934962	-7.15339230593130
H	-3.97891680887791	3.47745616627317	-4.81856768842832
H	-5.54069617510663	4.12046201093612	-6.90876100242516
H	-2.84096502514000	1.15947404381909	-8.10232510452341
H	-7.56670735926716	1.52214535487926	-9.98059478843360
H	-7.50139034386542	-1.03160609820868	-10.82494130473316
H	-3.60369664965827	0.19601976292905	-9.96134674995190
H	-2.72458301405123	2.00059692324858	-3.53125405612452
H	-1.03566383716929	1.50219039391915	-3.51360574611855

H	-1.48657556496003	3.05549732611574	-4.21920196449762
H	-2.48627687011252	-5.64721321963304	-6.32676786724233
H	-1.92188664538137	-4.72076353597628	-4.93523697097846
H	-3.64175441794519	-4.74951861789264	-5.33646140281543
H	-5.83408327117777	-2.31962151264126	-12.77364284840030
H	-5.16690582274126	-3.84385221357285	-12.18655511144240
H	-6.57349789120306	-3.12783587143253	-11.39362902933691
H	-6.75592420216191	3.49825897095311	-8.90729205969131
H	-6.27521095947675	3.72982286183681	-10.59260861980682
H	-5.51304752993363	4.68591454621536	-9.32363421251539
H	0.20302820689609	-0.16627548997712	-4.89759179289241
H	2.99842096421706	1.50108599354754	-7.66838333974325
H	1.22584122987006	3.01364115407130	-8.51397840444388
H	-1.01843910409287	2.96873427768586	-7.55176823357198
H	-1.52895032070668	-4.60352308967790	-9.00541698158290
H	0.79170628755965	-4.80217384538784	-9.79646629690583
H	2.66287562624182	-3.92929906836914	-8.43621271743391
H	-0.13873682194796	-2.64040640248389	-5.46798209057196
H	-4.27593989685566	-0.15802028395640	-12.67486295628433
H	-0.22222733048410	-0.98548140555961	-13.78978647391112
H	-0.25728181223789	-2.96557210717004	-12.30442499938107
H	-2.26184384311738	-3.51452787876974	-10.99545637313450
H	-2.61491149790552	4.18143206707650	-8.90380851557449
H	-0.83534081238724	4.86511763413676	-10.46516863543484
H	-0.88644631524230	4.12377685206148	-12.82837754449880
H	-4.56605851706992	2.06775531366370	-12.05849539543042
H	-4.09788501127405	1.22845773221363	-13.99776639339637
H	-3.24092364335832	1.67555216374583	-15.47888003882117
H	4.80034974980048	-3.90823165245057	-5.90452870235698
H	6.85860951501395	-4.32383603151622	-4.63840950496144
H	7.96917755314929	-2.47711637385759	-3.42871185377862
H	7.00995808687234	-0.20214275861995	-3.49966399118115
H	4.95581086763362	0.23410533638093	-4.76616589097248
C	-5.89776501994625	-0.72392892559639	-6.70229743819473
O	-4.84331392878606	-0.58486768410151	-7.28349003701757
N	-6.53241493148176	0.30925627429414	-6.05643261658535
H	-5.97385414978727	1.14616402049180	-5.98083575878065
H	-7.06552495097777	0.08718081848425	-5.23345989134542
N	-6.55869111164704	-1.92689398378146	-6.63420617315120
H	-6.17589805826350	-2.63520903139388	-7.24335360963019
H	-7.56370125987732	-1.90235347531543	-6.60989191189518

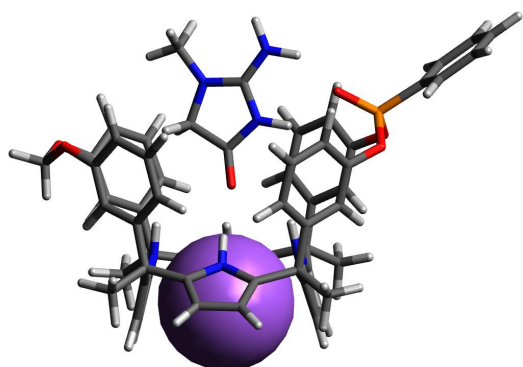


Complex 15,  $E_{tot}(\text{Hartree})$ : **-3504.074228100304**

C	-1.71985160195702	2.11376615527921	-3.11307598344465
C	-1.73145029674827	3.43349934412177	-3.49077406115946
C	-1.18047195486633	4.18722363819756	-2.42635300759760
C	-0.84695002042326	3.30713109716585	-1.42724868713435
N	-1.18862121213204	2.06158719511056	-1.86014950768059
C	-2.27017139755734	0.89399298416835	-3.81497517649123
C	-0.22776625125381	3.56345372250422	-0.07296303645203
C	1.22445625708838	3.14803556405041	-0.05728961687156
C	2.36762429825468	3.90615713480688	-0.00822975472622
C	3.46764647342799	3.01172375701906	0.03534003963209
C	2.96341675353023	1.73210413654053	0.01297493384170
N	1.60770714046037	1.84232044769607	-0.03286172356508
C	3.68096633174136	0.40648467252510	0.10600663749433
C	3.51302742587761	-0.42333523355576	-1.14634240336663
C	4.44249622554949	-0.81307528602651	-2.07956171774636
C	3.78998543626995	-1.66580285597385	-3.00318544758855
C	2.48011068684973	-1.77468445921861	-2.60785070066247
N	2.33747899295781	-1.02379946502902	-1.48116168219987
C	1.32818231837177	-2.53802135159284	-3.22271479024926
C	0.42969025207759	-1.59458963594478	-3.98843508067059
C	0.25144849327939	-1.41291980797999	-5.33843537104785
C	-0.76245895105874	-0.43270889608873	-5.50312523687928
C	-1.17265534391138	-0.04819702159967	-4.24695272770213
N	-0.43870064098901	-0.76347878652668	-3.35565008108404
C	0.53081509848755	-3.28996525359953	-2.14540347428744
C	-3.28229306792664	0.17681357641874	-2.90439595032720
C	-1.00062145612216	2.85141921684104	1.04585835316239
C	3.20860720305629	-0.38914596578168	1.33315476667989
C	5.17776327972397	0.68063777061575	0.31519498142082
C	-0.31608218129430	5.06700052848877	0.22975459572902
C	-3.04433987650247	1.34443133399443	-5.06164875513528
C	1.88544433287059	-3.58931677262868	-4.18991944092070
C	2.64147726957895	0.24567905071762	2.43501226392391
C	2.25091969419659	-0.48967034375934	3.54289368439827
C	2.43522280714834	-1.85949611900247	3.59962024531150
C	3.03214807475200	-2.48997061365117	2.51745374112536
C	3.40585867108369	-1.76895551753564	1.39373226618795
C	-2.36812941617639	2.61066688565535	0.94644617855831
C	-3.06046532647612	2.01746189760232	1.99111293234470
C	-2.41072228467531	1.64973081247546	3.15791508733125
C	-1.05828440156539	1.91994812189181	3.26572500054927
C	-0.35687390137646	2.51501614815727	2.23391172647268

C	-3.47283930034707	-1.20100970248243	-2.98711857880185
C	-4.42086592856604	-1.83756927327080	-2.19400689887784
C	-5.20802189057300	-1.09443588113862	-1.32181418869245
C	-5.04741077473088	0.28034590705408	-1.26631425321585
C	-4.08867840646150	0.91532349992032	-2.04220028377643
C	1.16185722132368	-3.81451089987474	-1.02380849705242
C	0.42190014052291	-4.48753634467273	-0.06338280240132
C	-0.94427750023431	-4.64881770794642	-0.19684726519567
C	-1.58011625096261	-4.15126687857155	-1.32885748669038
C	-0.83692113322634	-3.50060583952508	-2.30399340821699
O	1.69220385996531	0.17042870312820	4.61993959223910
O	-0.39263337160492	1.65791199694545	4.44888791804430
O	-2.92765692812636	-4.33903061598570	-1.37033984434651
O	-4.69568338325461	-3.17009242200783	-2.24877413257015
C	-3.70282152499865	-4.10983612467914	-2.50793837389031
P	0.10387032266407	0.20017912545479	4.91997559427505
C	0.07636878027798	0.37526735582944	6.69753773419085
O	-0.64995160335358	-0.93247094835575	4.33879518595778
C	-0.93902701172045	1.10691426591421	7.30878467631915
C	-1.02838326230264	1.14828701330482	8.69044832868045
C	-0.10906935336919	0.45976562841700	9.46798549254065
C	0.90463862249843	-0.26859765363707	8.86301238507707
C	0.99873747422460	-0.31318519036803	7.48168807947018
H	-2.10541857900425	3.82872838183604	-4.42081733263979
H	-1.05016888995696	5.25668627706717	-2.40411350705981
H	-1.00897048843444	1.20948510251755	-1.34533687179772
H	2.42147576738650	4.98235985444163	0.00795794638979
H	4.50744764063785	3.28621498546733	0.11036209927270
H	0.96508687168392	1.06493754633118	-0.10609850747862
H	5.48431723915672	-0.53753040062943	-2.09718908485460
H	4.24326809033570	-2.13956521245508	-3.85821770313410
H	1.45009763288628	-0.87902372162062	-1.01586564200272
H	0.77445924940024	-1.92876604964778	-6.12724579688731
H	-1.15728057698837	-0.07913357827085	-6.44191452548050
H	-0.51517708724717	-0.69615177281850	-2.34830582807575
H	5.58606901430379	1.25769453552948	-0.51490816379048
H	5.34031765646828	1.23891570771968	1.23633812299028
H	5.73153477829369	-0.25427133422519	0.38328856777244
H	-1.35632149052186	5.38934429903341	0.22838774426121
H	0.10701161728840	5.28428817398459	1.20968737221494
H	0.22525341912439	5.65127687071228	-0.51425709055816
H	-3.48186944172234	0.48519687998852	-5.56745143629520
H	-3.85135571283211	2.02279993715986	-4.78937710382361
H	-2.38769940035747	1.85758703658646	-5.76381938015236
H	2.46738550403561	-3.12579428301516	-4.98608160694470
H	1.07311176259181	-4.15416522937486	-4.64511791806611
H	2.53246820767433	-4.28603248276916	-3.65914876076054
H	2.50337246259451	1.31845786064061	2.43640034542245
H	2.11960541657338	-2.42244595956794	4.46755393803410
H	3.19517795749644	-3.55929829419163	2.54669739225189
H	3.85944008506308	-2.28005723225273	0.55383512781696
H	-2.89685166414320	2.89290359426126	0.04574377328906
H	-4.12164962262741	1.82965125823483	1.89031046656711

H	-2.94380827915401	1.17684490012187	3.97157919847834
H	0.69362959964786	2.73985480184048	2.36581575574701
H	-2.88018132941580	-1.75660948947575	-3.70200179399765
H	-5.95018691503869	-1.59689280500904	-0.71531671871512
H	-5.67566074911539	0.86556341419993	-0.60657678039643
H	-3.97587329550490	1.99077894643207	-1.99436950182857
H	2.22801208941076	-3.68670719402324	-0.89102143823335
H	0.91663386225334	-4.87562247008267	0.81766334102970
H	-1.52387078390073	-5.15142338315471	0.56610111736754
H	-1.30805616708911	-3.12353579096993	-3.19800498784309
H	-3.09916229953495	-3.85224083296989	-3.38153033758543
H	-4.24573681774288	-5.02936297658963	-2.72764989146948
H	-1.65790387811870	1.65355923309975	6.71373635837987
H	-1.81737959426773	1.71997496841915	9.16046692861734
H	-0.18083442117877	0.49423093247864	10.547314444985247
H	1.62636493122417	-0.80151128223839	9.46741527957511
H	1.80014063735195	-0.87592102063903	7.02237852079869
C	-0.93822403093932	-0.97796149105042	0.55213376357896
O	-0.37185670231824	-0.44531516498407	-0.42914589584686
N	-0.24458397851649	-1.59688872993299	1.51604855110025
H	0.75555062674279	-1.62932013394503	1.41848307427476
H	-0.58983183554014	-1.65194365530815	2.46501055570565
N	-2.27208675275618	-0.96158057110219	0.67050943692694
H	-2.83077724021018	-0.47573114815111	-0.00970738058596
H	-2.74560737493464	-1.46609093384499	1.39639024756077
H	3.93494581473119	3.02048974646448	-4.06847769120760
N	3.09717267466142	2.96933535102036	-3.51497636190908
H	3.24218704611272	3.10256520832770	-2.52526035446473
C	2.20322161981214	1.96772543582737	-3.81191732944889
N	2.16692471091822	1.62223084395015	-5.14089588525041
H	2.35300578585654	2.34404580632311	-5.81547536497167
H	1.40567842945297	1.00512904673170	-5.38217726636207
O	1.50673434076503	1.43783652562924	-2.97389405805328



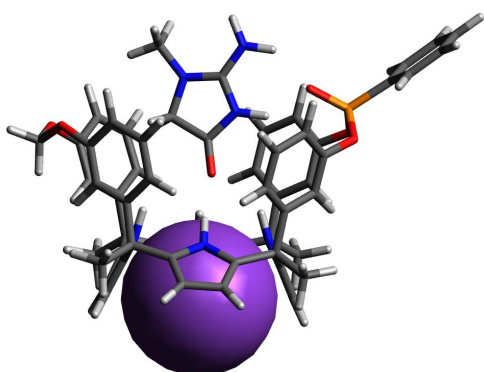
*Complex 16*,  $E_{tot}(\text{Hartree})$ : **-3612.032492418887**

C	2.06552369732885	4.11463073669339	-1.43682110720520
C	0.88241878535912	4.70681287138260	-1.76164243682461
C	0.96442110127655	6.07780073426508	-1.38908756972762
C	2.19657242555322	6.28889900670083	-0.84847795299468
N	2.89430249729382	5.09603363045123	-0.92036339697375
C	2.54270521035018	2.70240047852846	-1.63371493429456
C	2.83146020179288	7.54256400544289	-0.31302127886190
C	4.06372132529571	7.83217909258302	-1.14076418768662
C	4.18375107595959	8.47472480056303	-2.34896696476646
C	5.56054681939381	8.48923567202938	-2.69545827941220
C	6.25224207981698	7.85644913691477	-1.69088246593897
N	5.32151484023406	7.41975127438077	-0.78347398559132
C	7.73738105536578	7.61085632002023	-1.53964610251697
C	8.07605169341200	6.33278135662644	-2.25561527050434
C	8.95292943281498	6.07640190147207	-3.26515622982051
C	8.89936965691128	4.67996382727778	-3.54194101320695
C	7.99179503679371	4.12101249217660	-2.69519327080993
N	7.44232879470787	5.14265869159028	-1.93735823762997
C	7.48629215708876	2.70895330172338	-2.59130666855985
C	6.00818493614048	2.74368796048712	-2.91009876610514
C	5.34938744509266	2.74887026932004	-4.11497875825015
C	3.95338511339454	2.75316687777402	-3.84463787993495
C	3.79264880667006	2.75158547727957	-2.48051819595147
N	5.04805905322530	2.81159747282678	-1.93420294989279
C	7.73339491500891	2.09825195170109	-1.20679969558182
C	2.78594033553665	1.98635784807065	-0.29940301625853
C	3.16216042918158	7.42226435827709	1.17634203661705
C	8.15664982974610	7.54161276265005	-0.06888925879787
C	8.50971957620644	8.77502291348090	-2.17870261264020
C	1.83945253338860	8.70854884127325	-0.45429532564162
C	1.46384571538875	1.89996357341502	-2.37971266710906
C	8.21503303503018	1.82897889698969	-3.61817308143394
C	7.63692965443999	8.44700296867782	0.85530580659022
C	8.07135451957079	8.42393773005792	2.16916256382033
C	9.03884734032517	7.52781150381136	2.59606180054564
C	9.57444723566259	6.64897223033353	1.67055610971653
C	9.13594333180131	6.64889199593564	0.35446287444727
C	2.54069378807079	6.47617722521720	1.98463580372939
C	2.76090341513837	6.46255159527820	3.35549035374680
C	3.61279883969616	7.37957528781170	3.94737206028410
C	4.23376273627639	8.32001703902696	3.13951863192663
C	4.01340349713843	8.35147738406605	1.77398658333496



C	3.56158276960831	0.82501483488618	-0.26398094922095
C	3.69498170657972	0.09123424328887	0.90950440234480
C	3.01788731394431	0.50031817410077	2.05720292377644
C	2.22990770793569	1.63679100497159	2.01614208385039
C	2.12868714207545	2.39485474103232	0.85541354666047
C	8.67498575052816	2.62409088871032	-0.33348016826473
C	8.92443682928053	1.99021666860551	0.87851100576016
C	8.22608564478524	0.85617035188260	1.24726326629319
C	7.27390837690379	0.31901996642236	0.37806178347441
C	7.04985486589898	0.93262174781049	-0.84813540965455
O	7.55112707038919	9.35514197595939	3.04659638966715
O	5.04928892255963	9.28428147073349	3.69453914871835
O	6.66376464344333	-0.80448685484317	0.81622099584265
O	4.39018966757795	-1.06542202703064	1.01912823863615
C	5.51058115526922	-1.34811382427367	0.23862112284244
P	6.53482952950310	8.95810459269647	4.22877827292265
C	6.81691610594699	10.19056288523307	5.46115227330158
O	6.66591808355161	7.50736793378074	4.58215771556496
C	5.77720422208467	10.56426686098530	6.31397778823633
C	6.01506486374932	11.48244607078068	7.32136912528883
C	7.28167613485535	12.02686966961888	7.48167025942881
C	8.31602463867820	11.65576313322865	6.63471862784567
C	8.09051523255558	10.73672508181310	5.62450832328414
H	0.03771799943169	4.23290037034200	-2.23350164220623
H	0.19235807946781	6.81631227275171	-1.52887840985745
H	3.65511812418258	4.88699595214541	-0.28851490702864
H	3.38252256273960	8.92734251118704	-2.91105739272232
H	5.99091589114453	8.95335200234427	-3.56830202380715
H	5.54835674693941	6.98978467830200	0.10026186903796
H	9.57199011882117	6.79518819389747	-3.77665615743796
H	9.46172916684121	4.16575756065247	-4.30391256829742
H	7.06627267369694	4.97134049874576	-1.01381611587853
H	5.80516180564726	2.70896522200359	-5.09156394224345
H	3.16560054704291	2.71913652665805	-4.57986666152013
H	5.23625641737694	2.67799026705877	-0.95307643789619
H	8.29346418980186	8.86274246447551	-3.24278993279512
H	8.24028519977392	9.71519934849191	-1.70115606857569
H	9.58248309000557	8.63153094506171	-2.05918682179253
H	0.93968503963818	8.51150525191313	0.12688649578800
H	2.28039127301168	9.63337494684354	-0.08829636451127
H	1.54796165907825	8.86306754878760	-1.49220829052062
H	1.81506837817711	0.88996069212211	-2.58117943343444
H	0.55861303493745	1.82795032956686	-1.77935870327257
H	1.20809368830800	2.36586256486115	-3.33029157957993
H	8.06459238335322	2.18765577709059	-4.63573569238426
H	7.85534623678412	0.80345894379432	-3.56670995456680
H	9.28515372458075	1.81799387771855	-3.41557014414245
H	6.92320015094604	9.20293939039574	0.55016472285440
H	9.39341087621390	7.54065691764027	3.61764446675181
H	10.35673896200611	5.96666860136788	1.97492941108479
H	9.59818663828241	5.97543029526480	-0.35550784378077
H	1.84100973001853	5.77227838720395	1.55324517273422
H	2.23932481161331	5.74439053461886	3.97447946560282

H	3.76178953608147	7.38812168515407	5.01886636339448
H	4.47340262966448	9.13674292137436	1.18617017002385
H	4.00610700475238	0.47039023116588	-1.18526978770225
H	3.07378936859810	-0.10927920374686	2.95009912969223
H	1.66992494699958	1.92716844728105	2.89592723970413
H	1.47931706486656	3.26079755222625	0.83210302605407
H	9.24638085005916	3.50079897517010	-0.60603947817828
H	9.68656299327487	2.38208391941953	1.53947158389024
H	8.43713731525859	0.35084140122365	2.18132976972187
H	6.36408484676945	0.49562552415345	-1.56252810506708
H	5.38218089705230	-1.05068283243356	-0.80483548916116
H	5.62598504687177	-2.42849588164795	0.27851561539119
H	4.78018763992195	10.16315426682750	6.18870047916775
H	5.20891028667586	11.78133983775726	7.97692915342696
H	7.46031727704371	12.74924900092583	8.26660084778533
H	9.29890963744523	12.08988743588658	6.75466329846608
H	8.90203130945670	10.46978439026481	4.96123056969661
N	5.82776146166364	3.15142854607632	3.96441662529929
C	6.13501214137211	4.40417623628246	4.24505120601578
N	6.13076438882859	5.15679489469090	3.11221227074814
C	5.79696042139650	4.40220977916764	2.02320678002588
C	5.60489980025395	3.00082820244568	2.53921250075188
O	5.68176135935475	4.79195153180344	0.88704571329479
N	6.41061072562168	4.92192261687912	5.41369533350170
C	5.77644601023693	2.05802946919087	4.91263537215032
H	6.58704357058013	5.93097361965407	5.45797066528481
H	6.44168006817842	4.36740553190967	6.25296763924419
H	5.26829598449209	1.21874237483115	4.44644377765478
H	5.20392265026865	2.33627435027951	5.79706316103394
H	6.77432177874391	1.73404339710729	5.20814538905064
H	6.33100424828618	2.32095285860364	2.08230536275960
H	4.59739063479213	2.63481616535261	2.32114371373131
H	6.31664021178557	6.16038714796858	3.15133586887523
Na	4.88538387977030	5.47151750871518	-2.83818675693475

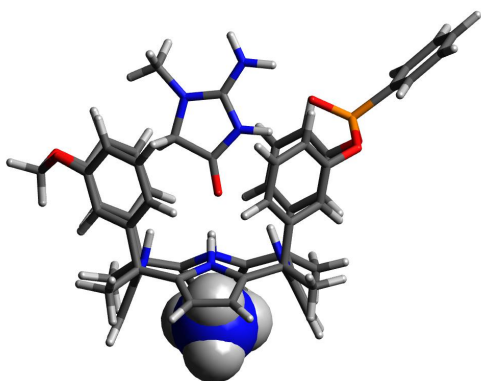


Complex 17,  $E_{tot}(\text{Hartree}): -4049.466286488017$

C	2.10745558653347	4.13084517102189	-1.47722227594092
C	0.96252248733760	4.73665373748820	-1.91182667956949
C	1.04036495897166	6.11165955198505	-1.56830404127786
C	2.23244154889967	6.31604283268961	-0.93370177212744
N	2.90030138039849	5.11017155975376	-0.91689759675063
C	2.55196345879193	2.69660893378161	-1.59549639996640
C	2.82632073774646	7.57720414177095	-0.36314478013225
C	4.06580892330326	7.92978274537489	-1.15315224073381
C	4.21342438628496	8.72127889375560	-2.26437343402139
C	5.59117148667833	8.73525844786043	-2.60374275249460
C	6.25388728792110	7.95106561792713	-1.69263233658316
N	5.30640350191852	7.43388910285603	-0.84795440439102
C	7.72607192619200	7.63483671205865	-1.56386181113366
C	8.01122831419359	6.34775866069993	-2.29369958634833
C	8.79058189860831	6.10319374675384	-3.38929993326488
C	8.73950392161277	4.70925599523241	-3.65493710310872
C	7.92849793938844	4.13423978000133	-2.71747381415789
N	7.45168675746877	5.14707960819094	-1.91351237704030
C	7.48242138329177	2.70290062537185	-2.56607905636863
C	6.00716075836429	2.63785249413200	-2.88374158605133
C	5.35115962104162	2.37477387605272	-4.05841191299547
C	3.95675362434683	2.37843664418488	-3.78470224425864
C	3.79490599811976	2.64434983521863	-2.44915434429242
N	5.04618566304810	2.85983619268719	-1.93121375974945
C	7.75679279756118	2.14168923827080	-1.16557752846576
C	2.78562486823696	2.04767236948188	-0.22602686872147
C	3.13770397931466	7.43821588623442	1.12900758516342
C	8.15561914918337	7.54713822164881	-0.09728510635989
C	8.54110733520532	8.76814036600503	-2.20452272648911
C	1.80182264153185	8.71527799530366	-0.49621233565280
C	1.44207290287613	1.88434110723869	-2.28154009216118
C	8.25571644356430	1.82629619576199	-3.56245032679868
C	7.62309666294518	8.42312002674723	0.84685368913222
C	8.07550599167749	8.39312670432130	2.15429307580638
C	9.06664451465955	7.51337526699698	2.55779501206067
C	9.61214148192158	6.66077768982535	1.61287444793972
C	9.16112763300749	6.67198894610116	0.30116344374451
C	2.49021945367667	6.49732166505378	1.92289663582875
C	2.70400389940301	6.46156018785122	3.29418622774859
C	3.57217436087343	7.35355196347926	3.90083885310811
C	4.21258222687450	8.29294667525193	3.10758603457448
C	4.00151585293740	8.34491551446304	1.74171408099786

C	3.58707449131211	0.90850198444257	-0.12603432924510
C	3.70303989919734	0.22049933278426	1.07640949803008
C	2.98327963849991	0.65502032263846	2.18853108094196
C	2.17694635157296	1.77524775577115	2.08562534166080
C	2.09060661222478	2.48698446273202	0.89505293497951
C	8.74410660806102	2.67390963239842	-0.34777044476279
C	9.03103607095567	2.07102981683832	0.87150312573050
C	8.32688696918949	0.96215617355789	1.30188471228410
C	7.32626064793901	0.42221586546217	0.49126400947762
C	7.06238093504151	1.00453913993665	-0.74187233852054
O	7.54951295025984	9.30408323120793	3.05158239808436
O	5.04205572627137	9.23644200712140	3.67975944129950
O	6.70364814851580	-0.66702418914772	0.99738544109131
O	4.43326362913288	-0.90583877082478	1.25484948709581
C	5.53730133567440	-1.22775416897269	0.46507990953171
P	6.52026368725395	8.88211997072291	4.21192277692211
C	6.80423978538682	10.06835682882084	5.48874471479057
O	6.63894071556430	7.41988453594285	4.52693765714968
C	5.75426810027061	10.44925360515141	6.32550381234437
C	5.99461393716474	11.32489549687829	7.36973583003198
C	7.27358249995520	11.82001128863409	7.58213567936291
C	8.31801865451803	11.44273923309170	6.75027520645234
C	8.09001368497464	10.56628825556349	5.70347788891347
H	0.14314510647699	4.25966638783175	-2.42346284590734
H	0.28913064376984	6.85700355035536	-1.77060024995264
H	3.67336804992582	4.92190191910093	-0.29670934073284
H	3.43159317382154	9.26937935590771	-2.76473274796919
H	6.03970509141239	9.30056121766313	-3.40473585479469
H	5.51960485683295	6.92020143486334	-0.00543503408723
H	9.35296453977098	6.83182925243961	-3.94986873793143
H	9.24655672019377	4.20012756357238	-4.45781777591474
H	7.04452775288867	4.98405098998948	-1.00472836968055
H	5.80935497920083	2.15515147874573	-5.00903186514082
H	3.17333387460503	2.16284657344595	-4.49347402295785
H	5.24160136620802	2.89291040066893	-0.94301406949322
H	8.32157466299604	8.86920857015342	-3.26688284966246
H	8.31536736657532	9.71658849049829	-1.72078397034044
H	9.60783499584944	8.57875427436089	-2.09575405974998
H	0.89644647782605	8.47298920321341	0.05800385274145
H	2.20592616289520	9.64243681578229	-0.09513049539638
H	1.52638278955436	8.89093787837205	-1.53542338659275
H	1.75532860260166	0.85057651444321	-2.41360997595393
H	0.53787614225355	1.88673387648403	-1.67524048604191
H	1.19679087058792	2.29286793970146	-3.26097531091937
H	8.08823120180312	2.14057992740063	-4.59216604650076
H	7.94714331908258	0.78670684916362	-3.47383991760940
H	9.32459231227627	1.87847691881447	-3.36176958050831
H	6.88595927814694	9.16492642800328	0.56401444004445
H	9.43086090374476	7.51866954831529	3.57634324748952
H	10.41201306872739	5.99093203751250	1.89882534008938
H	9.63037108101221	6.01974147690195	-0.42402470888325
H	1.77988247394143	5.81221178972507	1.47921556459313
H	2.16765754878199	5.74452229105568	3.90166466033692

H	3.71912832095972	7.34413063804634	4.97273732368195
H	4.47989776412174	9.12733167722712	1.16479772892960
H	4.06416035636825	0.53178827555976	-1.02118810952993
H	3.02629569186977	0.08132721563624	3.10579505246350
H	1.59162822046130	2.08815080078538	2.94076582694176
H	1.42829666467879	3.34041663874652	0.82351002753337
H	9.32001987511981	3.52974915803644	-0.67206962208556
H	9.82604996129969	2.46685924646159	1.48998018025307
H	8.56376141344840	0.48139193266176	2.24269879386803
H	6.34080260397833	0.56373718070020	-1.41674778441018
H	5.39068209814238	-0.97426524255202	-0.58667263918985
H	5.64900623452964	-2.30594205198165	0.54969461074805
H	4.74831610613763	10.08715088848062	6.15985655311242
H	5.18095994889713	11.62953556086428	8.01330211476202
H	7.45455106930808	12.50959836561437	8.39549722263788
H	9.31081329107362	11.83959164415866	6.91080442370606
H	8.91006406106846	10.29464877849656	5.05241360693741
N	5.85054975932530	3.09341486652687	3.88867366084519
C	6.14718519361605	4.33323078651158	4.22757337913189
N	6.14937728606198	5.14015449244470	3.13395152233789
C	5.82734588233127	4.43569665743417	2.01067486859087
C	5.64424228396745	3.01101357408780	2.45620536159399
O	5.71204720362905	4.87241241362853	0.89043009304080
N	6.40860296195620	4.79544030819114	5.42454366710772
C	5.79340512871703	1.95479412117146	4.78194458008177
H	6.58299276437654	5.79605694212840	5.52306163615088
H	6.43315705897714	4.20141720381614	6.23638771984359
H	5.30875259147530	1.13291178114903	4.26278238168507
H	5.19700951609739	2.18262081728172	5.66509767514643
H	6.78889674841763	1.62953111463462	5.08383786117823
H	6.38492138565147	2.36309955556813	1.97823300496133
H	4.64382386763150	2.64541883137133	2.21148970593092
H	6.32979965198891	6.14728656623675	3.23894361511272
K	4.76522594699331	5.59459307879538	-3.31637565511459



Complex 18,  $E_{tot}(\text{Hartree})$ : **-3506.976474525024**

C	1.87149088347481	4.34128948372045	-2.73037188460173
C	0.76515495943532	4.88741194352370	-3.32258525973660
C	0.82217649287675	6.29204550545202	-3.13534807549148
C	1.96340677871614	6.57236240152513	-2.43460719413141
N	2.61001896150158	5.38034507467226	-2.21736641797956
C	2.32883127599377	2.90735403575910	-2.65912930963040
C	2.51607256227075	7.88837652192008	-1.95422754816523
C	3.84444352489933	8.14031591062382	-2.63138422960960
C	4.13215451881648	8.81025497059510	-3.79889385662276
C	5.54302513713335	8.80237963080311	-3.96356625704318
C	6.08268045241628	8.12153763570159	-2.90152983697384
N	5.03547894849099	7.69987882444821	-2.12468230257414
C	7.52332825874390	7.80913205044243	-2.56940411440081
C	7.88126742086382	6.45882794337049	-3.13653997959543
C	8.83322533518728	6.10540637823502	-4.04763572321760
C	8.78790362952819	4.69257790271457	-4.20180577051587
C	7.80852477324617	4.21108619281767	-3.38318924458601
N	7.21678311106840	5.30133221109234	-2.76972514606862
C	7.32446085936205	2.79872190624443	-3.17109012180672
C	5.88584606795501	2.71455948343668	-3.62097797328567
C	5.33606517291801	2.37928094291565	-4.83142188837532
C	3.92251901665484	2.42551819583340	-4.68925068960492
C	3.64418668382016	2.78215895796385	-3.39049357589713
N	4.84700205869324	3.00057804695395	-2.77619912837027
C	7.45796164765035	2.34366775714049	-1.71287527253749
C	2.44576065586641	2.40379853634504	-1.21412748008056
C	2.65092248040302	7.92271496478371	-0.42948754168698
C	7.76743568046269	7.86179236641935	-1.05869692929333
C	8.42691526493627	8.87735351765019	-3.20521366584184
C	1.53754310887136	9.01211633334026	-2.33237665281224
C	1.28632773121116	2.01529680413969	-3.35233180209829
C	8.18002488578576	1.84532587983642	-4.01910514015832
C	7.14755992824894	8.84598451920485	-0.29059793664223
C	7.43137834081467	8.95452714324755	1.05856962157077
C	8.33820280143175	8.10951875620908	1.67759145552163
C	8.96762481835937	7.14460809878717	0.90888598434949
C	8.68238107219883	7.01468528490578	-0.44290723951133
C	1.89260707686279	7.08361253054646	0.37999106037383
C	1.93063084657696	7.21034114126486	1.76166678454176
C	2.73283363999948	8.16446065804178	2.36410485178008
C	3.48683140099729	9.00058655964698	1.55532735947329
C	3.45202655927533	8.89037034138220	0.17647346545687

C	3.22831860568076	1.28003809081779	-0.93447702785824
C	3.25226097257376	0.72400858524804	0.33937139304293
C	2.45866561761801	1.27829971085489	1.34405693879663
C	1.67302990980475	2.38196419866363	1.06342004676291
C	1.67702429946313	2.96182887634431	-0.19975850416732
C	8.35599927136789	2.94378528796265	-0.84067081562944
C	8.53319160425109	2.42324853606965	0.43621506996071
C	7.80211242781294	1.33194480366330	0.86834110373952
C	6.88930030962285	0.72713670971630	0.00290550677454
C	6.73738104054457	1.22508052235717	-1.28468690400264
O	6.82008086257406	9.96546312418013	1.77580696800112
O	4.25947683594199	9.99677601880056	2.12181447991695
O	6.25003895392903	-0.35736605649225	0.49965905744381
O	3.95989645777726	-0.37156166445995	0.69958271808363
C	5.05409643931573	-0.85901290109704	-0.01949402422158
P	5.65940348993547	9.68118140752157	2.85163628904990
C	5.83534898397779	10.98212091112244	4.03206604482532
O	5.70282487384947	8.25864705523413	3.32519135135118
C	4.72413085824766	11.39445830394798	4.76911992089412
C	4.87569080757483	12.34871870824628	5.75941623036672
C	6.12686928124939	12.89249247719273	6.01570915615056
C	7.23139769455768	12.48579533207852	5.28142859889263
C	7.09237929290119	11.52974124962887	4.28981338381935
H	-0.01261957340134	4.34950424083456	-3.83881315510389
H	0.09352406426968	7.00552831222932	-3.48288257967323
H	3.37825248708597	5.27127768548661	-1.57491564724458
H	3.42220772783823	9.31378369955014	-4.43521205171026
H	6.08879463468372	9.27787303654503	-4.76216128251945
H	5.13981353734483	7.26033877247421	-1.22165840730689
H	9.50486029771896	6.77311319688388	-4.56129763476509
H	9.41475501517862	4.10867629091538	-4.85515128020131
H	6.67630922231407	5.22249437513636	-1.91982568894353
H	5.87320492758097	2.08992058911976	-5.72003052309032
H	3.20069442201158	2.16570410331404	-5.44701182907984
H	4.95437997917964	3.12338610201055	-1.78192154028688
H	8.33538927807042	8.88827514721031	-4.29069346536131
H	8.16066372498974	9.86551420957805	-2.83504908641931
H	9.47017354200380	8.69469895022581	-2.95365692508836
H	0.57564537072691	8.85454532444893	-1.84698127987789
H	1.92185990316559	9.97781275113215	-2.00905518320423
H	1.37091968130139	9.05675236665191	-3.40807262569019
H	1.61043041027788	0.97638841427626	-3.34543602674385
H	0.33101256185101	2.07309934172524	-2.83322949643781
H	1.12911597363083	2.31756399644110	-4.38733488479849
H	8.12098676623281	2.08962044436241	-5.07924725409329
H	7.84660650623821	0.81757386317385	-3.88998878280390
H	9.22359908804554	1.89886733200372	-3.71327089313526
H	6.47613611683636	9.56271716937595	-0.74765248085214
H	8.57538943669041	8.22402800773077	2.72664562076943
H	9.70464738289303	6.49819962563052	1.36672575809090
H	9.21217332953533	6.27482070574753	-1.02867665367325
H	1.23284480402832	6.35284127982291	-0.06893081000649
H	1.30975367820503	6.57207588447449	2.37652533680115

H	2.74399068863597	8.28113025289702	3.43964059349703
H	4.01704603890480	9.59225637870430	-0.42515666898685
H	3.77106205930543	0.81650174694465	-1.74727532674814
H	2.43176839097465	0.80947071444085	2.31978086919517
H	1.03463487932644	2.78923285630164	1.83686169905720
H	1.03462151087865	3.80921823016084	-0.40117804841150
H	8.95362465711882	3.78503312928526	-1.16503976929793
H	9.26380224782516	2.86832341474731	1.09934827861726
H	7.95647363046778	0.91243149275644	1.85437701642934
H	6.09205187946939	0.72324460587983	-1.99408403893868
H	4.95833407741941	-0.69270068432577	-1.09458737968067
H	5.07535076740108	-1.93006880181951	0.16428140615660
H	3.73984020730885	10.99277671389203	4.56731758058317
H	4.01566351640041	12.67487757946578	6.32774324507033
H	6.23880061444667	13.64218361779983	6.78716089781531
H	8.20251033449942	12.91993894029143	5.47483820582229
H	7.95897266566980	11.23362028405077	3.71437653869202
N	5.16775394476109	3.85629144715222	3.00144262745734
C	5.35506669059722	5.14002584171370	3.24102390802874
N	5.42269955583331	5.83578279367571	2.07423523834292
C	5.27941388732985	5.00512314327508	1.00246507874620
C	5.12626426290941	3.62187486932481	1.57102632411003
O	5.27290658130118	5.32380589553612	-0.16293688056665
N	5.46634322603212	5.73788861659919	4.39988259643405
C	5.09102149850514	2.79903848519215	3.98730890887913
H	5.58097065552805	6.75412655192220	4.39916363386039
H	5.44740236424821	5.23460668971552	5.27083259907413
H	4.60416702988081	1.93936410565429	3.53476167008343
H	4.48520778158705	3.10515331827879	4.83939008223973
H	6.08003201450550	2.49503243473015	4.32970166418075
H	5.94422045241699	2.97383430492860	1.24278093424631
H	4.17583260122362	3.17641743108670	1.26630340846701
H	5.54411574402066	6.85462388604547	2.08761398538868
N	4.77010723788440	5.68253671584390	-4.70616357650173
H	4.29279958013063	6.57031851358934	-4.49423756095631
H	4.11888564694085	4.89141332276616	-4.63848772762469
H	5.16120216165280	5.72065738122472	-5.64426973877355
H	5.54310017656789	5.54599290371413	-4.03991971495120