

Supporting Information Belonging to the paper:

The Radical Mechanism of Cobalt(II) Porphyrin-Catalyzed Olefin Aziridination and the Importance of Cooperative H-Bonding

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Energies

Table S1. Co(Por) species: (Free) energies, enthalpies and entropies, ZPE and thermal corrections and S² values.

	SCF energy (a.u.)	negative eigenvalues (cm ⁻¹)	G gasphase (a.u.)	ZPE (a.u.)	RT+TRV (a.u.)	E+ZPE=E0 (a.u.)	H (a.u.)	S (a.u.)	S ²
PhSO₂N₃	-944.70085	-	-944.62795	0.11022	0.12177	-944.59063	-944.57908	0.000164	0
Styrene	-309.75	-	-309.65306	0.13082	0.13809	-309.62289	-309.61562	0.000126	0
N₂	-109.58	-	-109.58937	0.00543	0.00873	-109.57026	-109.56696	7.52E-05	0
Aziridine_product_cis	-1144.94	-	-1144.74795	0.23458	0.251	-1144.704	-1144.6876	0.000203	0
Aziridine_product_trans	-1144.95	-	-1144.75574	0.23472	0.25109	-1144.7119	-1144.6956	0.000202	0
A	-2371.87043	-	-2371.64075	0.27028	0.2881	-2371.6002	-2371.5823	0.000196	0.7616
B	-3316.57397	-	-3316.25295	0.37972	0.4103	-3316.1943	-3316.1637	0.0003	0.764
TS1	-3316.54711	-565.39 cm-1	-3316.22849	0.37628	0.40662	-3316.1708	-3316.1405	0.000295	0.7794
C	-3207.02472	-	-3206.71011	0.37005	0.39822	-3206.6547	-3206.6265	0.000281	0.7567
TS2	-3516.75757	-246.12 cm-1	-3516.32073	0.50073	0.53626	-3516.2568	-3516.2213	0.000334	0.782
D	-3516.78328	-	-3516.34538	0.50242	0.53817	-3516.2809	-3516.2451	0.000336	1.3428
TS3	-3516.7839	-37.76 cm-1	-3516.34468	0.50234	0.53741	-3516.2816	-3516.2465	0.000329	0.8779
E	-3516.80769	-	-3516.36434	0.50577	0.5407	-3516.3019	-3516.267	0.000327	0.7642
⁴A	-2371.83727	-	-2371.61169	0.26747	0.28602	-2371.5698	-2371.5513	0.000203	3.7618
⁴B	-3316.53995	-	-3316.22317	0.37712	0.40847	-3316.1628	-3316.1315	0.000308	3.7771
⁴TS1	-3316.52362	-489.48 cm-1	-3316.20465	0.37645	0.40677	-3316.1472	-3316.1169	0.000295	3.7754
⁴C	-3207.00711	-	-3206.69415	0.36959	0.39808	-3206.6375	-3206.609	0.000286	3.7783
⁴TS2	-3516.74537	-225.24 cm-1	-3516.3094	0.50045	0.53625	-3516.2449	-3516.2091	0.000337	3.7832
⁴D	-3516.78153	-	-3516.34204	0.50286	0.53825	-3516.2787	-3516.2433	0.000331	3.785

Table S2. Co(PorAmide) species: (Free) energies, enthalpies and entropies, ZPE and thermal corrections and S² values.

	SCF energy (a.u.)	negative eigenvalues (cm ⁻¹)	G_gasphase (a.u.)	ZPE (a.u.)	RT+TRV (a.u.)	E+ZPE=E0 (a.u.)	H (a.u.)	S (a.u.)	S ²
PhSO₂N₃	-944.70085	-	-944.62795	0.11022	0.12177	-944.591	-944.579	0.000164	0
Styrene	-309.75	-	-309.65306	0.13082	0.13809	-309.623	-309.616	0.000126	0
N₂	-109.58	-	-109.58937	0.00543	0.00873	-109.57	-109.567	7.52E-05	0
Aziridine_product_cis	-1144.94	-	-1144.74795	0.23458	0.251	-1144.7	-1144.69	0.000203	0
Aziridine_product_trans	-1144.95	-	-1144.75574	0.23472	0.25109	-1144.71	-1144.7	0.000202	0
A	-2811.1075	-	-2810.76023	0.40144	0.42887	-2810.71	-2810.68	0.000274	0.7618
B	-3755.81406	-	-3755.37118	0.37972	0.51194	-3755.43	-3755.3	0.000232	0.7645
TS1	-3755.79093	-565.39 cm-1	-3755.35109	0.37628	0.5083	-3755.41	-3755.28	0.00023	0.7795
C	-3646.2699	-	-3645.83349	0.37005	0.50229	-3645.9	-3645.77	0.000221	0.7566
TS2	-3956.00	-246.12 cm-1	-3955.44622	0.50073	0.63274	-3955.5	-3955.37	0.000252	0.7817
D	-3956.03	-	-3955.46813	0.5028	0.63408	-3955.52	-3955.39	0.000256	1.2647
TS3	-3956.03	-37.76 cm-1	-3955.46716	0.50234	0.63496	-3955.53	-3955.39	0.000247	0.8076
E	-3956.05	-	-3955.4846	0.50577	0.63765	-3955.54	-3955.41	0.000245	0.7641
⁴C	-3646.25	-	-3645.81602	0.50158	0.53929	-3645.75	-3645.71	0.000351	3.7786
⁴TS2	-3955.99047	-221.88 cm-1	-3955.43317	0.63251	0.67757	-3955.36	-3955.31	0.000404	3.7827
⁴D	-3956.018	-	-3955.45624	0.63539	0.63539	-3955.38	-3955.38	0.000247	3.786

Table S3. Co(Por) species: Relative free energies, enthalpies and entropies.

	a.u	$\Delta G \text{ 298K}$ kcal mol^{-1}	$\Delta G \text{ 298K}$ solution kcal mol^{-1}	Barriers
A + PhSO₂N₃ + Styrene	-3625.92176	0	0	
B + Styrene	-3625.90601	9.8832825	7.3992225	
TS1 + Styrene	-3625.88155	25.2321771	22.7481171	22.74812
C + Styrene + N₂	-3625.95254	-19.3147578	-21.7988178	
TS2 + N₂	-3625.9101	7.3167666	2.3486466	24.14746
D + N₂	-3625.93475	-8.1513549	-13.1194749	
TS3 + N₂	-3625.93405	-7.7120979	-12.6802179	0.439257
E + N₂	-3625.95371	-20.0489445	-25.0170645	
A + Aziridine_product_cis + N₂	-3625.98	-35.3350881	-37.8191481	
A + Aziridine_product_trans + N₂	-3625.99	-40.223391	-42.707451	
⁴ A + PhSO₂N₃ + Styrene	-3625.89	18.2354406	18.2354406	
⁴ B + Styrene	-3625.88	28.5705303	26.0864703	
⁴ TS1 + Styrene	-3625.86	40.1920155	37.7079555	19.47251
⁴ C + Styrene + N₂	-3625.93658	-9.2996982	-11.7837582	
⁴ TS2 + N₂	-3625.89877	14.4264549	11.9423949	23.72615
⁴ D + N₂	-3625.93141	-6.0554715	-11.0235915	
			ΔH kcal mol^{-1}	
A + PhSO₂N₃ + Styrene	-3625.77703	0		
B + Styrene	-3625.77929	-1.4181726		
TS1 + Styrene	-3625.75611	13.1275092		
C + Styrene + N₂	-3625.80908	-20.1116955		
TS2 + N₂	-3625.78827	-7.0532124		
D + N₂	-3625.81207	-21.9879504		
TS3 + N₂	-3625.81345	-22.8539142		
E + N₂	-3625.83395	-35.7178692		
A + Aziridine_product_cis + N₂	-3625.83684	-37.5313731		
A + Aziridine_product_trans + N₂	-3625.84484	-42.5514531		
⁴ A + PhSO₂N₃ + Styrene	-3625.74595	19.5030108		
⁴ B + Styrene	-3625.7471	18.7813743		
⁴ TS1 + Styrene	-3625.73247	27.9618456		
⁴ C + Styrene + N₂	-3625.79161	-9.1490958		
⁴ TS2 + N₂	-3625.77608	0.5961345		
⁴ D + N₂	-3625.81024	-20.8396071		
		$\Delta S \text{ gas phase}$ $\text{cal K}^{-1} \text{ mol}^{-1}$	$\Delta S \text{ solution}$ $\text{cal K}^{-1} \text{ mol}^{-1}$	
A + PhSO₂N₃ + Styrene	0.000485671	0	0	
B + Styrene	0.000425235	-37.92434597	-29.58857416	
TS1 + Styrene	0.00042094	-40.61969094	-32.28391913	
C + Styrene + N₂	0.000481409	-2.674287584	5.661484228	
TS2 + N₂	0.000408826	-48.22140604	-31.54986242	
D + N₂	0.000411678	-46.43152852	-29.7599849	
TS3 + N₂	0.000404698	-50.81146409	-34.13992047	
E + N₂	0.000401879	-52.58028423	-35.9087406	
A + Aziridine_product_cis + N₂	0.000473926	-7.370083893	0.965687919	
A + Aziridine_product_trans + N₂	0.000473221	-7.812288926	0.523482886	
⁴ A + PhSO₂N₃ + Styrene	0.00049245	4.253591275	4.253591275	
⁴ B + Styrene	0.000433322	-32.84951678	-24.51374497	
⁴ TS1 + Styrene	0.000420268	-41.04083859	-32.70506678	
⁴ C + Styrene + N₂	0.000486477	0.50537718	8.841148992	
⁴ TS2 + N₂	0.000411711	-46.41047114	-38.07469933	
⁴ D + N₂	0.000406611	-49.61119329	-32.93964967	

Table S4. Co(PorAmide) species: Relative free energies, enthalpies and entropies.

	a.u	$\Delta G \text{ 298K}$ kcal mol^{-1}	$\Delta G \text{ 298K solution}$ kcal mol^{-1}	Barriers
A + PhSO₂N₃ + Styrene	-4065.04124	0	0	
B + Styrene	-4065.02424	10.66767	8.18361	
TS1 + Styrene	-4065.00415	23.2743459	20.7902859	20.79029
C + Styrene + N₂	-4065.07592	-21.7620468	-24.2461068	
TS2 + N₂	-4065.03559	3.5454315	-1.4226885	22.82342
D + N₂	-4065.0575	-10.2033126	-15.1714326	
TS3 + N₂	-4065.05653	-9.5946279	-14.5627479	0.608685
E + N₂	-4065.07397	-20.5384023	-25.5065223	
A + Aziridine_product_cis + N₂	-4065.10	-35.3350881	-37.8191481	
A + Aziridine_product_trans + N₂	-4065.11	-40.223391	-42.707451	
⁴C + Styrene + N₂	-4065.06	-10.7994471	-13.2835071	
⁴TS2 + N₂	-4065.02254	11.734437	9.250377	22.53388
⁴D + N₂	-4065.04561	-2.7422187	-5.2262787	

		ΔH kcal mol^{-1}
A + PhSO₂N₃ + Styrene	-4064.90076	0
B + Styrene	-4064.91774	-10.6551198
TS1 + Styrene	-4064.89825	1.5750501
C + Styrene + N₂	-4064.95019	-31.0178193
TS2 + N₂	-4064.93799	-23.3621973
D + N₂	-4064.95895	-36.5148069
TS3 + N₂	-4064.96053	-37.5062727
E + N₂	-4064.97867	-48.8893041
A + Aziridine_product_cis + N₂	-4064.96057	-37.5313731
A + Aziridine_product_trans + N₂	-4064.96857	-42.5514531
⁴C + Styrene + N₂	-4064.89407	4.1980419
⁴TS2 + N₂	-4064.87986	13.114959
⁴D + N₂	-4064.94957	-30.6287631

		$\Delta S \text{ gas phase}$ $\text{cal K}^{-1} \text{ mol}^{-1}$	$\Delta S \text{ solution}$ $\text{cal K}^{-1} \text{ mol}^{-1}$
A + PhSO₂N₃ + Styrene	0.000471409	0	0
B + Styrene	0.000357383	-71.55298591	-63.21721409
TS1 + Styrene	0.000355369	-72.81642886	-64.48065705
C + Styrene + N₂	0.000421913	-31.05963926	-22.72386745
TS2 + N₂	0.000327517	-90.29405638	-73.62251275
D + N₂	0.000330705	-88.29360503	-71.62206141
TS3 + N₂	0.000322148	-93.66323758	-76.99169396
E + N₂	0.000319799	-95.13725436	-78.46571074
A + Aziridine_product_cis + N₂	0.000459664	-7.370083893	0.965687919
A + Aziridine_product_trans + N₂	0.00045896	-7.812288926	0.523482886
⁴C + Styrene + N₂	0.000551611	50.3271443	44.57552718
⁴TS2 + N₂	0.000478792	4.63262416	12.96839597
⁴D + N₂	0.000322282	-93.57900805	17.53784799

Figure S1. Relative free energy profiles (ΔG in kcal mol⁻¹) for aziridination of styrene by PhSO₂N₃ mediated by the Co(por) and Co(PorAmide) species.

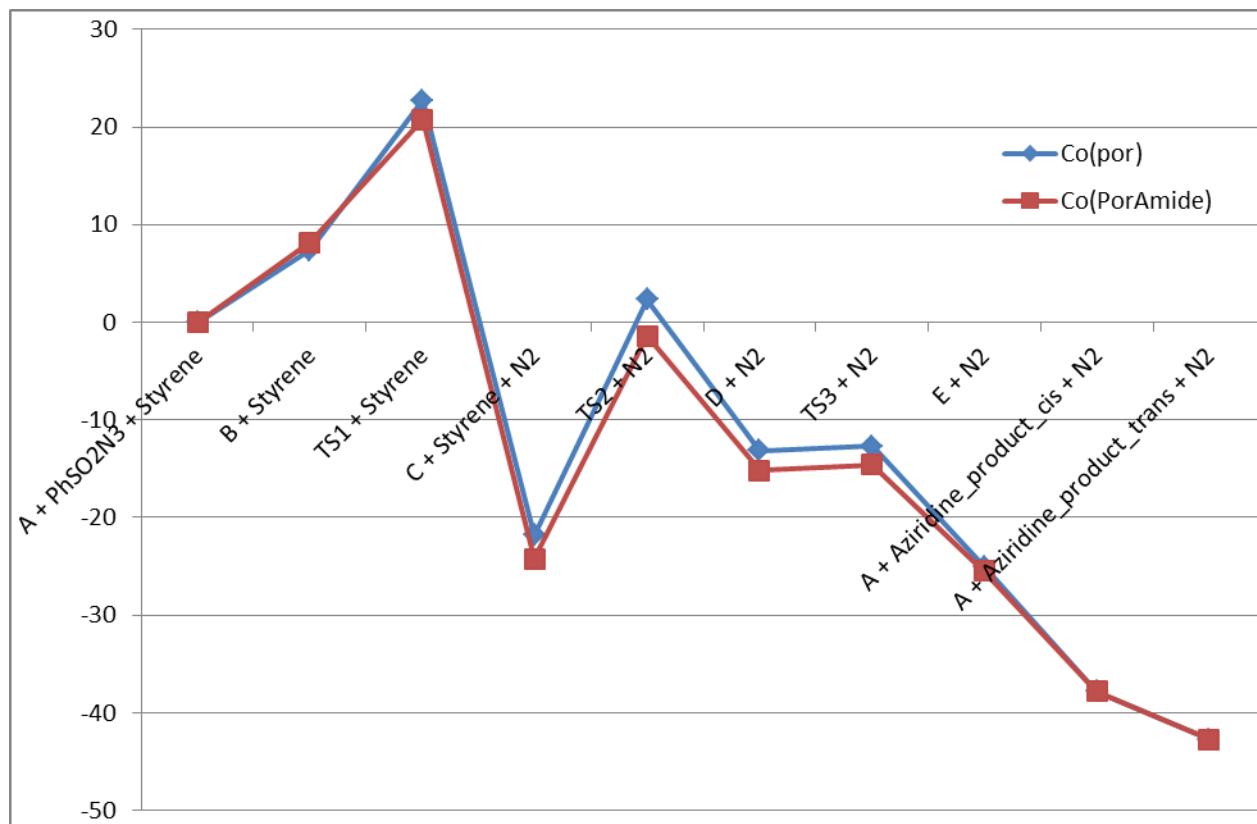


Figure S2. Relative enthalpy profiles (ΔH in kcal mol⁻¹) for aziridination of styrene by PhSO₂N₃ mediated by the Co(por) and Co(PorAmide) species.

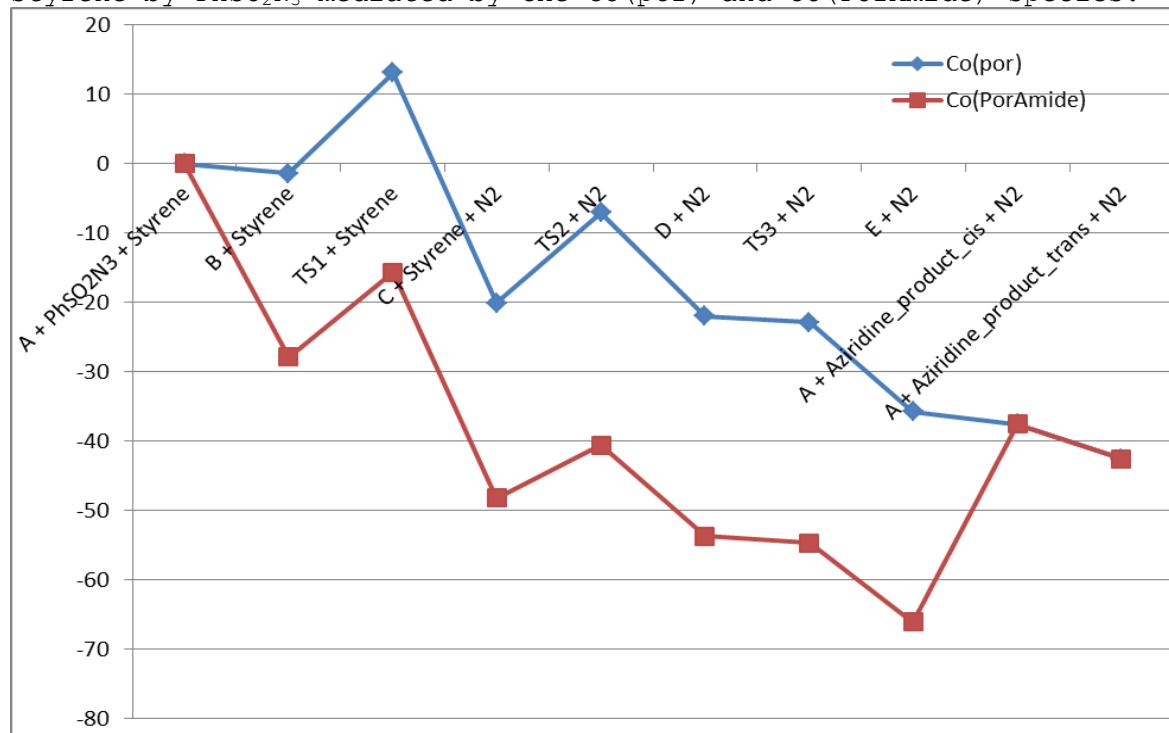
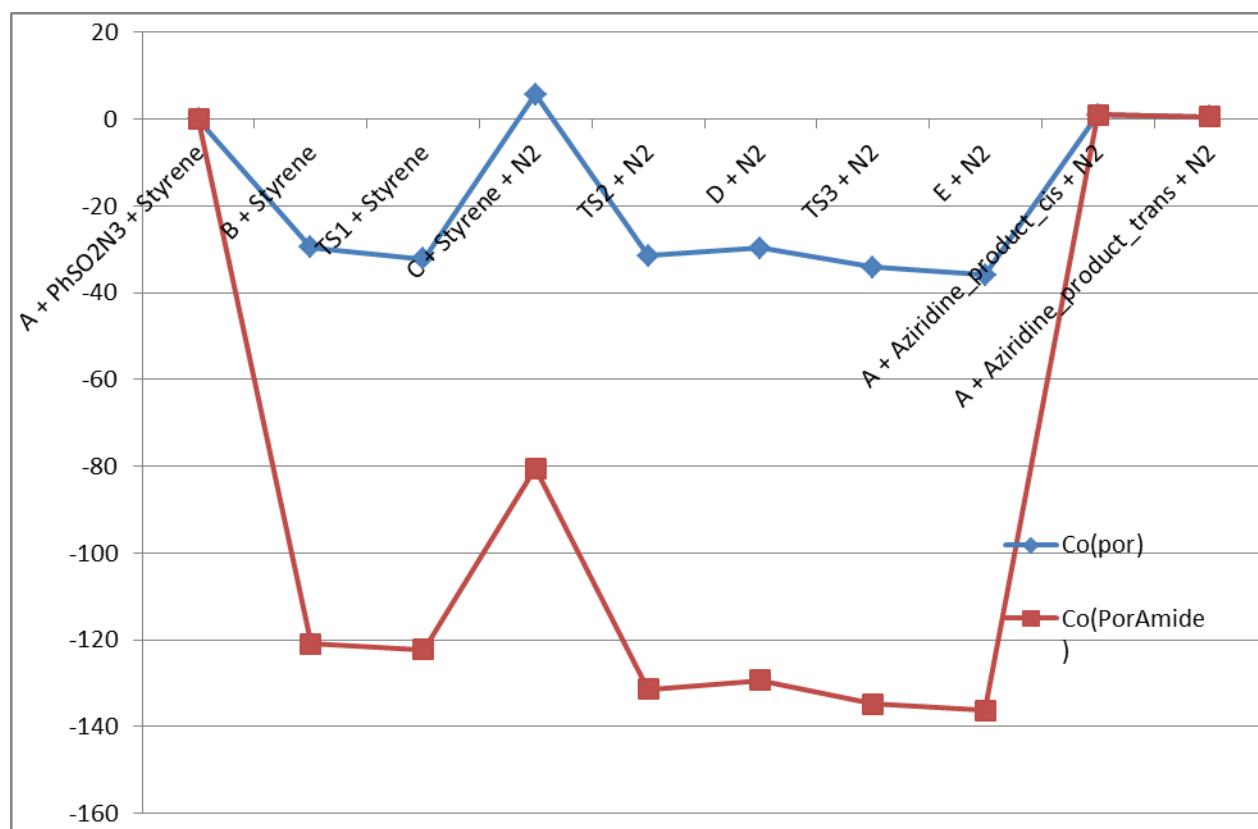


Figure S3. Relative enthalpy profiles (ΔG in kcal mol⁻¹) for aziridination of styrene by PhSO₂N₃ mediated by the Co(por) and Co(PorAmide) species.



Optimized Geometries

PhSO₂N₃

Xyz file

17
Energy = -944.7008456263
N 0.9098982 -2.4295908 3.0352064
S -0.7247697 -2.1025714 3.7304557
O -1.5924444 -2.0342745 2.5487076
O -0.5910127 -1.0070075 4.7100650
C -1.0354048 -3.6447338 4.5997483
C -1.5334949 -6.0263381 5.9433320
C -0.7693912 -3.7131483 5.9773419
C -1.5540106 -4.7334425 3.8784374
C -1.8000127 -5.9325227 4.5649611
C -1.0236718 -4.9206854 6.6474616
H -0.3841732 -2.8298217 6.5095696
H -1.7672947 -4.6320871 2.8032361
H -2.2086099 -6.7985605 4.0193503
H -0.8266291 -4.9950262 7.7292586
H -1.7308168 -6.9710045 6.4761045
N 2.7725353 -1.4222999 4.1380837
N 1.8443032 -1.8898851 3.6446804

pdb File

HEADER B2Pdb
COMPND B2Pdb
ATOM 1 N 111 1 0.910 -2.430 3.035 1.00 0.00
ATOM 2 S 111 1 -0.725 -2.103 3.730 1.00 0.00
ATOM 3 O 111 1 -1.592 -2.034 2.549 1.00 0.00
ATOM 4 O 111 1 -0.591 -1.007 4.710 1.00 0.00
ATOM 5 C 111 1 -1.035 -3.645 4.600 1.00 0.00
ATOM 6 C 111 1 -1.533 -6.026 5.943 1.00 0.00
ATOM 7 C 111 1 -0.769 -3.713 5.977 1.00 0.00
ATOM 8 C 111 1 -1.554 -4.733 3.878 1.00 0.00
ATOM 9 C 111 1 -1.800 -5.933 4.565 1.00 0.00
ATOM 10 C 111 1 -1.024 -4.921 6.647 1.00 0.00
ATOM 11 H 111 1 -0.384 -2.830 6.510 1.00 0.00
ATOM 12 H 111 1 -1.767 -4.632 2.803 1.00 0.00
ATOM 13 H 111 1 -2.209 -6.799 4.019 1.00 0.00
ATOM 14 H 111 1 -0.827 -4.995 7.729 1.00 0.00
ATOM 15 H 111 1 -1.731 -6.971 6.476 1.00 0.00
ATOM 16 N 111 1 2.773 -1.422 4.138 1.00 0.00
ATOM 17 N 111 1 1.844 -1.890 3.645 1.00 0.00
CONECT 1 2 17
CONECT 2 3 4 5
CONECT 5 7 8
CONECT 6 9 10 15
CONECT 7 10 11
CONECT 8 9 12
CONECT 9 13
CONECT 10 14
CONECT 16 17
END

Styrene

Xyz file

16

Energy = -309.7537148707

H	-0.4220828	-0.0008509	0.1233084
C	-0.1915446	-0.0002212	1.2009447
C	0.3533030	-0.0005233	3.9557215
C	1.1590344	-0.0005984	1.6325807
C	-1.2438235	0.0012447	2.1255730
C	-0.9783040	0.0015890	3.5084830
C	1.4060815	-0.0013803	3.0274300
H	-2.2861162	0.0020563	1.7652410
H	-1.8092469	0.0021131	4.2332214
H	2.4500471	-0.0039707	3.3856056
H	0.5750395	-0.0014232	5.0360195
C	2.3048469	0.0003334	0.7040109
H	3.2943425	0.0027941	1.1998021
C	2.2774250	-0.0000210	-0.6480522
H	3.2144833	0.0002092	-1.2305551
H	1.3365994	-0.0013509	-1.2265161

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	H	111	1	-0.422	-0.001	0.123	1.00	0.00
ATOM	2	C	111	1	-0.192	-0.000	1.201	1.00	0.00
ATOM	3	C	111	1	0.353	-0.001	3.956	1.00	0.00
ATOM	4	C	111	1	1.159	-0.001	1.633	1.00	0.00
ATOM	5	C	111	1	-1.244	0.001	2.126	1.00	0.00
ATOM	6	C	111	1	-0.978	0.002	3.508	1.00	0.00
ATOM	7	C	111	1	1.406	-0.001	3.027	1.00	0.00
ATOM	8	H	111	1	-2.286	0.002	1.765	1.00	0.00
ATOM	9	H	111	1	-1.809	0.002	4.233	1.00	0.00
ATOM	10	H	111	1	2.450	-0.004	3.386	1.00	0.00
ATOM	11	H	111	1	0.575	-0.001	5.036	1.00	0.00
ATOM	12	C	111	1	2.305	0.000	0.704	1.00	0.00
ATOM	13	H	111	1	3.294	0.003	1.200	1.00	0.00
ATOM	14	C	111	1	2.277	-0.000	-0.648	1.00	0.00
ATOM	15	H	111	1	3.214	0.000	-1.231	1.00	0.00
ATOM	16	H	111	1	1.337	-0.001	-1.227	1.00	0.00
CONECT	1	2							
CONECT	2	4	5						
CONECT	3	6	7	11					
CONECT	4	7	12						
CONECT	5	6	8						
CONECT	6	9							
CONECT	7	10							
CONECT	12	13	14						
CONECT	14	15	16						
END									

N2

Xyz file

2

Energy = -109.5756916202

N	0.0000000	0.0000000	0.9909013
N	0.0000000	0.0000000	-0.1211212

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	N	111	1	0.000	0.000	0.991	1.00	0.00
ATOM	2	N	111	1	0.000	0.000	-0.121	1.00	0.00
CONECT	1	2							

END

Aziridine product cis

Xyz file

31

Energy = -1144.9385492490

N	-1.0317160	-3.3865072	3.0612046
S	-1.1116793	-2.5165274	4.5709075
O	-1.6280360	-3.3664410	5.6736976
O	-1.7209956	-1.2090327	4.2502473
C	0.6585832	-2.2740267	4.8377386
C	3.3761497	-1.8581066	5.2854752
C	1.2958805	-2.9845819	5.8661244
C	1.3478867	-1.3484216	4.0354192
C	2.7179263	-1.1484738	4.2628670
C	2.6674427	-2.7696953	6.0871424
H	0.7126083	-3.6844835	6.4839087
H	0.8106680	-0.7947543	3.2501569
H	3.2762166	-0.4292322	3.6414854
H	3.1837907	-3.3164724	6.8931121
H	4.4521822	-1.6937766	5.4613283
H	-0.5214414	-5.4221544	2.4719683
C	-1.2187349	-4.8451810	3.1068239
H	-1.4403566	-5.2806051	4.0996631
C	-2.2814905	-3.9850764	2.5014970
H	-2.2762820	-3.8758100	1.3987622
C	-3.6468701	-3.8289219	3.1148945
C	-6.2681961	-3.5347973	4.1298154
C	-4.2805517	-4.8960241	3.7836122
C	-4.3460473	-2.6125541	2.9537149
C	-5.6452747	-2.4658837	3.4617975
C	-5.5831589	-4.7505982	4.2885695
H	-3.7516110	-5.8552312	3.9069482
H	-3.8571743	-1.7686893	2.4412604
H	-6.1754157	-1.5070598	3.3376837
H	-6.0644812	-5.5940904	4.8107207
H	-7.2898000	-3.4187445	4.5283927

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	N	111	1	0.910	-2.430	3.035	1.00	0.00
ATOM	2	S	111	1	-0.725	-2.103	3.730	1.00	0.00
ATOM	3	O	111	1	-1.592	-2.034	2.549	1.00	0.00
ATOM	4	O	111	1	-0.591	-1.007	4.710	1.00	0.00
ATOM	5	C	111	1	-1.035	-3.645	4.600	1.00	0.00
ATOM	6	C	111	1	-1.533	-6.026	5.943	1.00	0.00
ATOM	7	C	111	1	-0.769	-3.713	5.977	1.00	0.00
ATOM	8	C	111	1	-1.554	-4.733	3.878	1.00	0.00
ATOM	9	C	111	1	-1.800	-5.933	4.565	1.00	0.00
ATOM	10	C	111	1	-1.024	-4.921	6.647	1.00	0.00
ATOM	11	H	111	1	-0.384	-2.830	6.510	1.00	0.00
ATOM	12	H	111	1	-1.767	-4.632	2.803	1.00	0.00
ATOM	13	H	111	1	-2.209	-6.799	4.019	1.00	0.00
ATOM	14	H	111	1	-0.827	-4.995	7.729	1.00	0.00
ATOM	15	H	111	1	-1.731	-6.971	6.476	1.00	0.00

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ATOM    16   N    111     1      2.773  -1.422   4.138   1.00   0.00
ATOM    17   N    111     1      1.844  -1.890   3.645   1.00   0.00
CONECT  1     2    17
CONECT  2     3     4     5
CONECT  5     7     8
CONECT  6     9    10    15
CONECT  7    10    11
CONECT  8     9    12
CONECT  9    13
CONECT 10    14
CONECT 16    17
END

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Aziridine product trans

Xyz file

31

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Energy = -1144.9466427160
N    -1.0585288  -3.5377197  2.6834811
S    -0.0178447  -2.1661284  2.3605186
O    -0.8229094  -0.9992022  1.9149186
O    1.0784496  -2.6953730  1.5253954
C    0.6010358  -1.8339888  4.0180337
C    1.5951715  -1.2964750  6.5617362
C    0.0870025  -0.7404230  4.7317034
C    1.6117663  -2.6581546  4.5414858
C    2.1041722  -2.3834009  5.8263726
C    0.5930257  -0.4759483  6.0156477
H    -0.6883954  -0.1067971  4.2744651
H    2.0063357  -3.4933366  3.9422917
H    2.8963104  -3.0187444  6.2552845
H    0.2030261  0.3802369  6.5901829
H    1.9890454  -1.0837432  7.5692910
H    -1.7274459  -3.4431703  0.5692422
C    -1.8298512  -4.0001533  1.5202189
H    -1.8926028  -5.0999723  1.4269945
C    -2.5166662  -3.2938544  2.6579125
H    -2.8146697  -2.2555213  2.4156830
C    -3.3644640  -3.9858344  3.6782843
C    -5.0298453  -5.2945850  5.5501739
C    -4.6973909  -3.5651468  3.8693974
C    -2.8714089  -5.0646229  4.4417038
C    -3.6996185  -5.7139481  5.3705995
C    -5.5263674  -4.2169397  4.7969309
H    -5.0898375  -2.7163537  3.2830903
H    -1.8223320  -5.3755542  4.3094762
H    -3.3006454  -6.5527648  5.9652381
H    -6.5665456  -3.8775975  4.9348263
H    -5.6781292  -5.8051647  6.2815832

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Pdb file

HEADER B2Pdb

COMPND B2Pdb

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ATOM    1   N    111     1      -1.059  -3.538   2.683   1.00   0.00
ATOM    2   S    111     1      -0.018  -2.166   2.361   1.00   0.00
ATOM    3   O    111     1      -0.823  -0.999   1.915   1.00   0.00
ATOM    4   O    111     1      1.078  -2.695   1.525   1.00   0.00
ATOM    5   C    111     1      0.601  -1.834   4.018   1.00   0.00
ATOM    6   C    111     1      1.595  -1.296   6.562   1.00   0.00
ATOM    7   C    111     1      0.087  -0.740   4.732   1.00   0.00
ATOM    8   C    111     1      1.612  -2.658   4.541   1.00   0.00

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ATOM	9	C	111	1	2.104	-2.383	5.826	1.00	0.00
ATOM	10	C	111	1	0.593	-0.476	6.016	1.00	0.00
ATOM	11	H	111	1	-0.688	-0.107	4.274	1.00	0.00
ATOM	12	H	111	1	2.006	-3.493	3.942	1.00	0.00
ATOM	13	H	111	1	2.896	-3.019	6.255	1.00	0.00
ATOM	14	H	111	1	0.203	0.380	6.590	1.00	0.00
ATOM	15	H	111	1	1.989	-1.084	7.569	1.00	0.00
ATOM	16	H	111	1	-1.727	-3.443	0.569	1.00	0.00
ATOM	17	C	111	1	-1.830	-4.000	1.520	1.00	0.00
ATOM	18	H	111	1	-1.893	-5.100	1.427	1.00	0.00
ATOM	19	C	111	1	-2.517	-3.294	2.658	1.00	0.00
ATOM	20	H	111	1	-2.815	-2.256	2.416	1.00	0.00
ATOM	21	C	111	1	-3.364	-3.986	3.678	1.00	0.00
ATOM	22	C	111	1	-5.030	-5.295	5.550	1.00	0.00
ATOM	23	C	111	1	-4.697	-3.565	3.869	1.00	0.00
ATOM	24	C	111	1	-2.871	-5.065	4.442	1.00	0.00
ATOM	25	C	111	1	-3.700	-5.714	5.371	1.00	0.00
ATOM	26	C	111	1	-5.526	-4.217	4.797	1.00	0.00
ATOM	27	H	111	1	-5.090	-2.716	3.283	1.00	0.00
ATOM	28	H	111	1	-1.822	-5.376	4.309	1.00	0.00
ATOM	29	H	111	1	-3.301	-6.553	5.965	1.00	0.00
ATOM	30	H	111	1	-6.567	-3.878	4.935	1.00	0.00
ATOM	31	H	111	1	-5.678	-5.805	6.282	1.00	0.00
CONECT	1	2	17	19					
CONECT	2	3	4	5					
CONECT	5	7	8						
CONECT	6	9	10	15					
CONECT	7	10	11						
CONECT	8	9	12						
CONECT	9	13							
CONECT	10	14							
CONECT	16	17							
CONECT	17	18	19						
CONECT	19	20	21						
CONECT	21	23	24						
CONECT	22	25	26	31					
CONECT	23	26	27						
CONECT	24	25	28						
CONECT	25	29							
CONECT	26	30							
END									

A_Co(por)

Xyz file

37

Energy = -2370.655550939

C	0.7723160	0.5410334	0.5260294
N	0.4957726	-0.8108628	0.6753610
H	-0.4798713	2.4025864	0.2727174
C	-0.8895864	-0.8886978	0.6438885
C	-1.4825378	0.4197089	0.4742534
H	-2.5627125	0.6110993	0.4207267
C	-0.4447042	1.3123522	0.4006299
C	-1.6320397	-2.0601917	0.7574987
H	-2.7291801	-1.9831420	0.7149583
N	0.2889937	-3.5926107	0.9954630
C	0.3628998	-4.9691101	1.1563181
C	-0.9555925	-5.5634486	1.1826069
H	-1.1516255	-6.6378008	1.2992880

C	-1.8505049	-4.5353998	1.0357528
H	-2.9476658	-4.5745043	1.0047988
C	-1.0703894	-3.3229199	0.9210873
C	2.0448676	1.1035983	0.4992284
H	2.126189	2.1943060	0.3757623
H	6.5317773	-0.0246800	0.7712629
C	5.4346097	-0.0637655	0.7404768
C	4.6544986	-1.2762628	0.8549496
H	4.7357002	2.0387258	0.4776956
N	3.295102	-1.0065385	0.7808514
C	3.2211889	0.3700040	0.6203797
C	4.5396795	0.9643397	0.5940958
C	1.5392122	-5.7026852	1.2776141
H	1.4578799	-6.7933652	1.4013282
H	6.1468304	-5.2103382	1.3548620
C	5.0666471	-5.0189190	1.3016074
C	4.0287973	-5.9115109	1.3756466
H	4.0639543	-7.0017290	1.5037019
C	2.8117778	-5.1401621	1.2504537
N	3.0883289	-3.7882983	1.1008703
C	4.4736983	-3.7105086	1.1319872
C	5.2161575	-2.5390302	1.0182352
H	6.3133082	-2.6161036	1.0605128
Co	1.7920498	-2.2995778	0.8881391

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.772	0.541	0.526	1.00	0.00
ATOM	2	N	111	1	0.496	-0.811	0.675	1.00	0.00
ATOM	3	H	111	1	-0.480	2.403	0.273	1.00	0.00
ATOM	4	C	111	1	-0.890	-0.889	0.644	1.00	0.00
ATOM	5	C	111	1	-1.483	0.420	0.474	1.00	0.00
ATOM	6	H	111	1	-2.563	0.611	0.421	1.00	0.00
ATOM	7	C	111	1	-0.445	1.312	0.401	1.00	0.00
ATOM	8	C	111	1	-1.632	-2.060	0.757	1.00	0.00
ATOM	9	H	111	1	-2.729	-1.983	0.715	1.00	0.00
ATOM	10	N	111	1	0.289	-3.593	0.995	1.00	0.00
ATOM	11	C	111	1	0.363	-4.969	1.156	1.00	0.00
ATOM	12	C	111	1	-0.956	-5.563	1.183	1.00	0.00
ATOM	13	H	111	1	-1.152	-6.638	1.299	1.00	0.00
ATOM	14	C	111	1	-1.851	-4.535	1.036	1.00	0.00
ATOM	15	H	111	1	-2.948	-4.575	1.005	1.00	0.00
ATOM	16	C	111	1	-1.070	-3.323	0.921	1.00	0.00
ATOM	17	C	111	1	2.045	1.104	0.499	1.00	0.00
ATOM	18	H	111	1	2.126	2.194	0.376	1.00	0.00
ATOM	19	H	111	1	6.532	-0.025	0.771	1.00	0.00
ATOM	20	C	111	1	5.435	-0.064	0.740	1.00	0.00
ATOM	21	C	111	1	4.654	-1.276	0.855	1.00	0.00
ATOM	22	H	111	1	4.736	2.039	0.478	1.00	0.00
ATOM	23	N	111	1	3.295	-1.007	0.781	1.00	0.00
ATOM	24	C	111	1	3.221	0.370	0.620	1.00	0.00
ATOM	25	C	111	1	4.540	0.964	0.594	1.00	0.00
ATOM	26	C	111	1	1.539	-5.703	1.278	1.00	0.00
ATOM	27	H	111	1	1.458	-6.793	1.401	1.00	0.00
ATOM	28	H	111	1	6.147	-5.210	1.355	1.00	0.00
ATOM	29	C	111	1	5.067	-5.019	1.302	1.00	0.00
ATOM	30	C	111	1	4.029	-5.912	1.376	1.00	0.00
ATOM	31	H	111	1	4.064	-7.002	1.504	1.00	0.00

ATOM	32	C	111	1	2.812	-5.140	1.250	1.00	0.00
ATOM	33	N	111	1	3.088	-3.788	1.101	1.00	0.00
ATOM	34	C	111	1	4.474	-3.711	1.132	1.00	0.00
ATOM	35	C	111	1	5.216	-2.539	1.018	1.00	0.00
ATOM	36	H	111	1	6.313	-2.616	1.061	1.00	0.00
ATOM	37	Co	111	1	1.792	-2.300	0.888	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	37						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	37					
CONECT	11	12	26						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	18	24						
CONECT	19	20							
CONECT	20	21	25						
CONECT	21	23	35						
CONECT	22	25							
CONECT	23	24	37						
CONECT	24	25							
CONECT	26	27	32						
CONECT	28	29							
CONECT	29	30	34						
CONECT	30	31	32						
CONECT	32	33							
CONECT	33	34	37						
CONECT	34	35							
CONECT	35	36							
END									

H	111	1	-0.480	2.403	0.273	1.00	0.00		
ATOM	4	C	111	1	-0.890	-0.889	0.644	1.00	0.00
ATOM	5	C	111	1	-1.483	0.420	0.474	1.00	0.00
ATOM	6	H	111	1	-2.563	0.611	0.421	1.00	0.00
ATOM	7	C	111	1	-0.445	1.312	0.401	1.00	0.00
ATOM	8	C	111	1	-1.632	-2.060	0.757	1.00	0.00
ATOM	9	H	111	1	-2.729	-1.983	0.715	1.00	0.00
ATOM	10	N	111	1	0.289	-3.593	0.995	1.00	0.00
ATOM	11	C	111	1	0.363	-4.969	1.156	1.00	0.00
ATOM	12	C	111	1	-0.956	-5.563	1.183	1.00	0.00
ATOM	13	H	111	1	-1.152	-6.638	1.299	1.00	0.00
ATOM	14	C	111	1	-1.851	-4.535	1.036	1.00	0.00
ATOM	15	H	111	1	-2.948	-4.575	1.005	1.00	0.00
ATOM	16	C	111	1	-1.070	-3.323	0.921	1.00	0.00
ATOM	17	C	111	1	2.045	1.104	0.499	1.00	0.00
ATOM	18	H	111	1	2.126	2.194	0.376	1.00	0.00
ATOM	19	H	111	1	6.532	-0.025	0.771	1.00	0.00
ATOM	20	C	111	1	5.435	-0.064	0.740	1.00	0.00
ATOM	21	C	111	1	4.654	-1.276	0.855	1.00	0.00
ATOM	22	H	111	1	4.736	2.039	0.478	1.00	0.00
ATOM	23	N	111	1	3.295	-1.007	0.781	1.00	0.00
ATOM	24	C	111	1	3.221	0.370	0.620	1.00	0.00
ATOM	25	C	111	1	4.540	0.964	0.594	1.00	0.00
ATOM	26	C	111	1	1.539	-5.703	1.278	1.00	0.00
ATOM	27	H	111	1	1.458	-6.793	1.401	1.00	0.00
ATOM	28	H	111	1	6.147	-5.210	1.355	1.00	0.00
ATOM	29	C	111	1	5.067	-5.019	1.302	1.00	0.00

ATOM 30 C 111 1 4.029 -5.912 1.376 1.00 0.00
ATOM 31 H 111 1 4.064 -7.002 1.504 1.00 0.00
ATOM 32 C 111 1 2.812 -5.140 1.250 1.00 0.00
ATOM 33 N 111 1 3.088 -3.788 1.101 1.00 0.00
ATOM 34 C 111 1 4.474 -3.711 1.132 1.00 0.00
ATOM 35 C 111 1 5.216 -2.539 1.018 1.00 0.00
ATOM 36 H 111 1 6.313 -2.616 1.061 1.00 0.00
ATOM 37 Co 111 1 1.792 -2.300 0.888 1.00 0.00
CONECT 1 2 7 17
CONECT 2 4 37
CONECT 3 7
CONECT 4 5 8
CONECT 5 6 7
CONECT 8 9 16
CONECT 10 11 16 37
CONECT 11 12 26
CONECT 12 13 14
CONECT 14 15 16
CONECT 17 18 24
CONECT 19 20
CONECT 20 21 25
CONECT 21 23 35
CONECT 22 25
CONECT 23 24 37
CONECT 24 25
CONECT 26 27 32
CONECT 28 29
CONECT 29 30 34
CONECT 30 31 32
CONECT 32 33
CONECT 33 34 37
CONECT 34 35
CONECT 35 36
END

B_Co(por)

Xyz file

54

Energy = -3316.5739685690
C 0.8564576 -0.1246196 -0.7200833
N 0.3610350 -1.4045365 -0.5202346
H 0.1708468 1.6718221 -1.9068655
C -0.8137247 -1.4514545 -1.2533721
C -1.0640758 -0.1864279 -1.9107379
H -1.9325003 0.0231025 -2.5497275
C -0.0114224 0.6345700 -1.5948447
C -1.6120618 -2.5829470 -1.4148680
H -2.5268438 -2.4879539 -2.0200283
N -0.1568291 -4.1396655 -0.1720091
C -0.1723306 -5.5168648 -0.0283828
C -1.2963284 -6.0986812 -0.7315255
H -1.5169246 -7.1738340 -0.7721556
C -1.9938363 -5.0561928 -1.2843585
H -2.9094402 -5.0838752 -1.8905360
C -1.2692092 -3.8489450 -0.9436570
C 2.0010656 0.3952699 -0.1177066
H 2.2863040 1.4301795 -0.3603880
H 5.1670587 -0.6037945 3.1243684

C	4.3354700	-0.6630125	2.4090652
C	3.5078281	-1.8328972	2.2046470
H	4.2625340	1.3118366	1.3727191
N	2.5471517	-1.5965748	1.2340208
C	2.7720831	-0.2930127	0.8185715
C	3.8882724	0.2913866	1.5305926
C	0.7240612	-6.2541868	0.7403679
H	0.6001032	-7.3474027	0.7731427
H	4.1826581	-5.7121404	3.7886071
C	3.3904119	-5.5308156	3.0492657
C	2.5811112	-6.4415970	2.4148537
H	2.5528583	-7.5338935	2.5284553
C	1.7275038	-5.6859347	1.5234537
N	2.0157911	-4.3324112	1.5929742
C	3.0422599	-4.2295471	2.5186385
C	3.7157397	-3.0530021	2.8460829
H	4.5168014	-3.1099776	3.5994709
Co	1.1215559	-2.8485132	0.6223335
N	-0.1836790	-2.2692407	2.3131524
S	-1.3502993	-3.2527721	3.3349911
O	-1.2733071	-4.5946319	2.7497238
O	-2.5954012	-2.4673597	3.4199372
C	-0.5385485	-3.2445441	4.9381880
C	0.6835472	-3.2579434	7.4341481
C	-0.9869417	-2.3407490	5.9168505
C	0.5023042	-4.1589385	5.1760259
C	1.1127442	-4.1564119	6.4398143
C	-0.3628353	-2.3547099	7.1749163
H	-1.8187193	-1.6549499	5.6960036
H	0.8228042	-4.8604976	4.3903067
H	1.9291421	-4.8668333	6.6474275
H	-0.7023449	-1.6585231	7.9588524
H	1.1675596	-3.2647792	8.4244695
N	-0.3297314	-1.0439676	2.4979445
N	-0.3899082	0.0998410	2.5974136

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.856	-0.125	-0.720	1.00	0.00
ATOM	2	N	111	1	0.361	-1.405	-0.520	1.00	0.00
ATOM	3	H	111	1	0.171	1.672	-1.907	1.00	0.00
ATOM	4	C	111	1	-0.814	-1.451	-1.253	1.00	0.00
ATOM	5	C	111	1	-1.064	-0.186	-1.911	1.00	0.00
ATOM	6	H	111	1	-1.933	0.023	-2.550	1.00	0.00
ATOM	7	C	111	1	-0.011	0.635	-1.595	1.00	0.00
ATOM	8	C	111	1	-1.612	-2.583	-1.415	1.00	0.00
ATOM	9	H	111	1	-2.527	-2.488	-2.020	1.00	0.00
ATOM	10	N	111	1	-0.157	-4.140	-0.172	1.00	0.00
ATOM	11	C	111	1	-0.172	-5.517	-0.028	1.00	0.00
ATOM	12	C	111	1	-1.296	-6.099	-0.732	1.00	0.00
ATOM	13	H	111	1	-1.517	-7.174	-0.772	1.00	0.00
ATOM	14	C	111	1	-1.994	-5.056	-1.284	1.00	0.00
ATOM	15	H	111	1	-2.909	-5.084	-1.891	1.00	0.00
ATOM	16	C	111	1	-1.269	-3.849	-0.944	1.00	0.00
ATOM	17	C	111	1	2.001	0.395	-0.118	1.00	0.00
ATOM	18	H	111	1	2.286	1.430	-0.360	1.00	0.00
ATOM	19	H	111	1	5.167	-0.604	3.124	1.00	0.00

ATOM	20	C	111	1	4.335	-0.663	2.409	1.00	0.00
ATOM	21	C	111	1	3.508	-1.833	2.205	1.00	0.00
ATOM	22	H	111	1	4.263	1.312	1.373	1.00	0.00
ATOM	23	N	111	1	2.547	-1.597	1.234	1.00	0.00
ATOM	24	C	111	1	2.772	-0.293	0.819	1.00	0.00
ATOM	25	C	111	1	3.888	0.291	1.531	1.00	0.00
ATOM	26	C	111	1	0.724	-6.254	0.740	1.00	0.00
ATOM	27	H	111	1	0.600	-7.347	0.773	1.00	0.00
ATOM	28	H	111	1	4.183	-5.712	3.789	1.00	0.00
ATOM	29	C	111	1	3.390	-5.531	3.049	1.00	0.00
ATOM	30	C	111	1	2.581	-6.442	2.415	1.00	0.00
ATOM	31	H	111	1	2.553	-7.534	2.528	1.00	0.00
ATOM	32	C	111	1	1.728	-5.686	1.523	1.00	0.00
ATOM	33	N	111	1	2.016	-4.332	1.593	1.00	0.00
ATOM	34	C	111	1	3.042	-4.230	2.519	1.00	0.00
ATOM	35	C	111	1	3.716	-3.053	2.846	1.00	0.00
ATOM	36	H	111	1	4.517	-3.110	3.599	1.00	0.00
ATOM	37	Co	111	1	1.122	-2.849	0.622	1.00	0.00
ATOM	38	N	111	1	-0.184	-2.269	2.313	1.00	0.00
ATOM	39	S	111	1	-1.350	-3.253	3.335	1.00	0.00
ATOM	40	O	111	1	-1.273	-4.595	2.750	1.00	0.00
ATOM	41	O	111	1	-2.595	-2.467	3.420	1.00	0.00
ATOM	42	C	111	1	-0.539	-3.245	4.938	1.00	0.00
ATOM	43	C	111	1	0.684	-3.258	7.434	1.00	0.00
ATOM	44	C	111	1	-0.987	-2.341	5.917	1.00	0.00
ATOM	45	C	111	1	0.502	-4.159	5.176	1.00	0.00
ATOM	46	C	111	1	1.113	-4.156	6.440	1.00	0.00
ATOM	47	C	111	1	-0.363	-2.355	7.175	1.00	0.00
ATOM	48	H	111	1	-1.819	-1.655	5.696	1.00	0.00
ATOM	49	H	111	1	0.823	-4.860	4.390	1.00	0.00
ATOM	50	H	111	1	1.929	-4.867	6.647	1.00	0.00
ATOM	51	H	111	1	-0.702	-1.659	7.959	1.00	0.00
ATOM	52	H	111	1	1.168	-3.265	8.424	1.00	0.00
ATOM	53	N	111	1	-0.330	-1.044	2.498	1.00	0.00
ATOM	54	N	111	1	-0.390	0.100	2.597	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	37						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	37					
CONECT	11	12	26						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	18	24						
CONECT	19	20							
CONECT	20	21	25						
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CONECT	22	25							
CONECT	23	24	37						
CONECT	24	25							
CONECT	26	27	32						
CONECT	28	29							
CONECT	29	30	34						
CONECT	30	31	32						
CONECT	32	33							
CONECT	33	34	37						
CONECT	34	35							
CONECT	35	36							

CONECT 38 39 53
CONECT 39 40 41 42
CONECT 42 44 45
CONECT 43 46 47 52
CONECT 44 47 48
CONECT 45 46 49
CONECT 46 50
CONECT 47 51
CONECT 53 54
END

TS1_Co(por)

Xyz file

54

Energy = -3316.5471059920

C	0.2077268	0.1249423	0.7091604
N	0.1693963	-1.1966840	0.2959149
H	-1.1428114	1.9096935	0.4114539
C	-0.9825884	-1.3082738	-0.4651116
C	-1.6667153	-0.0362972	-0.5433160
H	-2.5974065	0.1360829	-1.1000228
C	-0.9443704	0.8474324	0.2169429
C	-1.4587090	-2.4909887	-1.0238023
H	-2.3868876	-2.4499806	-1.6132890
N	0.2659566	-3.9586211	-0.0511655
C	0.3618903	-5.3339079	0.0844914
C	-0.7483099	-5.9876690	-0.5724822
H	-0.8934613	-7.0754634	-0.6181716
C	-1.5124175	-4.9954284	-1.1350397
H	-2.4325651	-5.0888945	-1.7270756
C	-0.8960931	-3.7398125	-0.7709790
C	1.2778224	0.7208359	1.3712068
H	1.1888875	1.7812890	1.6515197
H	5.8012853	-0.0096944	2.0963787
C	4.7327591	-0.1467831	1.8829442
C	4.1314777	-1.3972194	1.4795584
H	3.7678141	1.8306984	2.2539400
N	2.7694013	-1.2381888	1.2683338
C	2.5063402	0.0894793	1.5648999
C	3.7145929	0.7711350	1.9701409
C	1.4394930	-6.0079576	0.6576807
H	1.3971877	-7.1068862	0.7049005
H	5.9194731	-5.2520956	1.5855285
C	4.8448696	-5.1204143	1.4006831
C	3.8677837	-6.0788004	1.2942939
H	3.9682714	-7.1710345	1.3523986
C	2.6306070	-5.3789514	1.0211610
N	2.8342396	-4.0111378	1.0080158
C	4.1881432	-3.8399833	1.2492441
C	4.8190254	-2.6085906	1.4105123
H	5.9038276	-2.5998662	1.5945016
Co	1.4220326	-2.6223791	0.8152354
N	0.7883927	-2.9552705	2.5530723
S	-0.8345369	-2.4790475	3.0608696
O	-1.7425590	-3.0439515	2.0347035
O	-0.9282318	-1.0529004	3.4541029
C	-1.0487611	-3.4775502	4.5607651
C	-1.4839682	-4.9994492	6.8549076

C	-1.0508658	-2.8410060	5.8111369
C	-1.2713454	-4.8587584	4.4313869
C	-1.4846208	-5.6197092	5.5915747
C	-1.2717859	-3.6137480	6.9637200
H	-0.8883753	-1.7535481	5.8654644
H	-1.2818079	-5.3223170	3.4328144
H	-1.6586535	-6.7052992	5.5085469
H	-1.2802699	-3.1279496	7.9535210
H	-1.6549284	-5.6019372	7.7623264
N	2.7999684	-2.5968760	4.0442096
N	1.6656487	-2.6054744	3.8885465

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.208	0.125	0.709	1.00	0.00
ATOM	2	N	111	1	0.169	-1.197	0.296	1.00	0.00
ATOM	3	H	111	1	-1.143	1.910	0.411	1.00	0.00
ATOM	4	C	111	1	-0.983	-1.308	-0.465	1.00	0.00
ATOM	5	C	111	1	-1.667	-0.036	-0.543	1.00	0.00
ATOM	6	H	111	1	-2.597	0.136	-1.100	1.00	0.00
ATOM	7	C	111	1	-0.944	0.847	0.217	1.00	0.00
ATOM	8	C	111	1	-1.459	-2.491	-1.024	1.00	0.00
ATOM	9	H	111	1	-2.387	-2.450	-1.613	1.00	0.00
ATOM	10	N	111	1	0.266	-3.959	-0.051	1.00	0.00
ATOM	11	C	111	1	0.362	-5.334	0.084	1.00	0.00
ATOM	12	C	111	1	-0.748	-5.988	-0.572	1.00	0.00
ATOM	13	H	111	1	-0.893	-7.075	-0.618	1.00	0.00
ATOM	14	C	111	1	-1.512	-4.995	-1.135	1.00	0.00
ATOM	15	H	111	1	-2.433	-5.089	-1.727	1.00	0.00
ATOM	16	C	111	1	-0.896	-3.740	-0.771	1.00	0.00
ATOM	17	C	111	1	1.278	0.721	1.371	1.00	0.00
ATOM	18	H	111	1	1.189	1.781	1.652	1.00	0.00
ATOM	19	H	111	1	5.801	-0.010	2.096	1.00	0.00
ATOM	20	C	111	1	4.733	-0.147	1.883	1.00	0.00
ATOM	21	C	111	1	4.131	-1.397	1.480	1.00	0.00
ATOM	22	H	111	1	3.768	1.831	2.254	1.00	0.00
ATOM	23	N	111	1	2.769	-1.238	1.268	1.00	0.00
ATOM	24	C	111	1	2.506	0.089	1.565	1.00	0.00
ATOM	25	C	111	1	3.715	0.771	1.970	1.00	0.00
ATOM	26	C	111	1	1.439	-6.008	0.658	1.00	0.00
ATOM	27	H	111	1	1.397	-7.107	0.705	1.00	0.00
ATOM	28	H	111	1	5.919	-5.252	1.586	1.00	0.00
ATOM	29	C	111	1	4.845	-5.120	1.401	1.00	0.00
ATOM	30	C	111	1	3.868	-6.079	1.294	1.00	0.00
ATOM	31	H	111	1	3.968	-7.171	1.352	1.00	0.00
ATOM	32	C	111	1	2.631	-5.379	1.021	1.00	0.00
ATOM	33	N	111	1	2.834	-4.011	1.008	1.00	0.00
ATOM	34	C	111	1	4.188	-3.840	1.249	1.00	0.00
ATOM	35	C	111	1	4.819	-2.609	1.411	1.00	0.00
ATOM	36	H	111	1	5.904	-2.600	1.595	1.00	0.00
ATOM	37	Co	111	1	1.422	-2.622	0.815	1.00	0.00
ATOM	38	N	111	1	0.788	-2.955	2.553	1.00	0.00
ATOM	39	S	111	1	-0.835	-2.479	3.061	1.00	0.00
ATOM	40	O	111	1	-1.743	-3.044	2.035	1.00	0.00
ATOM	41	O	111	1	-0.928	-1.053	3.454	1.00	0.00
ATOM	42	C	111	1	-1.049	-3.478	4.561	1.00	0.00
ATOM	43	C	111	1	-1.484	-4.999	6.855	1.00	0.00

ATOM	44	C	111	1	-1.051	-2.841	5.811	1.00	0.00
ATOM	45	C	111	1	-1.271	-4.859	4.431	1.00	0.00
ATOM	46	C	111	1	-1.485	-5.620	5.592	1.00	0.00
ATOM	47	C	111	1	-1.272	-3.614	6.964	1.00	0.00
ATOM	48	H	111	1	-0.888	-1.754	5.865	1.00	0.00
ATOM	49	H	111	1	-1.282	-5.322	3.433	1.00	0.00
ATOM	50	H	111	1	-1.659	-6.705	5.509	1.00	0.00
ATOM	51	H	111	1	-1.280	-3.128	7.954	1.00	0.00
ATOM	52	H	111	1	-1.655	-5.602	7.762	1.00	0.00
ATOM	53	N	111	1	2.800	-2.597	4.044	1.00	0.00
ATOM	54	N	111	1	1.666	-2.605	3.889	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	37						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	37					
CONECT	11	12	26						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	18	24						
CONECT	19	20							
CONECT	20	21	25						
CONECT	21	23	35						
CONECT	22	25							
CONECT	23	24	37						
CONECT	24	25							
CONECT	26	27	32						
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CONECT	29	30	34						
CONECT	30	31	32						
CONECT	32	33							
CONECT	33	34	37						
CONECT	34	35							
CONECT	35	36							
CONECT	37	38							
CONECT	38	39	54						
CONECT	39	40	41	42					
CONECT	42	44	45						
CONECT	43	46	47	52					
CONECT	44	47	48						
CONECT	45	46	49						
CONECT	46	50							
CONECT	47	51							
CONECT	53	54							
END									

2C_ Co(por)
 Xyz file
 52
 Energy = -3207.0247187560
 C 0.2853322 -0.1824436 0.0192826
 N 0.1018876 -1.5560165 -0.0544117
 H -0.9097225 1.6124277 -0.6382560
 C -1.1189933 -1.7171639 -0.6945731
 C -1.6913311 -0.4372147 -1.0419302
 H -2.6472581 -0.3067299 -1.5660922

C	-0.8273506	0.5193780	-0.5756545
C	-1.7408081	-2.9348534	-0.9426827
H	-2.7140252	-2.9250902	-1.4554573
N	-0.0397358	-4.3378538	0.1592054
C	-0.0210633	-5.6797021	0.5101761
C	-1.2195572	-6.3460942	0.0537489
H	-1.4316949	-7.4136342	0.2002143
C	-1.9726054	-5.4001755	-0.5938046
H	-2.9471586	-5.5134865	-1.0866897
C	-1.2480799	-4.1547825	-0.4932460
C	1.4248069	0.4489718	0.5027308
H	1.4392085	1.5488606	0.5224665
H	5.7911435	-0.4896215	1.7452861
C	4.7325993	-0.5759681	1.4657967
C	4.0314035	-1.8285757	1.2918260
H	3.9622496	1.5091657	1.2706326
N	2.7174721	-1.6084602	0.9110218
C	2.5763933	-0.2307574	0.8876406
C	3.8191838	0.4208963	1.2336061
C	1.0392292	-6.3352793	1.1290262
H	0.9242337	-7.4067816	1.3532777
H	5.5037040	-5.7006934	2.2131319
C	4.4581571	-5.5455919	1.9149511
C	3.4340168	-6.4564083	1.8604924
H	3.4531246	-7.5292320	2.0944422
C	2.2688554	-5.7376207	1.3924236
N	2.5658147	-4.4057708	1.1687549
C	3.8988890	-4.2727192	1.5124975
C	4.6048551	-3.0731693	1.5381711
H	5.6647432	-3.1030864	1.8325480
Co	1.2536098	-2.9541290	0.7356772
N	0.7356492	-2.8595061	2.4519142
S	-0.7326879	-2.1476703	2.8899897
O	-1.9235031	-2.7867524	2.2605809
O	-0.6276541	-0.6596529	2.8922948
C	-0.6982260	-2.6777176	4.6278310
C	-0.6866441	-3.4662233	7.3037224
C	0.0184139	-1.9130816	5.5640344
C	-1.4132386	-3.8254399	5.0060521
C	-1.4054570	-4.2163048	6.3551216
C	0.0221427	-2.3163609	6.9086271
H	0.5524968	-1.0091040	5.2329461
H	-1.9756475	-4.3872386	4.2441415
H	-1.9679354	-5.1114819	6.6691292
H	0.5785933	-1.7260417	7.6554780
H	-0.6820130	-3.7778407	8.3615270

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.285	-0.182	0.019	1.00	0.00
ATOM	2	N	111	1	0.102	-1.556	-0.054	1.00	0.00
ATOM	3	H	111	1	-0.910	1.612	-0.638	1.00	0.00
ATOM	4	C	111	1	-1.119	-1.717	-0.695	1.00	0.00
ATOM	5	C	111	1	-1.691	-0.437	-1.042	1.00	0.00
ATOM	6	H	111	1	-2.647	-0.307	-1.566	1.00	0.00
ATOM	7	C	111	1	-0.827	0.519	-0.576	1.00	0.00
ATOM	8	C	111	1	-1.741	-2.935	-0.943	1.00	0.00

ATOM	9	H	111	1	-2.714	-2.925	-1.455	1.00	0.00
ATOM	10	N	111	1	-0.040	-4.338	0.159	1.00	0.00
ATOM	11	C	111	1	-0.021	-5.680	0.510	1.00	0.00
ATOM	12	C	111	1	-1.220	-6.346	0.054	1.00	0.00
ATOM	13	H	111	1	-1.432	-7.414	0.200	1.00	0.00
ATOM	14	C	111	1	-1.973	-5.400	-0.594	1.00	0.00
ATOM	15	H	111	1	-2.947	-5.513	-1.087	1.00	0.00
ATOM	16	C	111	1	-1.248	-4.155	-0.493	1.00	0.00
ATOM	17	C	111	1	1.425	0.449	0.503	1.00	0.00
ATOM	18	H	111	1	1.439	1.549	0.522	1.00	0.00
ATOM	19	H	111	1	5.791	-0.490	1.745	1.00	0.00
ATOM	20	C	111	1	4.733	-0.576	1.466	1.00	0.00
ATOM	21	C	111	1	4.031	-1.829	1.292	1.00	0.00
ATOM	22	H	111	1	3.962	1.509	1.271	1.00	0.00
ATOM	23	N	111	1	2.717	-1.608	0.911	1.00	0.00
ATOM	24	C	111	1	2.576	-0.231	0.888	1.00	0.00
ATOM	25	C	111	1	3.819	0.421	1.234	1.00	0.00
ATOM	26	C	111	1	1.039	-6.335	1.129	1.00	0.00
ATOM	27	H	111	1	0.924	-7.407	1.353	1.00	0.00
ATOM	28	H	111	1	5.504	-5.701	2.213	1.00	0.00
ATOM	29	C	111	1	4.458	-5.546	1.915	1.00	0.00
ATOM	30	C	111	1	3.434	-6.456	1.860	1.00	0.00
ATOM	31	H	111	1	3.453	-7.529	2.094	1.00	0.00
ATOM	32	C	111	1	2.269	-5.738	1.392	1.00	0.00
ATOM	33	N	111	1	2.566	-4.406	1.169	1.00	0.00
ATOM	34	C	111	1	3.899	-4.273	1.512	1.00	0.00
ATOM	35	C	111	1	4.605	-3.073	1.538	1.00	0.00
ATOM	36	H	111	1	5.665	-3.103	1.833	1.00	0.00
ATOM	37	Co	111	1	1.254	-2.954	0.736	1.00	0.00
ATOM	38	N	111	1	0.736	-2.860	2.452	1.00	0.00
ATOM	39	S	111	1	-0.733	-2.148	2.890	1.00	0.00
ATOM	40	O	111	1	-1.924	-2.787	2.261	1.00	0.00
ATOM	41	O	111	1	-0.628	-0.660	2.892	1.00	0.00
ATOM	42	C	111	1	-0.698	-2.678	4.628	1.00	0.00
ATOM	43	C	111	1	-0.687	-3.466	7.304	1.00	0.00
ATOM	44	C	111	1	0.018	-1.913	5.564	1.00	0.00
ATOM	45	C	111	1	-1.413	-3.825	5.006	1.00	0.00
ATOM	46	C	111	1	-1.405	-4.216	6.355	1.00	0.00
ATOM	47	C	111	1	0.022	-2.316	6.909	1.00	0.00
ATOM	48	H	111	1	0.552	-1.009	5.233	1.00	0.00
ATOM	49	H	111	1	-1.976	-4.387	4.244	1.00	0.00
ATOM	50	H	111	1	-1.968	-5.111	6.669	1.00	0.00
ATOM	51	H	111	1	0.579	-1.726	7.655	1.00	0.00
ATOM	52	H	111	1	-0.682	-3.778	8.362	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	37						
CONECT	3		7						
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	37					
CONECT	11	12	26						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	18	24						
CONECT	19		20						
CONECT	20	21	25						
CONECT	21	23	35						
CONECT	22		25						
CONECT	23	24	37						

CONECT 24 25
CONECT 26 27 32
CONECT 28 29
CONECT 29 30 34
CONECT 30 31 32
CONECT 32 33
CONECT 33 34 37
CONECT 34 35
CONECT 35 36
CONECT 37 38
CONECT 38 39
CONECT 39 40 41 42
CONECT 42 44 45
CONECT 43 46 47 52
CONECT 44 47 48
CONECT 45 46 49
CONECT 46 50
CONECT 47 51
END

TS2_Co(por)
Xyz file
68
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C -1.5394662 -2.1683007 0.3974381
C -2.4031124 -1.0874715 -0.0233290
H -3.4067687 -1.2220564 -0.4479148
C -1.7025796 0.0737539 0.1764050
C -1.8197380 -3.5134781 0.1811282
H -2.8094582 -3.7804517 -0.2187312
N 0.4148220 -4.3419125 0.8077523
C 1.0468187 -5.5650315 0.6337897
C 0.1587213 -6.5132512 -0.0002411
H 0.4319506 -7.5444090 -0.2613682
C -1.0432181 -5.8713729 -0.1761052
H -1.9674239 -6.2562733 -0.6277444
C -0.8667323 -4.5219813 0.3111208
C 0.5141816 0.6119063 1.2109203
H 4.2017769 0.8085142 4.0140039
C 3.3899172 0.4570633 3.3631485
C 3.0947609 -0.9342093 3.0955609
H 2.4117453 2.2869694 2.5441895
N 2.0244380 -1.0480635 2.2245089
C 1.6360498 0.2510011 1.9519878
C 2.5023622 1.1954090 2.6221157
C 2.3322693 -5.8782561 1.0763400
H 2.7164887 -6.8891175 0.8717591
H 5.6275666 -4.2407903 3.9053780
C 4.7389463 -4.3394495 3.2672420
C 4.3559407 -5.4036057 2.4885710
H 4.8513412 -6.3756512 2.3611488
C 3.1154217 -5.0215930 1.8483365
N 2.7669868 -3.7240803 2.1893255
C 3.7568312 -3.2978782 3.0558478
C 3.8735570 -1.9977934 3.5486050

H	4.7039202	-1.7755157	4.2360865
Co	1.1069807	-2.7194274	1.7243398
N	0.3966769	-3.0160232	3.4226581
S	-0.9386979	-2.0857003	3.9301501
O	-2.2651018	-2.5690957	3.4555262
O	-0.6067461	-0.6409232	3.7565594
C	-0.8802206	-2.3429125	5.7313164
C	-0.9002546	-2.4240550	8.5250509
C	0.3186228	-2.1249050	6.4350459
C	-2.0859144	-2.5964808	6.4020604
C	-2.0914084	-2.6279398	7.8085399
C	0.3046317	-2.1782145	7.8373473
H	1.2476770	-1.9177427	5.8814263
H	-3.0032268	-2.7591823	5.8157327
H	-3.0356991	-2.8189064	8.3450861
H	1.2389423	-2.0161772	8.4006167
H	-0.9077826	-2.4537524	9.6274279
C	-0.9979856	-5.5946485	3.7755178
C	0.2236657	-5.0291700	4.1139555
H	1.0832761	-5.1834311	3.4499329
H	0.4699490	-4.7982520	5.1641077
H	-1.1528429	-5.8519751	2.7124242
C	-2.1253694	-5.8821668	4.6465394
C	-4.3611304	-6.5851040	6.2650625
C	-3.3715162	-6.2550492	4.0674007
C	-2.0359236	-5.8787936	6.0671174
C	-3.1354111	-6.2279771	6.8598265
C	-4.4725565	-6.5949415	4.8616224
H	-3.4624138	-6.2633720	2.9683466
H	-1.0819349	-5.6196805	6.5528367
H	-3.0354967	-6.2274555	7.9581268
H	-5.4279337	-6.8722581	4.3854735
H	-5.2240071	-6.8612175	6.8935475
H	0.3177188	1.6832001	1.0544442

Pdb file

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HEADER B2Pdb
COMPND B2Pdb
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ATOM	1	C	111	1	-0.438	-0.301	0.769	1.00	0.00
ATOM	2	N	111	1	-0.341	-1.678	0.892	1.00	0.00
ATOM	3	H	111	1	-2.008	1.107	-0.034	1.00	0.00
ATOM	4	C	111	1	-1.539	-2.168	0.397	1.00	0.00
ATOM	5	C	111	1	-2.403	-1.087	-0.023	1.00	0.00
ATOM	6	H	111	1	-3.407	-1.222	-0.448	1.00	0.00
ATOM	7	C	111	1	-1.703	0.074	0.176	1.00	0.00
ATOM	8	C	111	1	-1.820	-3.513	0.181	1.00	0.00
ATOM	9	H	111	1	-2.809	-3.780	-0.219	1.00	0.00
ATOM	10	N	111	1	0.415	-4.342	0.808	1.00	0.00
ATOM	11	C	111	1	1.047	-5.565	0.634	1.00	0.00
ATOM	12	C	111	1	0.159	-6.513	-0.000	1.00	0.00
ATOM	13	H	111	1	0.432	-7.544	-0.261	1.00	0.00
ATOM	14	C	111	1	-1.043	-5.871	-0.176	1.00	0.00
ATOM	15	H	111	1	-1.967	-6.256	-0.628	1.00	0.00
ATOM	16	C	111	1	-0.867	-4.522	0.311	1.00	0.00
ATOM	17	C	111	1	0.514	0.612	1.211	1.00	0.00
ATOM	18	H	111	1	4.202	0.809	4.014	1.00	0.00
ATOM	19	C	111	1	3.390	0.457	3.363	1.00	0.00
ATOM	20	C	111	1	3.095	-0.934	3.096	1.00	0.00

ATOM	21	H	111	1	2.412	2.287	2.544	1.00	0.00
ATOM	22	N	111	1	2.024	-1.048	2.225	1.00	0.00
ATOM	23	C	111	1	1.636	0.251	1.952	1.00	0.00
ATOM	24	C	111	1	2.502	1.195	2.622	1.00	0.00
ATOM	25	C	111	1	2.332	-5.878	1.076	1.00	0.00
ATOM	26	H	111	1	2.716	-6.889	0.872	1.00	0.00
ATOM	27	H	111	1	5.628	-4.241	3.905	1.00	0.00
ATOM	28	C	111	1	4.739	-4.339	3.267	1.00	0.00
ATOM	29	C	111	1	4.356	-5.404	2.489	1.00	0.00
ATOM	30	H	111	1	4.851	-6.376	2.361	1.00	0.00
ATOM	31	C	111	1	3.115	-5.022	1.848	1.00	0.00
ATOM	32	N	111	1	2.767	-3.724	2.189	1.00	0.00
ATOM	33	C	111	1	3.757	-3.298	3.056	1.00	0.00
ATOM	34	C	111	1	3.874	-1.998	3.549	1.00	0.00
ATOM	35	H	111	1	4.704	-1.776	4.236	1.00	0.00
ATOM	36	Co	111	1	1.107	-2.719	1.724	1.00	0.00
ATOM	37	N	111	1	0.397	-3.016	3.423	1.00	0.00
ATOM	38	S	111	1	-0.939	-2.086	3.930	1.00	0.00
ATOM	39	O	111	1	-2.265	-2.569	3.456	1.00	0.00
ATOM	40	O	111	1	-0.607	-0.641	3.757	1.00	0.00
ATOM	41	C	111	1	-0.880	-2.343	5.731	1.00	0.00
ATOM	42	C	111	1	-0.900	-2.424	8.525	1.00	0.00
ATOM	43	C	111	1	0.319	-2.125	6.435	1.00	0.00
ATOM	44	C	111	1	-2.086	-2.596	6.402	1.00	0.00
ATOM	45	C	111	1	-2.091	-2.628	7.809	1.00	0.00
ATOM	46	C	111	1	0.305	-2.178	7.837	1.00	0.00
ATOM	47	H	111	1	1.248	-1.918	5.881	1.00	0.00
ATOM	48	H	111	1	-3.003	-2.759	5.816	1.00	0.00
ATOM	49	H	111	1	-3.036	-2.819	8.345	1.00	0.00
ATOM	50	H	111	1	1.239	-2.016	8.401	1.00	0.00
ATOM	51	H	111	1	-0.908	-2.454	9.627	1.00	0.00
ATOM	52	C	111	1	-0.998	-5.595	3.776	1.00	0.00
ATOM	53	C	111	1	0.224	-5.029	4.114	1.00	0.00
ATOM	54	H	111	1	1.083	-5.183	3.450	1.00	0.00
ATOM	55	H	111	1	0.470	-4.798	5.164	1.00	0.00
ATOM	56	H	111	1	-1.153	-5.852	2.712	1.00	0.00
ATOM	57	C	111	1	-2.125	-5.882	4.647	1.00	0.00
ATOM	58	C	111	1	-4.361	-6.585	6.265	1.00	0.00
ATOM	59	C	111	1	-3.372	-6.255	4.067	1.00	0.00
ATOM	60	C	111	1	-2.036	-5.879	6.067	1.00	0.00
ATOM	61	C	111	1	-3.135	-6.228	6.860	1.00	0.00
ATOM	62	C	111	1	-4.473	-6.595	4.862	1.00	0.00
ATOM	63	H	111	1	-3.462	-6.263	2.968	1.00	0.00
ATOM	64	H	111	1	-1.082	-5.620	6.553	1.00	0.00
ATOM	65	H	111	1	-3.035	-6.227	7.958	1.00	0.00
ATOM	66	H	111	1	-5.428	-6.872	4.385	1.00	0.00
ATOM	67	H	111	1	-5.224	-6.861	6.894	1.00	0.00
ATOM	68	H	111	1	0.318	1.683	1.054	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	36						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	36					
CONECT	11	12	25						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	23	68						
CONECT	18	19							

CONECT 19 20 24
CONECT 20 22 34
CONECT 21 24
CONECT 22 23 36
CONECT 23 24
CONECT 25 26 31
CONECT 27 28
CONECT 28 29 33
CONECT 29 30 31
CONECT 31 32
CONECT 32 33 36
CONECT 33 34
CONECT 34 35
CONECT 36 37
CONECT 37 38
CONECT 38 39 40 41
CONECT 41 43 44
CONECT 42 45 46 51
CONECT 43 46 47
CONECT 44 45 48
CONECT 45 49
CONECT 46 50
CONECT 52 53 56 57
CONECT 53 54 55
CONECT 57 59 60
CONECT 58 61 62 67
CONECT 59 62 63
CONECT 60 61 64
CONECT 61 65
CONECT 62 66
END

2D_Co(por)
Xyz file
68
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C -1.7160822 -2.5618296 -1.0021948
C -2.1977622 -1.3381053 -1.6103379
H -3.1414705 -1.2473207 -2.1648545
C -1.2384570 -0.3857059 -1.3823357
C -2.3390897 -3.7979162 -1.1642477
N -0.6191154 -5.1466583 -0.0195598
C -0.4433983 -6.5122859 0.1326082
C -1.4978611 -7.2436217 -0.5343398
H -1.5714867 -8.3388863 -0.5698956
C -2.3409997 -6.3060457 -1.0793269
H -3.2550342 -6.4634708 -1.6677779
C -1.7826422 -5.0111960 -0.7573723
C 0.9614237 -0.3797436 -0.1844330
H 4.6795512 -0.9930665 2.5140334
C 3.7544922 -1.1486121 1.9426684
C 3.0102352 -2.3903884 1.9034068
H 3.3393369 0.7728677 0.8880724
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C 1.9305413 -0.9718884 0.6202028

C	3.0887045	-0.2690948	1.1277999
C	0.5707265	-7.1167070	0.8763794
H	0.5834989	-8.2158238	0.9326155
H	4.2248145	-6.1056002	3.5533250
C	3.3427674	-6.0346986	2.9024821
C	2.5742646	-7.0463553	2.3839581
H	2.6794924	-8.1309274	2.5212375
C	1.5541724	-6.4157494	1.5733640
N	1.6930565	-5.0370985	1.5916948
C	2.8008218	-4.7961594	2.3847324
C	3.4070672	-3.5530761	2.5637341
H	4.3059218	-3.5048199	3.1973348
Co	0.4771341	-3.6521036	0.7827779
N	-0.6533166	-3.4521221	2.4570153
S	-1.1506736	-1.9862182	3.1604299
O	-2.6261950	-1.9221844	3.3359619
O	-0.4491744	-0.8977959	2.4467138
C	-0.4524417	-2.0512886	4.8466143
C	0.6069420	-2.0419159	7.4345556
C	0.9404062	-2.1215683	5.0205462
C	-1.3213127	-1.9644984	5.9461455
C	-0.7835579	-1.9593111	7.2458373
C	1.4659853	-2.1220432	6.3223867
H	1.6024354	-2.1761701	4.1426852
H	-2.4054948	-1.8898739	5.7667626
H	-1.4566466	-1.8861552	8.1163628
H	2.5572251	-2.1813706	6.4703917
H	1.0260013	-2.0401143	8.4546283
H	-0.6157108	-5.5144880	2.8190699
C	-1.2301808	-4.6377177	3.1210015
H	-1.1543888	-4.5713798	4.2315125
C	-2.6373887	-4.7854398	2.6408492
H	-2.7436216	-4.8278030	1.5443469
C	-3.8383683	-4.7926738	3.4017921
C	-6.3045482	-4.9162236	4.8212431
C	-3.8732992	-4.7372677	4.8322410
C	-5.0919191	-4.9020535	2.7146127
C	-6.2987045	-4.9649890	3.4115209
C	-5.0850899	-4.8028641	5.5221487
H	-2.9334573	-4.6312125	5.3958918
H	-5.0859046	-4.9349729	1.6124429
H	-7.2493666	-5.0460005	2.8585520
H	-5.0891437	-4.7566867	6.6238245
H	-7.2580903	-4.9589486	5.3730520
H	-3.2881258	-3.8267951	-1.7211955
H	1.0972175	0.6755424	-0.4656154

Pdb file

HEADER B2Pdb

COMPND B2Pdb

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ATOM	3	H	111	1	-1.222	0.666	-1.699	1.00	0.00
ATOM	4	C	111	1	-1.716	-2.562	-1.002	1.00	0.00
ATOM	5	C	111	1	-2.198	-1.338	-1.610	1.00	0.00
ATOM	6	H	111	1	-3.141	-1.247	-2.165	1.00	0.00
ATOM	7	C	111	1	-1.238	-0.386	-1.382	1.00	0.00
ATOM	8	C	111	1	-2.339	-3.798	-1.164	1.00	0.00

ATOM	9	N	111	1	-0.619	-5.147	-0.020	1.00	0.00
ATOM	10	C	111	1	-0.443	-6.512	0.133	1.00	0.00
ATOM	11	C	111	1	-1.498	-7.244	-0.534	1.00	0.00
ATOM	12	H	111	1	-1.571	-8.339	-0.570	1.00	0.00
ATOM	13	C	111	1	-2.341	-6.306	-1.079	1.00	0.00
ATOM	14	H	111	1	-3.255	-6.463	-1.668	1.00	0.00
ATOM	15	C	111	1	-1.783	-5.011	-0.757	1.00	0.00
ATOM	16	C	111	1	0.961	-0.380	-0.184	1.00	0.00
ATOM	17	H	111	1	4.680	-0.993	2.514	1.00	0.00
ATOM	18	C	111	1	3.754	-1.149	1.943	1.00	0.00
ATOM	19	C	111	1	3.010	-2.390	1.903	1.00	0.00
ATOM	20	H	111	1	3.339	0.773	0.888	1.00	0.00
ATOM	21	N	111	1	1.899	-2.273	1.088	1.00	0.00
ATOM	22	C	111	1	1.931	-0.972	0.620	1.00	0.00
ATOM	23	C	111	1	3.089	-0.269	1.128	1.00	0.00
ATOM	24	C	111	1	0.571	-7.117	0.876	1.00	0.00
ATOM	25	H	111	1	0.583	-8.216	0.933	1.00	0.00
ATOM	26	H	111	1	4.225	-6.106	3.553	1.00	0.00
ATOM	27	C	111	1	3.343	-6.035	2.902	1.00	0.00
ATOM	28	C	111	1	2.574	-7.046	2.384	1.00	0.00
ATOM	29	H	111	1	2.679	-8.131	2.521	1.00	0.00
ATOM	30	C	111	1	1.554	-6.416	1.573	1.00	0.00
ATOM	31	N	111	1	1.693	-5.037	1.592	1.00	0.00
ATOM	32	C	111	1	2.801	-4.796	2.385	1.00	0.00
ATOM	33	C	111	1	3.407	-3.553	2.564	1.00	0.00
ATOM	34	H	111	1	4.306	-3.505	3.197	1.00	0.00
ATOM	35	Co	111	1	0.477	-3.652	0.783	1.00	0.00
ATOM	36	N	111	1	-0.653	-3.452	2.457	1.00	0.00
ATOM	37	S	111	1	-1.151	-1.986	3.160	1.00	0.00
ATOM	38	O	111	1	-2.626	-1.922	3.336	1.00	0.00
ATOM	39	O	111	1	-0.449	-0.898	2.447	1.00	0.00
ATOM	40	C	111	1	-0.452	-2.051	4.847	1.00	0.00
ATOM	41	C	111	1	0.607	-2.042	7.435	1.00	0.00
ATOM	42	C	111	1	0.940	-2.122	5.021	1.00	0.00
ATOM	43	C	111	1	-1.321	-1.964	5.946	1.00	0.00
ATOM	44	C	111	1	-0.784	-1.959	7.246	1.00	0.00
ATOM	45	C	111	1	1.466	-2.122	6.322	1.00	0.00
ATOM	46	H	111	1	1.602	-2.176	4.143	1.00	0.00
ATOM	47	H	111	1	-2.405	-1.890	5.767	1.00	0.00
ATOM	48	H	111	1	-1.457	-1.886	8.116	1.00	0.00
ATOM	49	H	111	1	2.557	-2.181	6.470	1.00	0.00
ATOM	50	H	111	1	1.026	-2.040	8.455	1.00	0.00
ATOM	51	H	111	1	-0.616	-5.514	2.819	1.00	0.00
ATOM	52	C	111	1	-1.230	-4.638	3.121	1.00	0.00
ATOM	53	H	111	1	-1.154	-4.571	4.232	1.00	0.00
ATOM	54	C	111	1	-2.637	-4.785	2.641	1.00	0.00
ATOM	55	H	111	1	-2.744	-4.828	1.544	1.00	0.00
ATOM	56	C	111	1	-3.838	-4.793	3.402	1.00	0.00
ATOM	57	C	111	1	-6.305	-4.916	4.821	1.00	0.00
ATOM	58	C	111	1	-3.873	-4.737	4.832	1.00	0.00
ATOM	59	C	111	1	-5.092	-4.902	2.715	1.00	0.00
ATOM	60	C	111	1	-6.299	-4.965	3.412	1.00	0.00
ATOM	61	C	111	1	-5.085	-4.803	5.522	1.00	0.00
ATOM	62	H	111	1	-2.933	-4.631	5.396	1.00	0.00
ATOM	63	H	111	1	-5.086	-4.935	1.612	1.00	0.00
ATOM	64	H	111	1	-7.249	-5.046	2.859	1.00	0.00
ATOM	65	H	111	1	-5.089	-4.757	6.624	1.00	0.00
ATOM	66	H	111	1	-7.258	-4.959	5.373	1.00	0.00
ATOM	67	H	111	1	-3.288	-3.827	-1.721	1.00	0.00
ATOM	68	H	111	1	1.097	0.676	-0.466	1.00	0.00

CONECT 1 2 7 16
CONECT 2 4 35
CONECT 3 7
CONECT 4 5 8
CONECT 5 6 7
CONECT 8 15 67
CONECT 9 10 15 35
CONECT 10 11 24
CONECT 11 12 13
CONECT 13 14 15
CONECT 16 22 68
CONECT 17 18
CONECT 18 19 23
CONECT 19 21 33
CONECT 20 23
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CONECT 37 38 39 40
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CONECT 43 44 47
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CONECT 51 52
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CONECT 59 60 63
CONECT 60 64
CONECT 61 65
END

TS3_Co(por)
Xyz file
68
Energy = -3516.7839029750
C -0.7569850 -0.8702460 -0.4334694
N -0.9581023 -2.2200962 -0.2166526
H -1.9553481 0.7719615 -1.4229370
C -2.1960756 -2.4921527 -0.7676036
C -2.7950947 -1.2903753 -1.3154801
H -3.7769648 -1.2505528 -1.8059694
C -1.8842382 -0.2841861 -1.1303655
C -2.7458436 -3.7636003 -0.9163534

H	-3.7372248	-3.8461917	-1.3874437
N	-0.8155214	-5.0093718	-0.0161349
C	-0.4949239	-6.3578236	0.0066546
C	-1.5389531	-7.1445252	-0.6117409
H	-1.5113298	-8.2361450	-0.7303143
C	-2.5242339	-6.2626767	-0.9878799
H	-3.4745733	-6.4713016	-1.4979597
C	-2.0581576	-4.9425439	-0.6245484
C	0.3527657	-0.1443881	-0.0115951
H	0.3952609	0.9266470	-0.2611342
H	4.1496670	-0.5302948	2.6253971
C	3.2317322	-0.7439842	2.0610824
C	2.6101241	-2.0482023	1.9630368
H	2.6256651	1.1778896	1.1032528
N	1.4739688	-1.9944101	1.1734765
C	1.3798087	-0.6758202	0.7655849
C	2.4745994	0.1072407	1.2960875
C	0.6329783	-6.9045866	0.6201538
H	0.7656530	-7.9964848	0.5747469
H	4.2792756	-5.7334683	3.2426522
C	3.3686477	-5.7028112	2.6289880
C	2.6995107	-6.7424067	2.0330931
H	2.9321857	-7.8155700	2.0594052
C	1.5799156	-6.1609395	1.3228101
N	1.5646484	-4.7817546	1.4701500
C	2.6719932	-4.4911996	2.2499212
C	3.1426676	-3.2079132	2.5271905
H	4.0496165	-3.1132847	3.1439625
Co	0.1952572	-3.4822912	0.7988912
N	-0.8887097	-3.4825066	2.6014758
S	-1.6317041	-2.1032014	3.3077153
O	-3.0692748	-2.3220380	3.6102348
O	-1.2331276	-0.9497293	2.4755348
C	-0.8044609	-1.8997539	4.9240956
C	0.4135134	-1.4433311	7.3984784
C	0.5825057	-1.6801829	4.9770242
C	-1.5924525	-1.8798454	6.0862030
C	-0.9753085	-1.6493310	7.3286467
C	1.1888588	-1.4584060	6.2239570
H	1.1780049	-1.6815508	4.0512322
H	-2.6802259	-2.0280235	5.9987403
H	-1.5857375	-1.6257070	8.2467340
H	2.2769216	-1.2887205	6.2774971
H	0.8954190	-1.2641721	8.3740074
H	-0.0111125	-5.3058860	3.2345573
C	-0.8975498	-4.6831251	3.4681471
H	-0.8844818	-4.4529038	4.5563531
C	-2.1758864	-5.2293495	2.9605173
H	-2.1470538	-5.5609344	1.9119614
C	-3.4369091	-5.3115298	3.6252046
C	-5.9563907	-5.6864059	4.8802042
C	-3.6126948	-5.0404279	5.0166406
C	-4.5720688	-5.7680547	2.8853624
C	-5.8097276	-5.9536672	3.5041207
C	-4.8516655	-5.2325832	5.6302857
H	-2.7622583	-4.6773889	5.6136495
H	-4.4503567	-5.9753125	1.8091747
H	-6.6726157	-6.3061621	2.9153974
H	-4.9684086	-5.0215878	6.7061846
H	-6.9338866	-5.8294840	5.3699113

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	-0.757	-0.870	-0.433	1.00	0.00
ATOM	2	N	111	1	-0.958	-2.220	-0.217	1.00	0.00
ATOM	3	H	111	1	-1.955	0.772	-1.423	1.00	0.00
ATOM	4	C	111	1	-2.196	-2.492	-0.768	1.00	0.00
ATOM	5	C	111	1	-2.795	-1.290	-1.315	1.00	0.00
ATOM	6	H	111	1	-3.777	-1.251	-1.806	1.00	0.00
ATOM	7	C	111	1	-1.884	-0.284	-1.130	1.00	0.00
ATOM	8	C	111	1	-2.746	-3.764	-0.916	1.00	0.00
ATOM	9	H	111	1	-3.737	-3.846	-1.387	1.00	0.00
ATOM	10	N	111	1	-0.816	-5.009	-0.016	1.00	0.00
ATOM	11	C	111	1	-0.495	-6.358	0.007	1.00	0.00
ATOM	12	C	111	1	-1.539	-7.145	-0.612	1.00	0.00
ATOM	13	H	111	1	-1.511	-8.236	-0.730	1.00	0.00
ATOM	14	C	111	1	-2.524	-6.263	-0.988	1.00	0.00
ATOM	15	H	111	1	-3.475	-6.471	-1.498	1.00	0.00
ATOM	16	C	111	1	-2.058	-4.943	-0.625	1.00	0.00
ATOM	17	C	111	1	0.353	-0.144	-0.012	1.00	0.00
ATOM	18	H	111	1	0.395	0.927	-0.261	1.00	0.00
ATOM	19	H	111	1	4.150	-0.530	2.625	1.00	0.00
ATOM	20	C	111	1	3.232	-0.744	2.061	1.00	0.00
ATOM	21	C	111	1	2.610	-2.048	1.963	1.00	0.00
ATOM	22	H	111	1	2.626	1.178	1.103	1.00	0.00
ATOM	23	N	111	1	1.474	-1.994	1.173	1.00	0.00
ATOM	24	C	111	1	1.380	-0.676	0.766	1.00	0.00
ATOM	25	C	111	1	2.475	0.107	1.296	1.00	0.00
ATOM	26	C	111	1	0.633	-6.905	0.620	1.00	0.00
ATOM	27	H	111	1	0.766	-7.996	0.575	1.00	0.00
ATOM	28	H	111	1	4.279	-5.733	3.243	1.00	0.00
ATOM	29	C	111	1	3.369	-5.703	2.629	1.00	0.00
ATOM	30	C	111	1	2.700	-6.742	2.033	1.00	0.00
ATOM	31	H	111	1	2.932	-7.816	2.059	1.00	0.00
ATOM	32	C	111	1	1.580	-6.161	1.323	1.00	0.00
ATOM	33	N	111	1	1.565	-4.782	1.470	1.00	0.00
ATOM	34	C	111	1	2.672	-4.491	2.250	1.00	0.00
ATOM	35	C	111	1	3.143	-3.208	2.527	1.00	0.00
ATOM	36	H	111	1	4.050	-3.113	3.144	1.00	0.00
ATOM	37	Co	111	1	0.195	-3.482	0.799	1.00	0.00
ATOM	38	N	111	1	-0.889	-3.483	2.601	1.00	0.00
ATOM	39	S	111	1	-1.632	-2.103	3.308	1.00	0.00
ATOM	40	O	111	1	-3.069	-2.322	3.610	1.00	0.00
ATOM	41	O	111	1	-1.233	-0.950	2.476	1.00	0.00
ATOM	42	C	111	1	-0.804	-1.900	4.924	1.00	0.00
ATOM	43	C	111	1	0.414	-1.443	7.398	1.00	0.00
ATOM	44	C	111	1	0.583	-1.680	4.977	1.00	0.00
ATOM	45	C	111	1	-1.592	-1.880	6.086	1.00	0.00
ATOM	46	C	111	1	-0.975	-1.649	7.329	1.00	0.00
ATOM	47	C	111	1	1.189	-1.458	6.224	1.00	0.00
ATOM	48	H	111	1	1.178	-1.682	4.051	1.00	0.00
ATOM	49	H	111	1	-2.680	-2.028	5.999	1.00	0.00
ATOM	50	H	111	1	-1.586	-1.626	8.247	1.00	0.00
ATOM	51	H	111	1	2.277	-1.289	6.277	1.00	0.00
ATOM	52	H	111	1	0.895	-1.264	8.374	1.00	0.00
ATOM	53	H	111	1	-0.011	-5.306	3.235	1.00	0.00
ATOM	54	C	111	1	-0.898	-4.683	3.468	1.00	0.00
ATOM	55	H	111	1	-0.884	-4.453	4.556	1.00	0.00
ATOM	56	C	111	1	-2.176	-5.229	2.961	1.00	0.00
ATOM	57	H	111	1	-2.147	-5.561	1.912	1.00	0.00

ATOM	58	C	111	1	-3.437	-5.312	3.625	1.00	0.00
ATOM	59	C	111	1	-5.956	-5.686	4.880	1.00	0.00
ATOM	60	C	111	1	-3.613	-5.040	5.017	1.00	0.00
ATOM	61	C	111	1	-4.572	-5.768	2.885	1.00	0.00
ATOM	62	C	111	1	-5.810	-5.954	3.504	1.00	0.00
ATOM	63	C	111	1	-4.852	-5.233	5.630	1.00	0.00
ATOM	64	H	111	1	-2.762	-4.677	5.614	1.00	0.00
ATOM	65	H	111	1	-4.450	-5.975	1.809	1.00	0.00
ATOM	66	H	111	1	-6.673	-6.306	2.915	1.00	0.00
ATOM	67	H	111	1	-4.968	-5.022	6.706	1.00	0.00
ATOM	68	H	111	1	-6.934	-5.829	5.370	1.00	0.00
CONECT	1		2	7	17				
CONECT	2		4	37					
CONECT	3		7						
CONECT	4		5	8					
CONECT	5		6	7					
CONECT	8		9	16					
CONECT	10		11	16	37				
CONECT	11		12	26					
CONECT	12		13	14					
CONECT	14		15	16					
CONECT	17		18	24					
CONECT	19		20						
CONECT	20		21	25					
CONECT	21		23	35					
CONECT	22		25						
CONECT	23		24	37					
CONECT	24		25						
CONECT	26		27	32					
CONECT	28		29						
CONECT	29		30	34					
CONECT	30		31	32					
CONECT	32		33						
CONECT	33		34	37					
CONECT	34		35						
CONECT	35		36						
CONECT	37		38						
CONECT	38		39	54					
CONECT	39		40	41	42				
CONECT	42		44	45					
CONECT	43		46	47	52				
CONECT	44		47	48					
CONECT	45		46	49					
CONECT	46		50						
CONECT	47		51						
CONECT	53		54						
CONECT	54		55	56					
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CONECT	58		60	61					
CONECT	59		62	63	68				
CONECT	60		63	64					
CONECT	61		62	65					
CONECT	62		66						
CONECT	63		67						

END

E_Co(por)

Xyz file

68

Energy = -3516.8076917220

C	-0.3861610	-0.8069094	-0.4951784
N	-0.7856026	-2.1217313	-0.3213095
H	-1.3495194	1.0450882	-1.3587124
C	-2.0847005	-2.1621162	-0.8004224
C	-2.4993886	-0.8651182	-1.2914232
H	-3.4864703	-0.6490407	-1.7217336
C	-1.4337249	-0.0221903	-1.1132840
C	-2.8909703	-3.2957521	-0.8399243
H	-3.9189315	-3.1853311	-1.2170835
N	-1.1878235	-4.8841827	-0.0269796
C	-1.1700261	-6.2697092	0.0525151
C	-2.4449665	-6.8288233	-0.3430550
H	-2.6740876	-7.9028549	-0.3678511
C	-3.2511746	-5.7681412	-0.6720197
H	-4.2876544	-5.7774626	-1.0355953
C	-2.4557868	-4.5723948	-0.4919993
C	0.8318915	-0.2762973	-0.0816393
H	1.0137892	0.7951336	-0.2564791
H	4.7907330	-1.4426468	2.0338561
C	3.7877847	-1.4650869	1.5864539
C	2.9807901	-2.6584204	1.4380440
H	3.3454780	0.6200603	0.9279267
N	1.7669329	-2.3665647	0.8344059
C	1.8215961	-1.0083630	0.5684634
C	3.0687002	-0.4377960	1.0313706
C	-0.0771327	-7.0380295	0.4529824
H	-0.1866783	-8.1333147	0.4437843
H	4.2356028	-6.6573130	2.1204357
C	3.2356089	-6.4366156	1.7227197
C	2.2568586	-7.3115102	1.3225823
H	2.2719200	-8.4097635	1.3242669
C	1.1401236	-6.5074050	0.8771493
N	1.4277340	-5.1521080	0.9830425
C	2.7147110	-5.1053435	1.5030566
C	3.4276905	-3.9367814	1.7695346
H	4.4315191	-4.0338294	2.2111145
Co	0.2537899	-3.6076521	0.4875413
N	-0.6247849	-3.4105857	2.7093781
S	-1.6487008	-1.9866652	3.0045390
O	-2.9438644	-2.2908141	2.3651183
O	-0.7982265	-0.8526715	2.5989656
C	-1.9311120	-1.7671487	4.7846148
C	-2.4361827	-1.2307741	7.4746184
C	-0.9585771	-1.0887456	5.5431178
C	-3.1587068	-2.1608295	5.3408144
C	-3.4068958	-1.8845816	6.6952554
C	-1.2147083	-0.8336562	6.8998219
H	-0.0291057	-0.7441119	5.0638200
H	-3.9074526	-2.6655598	4.7121756
H	-4.3692289	-2.1819471	7.1423626
H	-0.4615411	-0.3056823	7.5073901
H	-2.6370244	-1.0182582	8.5376949
H	1.2990069	-4.1144685	3.4588107
C	0.2662640	-3.8990661	3.7806140
H	0.1678029	-3.4129269	4.7696985
C	-0.8726942	-4.7522335	3.3264116
H	-0.6325856	-5.5308032	2.5805224
C	-2.0511739	-5.1088023	4.1852269
C	-4.2539665	-5.9643467	5.7360436
C	-1.9061755	-5.3438922	5.5677766

C	-3.3111183	-5.3229626	3.5819917
C	-4.4058217	-5.7386240	4.3555261
C	-3.0002958	-5.7702252	6.3395211
H	-0.9233751	-5.2006917	6.0466679
H	-3.4302957	-5.1521311	2.4999168
H	-5.3853038	-5.8955622	3.8741042
H	-2.8697684	-5.9541848	7.4189295
H	-5.1133152	-6.2998935	6.3401990

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	-0.386	-0.807	-0.495	1.00	0.00
ATOM	2	N	111	1	-0.786	-2.122	-0.321	1.00	0.00
ATOM	3	H	111	1	-1.350	1.045	-1.359	1.00	0.00
ATOM	4	C	111	1	-2.085	-2.162	-0.800	1.00	0.00
ATOM	5	C	111	1	-2.499	-0.865	-1.291	1.00	0.00
ATOM	6	H	111	1	-3.486	-0.649	-1.722	1.00	0.00
ATOM	7	C	111	1	-1.434	-0.022	-1.113	1.00	0.00
ATOM	8	C	111	1	-2.891	-3.296	-0.840	1.00	0.00
ATOM	9	H	111	1	-3.919	-3.185	-1.217	1.00	0.00
ATOM	10	N	111	1	-1.188	-4.884	-0.027	1.00	0.00
ATOM	11	C	111	1	-1.170	-6.270	0.053	1.00	0.00
ATOM	12	C	111	1	-2.445	-6.829	-0.343	1.00	0.00
ATOM	13	H	111	1	-2.674	-7.903	-0.368	1.00	0.00
ATOM	14	C	111	1	-3.251	-5.768	-0.672	1.00	0.00
ATOM	15	H	111	1	-4.288	-5.777	-1.036	1.00	0.00
ATOM	16	C	111	1	-2.456	-4.572	-0.492	1.00	0.00
ATOM	17	C	111	1	0.832	-0.276	-0.082	1.00	0.00
ATOM	18	H	111	1	1.014	0.795	-0.256	1.00	0.00
ATOM	19	H	111	1	4.791	-1.443	2.034	1.00	0.00
ATOM	20	C	111	1	3.788	-1.465	1.586	1.00	0.00
ATOM	21	C	111	1	2.981	-2.658	1.438	1.00	0.00
ATOM	22	H	111	1	3.345	0.620	0.928	1.00	0.00
ATOM	23	N	111	1	1.767	-2.367	0.834	1.00	0.00
ATOM	24	C	111	1	1.822	-1.008	0.568	1.00	0.00
ATOM	25	C	111	1	3.069	-0.438	1.031	1.00	0.00
ATOM	26	C	111	1	-0.077	-7.038	0.453	1.00	0.00
ATOM	27	H	111	1	-0.187	-8.133	0.444	1.00	0.00
ATOM	28	H	111	1	4.236	-6.657	2.120	1.00	0.00
ATOM	29	C	111	1	3.236	-6.437	1.723	1.00	0.00
ATOM	30	C	111	1	2.257	-7.312	1.323	1.00	0.00
ATOM	31	H	111	1	2.272	-8.410	1.324	1.00	0.00
ATOM	32	C	111	1	1.140	-6.507	0.877	1.00	0.00
ATOM	33	N	111	1	1.428	-5.152	0.983	1.00	0.00
ATOM	34	C	111	1	2.715	-5.105	1.503	1.00	0.00
ATOM	35	C	111	1	3.428	-3.937	1.770	1.00	0.00
ATOM	36	H	111	1	4.432	-4.034	2.211	1.00	0.00
ATOM	37	Co	111	1	0.254	-3.608	0.488	1.00	0.00
ATOM	38	N	111	1	-0.625	-3.411	2.709	1.00	0.00
ATOM	39	S	111	1	-1.649	-1.987	3.005	1.00	0.00
ATOM	40	O	111	1	-2.944	-2.291	2.365	1.00	0.00
ATOM	41	O	111	1	-0.798	-0.853	2.599	1.00	0.00
ATOM	42	C	111	1	-1.931	-1.767	4.785	1.00	0.00
ATOM	43	C	111	1	-2.436	-1.231	7.475	1.00	0.00
ATOM	44	C	111	1	-0.959	-1.089	5.543	1.00	0.00
ATOM	45	C	111	1	-3.159	-2.161	5.341	1.00	0.00
ATOM	46	C	111	1	-3.407	-1.885	6.695	1.00	0.00

ATOM	47	C	111	1	-1.215	-0.834	6.900	1.00	0.00
ATOM	48	H	111	1	-0.029	-0.744	5.064	1.00	0.00
ATOM	49	H	111	1	-3.907	-2.666	4.712	1.00	0.00
ATOM	50	H	111	1	-4.369	-2.182	7.142	1.00	0.00
ATOM	51	H	111	1	-0.462	-0.306	7.507	1.00	0.00
ATOM	52	H	111	1	-2.637	-1.018	8.538	1.00	0.00
ATOM	53	H	111	1	1.299	-4.114	3.459	1.00	0.00
ATOM	54	C	111	1	0.266	-3.899	3.781	1.00	0.00
ATOM	55	H	111	1	0.168	-3.413	4.770	1.00	0.00
ATOM	56	C	111	1	-0.873	-4.752	3.326	1.00	0.00
ATOM	57	H	111	1	-0.633	-5.531	2.581	1.00	0.00
ATOM	58	C	111	1	-2.051	-5.109	4.185	1.00	0.00
ATOM	59	C	111	1	-4.254	-5.964	5.736	1.00	0.00
ATOM	60	C	111	1	-1.906	-5.344	5.568	1.00	0.00
ATOM	61	C	111	1	-3.311	-5.323	3.582	1.00	0.00
ATOM	62	C	111	1	-4.406	-5.739	4.356	1.00	0.00
ATOM	63	C	111	1	-3.000	-5.770	6.340	1.00	0.00
ATOM	64	H	111	1	-0.923	-5.201	6.047	1.00	0.00
ATOM	65	H	111	1	-3.430	-5.152	2.500	1.00	0.00
ATOM	66	H	111	1	-5.385	-5.896	3.874	1.00	0.00
ATOM	67	H	111	1	-2.870	-5.954	7.419	1.00	0.00
ATOM	68	H	111	1	-5.113	-6.300	6.340	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	37						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	37					
CONECT	11	12	26						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	18	24						
CONECT	19	20							
CONECT	20	21	25						
CONECT	21	23	35						
CONECT	22	25							
CONECT	23	24	37						
CONECT	24	25							
CONECT	26	27	32						
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CONECT	29	30	34						
CONECT	30	31	32						
CONECT	32	33							
CONECT	33	34	37						
CONECT	34	35							
CONECT	35	36							
CONECT	38	39	54	56					
CONECT	39	40	41	42					
CONECT	42	44	45						
CONECT	43	46	47	52					
CONECT	44	47	48						
CONECT	45	46	49						
CONECT	46	50							
CONECT	47	51							
CONECT	53	54							
CONECT	54	55	56						
CONECT	56	57	58						
CONECT	58	60	61						
CONECT	59	62	63	68					

CONECT 60 63 64
CONECT 61 62 65
CONECT 62 66
CONECT 63 67
END

A_Co(PorAmide)

Xyz file

54

Energy = -2811.1075001490

C	0.3363138	-0.3121408
N	0.1964114	-1.6695270
H	-0.9660693	1.5062858
C	-1.0641691	-1.7897464
C	-1.7121259	-0.5016511
H	-2.7144790	-0.3437875
C	-0.8421072	0.4196791
C	-1.6641030	-2.9902562
N	0.1832686	-4.4773158
C	0.2966973	-5.8634520
C	-0.9184484	-6.4922278
H	-1.0758876	-7.5755288
C	-1.7700045	-5.4797451
H	-2.7853665	-5.5479202
C	-1.0845327	-4.2412602
C	1.4642613	0.2900410
H	5.8186787	-0.6624574
C	4.7764425	-0.7444343
C	4.1362149	-1.9807037
H	3.9261243	1.3168896
N	2.8185709	-1.7663972
C	2.6307859	-0.3996616
C	3.8323570	0.2412799
C	1.4361418	-6.5854395
H	5.8407334	-5.8478421
C	4.7883483	-5.7071408
C	3.8463606	-6.6555568
H	3.9545958	-7.7465273
C	2.6239991	-5.9419931
N	2.8077709	-4.5684648
C	4.1348857	-4.4238949
C	4.7680417	-3.2197125
Co	1.5021587	-3.1202261
C	1.3978901	-8.0868491
C	1.3333776	-10.9064247
C	1.5628136	-8.7795014
C	1.1940312	-8.8339088
C	1.1644739	-10.2475154
C	1.5327103	-10.1823530
H	1.7222797	-8.1940409
H	1.0071191	-10.8019758
H	1.6666170	-10.7043636
H	1.3072200	-12.0087201
N	1.0228821	-8.1137579
C	0.8489078	-8.5840889
O	0.7976751	-9.7727704
C	0.7393683	-7.4641491
H	1.6995899	-6.9066054
H	0.5039835	-7.9182894

H	-0.0558041	-6.7319035	5.1582568
H	1.0547060	-7.0947262	2.9725449
H	5.8249358	-3.2552500	2.2043525
H	1.4455216	1.3788554	1.4907989
H	-2.6761676	-2.9528261	-0.8355491

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.336	-0.312	0.782	1.00	0.00
ATOM	2	N	111	1	0.196	-1.670	0.528	1.00	0.00
ATOM	3	H	111	1	-0.966	1.506	0.473	1.00	0.00
ATOM	4	C	111	1	-1.064	-1.790	-0.038	1.00	0.00
ATOM	5	C	111	1	-1.712	-0.502	-0.152	1.00	0.00
ATOM	6	H	111	1	-2.714	-0.344	-0.572	1.00	0.00
ATOM	7	C	111	1	-0.842	0.420	0.372	1.00	0.00
ATOM	8	C	111	1	-1.664	-2.990	-0.405	1.00	0.00
ATOM	9	N	111	1	0.183	-4.477	0.300	1.00	0.00
ATOM	10	C	111	1	0.297	-5.863	0.331	1.00	0.00
ATOM	11	C	111	1	-0.918	-6.492	-0.147	1.00	0.00
ATOM	12	H	111	1	-1.076	-7.576	-0.208	1.00	0.00
ATOM	13	C	111	1	-1.770	-5.480	-0.502	1.00	0.00
ATOM	14	H	111	1	-2.785	-5.548	-0.915	1.00	0.00
ATOM	15	C	111	1	-1.085	-4.241	-0.214	1.00	0.00
ATOM	16	C	111	1	1.464	0.290	1.331	1.00	0.00
ATOM	17	H	111	1	5.819	-0.662	2.600	1.00	0.00
ATOM	18	C	111	1	4.776	-0.744	2.264	1.00	0.00
ATOM	19	C	111	1	4.136	-1.981	1.872	1.00	0.00
ATOM	20	H	111	1	3.926	1.317	2.336	1.00	0.00
ATOM	21	N	111	1	2.819	-1.766	1.496	1.00	0.00
ATOM	22	C	111	1	2.631	-0.400	1.647	1.00	0.00
ATOM	23	C	111	1	3.832	0.241	2.135	1.00	0.00
ATOM	24	C	111	1	1.436	-6.585	0.721	1.00	0.00
ATOM	25	H	111	1	5.841	-5.848	2.000	1.00	0.00
ATOM	26	C	111	1	4.788	-5.707	1.719	1.00	0.00
ATOM	27	C	111	1	3.846	-6.656	1.418	1.00	0.00
ATOM	28	H	111	1	3.955	-7.747	1.388	1.00	0.00
ATOM	29	C	111	1	2.624	-5.942	1.108	1.00	0.00
ATOM	30	N	111	1	2.808	-4.568	1.223	1.00	0.00
ATOM	31	C	111	1	4.135	-4.424	1.606	1.00	0.00
ATOM	32	C	111	1	4.768	-3.220	1.899	1.00	0.00
ATOM	33	Co	111	1	1.502	-3.120	0.885	1.00	0.00
ATOM	34	C	111	1	1.398	-8.087	0.693	1.00	0.00
ATOM	35	C	111	1	1.333	-10.906	0.613	1.00	0.00
ATOM	36	C	111	1	1.563	-8.780	-0.523	1.00	0.00
ATOM	37	C	111	1	1.194	-8.834	1.892	1.00	0.00
ATOM	38	C	111	1	1.164	-10.248	1.840	1.00	0.00
ATOM	39	C	111	1	1.533	-10.182	-0.574	1.00	0.00
ATOM	40	H	111	1	1.722	-8.194	-1.444	1.00	0.00
ATOM	41	H	111	1	1.007	-10.802	2.773	1.00	0.00
ATOM	42	H	111	1	1.667	-10.704	-1.535	1.00	0.00
ATOM	43	H	111	1	1.307	-12.009	0.591	1.00	0.00
ATOM	44	N	111	1	1.023	-8.114	3.090	1.00	0.00
ATOM	45	C	111	1	0.849	-8.584	4.387	1.00	0.00
ATOM	46	O	111	1	0.798	-9.773	4.687	1.00	0.00
ATOM	47	C	111	1	0.739	-7.464	5.423	1.00	0.00
ATOM	48	H	111	1	1.700	-6.907	5.506	1.00	0.00
ATOM	49	H	111	1	0.504	-7.918	6.405	1.00	0.00

ATOM	50	H	111	1	-0.056	-6.732	5.158	1.00	0.00
ATOM	51	H	111	1	1.055	-7.095	2.973	1.00	0.00
ATOM	52	H	111	1	5.825	-3.255	2.204	1.00	0.00
ATOM	53	H	111	1	1.446	1.379	1.491	1.00	0.00
ATOM	54	H	111	1	-2.676	-2.953	-0.836	1.00	0.00
CONECT	1	2	7	16					
CONECT	2	4	33						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	15	54						
CONECT	9	10	15	33					
CONECT	10	11	24						
CONECT	11	12	13						
CONECT	13	14	15						
CONECT	16	22	53						
CONECT	17	18							
CONECT	18	19	23						
CONECT	19	21	32						
CONECT	20	23							
CONECT	21	22	33						
CONECT	22	23							
CONECT	24	29	34						
CONECT	25	26							
CONECT	26	27	31						
CONECT	27	28	29						
CONECT	29	30							
CONECT	30	31	33						
CONECT	31	32							
CONECT	32	52							
CONECT	34	36	37						
CONECT	35	38	39	43					
CONECT	36	39	40						
CONECT	37	38	44						
CONECT	38	41							
CONECT	39	42							
CONECT	44	45	51						
CONECT	45	46	47						
CONECT	47	48	49	50					
END									

B_Co(PorAmide)

Xyz file

71

Energy =	-3755.8140616240			
C	0.7292434	0.0243372	-0.0655284	
N	0.3779670	-1.3123060	-0.1775781	
H	-0.0370833	1.9438359	-0.9806001	
C	-0.6775140	-1.3347827	-1.0773047	
C	-0.9882823	0.0051847	-1.5346377	
C	-0.1235394	0.8523698	-0.8894066	
C	-1.4086874	-2.4726983	-1.4601221	
N	-0.1956967	-4.0261315	0.0554091	
C	-0.3948952	-5.3599424	0.3754856	
C	-1.5114801	-5.9086522	-0.3623472	
H	-1.8595395	-6.9475024	-0.2863177	
C	-1.9782193	-4.9055025	-1.1703024	
H	-2.7967496	-4.9383677	-1.8993289	
C	-1.1730627	-3.7331063	-0.8853283	

C	1.8029513	0.5227212	0.6715330
H	1.9685454	1.6110795	0.6649434
H	5.6504102	-0.8997395	2.8367771
C	4.6678489	-0.8640314	2.3471513
C	3.8550371	-2.0243183	2.0503874
H	4.2432569	1.2908308	1.9558058
N	2.6768003	-1.6552992	1.4189172
C	2.7403955	-0.2754971	1.3242675
C	3.9624466	0.2297899	1.9128651
C	0.4168945	-6.1256236	1.2103091
H	4.5916202	-6.0382338	3.2305517
C	3.6590253	-5.7552910	2.7241224
C	2.5633556	-6.5316296	2.4433930
H	2.4008159	-7.5965838	2.6574048
C	1.6193588	-5.6783454	1.7541532
N	2.1110734	-4.3887574	1.6336217
C	3.3609256	-4.4265682	2.2345826
C	4.1989056	-3.3265606	2.4090031
H	5.1679922	-3.4875011	2.9056223
Co	1.1766318	-2.8240021	0.8221551
N	0.0560791	-2.4601238	2.6852093
S	-1.6936360	-2.0404979	2.9666036
O	-2.2346595	-3.0248274	3.9208866
O	-2.2236265	-1.8774268	1.6040772
C	-1.5843839	-0.4365556	3.7633575
C	-1.4303274	2.0407912	5.0092217
C	-1.6974689	-0.3753219	5.1632969
C	-1.4018550	0.7083339	2.9678363
C	-1.3258122	1.9544110	3.6085912
C	-1.6171937	0.8817930	5.7835197
H	-1.8607250	-1.2940261	5.7468954
H	-1.3259360	0.6226992	1.8724139
H	-1.1868178	2.8661813	3.0058824
H	-1.7078340	0.9545672	6.8794166
H	-1.3696389	3.0244461	5.5031338
N	0.6349380	-2.7752402	3.7476558
N	1.2695744	-3.0830819	4.6553757
H	0.1342947	-7.1761378	1.3779258
H	-1.7770844	0.2491346	-2.2562334
C	-2.4866721	-2.3281179	-2.4941657
C	-4.4472064	-2.0755449	-4.5071935
C	-2.1227875	-2.2070682	-3.8509395
C	-3.8713714	-2.3089805	-2.1423537
C	-4.8425246	-2.1871732	-3.1666276
C	-3.0880731	-2.0809066	-4.8615810
H	-1.0506060	-2.2232036	-4.1065860
H	-5.9016189	-2.1852310	-2.8814406
H	-2.7792285	-1.9933177	-5.9158422
H	-5.2225937	-1.9811264	-5.2860425
N	-4.2195367	-2.4063680	-0.7805124
H	-3.4285759	-2.3989496	-0.1220274
C	-5.4864917	-2.5170361	-0.2174935
O	-6.5303391	-2.5384169	-0.8653056
C	-5.4832450	-2.5793216	1.3089685
H	-5.4484011	-1.5469895	1.7250840
H	-4.6192821	-3.1378896	1.7251518
H	-6.4318685	-3.0487046	1.6367886

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.729	0.024	-0.066	1.00	0.00
ATOM	2	N	111	1	0.378	-1.312	-0.178	1.00	0.00
ATOM	3	H	111	1	-0.037	1.944	-0.981	1.00	0.00
ATOM	4	C	111	1	-0.678	-1.335	-1.077	1.00	0.00
ATOM	5	C	111	1	-0.988	0.005	-1.535	1.00	0.00
ATOM	6	C	111	1	-0.124	0.852	-0.889	1.00	0.00
ATOM	7	C	111	1	-1.409	-2.473	-1.460	1.00	0.00
ATOM	8	N	111	1	-0.196	-4.026	0.055	1.00	0.00
ATOM	9	C	111	1	-0.395	-5.360	0.375	1.00	0.00
ATOM	10	C	111	1	-1.511	-5.909	-0.362	1.00	0.00
ATOM	11	H	111	1	-1.860	-6.948	-0.286	1.00	0.00
ATOM	12	C	111	1	-1.978	-4.906	-1.170	1.00	0.00
ATOM	13	H	111	1	-2.797	-4.938	-1.899	1.00	0.00
ATOM	14	C	111	1	-1.173	-3.733	-0.885	1.00	0.00
ATOM	15	C	111	1	1.803	0.523	0.672	1.00	0.00
ATOM	16	H	111	1	1.969	1.611	0.665	1.00	0.00
ATOM	17	H	111	1	5.650	-0.900	2.837	1.00	0.00
ATOM	18	C	111	1	4.668	-0.864	2.347	1.00	0.00
ATOM	19	C	111	1	3.855	-2.024	2.050	1.00	0.00
ATOM	20	H	111	1	4.243	1.291	1.956	1.00	0.00
ATOM	21	N	111	1	2.677	-1.655	1.419	1.00	0.00
ATOM	22	C	111	1	2.740	-0.275	1.324	1.00	0.00
ATOM	23	C	111	1	3.962	0.230	1.913	1.00	0.00
ATOM	24	C	111	1	0.417	-6.126	1.210	1.00	0.00
ATOM	25	H	111	1	4.592	-6.038	3.231	1.00	0.00
ATOM	26	C	111	1	3.659	-5.755	2.724	1.00	0.00
ATOM	27	C	111	1	2.563	-6.532	2.443	1.00	0.00
ATOM	28	H	111	1	2.401	-7.597	2.657	1.00	0.00
ATOM	29	C	111	1	1.619	-5.678	1.754	1.00	0.00
ATOM	30	N	111	1	2.111	-4.389	1.634	1.00	0.00
ATOM	31	C	111	1	3.361	-4.427	2.235	1.00	0.00
ATOM	32	C	111	1	4.199	-3.327	2.409	1.00	0.00
ATOM	33	H	111	1	5.168	-3.488	2.906	1.00	0.00
ATOM	34	Co	111	1	1.177	-2.824	0.822	1.00	0.00
ATOM	35	N	111	1	0.056	-2.460	2.685	1.00	0.00
ATOM	36	S	111	1	-1.694	-2.040	2.967	1.00	0.00
ATOM	37	O	111	1	-2.235	-3.025	3.921	1.00	0.00
ATOM	38	O	111	1	-2.224	-1.877	1.604	1.00	0.00
ATOM	39	C	111	1	-1.584	-0.437	3.763	1.00	0.00
ATOM	40	C	111	1	-1.430	2.041	5.009	1.00	0.00
ATOM	41	C	111	1	-1.697	-0.375	5.163	1.00	0.00
ATOM	42	C	111	1	-1.402	0.708	2.968	1.00	0.00
ATOM	43	C	111	1	-1.326	1.954	3.609	1.00	0.00
ATOM	44	C	111	1	-1.617	0.882	5.784	1.00	0.00
ATOM	45	H	111	1	-1.861	-1.294	5.747	1.00	0.00
ATOM	46	H	111	1	-1.326	0.623	1.872	1.00	0.00
ATOM	47	H	111	1	-1.187	2.866	3.006	1.00	0.00
ATOM	48	H	111	1	-1.708	0.955	6.879	1.00	0.00
ATOM	49	H	111	1	-1.370	3.024	5.503	1.00	0.00
ATOM	50	N	111	1	0.635	-2.775	3.748	1.00	0.00
ATOM	51	N	111	1	1.270	-3.083	4.655	1.00	0.00
ATOM	52	H	111	1	0.134	-7.176	1.378	1.00	0.00
ATOM	53	H	111	1	-1.777	0.249	-2.256	1.00	0.00
ATOM	54	C	111	1	-2.487	-2.328	-2.494	1.00	0.00
ATOM	55	C	111	1	-4.447	-2.076	-4.507	1.00	0.00
ATOM	56	C	111	1	-2.123	-2.207	-3.851	1.00	0.00
ATOM	57	C	111	1	-3.871	-2.309	-2.142	1.00	0.00

ATOM	58	C	111	1	-4.843	-2.187	-3.167	1.00	0.00
ATOM	59	C	111	1	-3.088	-2.081	-4.862	1.00	0.00
ATOM	60	H	111	1	-1.051	-2.223	-4.107	1.00	0.00
ATOM	61	H	111	1	-5.902	-2.185	-2.881	1.00	0.00
ATOM	62	H	111	1	-2.779	-1.993	-5.916	1.00	0.00
ATOM	63	H	111	1	-5.223	-1.981	-5.286	1.00	0.00
ATOM	64	N	111	1	-4.220	-2.406	-0.781	1.00	0.00
ATOM	65	H	111	1	-3.429	-2.399	-0.122	1.00	0.00
ATOM	66	C	111	1	-5.486	-2.517	-0.217	1.00	0.00
ATOM	67	O	111	1	-6.530	-2.538	-0.865	1.00	0.00
ATOM	68	C	111	1	-5.483	-2.579	1.309	1.00	0.00
ATOM	69	H	111	1	-5.448	-1.547	1.725	1.00	0.00
ATOM	70	H	111	1	-4.619	-3.138	1.725	1.00	0.00
ATOM	71	H	111	1	-6.432	-3.049	1.637	1.00	0.00
CONECT	1	2	6	15					
CONECT	2	4	34						
CONECT	3	6							
CONECT	4	5	7						
CONECT	5	6	53						
CONECT	7	14	54						
CONECT	8	9	14	34					
CONECT	9	10	24						
CONECT	10	11	12						
CONECT	12	13	14						
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CONECT	17	18							
CONECT	18	19	23						
CONECT	19	21	32						
CONECT	20	23							
CONECT	21	22	34						
CONECT	22	23							
CONECT	24	29	52						
CONECT	25	26							
CONECT	26	27	31						
CONECT	27	28	29						
CONECT	29	30							
CONECT	30	31	34						
CONECT	31	32							
CONECT	32	33							
CONECT	35	36	50						
CONECT	36	37	38	39					
CONECT	39	41	42						
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CONECT	41	44	45						
CONECT	42	43	46						
CONECT	43	47							
CONECT	44	48							
CONECT	50	51							
CONECT	54	56	57						
CONECT	55	58	59	63					
CONECT	56	59	60						
CONECT	57	58	64						
CONECT	58	61							
CONECT	59	62							
CONECT	64	65	66						
CONECT	66	67	68						
CONECT	68	69	70	71					
END									

TS1_Co(PorAmide)

Xyz file

71

Energy = -3755.7910162750

C	0.8911866	0.0039595	-0.4676614
N	0.5240908	-1.3331334	-0.4521470
H	0.2055401	1.8129603	-1.6300550
C	-0.5165906	-1.4372526	-1.3643417
C	-0.7594722	-0.1614222	-2.0021521
C	0.0948758	0.7404885	-1.4206375
C	-1.3265001	-2.5662462	-1.5618625
N	-0.2371279	-3.9068261	0.2205000
C	-0.5453287	-5.1303096	0.7957844
C	-1.7249840	-5.6990328	0.1866571
H	-2.1654061	-6.6654897	0.4650401
C	-2.1136681	-4.8340575	-0.8023292
H	-2.9472443	-4.9297119	-1.5083321
C	-1.2023073	-3.7088659	-0.7556870
C	1.9478992	0.5615079	0.2501201
H	2.1254484	1.6429921	0.1481404
H	5.8857480	-0.8041051	2.2764620
C	4.8668963	-0.7716768	1.8679017
C	4.0048440	-1.9243009	1.7186196
H	4.4625530	1.3657233	1.3741715
N	2.7923303	-1.5594745	1.1563236
C	2.8802971	-0.1945479	0.9584279
C	4.1521652	0.3135230	1.4259897
C	0.2488629	-5.8080530	1.7162554
H	4.6187201	-5.8197315	3.2735587
C	3.6594974	-5.5244957	2.8278844
C	2.4768525	-6.2221774	2.7942933
H	2.2577351	-7.2224932	3.1911518
C	1.5307264	-5.3973341	2.0800390
N	2.1090505	-4.1952922	1.7050472
C	3.4123188	-4.2564769	2.1834634
C	4.3304830	-3.2088960	2.1456933
H	5.3340562	-3.3817908	2.5627779
Co	1.1798752	-2.6838603	0.8145998
N	0.2945611	-1.9993896	2.3282896
S	-1.4563199	-1.9247870	2.4435612
O	-2.0993658	-3.2078378	2.8228989
O	-1.8982056	-1.2261060	1.2015162
C	-1.6965629	-0.7580285	3.8075348
C	-2.1522039	1.0461965	5.8796545
C	-2.1761738	-1.2390018	5.0357463
C	-1.4481521	0.6074562	3.5880959
C	-1.6770241	1.5098531	4.6386978
C	-2.4039011	-0.3231906	6.0764104
H	-2.3714956	-2.3151978	5.1597854
H	-1.0866064	0.9521245	2.6071197
H	-1.4873342	2.5850781	4.4857717
H	-2.7831319	-0.6835034	7.0467188
H	-2.3313342	1.7605843	6.6999920
N	0.6896454	-2.4222011	3.8434773
N	1.6876215	-2.8009233	4.2621130
H	-0.1092730	-6.7793181	2.0889482
H	-1.5134455	0.0094176	-2.7797614
C	-2.4274750	-2.5068903	-2.5763369
C	-4.4609721	-2.4561164	-4.5232129
C	-2.1300160	-2.7228708	-3.9366488

C	-3.7759941	-2.2421582	-2.1842047
C	-4.7861593	-2.2286976	-3.1786612
C	-3.1346374	-2.6999819	-4.9163426
H	-1.0833664	-2.9238834	-4.2191590
H	-5.8201378	-2.0409841	-2.8647010
H	-2.8822656	-2.8772473	-5.9743996
H	-5.2665703	-2.4382319	-5.2764709
N	-4.0476152	-1.9992428	-0.8253659
H	-3.2270388	-1.8901809	-0.2051719
C	-5.2902837	-1.8864816	-0.2050338
O	-6.3647671	-1.9710117	-0.7952552
C	-5.2007928	-1.6382928	1.2983823
H	-4.7593953	-0.6381860	1.5042769
H	-4.5570908	-2.3897962	1.8050333
H	-6.2259271	-1.6771249	1.7156120

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.891	0.004	-0.468	1.00	0.00
ATOM	2	N	111	1	0.524	-1.333	-0.452	1.00	0.00
ATOM	3	H	111	1	0.206	1.813	-1.630	1.00	0.00
ATOM	4	C	111	1	-0.517	-1.437	-1.364	1.00	0.00
ATOM	5	C	111	1	-0.759	-0.161	-2.002	1.00	0.00
ATOM	6	C	111	1	0.095	0.740	-1.421	1.00	0.00
ATOM	7	C	111	1	-1.327	-2.566	-1.562	1.00	0.00
ATOM	8	N	111	1	-0.237	-3.907	0.220	1.00	0.00
ATOM	9	C	111	1	-0.545	-5.130	0.796	1.00	0.00
ATOM	10	C	111	1	-1.725	-5.699	0.187	1.00	0.00
ATOM	11	H	111	1	-2.165	-6.665	0.465	1.00	0.00
ATOM	12	C	111	1	-2.114	-4.834	-0.802	1.00	0.00
ATOM	13	H	111	1	-2.947	-4.930	-1.508	1.00	0.00
ATOM	14	C	111	1	-1.202	-3.709	-0.756	1.00	0.00
ATOM	15	C	111	1	1.948	0.562	0.250	1.00	0.00
ATOM	16	H	111	1	2.125	1.643	0.148	1.00	0.00
ATOM	17	H	111	1	5.886	-0.804	2.276	1.00	0.00
ATOM	18	C	111	1	4.867	-0.772	1.868	1.00	0.00
ATOM	19	C	111	1	4.005	-1.924	1.719	1.00	0.00
ATOM	20	H	111	1	4.463	1.366	1.374	1.00	0.00
ATOM	21	N	111	1	2.792	-1.559	1.156	1.00	0.00
ATOM	22	C	111	1	2.880	-0.195	0.958	1.00	0.00
ATOM	23	C	111	1	4.152	0.314	1.426	1.00	0.00
ATOM	24	C	111	1	0.249	-5.808	1.716	1.00	0.00
ATOM	25	H	111	1	4.619	-5.820	3.274	1.00	0.00
ATOM	26	C	111	1	3.659	-5.524	2.828	1.00	0.00
ATOM	27	C	111	1	2.477	-6.222	2.794	1.00	0.00
ATOM	28	H	111	1	2.258	-7.222	3.191	1.00	0.00
ATOM	29	C	111	1	1.531	-5.397	2.080	1.00	0.00
ATOM	30	N	111	1	2.109	-4.195	1.705	1.00	0.00
ATOM	31	C	111	1	3.412	-4.256	2.183	1.00	0.00
ATOM	32	C	111	1	4.330	-3.209	2.146	1.00	0.00
ATOM	33	H	111	1	5.334	-3.382	2.563	1.00	0.00
ATOM	34	Co	111	1	1.180	-2.684	0.815	1.00	0.00
ATOM	35	N	111	1	0.295	-1.999	2.328	1.00	0.00
ATOM	36	S	111	1	-1.456	-1.925	2.444	1.00	0.00
ATOM	37	O	111	1	-2.099	-3.208	2.823	1.00	0.00
ATOM	38	O	111	1	-1.898	-1.226	1.202	1.00	0.00
ATOM	39	C	111	1	-1.697	-0.758	3.808	1.00	0.00

ATOM	40	C	111	1	-2.152	1.046	5.880	1.00	0.00
ATOM	41	C	111	1	-2.176	-1.239	5.036	1.00	0.00
ATOM	42	C	111	1	-1.448	0.607	3.588	1.00	0.00
ATOM	43	C	111	1	-1.677	1.510	4.639	1.00	0.00
ATOM	44	C	111	1	-2.404	-0.323	6.076	1.00	0.00
ATOM	45	H	111	1	-2.371	-2.315	5.160	1.00	0.00
ATOM	46	H	111	1	-1.087	0.952	2.607	1.00	0.00
ATOM	47	H	111	1	-1.487	2.585	4.486	1.00	0.00
ATOM	48	H	111	1	-2.783	-0.684	7.047	1.00	0.00
ATOM	49	H	111	1	-2.331	1.761	6.700	1.00	0.00
ATOM	50	N	111	1	0.690	-2.422	3.843	1.00	0.00
ATOM	51	N	111	1	1.688	-2.801	4.262	1.00	0.00
ATOM	52	H	111	1	-0.109	-6.779	2.089	1.00	0.00
ATOM	53	H	111	1	-1.513	0.009	-2.780	1.00	0.00
ATOM	54	C	111	1	-2.427	-2.507	-2.576	1.00	0.00
ATOM	55	C	111	1	-4.461	-2.456	-4.523	1.00	0.00
ATOM	56	C	111	1	-2.130	-2.723	-3.937	1.00	0.00
ATOM	57	C	111	1	-3.776	-2.242	-2.184	1.00	0.00
ATOM	58	C	111	1	-4.786	-2.229	-3.179	1.00	0.00
ATOM	59	C	111	1	-3.135	-2.700	-4.916	1.00	0.00
ATOM	60	H	111	1	-1.083	-2.924	-4.219	1.00	0.00
ATOM	61	H	111	1	-5.820	-2.041	-2.865	1.00	0.00
ATOM	62	H	111	1	-2.882	-2.877	-5.974	1.00	0.00
ATOM	63	H	111	1	-5.267	-2.438	-5.276	1.00	0.00
ATOM	64	N	111	1	-4.048	-1.999	-0.825	1.00	0.00
ATOM	65	H	111	1	-3.227	-1.890	-0.205	1.00	0.00
ATOM	66	C	111	1	-5.290	-1.886	-0.205	1.00	0.00
ATOM	67	O	111	1	-6.365	-1.971	-0.795	1.00	0.00
ATOM	68	C	111	1	-5.201	-1.638	1.298	1.00	0.00
ATOM	69	H	111	1	-4.759	-0.638	1.504	1.00	0.00
ATOM	70	H	111	1	-4.557	-2.390	1.805	1.00	0.00
ATOM	71	H	111	1	-6.226	-1.677	1.716	1.00	0.00
CONECT	1	2	6	15					
CONECT	2	4	34						
CONECT	3	6							
CONECT	4	5	7						
CONECT	5	6	53						
CONECT	7	14	54						
CONECT	8	9	14	34					
CONECT	9	10	24						
CONECT	10	11	12						
CONECT	12	13	14						
CONECT	15	16	22						
CONECT	17	18							
CONECT	18	19	23						
CONECT	19	21	32						
CONECT	20	23							
CONECT	21	22	34						
CONECT	22	23							
CONECT	24	29	52						
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CONECT	26	27	31						
CONECT	27	28	29						
CONECT	29	30							
CONECT	30	31	34						
CONECT	31	32							
CONECT	32	33							
CONECT	34	35							
CONECT	35	36	50						
CONECT	36	37	38	39					

CONECT 39 41 42
CONECT 40 43 44 49
CONECT 41 44 45
CONECT 42 43 46
CONECT 43 47
CONECT 44 48
CONECT 50 51
CONECT 54 56 57
CONECT 55 58 59 63
CONECT 56 59 60
CONECT 57 58 64
CONECT 58 61
CONECT 59 62
CONECT 64 65 66
CONECT 66 67 68
CONECT 68 69 70 71
END

2C_Co(PorAmide)

Xyz file

69

Energy = -3646.2699024550

C	0.1636357	-0.4307013	-0.0713677
N	-0.0215220	-1.8087844	-0.0318554
H	-1.0907526	1.3068802	-0.7726185
C	-1.3134325	-2.0070801	-0.5033622
C	-1.9322356	-0.7533404	-0.8542951
H	-2.9462416	-0.6544222	-1.2631307
C	-1.0066746	0.2259631	-0.6105110
C	-1.9238784	-3.2379304	-0.7078148
N	0.0317293	-4.6144059	-0.1335118
C	0.2655727	-5.9792041	-0.1911202
C	-0.8933050	-6.6798245	-0.6968936
H	-0.9440533	-7.7656982	-0.8529560
C	-1.8628885	-5.7327266	-0.9084424
H	-2.8857853	-5.8647122	-1.2853383
C	-1.2766555	-4.4596266	-0.5579065
C	1.2979601	0.2612651	0.3758041
H	5.2496733	-0.5785151	2.6584267
C	4.3058647	-0.6962046	2.1095606
C	3.6849718	-1.9645091	1.8147808
H	3.6359762	1.3598266	1.5712020
N	2.5131015	-1.7863494	1.0907787
C	2.3829792	-0.4100047	0.9557803
C	3.5042879	0.2716950	1.5631680
C	1.4297050	-6.6179082	0.2245781
H	1.4870747	-7.7115229	0.1159088
H	5.3827981	-5.7917852	2.4982303
C	4.4251219	-5.6792156	1.9728265
C	3.6517043	-6.6417119	1.3760477
H	3.8272445	-7.7237211	1.3085504
C	2.4953444	-5.9625946	0.8329440
N	2.5738506	-4.5980322	1.0516406
C	3.7471604	-4.4194861	1.7610175
C	4.2526520	-3.1866622	2.1600970
H	5.1938783	-3.1722084	2.7303032
Co	1.1815845	-3.1932009	0.6895968
N	0.4821960	-3.3497017	2.3304858

S	-0.3719740	-2.0976333	3.0553111
O	-1.7736501	-1.9985936	2.5495827
O	0.4081874	-0.8187079	3.1842020
C	-0.4463532	-2.8181336	4.7172070
C	-0.5887279	-3.9020539	7.2824040
C	0.5668003	-2.5179402	5.6436219
C	-1.5301273	-3.6482276	5.0493229
C	-1.5953800	-4.1911582	6.3426410
C	0.4877801	-3.0654703	6.9342374
H	1.3937115	-1.8528305	5.3510437
H	-2.3126227	-3.8475070	4.3011257
H	-2.4414270	-4.8409517	6.6207792
H	1.2705798	-2.8336966	7.6754571
H	-0.6459690	-4.3293917	8.2972334
H	-2.9637503	-3.2421527	-1.0665929
C	1.3149590	1.7573412	0.3050100
C	1.3458030	4.5638416	0.0694281
C	0.5250583	2.5504514	1.1954762
C	2.1173796	2.3931250	-0.6647437
C	2.1412951	3.7899514	-0.7922756
C	0.5475166	3.9609622	1.0511156
H	2.7210207	1.7642527	-1.3400252
H	2.7691062	4.2667192	-1.5623497
H	-0.0794611	4.5601805	1.7226709
H	1.3459093	5.6635200	-0.0163184
N	-0.2379780	1.9064422	2.1854362
H	-0.0294954	0.9058311	2.3581126
C	-1.2476235	2.4543584	2.9758696
O	-1.6032229	3.6294699	2.9191886
C	-1.8787363	1.4550667	3.9403934
H	-2.1637372	0.5059169	3.4367620
H	-2.7716095	1.9297605	4.3920203
H	-1.1598993	1.1902133	4.7473682

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.164	-0.431	-0.071	1.00	0.00
ATOM	2	N	111	1	-0.022	-1.809	-0.032	1.00	0.00
ATOM	3	H	111	1	-1.091	1.307	-0.773	1.00	0.00
ATOM	4	C	111	1	-1.313	-2.007	-0.503	1.00	0.00
ATOM	5	C	111	1	-1.932	-0.753	-0.854	1.00	0.00
ATOM	6	H	111	1	-2.946	-0.654	-1.263	1.00	0.00
ATOM	7	C	111	1	-1.007	0.226	-0.611	1.00	0.00
ATOM	8	C	111	1	-1.924	-3.238	-0.708	1.00	0.00
ATOM	9	N	111	1	0.032	-4.614	-0.134	1.00	0.00
ATOM	10	C	111	1	0.266	-5.979	-0.191	1.00	0.00
ATOM	11	C	111	1	-0.893	-6.680	-0.697	1.00	0.00
ATOM	12	H	111	1	-0.944	-7.766	-0.853	1.00	0.00
ATOM	13	C	111	1	-1.863	-5.733	-0.908	1.00	0.00
ATOM	14	H	111	1	-2.886	-5.865	-1.285	1.00	0.00
ATOM	15	C	111	1	-1.277	-4.460	-0.558	1.00	0.00
ATOM	16	C	111	1	1.298	0.261	0.376	1.00	0.00
ATOM	17	H	111	1	5.250	-0.579	2.658	1.00	0.00
ATOM	18	C	111	1	4.306	-0.696	2.110	1.00	0.00
ATOM	19	C	111	1	3.685	-1.965	1.815	1.00	0.00
ATOM	20	H	111	1	3.636	1.360	1.571	1.00	0.00
ATOM	21	N	111	1	2.513	-1.786	1.091	1.00	0.00

ATOM	22	C	111	1	2.383	-0.410	0.956	1.00	0.00
ATOM	23	C	111	1	3.504	0.272	1.563	1.00	0.00
ATOM	24	C	111	1	1.430	-6.618	0.225	1.00	0.00
ATOM	25	H	111	1	1.487	-7.712	0.116	1.00	0.00
ATOM	26	H	111	1	5.383	-5.792	2.498	1.00	0.00
ATOM	27	C	111	1	4.425	-5.679	1.973	1.00	0.00
ATOM	28	C	111	1	3.652	-6.642	1.376	1.00	0.00
ATOM	29	H	111	1	3.827	-7.724	1.309	1.00	0.00
ATOM	30	C	111	1	2.495	-5.963	0.833	1.00	0.00
ATOM	31	N	111	1	2.574	-4.598	1.052	1.00	0.00
ATOM	32	C	111	1	3.747	-4.419	1.761	1.00	0.00
ATOM	33	C	111	1	4.253	-3.187	2.160	1.00	0.00
ATOM	34	H	111	1	5.194	-3.172	2.730	1.00	0.00
ATOM	35	Co	111	1	1.182	-3.193	0.690	1.00	0.00
ATOM	36	N	111	1	0.482	-3.350	2.330	1.00	0.00
ATOM	37	S	111	1	-0.372	-2.098	3.055	1.00	0.00
ATOM	38	O	111	1	-1.774	-1.999	2.550	1.00	0.00
ATOM	39	O	111	1	0.408	-0.819	3.184	1.00	0.00
ATOM	40	C	111	1	-0.446	-2.818	4.717	1.00	0.00
ATOM	41	C	111	1	-0.589	-3.902	7.282	1.00	0.00
ATOM	42	C	111	1	0.567	-2.518	5.644	1.00	0.00
ATOM	43	C	111	1	-1.530	-3.648	5.049	1.00	0.00
ATOM	44	C	111	1	-1.595	-4.191	6.343	1.00	0.00
ATOM	45	C	111	1	0.488	-3.065	6.934	1.00	0.00
ATOM	46	H	111	1	1.394	-1.853	5.351	1.00	0.00
ATOM	47	H	111	1	-2.313	-3.848	4.301	1.00	0.00
ATOM	48	H	111	1	-2.441	-4.841	6.621	1.00	0.00
ATOM	49	H	111	1	1.271	-2.834	7.675	1.00	0.00
ATOM	50	H	111	1	-0.646	-4.329	8.297	1.00	0.00
ATOM	51	H	111	1	-2.964	-3.242	-1.067	1.00	0.00
ATOM	52	C	111	1	1.315	1.757	0.305	1.00	0.00
ATOM	53	C	111	1	1.346	4.564	0.069	1.00	0.00
ATOM	54	C	111	1	0.525	2.550	1.195	1.00	0.00
ATOM	55	C	111	1	2.117	2.393	-0.665	1.00	0.00
ATOM	56	C	111	1	2.141	3.790	-0.792	1.00	0.00
ATOM	57	C	111	1	0.548	3.961	1.051	1.00	0.00
ATOM	58	H	111	1	2.721	1.764	-1.340	1.00	0.00
ATOM	59	H	111	1	2.769	4.267	-1.562	1.00	0.00
ATOM	60	H	111	1	-0.079	4.560	1.723	1.00	0.00
ATOM	61	H	111	1	1.346	5.664	-0.016	1.00	0.00
ATOM	62	N	111	1	-0.238	1.906	2.185	1.00	0.00
ATOM	63	H	111	1	-0.029	0.906	2.358	1.00	0.00
ATOM	64	C	111	1	-1.248	2.454	2.976	1.00	0.00
ATOM	65	O	111	1	-1.603	3.629	2.919	1.00	0.00
ATOM	66	C	111	1	-1.879	1.455	3.940	1.00	0.00
ATOM	67	H	111	1	-2.164	0.506	3.437	1.00	0.00
ATOM	68	H	111	1	-2.772	1.930	4.392	1.00	0.00
ATOM	69	H	111	1	-1.160	1.190	4.747	1.00	0.00
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CONECT	3	7							
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CONECT	9	10	15	35					
CONECT	10	11	24						
CONECT	11	12	13						
CONECT	13	14	15						
CONECT	16	22	52						
CONECT	17	18							

CONECT 18 19 23
CONECT 19 21 33
CONECT 20 23
CONECT 21 22 35
CONECT 22 23
CONECT 24 25 30
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CONECT 28 29 30
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CONECT 64 65 66
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END

TS2_Co(PorAmide)
Xyz file
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H -2.0219789 1.0235035 -0.1558906
C -1.4877141 -2.2318808 0.3214704
C -2.3636295 -1.1766547 -0.1304033
H -3.3439959 -1.3381650 -0.5976335
C -1.7022439 0.0031204 0.0862907
C -1.7323670 -3.5804030 0.0862879
H -2.7053384 -3.8612902 -0.3440727
N 0.5006667 -4.3664177 0.7567375
C 1.1619579 -5.5757009 0.5880378
C 0.3100675 -6.5366581 -0.0747645
H 0.6114053 -7.5594978 -0.3374592
C -0.9011054 -5.9194999 -0.2733047
H -1.8061328 -6.3202622 -0.7492951
C -0.7640746 -4.5715699 0.2287668
C 0.4582137 0.6246244 1.2090607
H 4.0825833 0.8250828 4.1044443
C 3.2964291 0.4688672 3.4253723
C 3.0399168 -0.9205426 3.1236850
H 2.2973466 2.2923935 2.6236958

N	1.9977192	-1.0413578	2.2176020
C	1.5825549	0.2557805	1.9637138
C	2.4107171	1.2034317	2.6802294
C	2.4391325	-5.8676863	1.0660385
H	2.8507069	-6.8685669	0.8653174
H	5.6146401	-4.1786114	3.9992469
C	4.7463361	-4.2932333	3.3364395
C	4.4070004	-5.3611507	2.5431763
H	4.9258051	-6.3219939	2.4246288
C	3.1780289	-5.0009722	1.8690875
N	2.7927951	-3.7127080	2.2057014
C	3.7496162	-3.2714410	3.1001249
C	3.8251981	-1.9704088	3.5956696
H	4.6291224	-1.7317302	4.3085275
Co	1.1289148	-2.7275185	1.7023526
N	0.3873274	-3.0251601	3.3840068
S	-0.9286646	-2.0927872	3.9032920
O	-2.2732029	-2.5024300	3.4107782
O	-0.5672315	-0.6366982	3.7788295
C	-0.8836362	-2.3835190	5.6969523
C	-0.9104361	-2.5159383	8.4863150
C	0.3212730	-2.2152385	6.4041965
C	-2.0974868	-2.6171412	6.3599150
C	-2.1054752	-2.6746596	7.7653879
C	0.3023734	-2.2926279	7.8051734
H	1.2567736	-2.0257434	5.8553859
H	-3.0187901	-2.7452363	5.7714609
H	-3.0551565	-2.8505870	8.2968976
H	1.2396763	-2.1670799	8.3723849
H	-0.9208397	-2.5643424	9.5878769
C	-1.1400352	-5.5223402	3.7278883
C	0.1360834	-5.0513343	4.0093440
H	0.9387754	-5.2231540	3.2813463
H	0.4636714	-4.8886676	5.0501315
H	-1.3833991	-5.6969700	2.6642462
C	-2.2180649	-5.7987527	4.6619384
C	-4.3725687	-6.4630351	6.3999490
C	-3.5285908	-6.0365665	4.1583963
C	-2.0220458	-5.9097782	6.0674056
C	-3.0821821	-6.2408910	6.9190545
C	-4.5898051	-6.3563976	5.0128161
H	-3.7017756	-5.9522889	3.0726987
H	-1.0172007	-5.7554773	6.4921732
H	-2.9011756	-6.3323350	8.0030956
H	-5.5966805	-6.5272999	4.5969122
H	-5.2045954	-6.7252578	7.0743007
C	0.1675513	2.0795743	1.0027568
C	-0.3386116	4.8093041	0.5324248
C	0.9003974	2.7943951	0.0334452
C	-0.8332992	2.7548013	1.7689701
C	-1.0763383	4.1278744	1.5106405
C	0.6570687	4.1543371	-0.2113924
H	1.6693006	2.2549287	-0.5439986
H	-1.8547231	4.6332837	2.0949067
H	1.2364600	4.6931442	-0.9785639
H	-0.5488065	5.8775140	0.3548812
N	-1.5348037	2.0353341	2.7545511
H	-1.2017537	1.0747927	2.9514210
C	-2.6295250	2.4626258	3.5028308
O	-3.1315835	3.5817599	3.4159945

C	-3.1908237	1.4053491	4.4472116
H	-3.3108129	1.8601371	5.4535091
H	-2.5662546	0.4925960	4.5153265
H	-4.2071067	1.1226248	4.0939566

Pdb file

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HEADER B2Pdb
COMPND B2Pdb
ATOM      1  C   111      1     -0.450   -0.332    0.731   1.00   0.00
ATOM      2  N   111      1     -0.319   -1.709    0.855   1.00   0.00
ATOM      3  H   111      1     -2.022    1.024   -0.156   1.00   0.00
ATOM      4  C   111      1     -1.488   -2.232    0.321   1.00   0.00
ATOM      5  C   111      1     -2.364   -1.177   -0.130   1.00   0.00
ATOM      6  H   111      1     -3.344   -1.338   -0.598   1.00   0.00
ATOM      7  C   111      1     -1.702    0.003    0.086   1.00   0.00
ATOM      8  C   111      1     -1.732   -3.580    0.086   1.00   0.00
ATOM      9  H   111      1     -2.705   -3.861   -0.344   1.00   0.00
ATOM     10  N   111      1      0.501   -4.366    0.757   1.00   0.00
ATOM     11  C   111      1      1.162   -5.576    0.588   1.00   0.00
ATOM     12  C   111      1      0.310   -6.537   -0.075   1.00   0.00
ATOM     13  H   111      1      0.611   -7.559   -0.337   1.00   0.00
ATOM     14  C   111      1     -0.901   -5.919   -0.273   1.00   0.00
ATOM     15  H   111      1     -1.806   -6.320   -0.749   1.00   0.00
ATOM     16  C   111      1     -0.764   -4.572    0.229   1.00   0.00
ATOM     17  C   111      1      0.458    0.625    1.209   1.00   0.00
ATOM     18  H   111      1      4.083    0.825    4.104   1.00   0.00
ATOM     19  C   111      1      3.296    0.469    3.425   1.00   0.00
ATOM     20  C   111      1      3.040   -0.921    3.124   1.00   0.00
ATOM     21  H   111      1      2.297    2.292    2.624   1.00   0.00
ATOM     22  N   111      1      1.998   -1.041    2.218   1.00   0.00
ATOM     23  C   111      1      1.583    0.256    1.964   1.00   0.00
ATOM     24  C   111      1      2.411    1.203    2.680   1.00   0.00
ATOM     25  C   111      1      2.439   -5.868    1.066   1.00   0.00
ATOM     26  H   111      1      2.851   -6.869    0.865   1.00   0.00
ATOM     27  H   111      1      5.615   -4.179    3.999   1.00   0.00
ATOM     28  C   111      1      4.746   -4.293    3.336   1.00   0.00
ATOM     29  C   111      1      4.407   -5.361    2.543   1.00   0.00
ATOM     30  H   111      1      4.926   -6.322    2.425   1.00   0.00
ATOM     31  C   111      1      3.178   -5.001    1.869   1.00   0.00
ATOM     32  N   111      1      2.793   -3.713    2.206   1.00   0.00
ATOM     33  C   111      1      3.750   -3.271    3.100   1.00   0.00
ATOM     34  C   111      1      3.825   -1.970    3.596   1.00   0.00
ATOM     35  H   111      1      4.629   -1.732    4.309   1.00   0.00
ATOM     36  Co  111      1      1.129   -2.728    1.702   1.00   0.00
ATOM     37  N   111      1      0.387   -3.025    3.384   1.00   0.00
ATOM     38  S   111      1     -0.929   -2.093    3.903   1.00   0.00
ATOM     39  O   111      1     -2.273   -2.502    3.411   1.00   0.00
ATOM     40  O   111      1     -0.567   -0.637    3.779   1.00   0.00
ATOM     41  C   111      1     -0.884   -2.384    5.697   1.00   0.00
ATOM     42  C   111      1     -0.910   -2.516    8.486   1.00   0.00
ATOM     43  C   111      1      0.321   -2.215    6.404   1.00   0.00
ATOM     44  C   111      1     -2.097   -2.617    6.360   1.00   0.00
ATOM     45  C   111      1     -2.105   -2.675    7.765   1.00   0.00
ATOM     46  C   111      1      0.302   -2.293    7.805   1.00   0.00
ATOM     47  H   111      1      1.257   -2.026    5.855   1.00   0.00
ATOM     48  H   111      1     -3.019   -2.745    5.771   1.00   0.00
ATOM     49  H   111      1     -3.055   -2.851    8.297   1.00   0.00

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ATOM	50	H	111	1	1.240	-2.167	8.372	1.00	0.00
ATOM	51	H	111	1	-0.921	-2.564	9.588	1.00	0.00
ATOM	52	C	111	1	-1.140	-5.522	3.728	1.00	0.00
ATOM	53	C	111	1	0.136	-5.051	4.009	1.00	0.00
ATOM	54	H	111	1	0.939	-5.223	3.281	1.00	0.00
ATOM	55	H	111	1	0.464	-4.889	5.050	1.00	0.00
ATOM	56	H	111	1	-1.383	-5.697	2.664	1.00	0.00
ATOM	57	C	111	1	-2.218	-5.799	4.662	1.00	0.00
ATOM	58	C	111	1	-4.373	-6.463	6.400	1.00	0.00
ATOM	59	C	111	1	-3.529	-6.037	4.158	1.00	0.00
ATOM	60	C	111	1	-2.022	-5.910	6.067	1.00	0.00
ATOM	61	C	111	1	-3.082	-6.241	6.919	1.00	0.00
ATOM	62	C	111	1	-4.590	-6.356	5.013	1.00	0.00
ATOM	63	H	111	1	-3.702	-5.952	3.073	1.00	0.00
ATOM	64	H	111	1	-1.017	-5.755	6.492	1.00	0.00
ATOM	65	H	111	1	-2.901	-6.332	8.003	1.00	0.00
ATOM	66	H	111	1	-5.597	-6.527	4.597	1.00	0.00
ATOM	67	H	111	1	-5.205	-6.725	7.074	1.00	0.00
ATOM	68	C	111	1	0.168	2.080	1.003	1.00	0.00
ATOM	69	C	111	1	-0.339	4.809	0.532	1.00	0.00
ATOM	70	C	111	1	0.900	2.794	0.033	1.00	0.00
ATOM	71	C	111	1	-0.833	2.755	1.769	1.00	0.00
ATOM	72	C	111	1	-1.076	4.128	1.511	1.00	0.00
ATOM	73	C	111	1	0.657	4.154	-0.211	1.00	0.00
ATOM	74	H	111	1	1.669	2.255	-0.544	1.00	0.00
ATOM	75	H	111	1	-1.855	4.633	2.095	1.00	0.00
ATOM	76	H	111	1	1.236	4.693	-0.979	1.00	0.00
ATOM	77	H	111	1	-0.549	5.878	0.355	1.00	0.00
ATOM	78	N	111	1	-1.535	2.035	2.755	1.00	0.00
ATOM	79	H	111	1	-1.202	1.075	2.951	1.00	0.00
ATOM	80	C	111	1	-2.630	2.463	3.503	1.00	0.00
ATOM	81	O	111	1	-3.132	3.582	3.416	1.00	0.00
ATOM	82	C	111	1	-3.191	1.405	4.447	1.00	0.00
ATOM	83	H	111	1	-3.311	1.860	5.454	1.00	0.00
ATOM	84	H	111	1	-2.566	0.493	4.515	1.00	0.00
ATOM	85	H	111	1	-4.207	1.123	4.094	1.00	0.00
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CONECT 34 35
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CONECT 62 66
CONECT 68 70 71
CONECT 69 72 73 77
CONECT 70 73 74
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CONECT 80 81 82
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END

2D_Co(PorAmide)

Xyz file

85

Energy = -3956.0260680000
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C -1.8128518 -2.9413164 -1.0175690
C -2.5056115 -1.80955573 -1.5910379
H -3.4309818 -1.8773905 -2.1787184
C -1.7717895 -0.6966112 -1.2720975
C -2.2295015 -4.2601004 -1.1950164
N -0.4697429 -5.3189205 0.1660136
C -0.1989406 -6.6417451 0.4819294
C -1.1405321 -7.5310220 -0.1621960
H -1.1252572 -8.6256285 -0.0736270
C -1.9980102 -6.7374615 -0.8824149
H -2.8448656 -7.0359922 -1.5148949
C -1.5758328 -5.3709167 -0.6646796
C 0.4249574 -0.3156542 -0.1188805
H 4.5339796 -0.5187324 2.0280258
C 3.5603912 -0.7777106 1.5906770
C 2.9619103 -2.0945699 1.6380468
H 2.7760364 1.0871671 0.6557727
N 1.7463261 -2.1124286 0.9779892
C 1.5569150 -0.8095659 0.5455741
C 2.6858768 0.0236107 0.9068830
C 0.8320959 -7.0756133 1.3141962
H 0.9145510 -8.1543212 1.5161511
H 4.6436802 -5.5422359 3.4624793
C 3.6935911 -5.5986173 2.9142336

C	2.9183535	-6.6990549	2.6472124
H	3.0904993	-7.7471544	2.9266720
C	1.7964670	-6.2318736	1.8623017
N	1.8655498	-4.8617400	1.6679316
C	3.0344947	-4.4698663	2.2943887
C	3.5568259	-3.1775143	2.2816437
H	4.5178339	-3.0056862	2.7902909
Co	0.4823065	-3.6570665	0.8324774
N	-0.6506006	-3.4552644	2.5478817
S	-0.8965047	-2.0677564	3.4642357
O	-2.3375247	-1.7924180	3.7279761
O	-0.0660789	-0.9826704	2.8737280
C	-0.1584794	-2.4581948	5.0841790
C	0.9705963	-2.9908321	7.5845125
C	1.2113456	-2.7619707	5.1686686
C	-0.9700630	-2.4114106	6.2293820
C	-0.3964269	-2.6800009	7.4852165
C	1.7714264	-3.0305919	6.4274285
H	1.8284052	-2.7888841	4.2572964
H	-2.0349995	-2.1523126	6.1240870
H	-1.0228526	-2.6410380	8.3918498
H	2.8442144	-3.2721759	6.5056144
H	1.4172738	-3.2014389	8.5703700
H	-0.9906855	-5.5256031	2.6751423
C	-1.4639389	-4.5887731	3.0411085
H	-1.4688872	-4.6528956	4.1538115
C	-2.8258220	-4.4098281	2.4574280
H	-2.8342295	-4.2924751	1.3609351
C	-4.0748171	-4.2903942	3.1241407
C	-6.6445263	-4.1344197	4.3332024
C	-4.2335720	-4.4198344	4.5414528
C	-5.2552082	-4.0672261	2.3412426
C	-6.5148096	-3.9938874	2.9357887
C	-5.4976269	-4.3475352	5.1278733
H	-3.3470143	-4.5677225	5.1772585
H	-5.1484694	-3.9503794	1.2500136
H	-7.4080649	-3.8188309	2.3138426
H	-5.6004085	-4.4480233	6.2209656
H	-7.6387819	-4.0696467	4.8052290
H	-3.1252808	-4.4348267	-1.8103726
C	0.3519283	1.1414988	-0.4728913
C	0.2030603	3.8430769	-1.2586765
C	0.8018299	1.5533203	-1.7443232
C	-0.1829792	2.1107894	0.4312143
C	-0.2525687	3.4649182	0.0112891
C	0.7368736	2.8955372	-2.1477923
H	1.2087528	0.7886891	-2.4267926
H	-0.6772625	4.1980614	0.7074270
H	1.0950056	3.1943247	-3.1464178
H	0.1357701	4.9037329	-1.5542027
N	-0.6241503	1.6935772	1.6999025
H	-0.4649641	0.7001715	1.9458119
C	-1.2264355	2.4670371	2.6919838
O	-1.4818828	3.6641014	2.5737007
C	-1.5394875	1.6958703	3.9698922
H	-2.1447734	0.7843097	3.7743356
H	-2.0878338	2.3749089	4.6518192
H	-0.6008014	1.3571883	4.4615639

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	-0.627	-1.158	-0.514	1.00	0.00
ATOM	2	N	111	1	-0.675	-2.533	-0.342	1.00	0.00
ATOM	3	H	111	1	-1.959	0.350	-1.539	1.00	0.00
ATOM	4	C	111	1	-1.813	-2.941	-1.018	1.00	0.00
ATOM	5	C	111	1	-2.506	-1.810	-1.591	1.00	0.00
ATOM	6	H	111	1	-3.431	-1.877	-2.179	1.00	0.00
ATOM	7	C	111	1	-1.772	-0.697	-1.272	1.00	0.00
ATOM	8	C	111	1	-2.230	-4.260	-1.195	1.00	0.00
ATOM	9	N	111	1	-0.470	-5.319	0.166	1.00	0.00
ATOM	10	C	111	1	-0.199	-6.642	0.482	1.00	0.00
ATOM	11	C	111	1	-1.141	-7.531	-0.162	1.00	0.00
ATOM	12	H	111	1	-1.125	-8.626	-0.074	1.00	0.00
ATOM	13	C	111	1	-1.998	-6.737	-0.882	1.00	0.00
ATOM	14	H	111	1	-2.845	-7.036	-1.515	1.00	0.00
ATOM	15	C	111	1	-1.576	-5.371	-0.665	1.00	0.00
ATOM	16	C	111	1	0.425	-0.316	-0.119	1.00	0.00
ATOM	17	H	111	1	4.534	-0.519	2.028	1.00	0.00
ATOM	18	C	111	1	3.560	-0.778	1.591	1.00	0.00
ATOM	19	C	111	1	2.962	-2.095	1.638	1.00	0.00
ATOM	20	H	111	1	2.776	1.087	0.656	1.00	0.00
ATOM	21	N	111	1	1.746	-2.112	0.978	1.00	0.00
ATOM	22	C	111	1	1.557	-0.810	0.546	1.00	0.00
ATOM	23	C	111	1	2.686	0.024	0.907	1.00	0.00
ATOM	24	C	111	1	0.832	-7.076	1.314	1.00	0.00
ATOM	25	H	111	1	0.915	-8.154	1.516	1.00	0.00
ATOM	26	H	111	1	4.644	-5.542	3.462	1.00	0.00
ATOM	27	C	111	1	3.694	-5.599	2.914	1.00	0.00
ATOM	28	C	111	1	2.918	-6.699	2.647	1.00	0.00
ATOM	29	H	111	1	3.090	-7.747	2.927	1.00	0.00
ATOM	30	C	111	1	1.796	-6.232	1.862	1.00	0.00
ATOM	31	N	111	1	1.866	-4.862	1.668	1.00	0.00
ATOM	32	C	111	1	3.034	-4.470	2.294	1.00	0.00
ATOM	33	C	111	1	3.557	-3.178	2.282	1.00	0.00
ATOM	34	H	111	1	4.518	-3.006	2.790	1.00	0.00
ATOM	35	Co	111	1	0.482	-3.657	0.832	1.00	0.00
ATOM	36	N	111	1	-0.651	-3.455	2.548	1.00	0.00
ATOM	37	S	111	1	-0.897	-2.068	3.464	1.00	0.00
ATOM	38	O	111	1	-2.338	-1.792	3.728	1.00	0.00
ATOM	39	O	111	1	-0.066	-0.983	2.874	1.00	0.00
ATOM	40	C	111	1	-0.158	-2.458	5.084	1.00	0.00
ATOM	41	C	111	1	0.971	-2.991	7.585	1.00	0.00
ATOM	42	C	111	1	1.211	-2.762	5.169	1.00	0.00
ATOM	43	C	111	1	-0.970	-2.411	6.229	1.00	0.00
ATOM	44	C	111	1	-0.396	-2.680	7.485	1.00	0.00
ATOM	45	C	111	1	1.771	-3.031	6.427	1.00	0.00
ATOM	46	H	111	1	1.828	-2.789	4.257	1.00	0.00
ATOM	47	H	111	1	-2.035	-2.152	6.124	1.00	0.00
ATOM	48	H	111	1	-1.023	-2.641	8.392	1.00	0.00
ATOM	49	H	111	1	2.844	-3.272	6.506	1.00	0.00
ATOM	50	H	111	1	1.417	-3.201	8.570	1.00	0.00
ATOM	51	H	111	1	-0.991	-5.526	2.675	1.00	0.00
ATOM	52	C	111	1	-1.464	-4.589	3.041	1.00	0.00
ATOM	53	H	111	1	-1.469	-4.653	4.154	1.00	0.00
ATOM	54	C	111	1	-2.826	-4.410	2.457	1.00	0.00
ATOM	55	H	111	1	-2.834	-4.292	1.361	1.00	0.00
ATOM	56	C	111	1	-4.075	-4.290	3.124	1.00	0.00
ATOM	57	C	111	1	-6.645	-4.134	4.333	1.00	0.00

ATOM	58	C	111	1	-4.234	-4.420	4.541	1.00	0.00
ATOM	59	C	111	1	-5.255	-4.067	2.341	1.00	0.00
ATOM	60	C	111	1	-6.515	-3.994	2.936	1.00	0.00
ATOM	61	C	111	1	-5.498	-4.348	5.128	1.00	0.00
ATOM	62	H	111	1	-3.347	-4.568	5.177	1.00	0.00
ATOM	63	H	111	1	-5.148	-3.950	1.250	1.00	0.00
ATOM	64	H	111	1	-7.408	-3.819	2.314	1.00	0.00
ATOM	65	H	111	1	-5.600	-4.448	6.221	1.00	0.00
ATOM	66	H	111	1	-7.639	-4.070	4.805	1.00	0.00
ATOM	67	H	111	1	-3.125	-4.435	-1.810	1.00	0.00
ATOM	68	C	111	1	0.352	1.141	-0.473	1.00	0.00
ATOM	69	C	111	1	0.203	3.843	-1.259	1.00	0.00
ATOM	70	C	111	1	0.802	1.553	-1.744	1.00	0.00
ATOM	71	C	111	1	-0.183	2.111	0.431	1.00	0.00
ATOM	72	C	111	1	-0.253	3.465	0.011	1.00	0.00
ATOM	73	C	111	1	0.737	2.896	-2.148	1.00	0.00
ATOM	74	H	111	1	1.209	0.789	-2.427	1.00	0.00
ATOM	75	H	111	1	-0.677	4.198	0.707	1.00	0.00
ATOM	76	H	111	1	1.095	3.194	-3.146	1.00	0.00
ATOM	77	H	111	1	0.136	4.904	-1.554	1.00	0.00
ATOM	78	N	111	1	-0.624	1.694	1.700	1.00	0.00
ATOM	79	H	111	1	-0.465	0.700	1.946	1.00	0.00
ATOM	80	C	111	1	-1.226	2.467	2.692	1.00	0.00
ATOM	81	O	111	1	-1.482	3.664	2.574	1.00	0.00
ATOM	82	C	111	1	-1.539	1.696	3.970	1.00	0.00
ATOM	83	H	111	1	-2.145	0.784	3.774	1.00	0.00
ATOM	84	H	111	1	-2.088	2.375	4.652	1.00	0.00
ATOM	85	H	111	1	-0.601	1.357	4.462	1.00	0.00
CONECT	1	2	7	16					
CONECT	2	4	35						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	15	67						
CONECT	9	10	15	35					
CONECT	10	11	24						
CONECT	11	12	13						
CONECT	13	14	15						
CONECT	16	22	68						
CONECT	17	18							
CONECT	18	19	23						
CONECT	19	21	33						
CONECT	20	23							
CONECT	21	22	35						
CONECT	22	23							
CONECT	24	25	30						
CONECT	26	27							
CONECT	27	28	32						
CONECT	28	29	30						
CONECT	30	31							
CONECT	31	32	35						
CONECT	32	33							
CONECT	33	34							
CONECT	35	36							
CONECT	36	37	52						
CONECT	37	38	39	40					
CONECT	40	42	43						
CONECT	41	44	45	50					
CONECT	42	45	46						
CONECT	43	44	47						

CONECT 44 48
CONECT 45 49
CONECT 51 52
CONECT 52 53 54
CONECT 54 55 56
CONECT 56 58 59
CONECT 57 60 61 66
CONECT 58 61 62
CONECT 59 60 63
CONECT 60 64
CONECT 61 65
CONECT 68 70 71
CONECT 69 72 73 77
CONECT 70 73 74
CONECT 71 72 78
CONECT 72 75
CONECT 73 76
CONECT 78 79 80
CONECT 80 81 82
CONECT 82 83 84 85
END

TS3_Co(PorAmide)

Xyz file

85

Energy = -3956.0285301420

C	-0.5355609	-0.9958418	-0.4564271
N	-0.7668692	-2.3451906	-0.2502722
H	-1.6962242	0.6718377	-1.4506191
C	-2.0038293	-2.5884131	-0.8226394
C	-2.5743959	-1.3717604	-1.3617047
H	-3.5467793	-1.3090389	-1.8683917
C	-1.6499716	-0.3832417	-1.1560404
C	-2.5848654	-3.8416599	-0.9999604
N	-0.7451951	-5.1584757	-0.0217855
C	-0.5061761	-6.5223414	0.0583862
C	-1.5695299	-7.2709554	-0.5735628
H	-1.6000498	-8.3660093	-0.6529043
C	-2.4839861	-6.3494988	-1.0240417
H	-3.4249125	-6.5221641	-1.5638462
C	-1.9587414	-5.0466940	-0.6813318
C	0.6096461	-0.2868578	-0.0597693
H	4.4678328	-0.8853087	2.4545395
C	3.5275515	-1.0545007	1.9126201
C	2.8395605	-2.3245225	1.8348762
H	2.9862221	0.8961033	0.9833214
N	1.6891957	-2.2207841	1.0701645
C	1.6438583	-0.8940064	0.6700200
C	2.7912991	-0.1657358	1.1744896
C	0.5732018	-7.1108909	0.7174164
H	0.6395042	-8.2096461	0.7200874
H	4.3157354	-6.0462164	3.2453546
C	3.3969553	-5.9888016	2.6460724
C	2.6506064	-7.0115182	2.1172115
H	2.8144106	-8.0948700	2.1943462
C	1.5606183	-6.3948895	1.3911573
N	1.6324873	-5.0107932	1.4700984
C	2.7707482	-4.7565505	2.2158272

C	3.3230554	-3.4934349	2.4219239
H	4.2490779	-3.4259550	3.0134491
Co	0.3426234	-3.6530919	0.7495008
N	-0.7832742	-3.5535976	2.5632195
S	-1.2313720	-2.1080499	3.3707757
O	-2.6923811	-1.9914884	3.6117352
O	-0.5537693	-1.0163596	2.6277235
C	-0.4347139	-2.1867819	5.0067686
C	0.7764052	-2.1450390	7.5213399
C	0.9634147	-2.2998373	5.0946311
C	-1.2355881	-2.0434176	6.1513893
C	-0.6197219	-2.0217960	7.4151776
C	1.5643045	-2.2842374	6.3633542
H	1.5718437	-2.3967553	4.1814582
H	-2.3255041	-1.9340737	6.0375506
H	-1.2359483	-1.9015370	8.3214293
H	2.6597655	-2.3741033	6.4478453
H	1.2565527	-2.1272317	8.5137741
H	-0.2229012	-5.5451989	3.0450906
C	-0.9725844	-4.7910684	3.3553310
H	-0.9072634	-4.6507792	4.4562680
C	-2.3313192	-4.9943355	2.8142105
H	-2.3651270	-5.2645947	1.7487319
C	-3.5878174	-4.8360733	3.4815179
C	-6.1380041	-4.7208238	4.7171576
C	-3.7105797	-4.6742238	4.8938190
C	-4.7859038	-4.9309605	2.7102322
C	-6.0410730	-4.8743571	3.3199133
C	-4.9682448	-4.6249871	5.4986363
H	-2.8059109	-4.5932485	5.5157383
H	-4.7015870	-5.0512371	1.6178526
H	-6.9548461	-4.9476547	2.7079765
H	-5.0469558	-4.5061257	6.5918109
H	-7.1281520	-4.6747687	5.2001207
H	-3.5621063	-3.8860227	-1.5048240
C	0.7134837	1.1699034	-0.4020158
C	0.9161231	3.8826111	-1.1403770
C	1.5184753	1.5669067	-1.4886603
C	0.0030200	2.1621395	0.3413938
C	0.1126951	3.5204043	-0.0502732
C	1.6288226	2.9140582	-1.8662262
H	2.0595122	0.7873199	-2.0503455
H	-0.4488346	4.2705016	0.5199965
H	2.2606210	3.2005452	-2.7227402
H	0.9838992	4.9468778	-1.4224821
N	-0.7751778	1.7534713	1.4409654
H	-0.7019927	0.7574441	1.7069006
C	-1.6202713	2.5287354	2.2303861
O	-1.8226163	3.7286856	2.0539876
C	-2.2688400	1.7602644	3.3789619
H	-2.6147860	0.7468145	3.0878930
H	-3.1197733	2.3609516	3.7564006
H	-1.5349378	1.6310834	4.2062067

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	-0.536	-0.996	-0.456	1.00	0.00
ATOM	2	N	111	1	-0.767	-2.345	-0.250	1.00	0.00
ATOM	3	H	111	1	-1.696	0.672	-1.451	1.00	0.00
ATOM	4	C	111	1	-2.004	-2.588	-0.823	1.00	0.00
ATOM	5	C	111	1	-2.574	-1.372	-1.362	1.00	0.00
ATOM	6	H	111	1	-3.547	-1.309	-1.868	1.00	0.00
ATOM	7	C	111	1	-1.650	-0.383	-1.156	1.00	0.00
ATOM	8	C	111	1	-2.585	-3.842	-1.000	1.00	0.00
ATOM	9	N	111	1	-0.745	-5.158	-0.022	1.00	0.00
ATOM	10	C	111	1	-0.506	-6.522	0.058	1.00	0.00
ATOM	11	C	111	1	-1.570	-7.271	-0.574	1.00	0.00
ATOM	12	H	111	1	-1.600	-8.366	-0.653	1.00	0.00
ATOM	13	C	111	1	-2.484	-6.349	-1.024	1.00	0.00
ATOM	14	H	111	1	-3.425	-6.522	-1.564	1.00	0.00
ATOM	15	C	111	1	-1.959	-5.047	-0.681	1.00	0.00
ATOM	16	C	111	1	0.610	-0.287	-0.060	1.00	0.00
ATOM	17	H	111	1	4.468	-0.885	2.455	1.00	0.00
ATOM	18	C	111	1	3.528	-1.055	1.913	1.00	0.00
ATOM	19	C	111	1	2.840	-2.325	1.835	1.00	0.00
ATOM	20	H	111	1	2.986	0.896	0.983	1.00	0.00
ATOM	21	N	111	1	1.689	-2.221	1.070	1.00	0.00
ATOM	22	C	111	1	1.644	-0.894	0.670	1.00	0.00
ATOM	23	C	111	1	2.791	-0.166	1.174	1.00	0.00
ATOM	24	C	111	1	0.573	-7.111	0.717	1.00	0.00
ATOM	25	H	111	1	0.640	-8.210	0.720	1.00	0.00
ATOM	26	H	111	1	4.316	-6.046	3.245	1.00	0.00
ATOM	27	C	111	1	3.397	-5.989	2.646	1.00	0.00
ATOM	28	C	111	1	2.651	-7.012	2.117	1.00	0.00
ATOM	29	H	111	1	2.814	-8.095	2.194	1.00	0.00
ATOM	30	C	111	1	1.561	-6.395	1.391	1.00	0.00
ATOM	31	N	111	1	1.632	-5.011	1.470	1.00	0.00
ATOM	32	C	111	1	2.771	-4.757	2.216	1.00	0.00
ATOM	33	C	111	1	3.323	-3.493	2.422	1.00	0.00
ATOM	34	H	111	1	4.249	-3.426	3.013	1.00	0.00
ATOM	35	Co	111	1	0.343	-3.653	0.750	1.00	0.00
ATOM	36	N	111	1	-0.783	-3.554	2.563	1.00	0.00
ATOM	37	S	111	1	-1.231	-2.108	3.371	1.00	0.00
ATOM	38	O	111	1	-2.692	-1.991	3.612	1.00	0.00
ATOM	39	O	111	1	-0.554	-1.016	2.628	1.00	0.00
ATOM	40	C	111	1	-0.435	-2.187	5.007	1.00	0.00
ATOM	41	C	111	1	0.776	-2.145	7.521	1.00	0.00
ATOM	42	C	111	1	0.963	-2.300	5.095	1.00	0.00
ATOM	43	C	111	1	-1.236	-2.043	6.151	1.00	0.00
ATOM	44	C	111	1	-0.620	-2.022	7.415	1.00	0.00
ATOM	45	C	111	1	1.564	-2.284	6.363	1.00	0.00
ATOM	46	H	111	1	1.572	-2.397	4.181	1.00	0.00
ATOM	47	H	111	1	-2.326	-1.934	6.038	1.00	0.00
ATOM	48	H	111	1	-1.236	-1.902	8.321	1.00	0.00
ATOM	49	H	111	1	2.660	-2.374	6.448	1.00	0.00
ATOM	50	H	111	1	1.257	-2.127	8.514	1.00	0.00
ATOM	51	H	111	1	-0.223	-5.545	3.045	1.00	0.00
ATOM	52	C	111	1	-0.973	-4.791	3.355	1.00	0.00
ATOM	53	H	111	1	-0.907	-4.651	4.456	1.00	0.00
ATOM	54	C	111	1	-2.331	-4.994	2.814	1.00	0.00
ATOM	55	H	111	1	-2.365	-5.265	1.749	1.00	0.00
ATOM	56	C	111	1	-3.588	-4.836	3.482	1.00	0.00
ATOM	57	C	111	1	-6.138	-4.721	4.717	1.00	0.00

ATOM	58	C	111	1	-3.711	-4.674	4.894	1.00	0.00
ATOM	59	C	111	1	-4.786	-4.931	2.710	1.00	0.00
ATOM	60	C	111	1	-6.041	-4.874	3.320	1.00	0.00
ATOM	61	C	111	1	-4.968	-4.625	5.499	1.00	0.00
ATOM	62	H	111	1	-2.806	-4.593	5.516	1.00	0.00
ATOM	63	H	111	1	-4.702	-5.051	1.618	1.00	0.00
ATOM	64	H	111	1	-6.955	-4.948	2.708	1.00	0.00
ATOM	65	H	111	1	-5.047	-4.506	6.592	1.00	0.00
ATOM	66	H	111	1	-7.128	-4.675	5.200	1.00	0.00
ATOM	67	H	111	1	-3.562	-3.886	-1.505	1.00	0.00
ATOM	68	C	111	1	0.713	1.170	-0.402	1.00	0.00
ATOM	69	C	111	1	0.916	3.883	-1.140	1.00	0.00
ATOM	70	C	111	1	1.518	1.567	-1.489	1.00	0.00
ATOM	71	C	111	1	0.003	2.162	0.341	1.00	0.00
ATOM	72	C	111	1	0.113	3.520	-0.050	1.00	0.00
ATOM	73	C	111	1	1.629	2.914	-1.866	1.00	0.00
ATOM	74	H	111	1	2.060	0.787	-2.050	1.00	0.00
ATOM	75	H	111	1	-0.449	4.271	0.520	1.00	0.00
ATOM	76	H	111	1	2.261	3.201	-2.723	1.00	0.00
ATOM	77	H	111	1	0.984	4.947	-1.422	1.00	0.00
ATOM	78	N	111	1	-0.775	1.753	1.441	1.00	0.00
ATOM	79	H	111	1	-0.702	0.757	1.707	1.00	0.00
ATOM	80	C	111	1	-1.620	2.529	2.230	1.00	0.00
ATOM	81	O	111	1	-1.823	3.729	2.054	1.00	0.00
ATOM	82	C	111	1	-2.269	1.760	3.379	1.00	0.00
ATOM	83	H	111	1	-2.615	0.747	3.088	1.00	0.00
ATOM	84	H	111	1	-3.120	2.361	3.756	1.00	0.00
ATOM	85	H	111	1	-1.535	1.631	4.206	1.00	0.00
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CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	15	67						
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CONECT	13	14	15						
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CONECT	41	44	45	50					
CONECT	42	45	46						
CONECT	43	44	47						

CONECT 44 48
CONECT 45 49
CONECT 51 52
CONECT 52 53 54
CONECT 54 55 56
CONECT 56 58 59
CONECT 57 60 61 66
CONECT 58 61 62
CONECT 59 60 63
CONECT 60 64
CONECT 61 65
CONECT 68 70 71
CONECT 69 72 73 77
CONECT 70 73 74
CONECT 71 72 78
CONECT 72 75
CONECT 73 76
CONECT 78 79 80
CONECT 80 81 82
CONECT 82 83 84 85
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E_Co(PorAmide)

Xyz file

85

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C -2.5108793 -0.9211443 -1.2932148
H -3.4966406 -0.7019823 -1.7246961
C -1.4311209 -0.0903010 -1.1557525
C -2.9351834 -3.3295718 -0.8010289
N -1.2373802 -4.9510347 -0.0580529
C -1.2324220 -6.3387359 -0.0112263
C -2.5230896 -6.8758865 -0.3846616
H -2.7636885 -7.9466872 -0.4288830
C -3.3275706 -5.8000430 -0.6653580
H -4.3730171 -5.7910386 -1.0021575
C -2.5139868 -4.6175770 -0.4808783
C 0.8438056 -0.3252691 -0.1133960
H 4.7595179 -1.6002378 2.0446206
C 3.7651350 -1.6032680 1.5781163
C 2.9517775 -2.7832529 1.3844521
H 3.3534845 0.5016330 0.9799662
N 1.7493674 -2.4645133 0.7703272
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C 3.0656986 -0.5543967 1.0415764
C -0.1383985 -7.1252475 0.3479713
H -0.2565291 -8.2192110 0.3167836
H 4.1955533 -6.8036308 1.9712859
C 3.1931820 -6.5692110 1.5879042
C 2.2055674 -7.4300877 1.1790124
H 2.2141379 -8.5281973 1.1578281
C 1.0886652 -6.6108138 0.7628369
N 1.3859168 -5.2594745 0.8918904
C 2.6771185 -5.2312955 1.4007041

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N	-0.5837382	-3.5072113	2.7008581
S	-1.4382888	-2.0097959	3.0789758
O	-2.7629598	-2.1142742	2.4379750
O	-0.4623505	-0.9567760	2.7093127
C	-1.6761222	-1.8334630	4.8671046
C	-2.1027788	-1.3693271	7.5823149
C	-0.6255815	-1.3114313	5.6461278
C	-2.9387629	-2.1102579	5.4161500
C	-3.1463731	-1.8700450	6.7839089
C	-0.8452065	-1.0916904	7.0152980
H	0.3382503	-1.0585857	5.1772523
H	-3.7442588	-2.4961840	4.7736218
H	-4.1346633	-2.0738985	7.2266125
H	-0.0331989	-0.6837789	7.6391611
H	-2.2732226	-1.1831547	8.6554881
H	1.2563100	-4.4523721	3.3901855
C	0.2554637	-4.1457566	3.7376660
H	0.2166543	-3.7019927	4.7499897
C	-0.9716043	-4.8458771	3.2558072
H	-0.8224161	-5.6021637	2.4644737
C	-2.1785920	-5.1128664	4.1070633
C	-4.4584741	-5.7906724	5.6328426
C	-2.0592918	-5.4066695	5.4809086
C	-3.4527972	-5.1782769	3.4992546
C	-4.5851888	-5.5054641	4.2608425
C	-3.1924220	-5.7451469	6.2399496
H	-1.0678364	-5.3813655	5.9624248
H	-3.5516710	-4.9643611	2.4226586
H	-5.5746791	-5.5480063	3.7761596
H	-3.0828746	-5.9780161	7.3121193
H	-5.3482414	-6.0577944	6.2270159
H	-3.9675278	-3.1975547	-1.1592546
C	1.1217220	1.1250659	-0.3766240
C	1.6673657	3.8299646	-0.9715847
C	2.0482508	1.4766255	-1.3800723
C	0.4652695	2.1627936	0.3543502
C	0.7472501	3.5148177	0.0379618
C	2.3283090	2.8171734	-1.6858604
H	2.5457175	0.6655129	-1.9367831
H	0.2237625	4.2991433	0.5981414
H	3.0512309	3.0653502	-2.4799243
H	1.8691702	4.8904274	-1.1982428
N	-0.4383837	1.8013609	1.3726762
H	-0.4668166	0.7975656	1.6115030
C	-1.3236135	2.6179125	2.0677023
O	-1.4135027	3.8337203	1.9114009
C	-2.1912721	1.8626825	3.0739836
H	-2.7017729	0.9900297	2.6114056
H	-2.9450676	2.5679112	3.4757611
H	-1.5716395	1.4770489	3.9135139

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	-0.386	-0.869	-0.520	1.00	0.00
ATOM	2	N	111	1	-0.802	-2.178	-0.317	1.00	0.00
ATOM	3	H	111	1	-1.335	0.962	-1.449	1.00	0.00
ATOM	4	C	111	1	-2.108	-2.211	-0.779	1.00	0.00
ATOM	5	C	111	1	-2.511	-0.921	-1.293	1.00	0.00
ATOM	6	H	111	1	-3.497	-0.702	-1.725	1.00	0.00
ATOM	7	C	111	1	-1.431	-0.090	-1.156	1.00	0.00
ATOM	8	C	111	1	-2.935	-3.330	-0.801	1.00	0.00
ATOM	9	N	111	1	-1.237	-4.951	-0.058	1.00	0.00
ATOM	10	C	111	1	-1.232	-6.339	-0.011	1.00	0.00
ATOM	11	C	111	1	-2.523	-6.876	-0.385	1.00	0.00
ATOM	12	H	111	1	-2.764	-7.947	-0.429	1.00	0.00
ATOM	13	C	111	1	-3.328	-5.800	-0.665	1.00	0.00
ATOM	14	H	111	1	-4.373	-5.791	-1.002	1.00	0.00
ATOM	15	C	111	1	-2.514	-4.618	-0.481	1.00	0.00
ATOM	16	C	111	1	0.844	-0.325	-0.113	1.00	0.00
ATOM	17	H	111	1	4.760	-1.600	2.045	1.00	0.00
ATOM	18	C	111	1	3.765	-1.603	1.578	1.00	0.00
ATOM	19	C	111	1	2.952	-2.783	1.384	1.00	0.00
ATOM	20	H	111	1	3.353	0.502	0.980	1.00	0.00
ATOM	21	N	111	1	1.749	-2.465	0.770	1.00	0.00
ATOM	22	C	111	1	1.820	-1.099	0.536	1.00	0.00
ATOM	23	C	111	1	3.066	-0.554	1.042	1.00	0.00
ATOM	24	C	111	1	-0.138	-7.125	0.348	1.00	0.00
ATOM	25	H	111	1	-0.257	-8.219	0.317	1.00	0.00
ATOM	26	H	111	1	4.196	-6.804	1.971	1.00	0.00
ATOM	27	C	111	1	3.193	-6.569	1.588	1.00	0.00
ATOM	28	C	111	1	2.206	-7.430	1.179	1.00	0.00
ATOM	29	H	111	1	2.214	-8.528	1.158	1.00	0.00
ATOM	30	C	111	1	1.089	-6.611	0.763	1.00	0.00
ATOM	31	N	111	1	1.386	-5.259	0.892	1.00	0.00
ATOM	32	C	111	1	2.677	-5.231	1.401	1.00	0.00
ATOM	33	C	111	1	3.392	-4.070	1.690	1.00	0.00
ATOM	34	H	111	1	4.395	-4.177	2.132	1.00	0.00
ATOM	35	Co	111	1	0.229	-3.691	0.437	1.00	0.00
ATOM	36	N	111	1	-0.584	-3.507	2.701	1.00	0.00
ATOM	37	S	111	1	-1.438	-2.010	3.079	1.00	0.00
ATOM	38	O	111	1	-2.763	-2.114	2.438	1.00	0.00
ATOM	39	O	111	1	-0.462	-0.957	2.709	1.00	0.00
ATOM	40	C	111	1	-1.676	-1.833	4.867	1.00	0.00
ATOM	41	C	111	1	-2.103	-1.369	7.582	1.00	0.00
ATOM	42	C	111	1	-0.626	-1.311	5.646	1.00	0.00
ATOM	43	C	111	1	-2.939	-2.110	5.416	1.00	0.00
ATOM	44	C	111	1	-3.146	-1.870	6.784	1.00	0.00
ATOM	45	C	111	1	-0.845	-1.092	7.015	1.00	0.00
ATOM	46	H	111	1	0.338	-1.059	5.177	1.00	0.00
ATOM	47	H	111	1	-3.744	-2.496	4.774	1.00	0.00
ATOM	48	H	111	1	-4.135	-2.074	7.227	1.00	0.00
ATOM	49	H	111	1	-0.033	-0.684	7.639	1.00	0.00
ATOM	50	H	111	1	-2.273	-1.183	8.655	1.00	0.00
ATOM	51	H	111	1	1.256	-4.452	3.390	1.00	0.00
ATOM	52	C	111	1	0.255	-4.146	3.738	1.00	0.00
ATOM	53	H	111	1	0.217	-3.702	4.750	1.00	0.00
ATOM	54	C	111	1	-0.972	-4.846	3.256	1.00	0.00
ATOM	55	H	111	1	-0.822	-5.602	2.464	1.00	0.00
ATOM	56	C	111	1	-2.179	-5.113	4.107	1.00	0.00
ATOM	57	C	111	1	-4.458	-5.791	5.633	1.00	0.00

ATOM	58	C	111	1	-2.059	-5.407	5.481	1.00	0.00
ATOM	59	C	111	1	-3.453	-5.178	3.499	1.00	0.00
ATOM	60	C	111	1	-4.585	-5.505	4.261	1.00	0.00
ATOM	61	C	111	1	-3.192	-5.745	6.240	1.00	0.00
ATOM	62	H	111	1	-1.068	-5.381	5.962	1.00	0.00
ATOM	63	H	111	1	-3.552	-4.964	2.423	1.00	0.00
ATOM	64	H	111	1	-5.575	-5.548	3.776	1.00	0.00
ATOM	65	H	111	1	-3.083	-5.978	7.312	1.00	0.00
ATOM	66	H	111	1	-5.348	-6.058	6.227	1.00	0.00
ATOM	67	H	111	1	-3.968	-3.198	-1.159	1.00	0.00
ATOM	68	C	111	1	1.122	1.125	-0.377	1.00	0.00
ATOM	69	C	111	1	1.667	3.830	-0.972	1.00	0.00
ATOM	70	C	111	1	2.048	1.477	-1.380	1.00	0.00
ATOM	71	C	111	1	0.465	2.163	0.354	1.00	0.00
ATOM	72	C	111	1	0.747	3.515	0.038	1.00	0.00
ATOM	73	C	111	1	2.328	2.817	-1.686	1.00	0.00
ATOM	74	H	111	1	2.546	0.666	-1.937	1.00	0.00
ATOM	75	H	111	1	0.224	4.299	0.598	1.00	0.00
ATOM	76	H	111	1	3.051	3.065	-2.480	1.00	0.00
ATOM	77	H	111	1	1.869	4.890	-1.198	1.00	0.00
ATOM	78	N	111	1	-0.438	1.801	1.373	1.00	0.00
ATOM	79	H	111	1	-0.467	0.798	1.612	1.00	0.00
ATOM	80	C	111	1	-1.324	2.618	2.068	1.00	0.00
ATOM	81	O	111	1	-1.414	3.834	1.911	1.00	0.00
ATOM	82	C	111	1	-2.191	1.863	3.074	1.00	0.00
ATOM	83	H	111	1	-2.702	0.990	2.611	1.00	0.00
ATOM	84	H	111	1	-2.945	2.568	3.476	1.00	0.00
ATOM	85	H	111	1	-1.572	1.477	3.914	1.00	0.00
CONECT	1	2	7	16					
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CONECT	3	7							
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CONECT	20	23							
CONECT	21	22	35						
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CONECT	42	45	46						
CONECT	43	44	47						
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CONECT 45 49
CONECT 51 52
CONECT 52 53 54
CONECT 54 55 56
CONECT 56 58 59
CONECT 57 60 61 66
CONECT 58 61 62
CONECT 59 60 63
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CONECT 61 65
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CONECT 69 72 73 77
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4A_Co(por)

Xyz file

37

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C -0.9230471 -0.8623824 0.6399738
C -1.5140829 0.4512298 0.4689959
H -2.5919638 0.6570008 0.4131910
C -0.4716709 1.3479493 0.3955960
C -1.6488986 -2.0590018 0.7567301
H -2.7470757 -1.9818751 0.7138276
N 0.2410333 -3.6339218 0.9974460
C 0.3363625 -5.0024980 1.1583991
C -0.9874733 -5.5948972 1.1850503
H -1.1980331 -6.6670261 1.3012017
C -1.8864785 -4.5621948 1.0386549
H -2.9836095 -4.6158444 1.0114867
C -1.1074781 -3.3443279 0.9219350
C 2.0460964 1.1204292 0.4984665
H 2.1275849 2.2120985 0.3742238
H 6.5677103 0.0166806 0.7647285
C 5.4705782 -0.0369650 0.7375945
C 4.6915783 -1.2548344 0.8542938
H 4.7821290 2.0678805 0.4751699
N 3.3430652 -0.9652342 0.7788366
C 3.2477344 0.4033483 0.6179398
C 4.5715707 0.9957464 0.5912760
C 1.5379990 -5.7195741 1.2779122
H 1.4565091 -6.8112378 1.4022021
H 6.1760663 -5.2561722 1.3629584
C 5.0981836 -5.0503946 1.3072113
C 4.0557690 -5.9471044 1.3806951
H 4.1057716 -7.0371304 1.5096186
C 2.8332105 -5.1771213 1.2537880
N 3.1296920 -3.8360804 1.1058901
C 4.5071475 -3.7367819 1.1362395
C 5.2330003 -2.5401669 1.0194443

H 6.3311792 -2.6173003 1.0622919
 Co 1.7920483 -2.2995783 0.8881424

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.751	0.578	0.523	1.00	0.00
ATOM	2	N	111	1	0.454	-0.763	0.670	1.00	0.00
ATOM	3	H	111	1	-0.522	2.438	0.267	1.00	0.00
ATOM	4	C	111	1	-0.923	-0.862	0.640	1.00	0.00
ATOM	5	C	111	1	-1.514	0.451	0.469	1.00	0.00
ATOM	6	H	111	1	-2.592	0.657	0.413	1.00	0.00
ATOM	7	C	111	1	-0.472	1.348	0.396	1.00	0.00
ATOM	8	C	111	1	-1.649	-2.059	0.757	1.00	0.00
ATOM	9	H	111	1	-2.747	-1.982	0.714	1.00	0.00
ATOM	10	N	111	1	0.241	-3.634	0.997	1.00	0.00
ATOM	11	C	111	1	0.336	-5.002	1.158	1.00	0.00
ATOM	12	C	111	1	-0.987	-5.595	1.185	1.00	0.00
ATOM	13	H	111	1	-1.198	-6.667	1.301	1.00	0.00
ATOM	14	C	111	1	-1.886	-4.562	1.039	1.00	0.00
ATOM	15	H	111	1	-2.984	-4.616	1.011	1.00	0.00
ATOM	16	C	111	1	-1.107	-3.344	0.922	1.00	0.00
ATOM	17	C	111	1	2.046	1.120	0.498	1.00	0.00
ATOM	18	H	111	1	2.128	2.212	0.374	1.00	0.00
ATOM	19	H	111	1	6.568	0.017	0.765	1.00	0.00
ATOM	20	C	111	1	5.471	-0.037	0.738	1.00	0.00
ATOM	21	C	111	1	4.692	-1.255	0.854	1.00	0.00
ATOM	22	H	111	1	4.782	2.068	0.475	1.00	0.00
ATOM	23	N	111	1	3.343	-0.965	0.779	1.00	0.00
ATOM	24	C	111	1	3.248	0.403	0.618	1.00	0.00
ATOM	25	C	111	1	4.572	0.996	0.591	1.00	0.00
ATOM	26	C	111	1	1.538	-5.720	1.278	1.00	0.00
ATOM	27	H	111	1	1.457	-6.811	1.402	1.00	0.00
ATOM	28	H	111	1	6.176	-5.256	1.363	1.00	0.00
ATOM	29	C	111	1	5.098	-5.050	1.307	1.00	0.00
ATOM	30	C	111	1	4.056	-5.947	1.381	1.00	0.00
ATOM	31	H	111	1	4.106	-7.037	1.510	1.00	0.00
ATOM	32	C	111	1	2.833	-5.177	1.254	1.00	0.00
ATOM	33	N	111	1	3.130	-3.836	1.106	1.00	0.00
ATOM	34	C	111	1	4.507	-3.737	1.136	1.00	0.00
ATOM	35	C	111	1	5.233	-2.540	1.019	1.00	0.00
ATOM	36	H	111	1	6.331	-2.617	1.062	1.00	0.00
ATOM	37	Co	111	1	1.792	-2.300	0.888	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	37						
CONECT	3		7						
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	37					
CONECT	11	12	26						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	18	24						
CONECT	19		20						
CONECT	20	21	25						
CONECT	21	23	35						
CONECT	22		25						
CONECT	23	24	37						

CONECT 24 25
CONECT 26 27 32
CONECT 28 29
CONECT 29 30 34
CONECT 30 31 32
CONECT 32 33
CONECT 33 34 37
CONECT 34 35
CONECT 35 36
END

4B_Co(por)

XYZ file

54

Energy = -3314.607239738
C 0.7932086 -0.0654984 -0.6975131
N 0.3360837 -1.3615641 -0.5684316
H 0.1297114 1.7077105 -1.9509604
C -0.7388893 -1.4820082 -1.4216417
C -0.9785118 -0.2209244 -2.1044013
H -1.7737701 -0.0430298 -2.8416268
C -0.0206138 0.6595227 -1.6579328
C -1.4665051 -2.6644504 -1.6445750
H -2.3032322 -2.6025628 -2.3589539
N -0.1951853 -4.2091473 -0.1929693
C -0.2445719 -5.5685620 0.0370055
C -1.3126100 -6.1694172 -0.7420948
H -1.5657606 -7.2385208 -0.7485224
C -1.9109170 -5.1486683 -1.4428535
H -2.7550391 -5.2089784 -2.1437923
C -1.1992459 -3.9298180 -1.0952303
C 1.8857824 0.4723052 0.0034424
H 2.1364905 1.5265113 -0.1955358
H 5.1817715 -0.5603129 3.1373844
C 4.3219209 -0.6157006 2.4551887
C 3.5073719 -1.7987177 2.2312504
H 4.1701907 1.4067789 1.5283125
N 2.5179014 -1.5250598 1.3115588
C 2.6879307 -0.2076140 0.9364266
C 3.8144893 0.3738148 1.6451806
C 0.6104050 -6.2688752 0.9019761
H 0.4554348 -7.3564617 0.9855802
H 4.2248804 -5.7361226 3.8045850
C 3.3980777 -5.5464960 3.1055701
C 2.5247142 -6.4584455 2.5534584
H 2.4887650 -7.5456072 2.7097471
C 1.6438428 -5.7113220 1.6737771
N 1.9741600 -4.3708615 1.7010006
C 3.0478428 -4.2473921 2.5586037
C 3.7372377 -3.0516618 2.8263449
H 4.5772460 -3.1140693 3.5369807
Co 0.9750314 -2.8201786 0.7739796
N -0.3354177 -2.1597655 2.3472307
S -1.4960086 -3.1084451 3.4445542
O -1.5620294 -4.4218982 2.7975661
O -2.6632987 -2.2320808 3.6528352
C -0.5523016 -3.2148907 4.9666406
C 0.8894603 -3.3862321 7.3337711
C -0.8411434 -2.3080045 6.0014960

C	0.4353584	-4.2077507	5.0837406
C	1.1576257	-4.2843573	6.2845746
C	-0.1067745	-2.4030868	7.1942667
H	-1.6353500	-1.5568023	5.8737843
H	0.6316715	-4.9066204	4.2559435
H	1.9364100	-5.0555051	6.3964274
H	-0.3193708	-1.7062365	8.0211453
H	1.4621182	-3.4548210	8.2732152
N	-0.4480983	-0.9251981	2.4990059
N	-0.4906686	0.2195448	2.5737991

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.793	-0.065	-0.698	1.00	0.00
ATOM	2	N	111	1	0.336	-1.362	-0.568	1.00	0.00
ATOM	3	H	111	1	0.130	1.708	-1.951	1.00	0.00
ATOM	4	C	111	1	-0.739	-1.482	-1.422	1.00	0.00
ATOM	5	C	111	1	-0.979	-0.221	-2.104	1.00	0.00
ATOM	6	H	111	1	-1.774	-0.043	-2.842	1.00	0.00
ATOM	7	C	111	1	-0.021	0.660	-1.658	1.00	0.00
ATOM	8	C	111	1	-1.467	-2.664	-1.645	1.00	0.00
ATOM	9	H	111	1	-2.303	-2.603	-2.359	1.00	0.00
ATOM	10	N	111	1	-0.195	-4.209	-0.193	1.00	0.00
ATOM	11	C	111	1	-0.245	-5.569	0.037	1.00	0.00
ATOM	12	C	111	1	-1.313	-6.169	-0.742	1.00	0.00
ATOM	13	H	111	1	-1.566	-7.239	-0.749	1.00	0.00
ATOM	14	C	111	1	-1.911	-5.149	-1.443	1.00	0.00
ATOM	15	H	111	1	-2.755	-5.209	-2.144	1.00	0.00
ATOM	16	C	111	1	-1.199	-3.930	-1.095	1.00	0.00
ATOM	17	C	111	1	1.886	0.472	0.003	1.00	0.00
ATOM	18	H	111	1	2.136	1.527	-0.196	1.00	0.00
ATOM	19	H	111	1	5.182	-0.560	3.137	1.00	0.00
ATOM	20	C	111	1	4.322	-0.616	2.455	1.00	0.00
ATOM	21	C	111	1	3.507	-1.799	2.231	1.00	0.00
ATOM	22	H	111	1	4.170	1.407	1.528	1.00	0.00
ATOM	23	N	111	1	2.518	-1.525	1.312	1.00	0.00
ATOM	24	C	111	1	2.688	-0.208	0.936	1.00	0.00
ATOM	25	C	111	1	3.814	0.374	1.645	1.00	0.00
ATOM	26	C	111	1	0.610	-6.269	0.902	1.00	0.00
ATOM	27	H	111	1	0.455	-7.356	0.986	1.00	0.00
ATOM	28	H	111	1	4.225	-5.736	3.805	1.00	0.00
ATOM	29	C	111	1	3.398	-5.546	3.106	1.00	0.00
ATOM	30	C	111	1	2.525	-6.458	2.553	1.00	0.00
ATOM	31	H	111	1	2.489	-7.546	2.710	1.00	0.00
ATOM	32	C	111	1	1.644	-5.711	1.674	1.00	0.00
ATOM	33	N	111	1	1.974	-4.371	1.701	1.00	0.00
ATOM	34	C	111	1	3.048	-4.247	2.559	1.00	0.00
ATOM	35	C	111	1	3.737	-3.052	2.826	1.00	0.00
ATOM	36	H	111	1	4.577	-3.114	3.537	1.00	0.00
ATOM	37	Co	111	1	0.975	-2.820	0.774	1.00	0.00
ATOM	38	N	111	1	-0.335	-2.160	2.347	1.00	0.00
ATOM	39	S	111	1	-1.496	-3.108	3.445	1.00	0.00
ATOM	40	O	111	1	-1.562	-4.422	2.798	1.00	0.00
ATOM	41	O	111	1	-2.663	-2.232	3.653	1.00	0.00
ATOM	42	C	111	1	-0.552	-3.215	4.967	1.00	0.00
ATOM	43	C	111	1	0.889	-3.386	7.334	1.00	0.00
ATOM	44	C	111	1	-0.841	-2.308	6.001	1.00	0.00
ATOM	45	C	111	1	0.435	-4.208	5.084	1.00	0.00
ATOM	46	C	111	1	1.158	-4.284	6.285	1.00	0.00

ATOM	47	C	111	1	-0.107	-2.403	7.194	1.00	0.00
ATOM	48	H	111	1	-1.635	-1.557	5.874	1.00	0.00
ATOM	49	H	111	1	0.632	-4.907	4.256	1.00	0.00
ATOM	50	H	111	1	1.936	-5.056	6.396	1.00	0.00
ATOM	51	H	111	1	-0.319	-1.706	8.021	1.00	0.00
ATOM	52	H	111	1	1.462	-3.455	8.273	1.00	0.00
ATOM	53	N	111	1	-0.448	-0.925	2.499	1.00	0.00
ATOM	54	N	111	1	-0.491	0.220	2.574	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	37						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	37					
CONECT	11	12	26						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	18	24						
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CONECT	21	23	35						
CONECT	22	25							
CONECT	23	24	37						
CONECT	24	25							
CONECT	26	27	32						
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CONECT	29	30	34						
CONECT	30	31	32						
CONECT	32	33							
CONECT	33	34	37						
CONECT	34	35							
CONECT	35	36							
CONECT	37	38							
CONECT	38	39	53						
CONECT	39	40	41	42					
CONECT	42	44	45						
CONECT	43	46	47	52					
CONECT	44	47	48						
CONECT	45	46	49						
CONECT	46	50							
CONECT	47	51							
CONECT	53	54							
END									

4TS1_Co(por)
 XYZ file
 54
 Energy = -3314.583455382
 C 0.2216503 0.1206110 0.6344595
 N 0.1914943 -1.2017390 0.2283591
 H -1.1405311 1.8922299 0.3171831
 C -0.9641675 -1.3344851 -0.5218832
 C -1.6531947 -0.0679976 -0.6168863
 H -2.5886948 0.0923352 -1.1690590
 C -0.9325307 0.8302169 0.1310695
 C -1.4529654 -2.5327289 -1.0370800
 H -2.3891251 -2.5050480 -1.6144161
 N 0.2806505 -3.9845343 -0.0533471
 C 0.4072152 -5.3559928 0.0636206

C	-0.7082556	-6.0234060	-0.5730144
H	-0.8376342	-7.1130223	-0.6223398
C	-1.4987927	-5.0395211	-1.1133439
H	-2.4281617	-5.1430443	-1.6890644
C	-0.8889374	-3.7764879	-0.7606948
C	1.2724624	0.7244414	1.3227597
H	1.1694381	1.7847067	1.5982234
H	5.7865180	0.0360705	2.1441723
C	4.7232583	-0.1119722	1.9128730
C	4.1416664	-1.3681193	1.4947838
H	3.7318473	1.8563633	2.2606331
N	2.7841911	-1.2211888	1.2669103
C	2.4996786	0.1015130	1.5503795
C	3.6948385	0.7957541	1.9782086
C	1.5173292	-6.0171984	0.5893498
H	1.4989705	-7.1170890	0.6207683
H	5.9883666	-5.1924677	1.5241269
C	4.9136038	-5.0762451	1.3308111
C	3.9550683	-6.0504755	1.1914290
H	4.0748030	-7.1415981	1.2303945
C	2.7054589	-5.3701755	0.9325738
N	2.8884945	-3.9997078	0.9486277
C	4.2352075	-3.8064336	1.2071505
C	4.8438208	-2.5698823	1.4160677
H	5.9248591	-2.5522919	1.6193698
Co	1.4412622	-2.6324962	0.8339764
N	0.7400581	-2.8197527	2.6579732
S	-0.8460379	-2.4250362	3.1826131
O	-1.7493293	-2.9294881	2.1215837
O	-0.8944523	-1.0051593	3.6084928
C	-1.1107004	-3.4468098	4.6527501
C	-1.5790946	-5.0155229	6.9085435
C	-0.9472740	-2.8774147	5.9258703
C	-1.5113320	-4.7832003	4.4841410
C	-1.7434596	-5.5680677	5.6248703
C	-1.1847466	-3.6737825	7.0582727
H	-0.6486490	-1.8218203	6.0135013
H	-1.6486137	-5.1894905	3.4701468
H	-2.0618902	-6.6175956	5.5111782
H	-1.0631092	-3.2415313	8.0652039
H	-1.7649665	-5.6359585	7.8009004
N	2.7939465	-2.9082019	3.9104790
N	1.6517568	-2.6652685	3.9285822

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.222	0.121	0.634	1.00	0.00
ATOM	2	N	111	1	0.191	-1.202	0.228	1.00	0.00
ATOM	3	H	111	1	-1.141	1.892	0.317	1.00	0.00
ATOM	4	C	111	1	-0.964	-1.334	-0.522	1.00	0.00
ATOM	5	C	111	1	-1.653	-0.068	-0.617	1.00	0.00
ATOM	6	H	111	1	-2.589	0.092	-1.169	1.00	0.00
ATOM	7	C	111	1	-0.933	0.830	0.131	1.00	0.00
ATOM	8	C	111	1	-1.453	-2.533	-1.037	1.00	0.00
ATOM	9	H	111	1	-2.389	-2.505	-1.614	1.00	0.00
ATOM	10	N	111	1	0.281	-3.985	-0.053	1.00	0.00
ATOM	11	C	111	1	0.407	-5.356	0.064	1.00	0.00
ATOM	12	C	111	1	-0.708	-6.023	-0.573	1.00	0.00
ATOM	13	H	111	1	-0.838	-7.113	-0.622	1.00	0.00

ATOM	14	C	111	1	-1.499	-5.040	-1.113	1.00	0.00
ATOM	15	H	111	1	-2.428	-5.143	-1.689	1.00	0.00
ATOM	16	C	111	1	-0.889	-3.776	-0.761	1.00	0.00
ATOM	17	C	111	1	1.272	0.724	1.323	1.00	0.00
ATOM	18	H	111	1	1.169	1.785	1.598	1.00	0.00
ATOM	19	H	111	1	5.787	0.036	2.144	1.00	0.00
ATOM	20	C	111	1	4.723	-0.112	1.913	1.00	0.00
ATOM	21	C	111	1	4.142	-1.368	1.495	1.00	0.00
ATOM	22	H	111	1	3.732	1.856	2.261	1.00	0.00
ATOM	23	N	111	1	2.784	-1.221	1.267	1.00	0.00
ATOM	24	C	111	1	2.500	0.102	1.550	1.00	0.00
ATOM	25	C	111	1	3.695	0.796	1.978	1.00	0.00
ATOM	26	C	111	1	1.517	-6.017	0.589	1.00	0.00
ATOM	27	H	111	1	1.499	-7.117	0.621	1.00	0.00
ATOM	28	H	111	1	5.988	-5.192	1.524	1.00	0.00
ATOM	29	C	111	1	4.914	-5.076	1.331	1.00	0.00
ATOM	30	C	111	1	3.955	-6.050	1.191	1.00	0.00
ATOM	31	H	111	1	4.075	-7.142	1.230	1.00	0.00
ATOM	32	C	111	1	2.705	-5.370	0.933	1.00	0.00
ATOM	33	N	111	1	2.888	-4.000	0.949	1.00	0.00
ATOM	34	C	111	1	4.235	-3.806	1.207	1.00	0.00
ATOM	35	C	111	1	4.844	-2.570	1.416	1.00	0.00
ATOM	36	H	111	1	5.925	-2.552	1.619	1.00	0.00
ATOM	37	Co	111	1	1.441	-2.632	0.834	1.00	0.00
ATOM	38	N	111	1	0.740	-2.820	2.658	1.00	0.00
ATOM	39	S	111	1	-0.846	-2.425	3.183	1.00	0.00
ATOM	40	O	111	1	-1.749	-2.929	2.122	1.00	0.00
ATOM	41	O	111	1	-0.894	-1.005	3.608	1.00	0.00
ATOM	42	C	111	1	-1.111	-3.447	4.653	1.00	0.00
ATOM	43	C	111	1	-1.579	-5.016	6.909	1.00	0.00
ATOM	44	C	111	1	-0.947	-2.877	5.926	1.00	0.00
ATOM	45	C	111	1	-1.511	-4.783	4.484	1.00	0.00
ATOM	46	C	111	1	-1.743	-5.568	5.625	1.00	0.00
ATOM	47	C	111	1	-1.185	-3.674	7.058	1.00	0.00
ATOM	48	H	111	1	-0.649	-1.822	6.014	1.00	0.00
ATOM	49	H	111	1	-1.649	-5.189	3.470	1.00	0.00
ATOM	50	H	111	1	-2.062	-6.618	5.511	1.00	0.00
ATOM	51	H	111	1	-1.063	-3.242	8.065	1.00	0.00
ATOM	52	H	111	1	-1.765	-5.636	7.801	1.00	0.00
ATOM	53	N	111	1	2.794	-2.908	3.910	1.00	0.00
ATOM	54	N	111	1	1.652	-2.665	3.929	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	37						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	37					
CONECT	11	12	26						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	18	24						
CONECT	19	20							
CONECT	20	21	25						
CONECT	21	23	35						
CONECT	22	25							
CONECT	23	24	37						
CONECT	24	25							
CONECT	26	27	32						
CONECT	28	29							

CONECT 29 30 34
CONECT 30 31 32
CONECT 32 33
CONECT 33 34 37
CONECT 34 35
CONECT 35 36
CONECT 37 38
CONECT 38 39 54
CONECT 39 40 41 42
CONECT 42 44 45
CONECT 43 46 47 52
CONECT 44 47 48
CONECT 45 46 49
CONECT 46 50
CONECT 47 51
CONECT 53 54
END

4C_Co(por)

XYZ file

52

Energy = -3207.0071099820

C	0.3424128	-0.2240022	-0.3064677
N	0.1013842	-1.5843737	-0.2614804
H	-0.7931396	1.5544704	-1.1101568
C	-1.1527298	-1.7511297	-0.8186640
C	-1.6882385	-0.4834745	-1.2632867
H	-2.6648087	-0.3558592	-1.7489147
C	-0.7542205	0.4696133	-0.9448534
C	-1.8299865	-2.9620710	-0.9304758
H	-2.8367183	-2.9505467	-1.3736613
N	-0.0654866	-4.3937767	0.0386769
C	0.0346625	-5.7615761	0.2217453
C	-1.1654687	-6.4272336	-0.2368892
H	-1.3230062	-7.5138117	-0.2099866
C	-2.0050555	-5.4466317	-0.6998172
H	-3.0067629	-5.5467804	-1.1383986
C	-1.3114515	-4.1890381	-0.5241504
C	1.4686205	0.4123131	0.2073510
H	1.5236891	1.5082051	0.1262268
H	5.5407625	-0.4451954	2.2524068
C	4.5441471	-0.5508057	1.8032230
C	3.8667543	-1.8132354	1.6004171
H	3.8694233	1.5098440	1.2768723
N	2.6374544	-1.6161354	0.9972235
C	2.5301149	-0.2491090	0.8199104
C	3.7109219	0.4238620	1.3163561
C	1.1417442	-6.4323977	0.7352108
H	1.0905040	-7.5291588	0.8096159
H	5.3822477	-5.6842266	2.4623124
C	4.3834056	-5.5519506	2.0252480
C	3.4591246	-6.5078419	1.6839677
H	3.5297815	-7.5996853	1.7790925
C	2.3121705	-5.8031327	1.1554647
N	2.5365004	-4.4393578	1.1497532
C	3.7932875	-4.2722693	1.7001678
C	4.4190528	-3.0483895	1.9311066
H	5.4175770	-3.0590559	2.3932402

Co	1.1911031	-2.9866362	0.7312014
N	0.3953351	-2.7694460	2.3514833
S	-0.7970486	-1.9646353	3.1387010
O	-2.1123355	-2.4169196	2.6038706
O	-0.4696543	-0.5109907	3.1435692
C	-0.6721427	-2.5548144	4.8400810
C	-0.4479423	-3.4927718	7.4583675
C	0.1782201	-1.8854089	5.7375214
C	-1.4178707	-3.6804967	5.2311395
C	-1.3002826	-4.1472109	6.5499856
C	0.2872837	-2.3635220	7.0529406
H	0.7293064	-0.9937564	5.4002731
H	-2.0890666	-4.1653111	4.5050110
H	-1.8838442	-5.0252829	6.8736603
H	0.9467390	-1.8464392	7.7697431
H	-0.3606519	-3.8622363	8.4936855

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.342	-0.224	-0.306	1.00	0.00
ATOM	2	N	111	1	0.101	-1.584	-0.261	1.00	0.00
ATOM	3	H	111	1	-0.793	1.554	-1.110	1.00	0.00
ATOM	4	C	111	1	-1.153	-1.751	-0.819	1.00	0.00
ATOM	5	C	111	1	-1.688	-0.483	-1.263	1.00	0.00
ATOM	6	H	111	1	-2.665	-0.356	-1.749	1.00	0.00
ATOM	7	C	111	1	-0.754	0.470	-0.945	1.00	0.00
ATOM	8	C	111	1	-1.830	-2.962	-0.930	1.00	0.00
ATOM	9	H	111	1	-2.837	-2.951	-1.374	1.00	0.00
ATOM	10	N	111	1	-0.065	-4.394	0.039	1.00	0.00
ATOM	11	C	111	1	0.035	-5.762	0.222	1.00	0.00
ATOM	12	C	111	1	-1.165	-6.427	-0.237	1.00	0.00
ATOM	13	H	111	1	-1.323	-7.514	-0.210	1.00	0.00
ATOM	14	C	111	1	-2.005	-5.447	-0.700	1.00	0.00
ATOM	15	H	111	1	-3.007	-5.547	-1.138	1.00	0.00
ATOM	16	C	111	1	-1.311	-4.189	-0.524	1.00	0.00
ATOM	17	C	111	1	1.469	0.412	0.207	1.00	0.00
ATOM	18	H	111	1	1.524	1.508	0.126	1.00	0.00
ATOM	19	H	111	1	5.541	-0.445	2.252	1.00	0.00
ATOM	20	C	111	1	4.544	-0.551	1.803	1.00	0.00
ATOM	21	C	111	1	3.867	-1.813	1.600	1.00	0.00
ATOM	22	H	111	1	3.869	1.510	1.277	1.00	0.00
ATOM	23	N	111	1	2.637	-1.616	0.997	1.00	0.00
ATOM	24	C	111	1	2.530	-0.249	0.820	1.00	0.00
ATOM	25	C	111	1	3.711	0.424	1.316	1.00	0.00
ATOM	26	C	111	1	1.142	-6.432	0.735	1.00	0.00
ATOM	27	H	111	1	1.091	-7.529	0.810	1.00	0.00
ATOM	28	H	111	1	5.382	-5.684	2.462	1.00	0.00
ATOM	29	C	111	1	4.383	-5.552	2.025	1.00	0.00
ATOM	30	C	111	1	3.459	-6.508	1.684	1.00	0.00
ATOM	31	H	111	1	3.530	-7.600	1.779	1.00	0.00
ATOM	32	C	111	1	2.312	-5.803	1.155	1.00	0.00
ATOM	33	N	111	1	2.537	-4.439	1.150	1.00	0.00
ATOM	34	C	111	1	3.793	-4.272	1.700	1.00	0.00
ATOM	35	C	111	1	4.419	-3.048	1.931	1.00	0.00
ATOM	36	H	111	1	5.418	-3.059	2.393	1.00	0.00
ATOM	37	Co	111	1	1.191	-2.987	0.731	1.00	0.00
ATOM	38	N	111	1	0.395	-2.769	2.351	1.00	0.00
ATOM	39	S	111	1	-0.797	-1.965	3.139	1.00	0.00

ATOM	40	O	111	1	-2.112	-2.417	2.604	1.00	0.00
ATOM	41	O	111	1	-0.470	-0.511	3.144	1.00	0.00
ATOM	42	C	111	1	-0.672	-2.555	4.840	1.00	0.00
ATOM	43	C	111	1	-0.448	-3.493	7.458	1.00	0.00
ATOM	44	C	111	1	0.178	-1.885	5.738	1.00	0.00
ATOM	45	C	111	1	-1.418	-3.680	5.231	1.00	0.00
ATOM	46	C	111	1	-1.300	-4.147	6.550	1.00	0.00
ATOM	47	C	111	1	0.287	-2.364	7.053	1.00	0.00
ATOM	48	H	111	1	0.729	-0.994	5.400	1.00	0.00
ATOM	49	H	111	1	-2.089	-4.165	4.505	1.00	0.00
ATOM	50	H	111	1	-1.884	-5.025	6.874	1.00	0.00
ATOM	51	H	111	1	0.947	-1.846	7.770	1.00	0.00
ATOM	52	H	111	1	-0.361	-3.862	8.494	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	37						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	37					
CONECT	11	12	26						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	18	24						
CONECT	19	20							
CONECT	20	21	25						
CONECT	21	23	35						
CONECT	22	25							
CONECT	23	24	37						
CONECT	24	25							
CONECT	26	27	32						
CONECT	28	29							
CONECT	29	30	34						
CONECT	30	31	32						
CONECT	32	33							
CONECT	33	34	37						
CONECT	34	35							
CONECT	35	36							
CONECT	37	38							
CONECT	38	39							
CONECT	39	40	41	42					
CONECT	42	44	45						
CONECT	43	46	47	52					
CONECT	44	47	48						
CONECT	45	46	49						
CONECT	46	50							
CONECT	47	51							
END									

4TS2_Co(por)

Xyz file

68

Energy = -3516.7453726860

C	-0.4742377	-0.3018365	0.7192547
N	-0.3623410	-1.6748849	0.8189279
H	-2.0390173	1.0938659	-0.1212253
C	-1.5338802	-2.1813722	0.2866171
C	-2.3956959	-1.1076415	-0.1593457
H	-3.3825987	-1.2503350	-0.6194308
C	-1.7219580	0.0626676	0.0835873
C	-1.8069467	-3.5335307	0.0903364
H	-2.7796565	-3.8065618	-0.3456243
N	0.3873335	-4.3756083	0.8373312
C	1.0186313	-5.6001704	0.7134699
C	0.1495605	-6.5557736	0.0597307
H	0.4251902	-7.5935405	-0.1709357
C	-1.0364302	-5.9062629	-0.1827879
H	-1.9424283	-6.2900776	-0.6708632
C	-0.8683829	-4.5474675	0.2874717
C	0.4410255	0.6180604	1.2258204
H	4.1319846	0.8611658	4.0258850
C	3.3145058	0.4979945	3.3885854
C	3.0334787	-0.8988606	3.1264851
H	2.3006046	2.3133092	2.5812617
N	1.9500066	-1.0249865	2.2775146
C	1.5477482	0.2656621	1.9951122
C	2.4053929	1.2231224	2.6611302
C	2.2873136	-5.9080643	1.2062243
H	2.6719537	-6.9260176	1.0418523
H	5.5840623	-4.1829361	3.9835628
C	4.6946028	-4.3001797	3.3498205
C	4.3015835	-5.3930453	2.6158558
H	4.7905295	-6.3724888	2.5260573
C	3.0635295	-5.0287310	1.9620155
N	2.7237198	-3.7204819	2.2595416
C	3.7165264	-3.2627502	3.1052575
C	3.8331040	-1.9517404	3.5718314
H	4.6730129	-1.7150018	4.2424389
Co	1.0367468	-2.7319885	1.7885415
N	0.1037891	-2.9808775	3.4046829
S	-1.0477401	-2.0702801	4.1673685
O	-2.3981723	-2.6597787	3.9573708
O	-0.8303571	-0.6354168	3.8195941
C	-0.6687881	-2.1848918	5.9388512
C	-0.1529298	-2.1927797	8.6854945
C	0.6119108	-1.8293402	6.3997167
C	-1.6962135	-2.5335159	6.8292552
C	-1.4320097	-2.5318327	8.2106481
C	0.8673408	-1.8440514	7.7797592
H	1.3961899	-1.5455200	5.6799535
H	-2.6869468	-2.7971210	6.4277842
H	-2.2334549	-2.7958068	8.9209635
H	1.8688431	-1.5734752	8.1535365
H	0.0510873	-2.1959440	9.7692060
C	-1.0425707	-5.7610511	3.7837054
C	0.0608686	-5.0818390	4.2645888
H	1.0109138	-5.1357868	3.7166664
H	0.1248529	-4.7538051	5.3158562
H	-0.9999974	-6.1137710	2.7373736

C	-2.2839873	-6.0597277	4.4822664
C	-4.7347639	-6.7413137	5.7604872
C	-3.3624167	-6.6357898	3.7554877
C	-2.4690688	-5.8488536	5.8768254
C	-3.6750508	-6.1831861	6.5023921
C	-4.5698596	-6.9674004	4.3816805
H	-3.2374274	-6.8120302	2.6736201
H	-1.6482134	-5.4277945	6.4781834
H	-3.7928311	-6.0126943	7.5857082
H	-5.3919416	-7.4056750	3.7914426
H	-5.6833582	-7.0035676	6.2576921
H	0.2331827	1.6886095	1.0797874

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	-0.474	-0.302	0.719	1.00	0.00
ATOM	2	N	111	1	-0.362	-1.675	0.819	1.00	0.00
ATOM	3	H	111	1	-2.039	1.094	-0.121	1.00	0.00
ATOM	4	C	111	1	-1.534	-2.181	0.287	1.00	0.00
ATOM	5	C	111	1	-2.396	-1.108	-0.159	1.00	0.00
ATOM	6	H	111	1	-3.383	-1.250	-0.619	1.00	0.00
ATOM	7	C	111	1	-1.722	0.063	0.084	1.00	0.00
ATOM	8	C	111	1	-1.807	-3.534	0.090	1.00	0.00
ATOM	9	H	111	1	-2.780	-3.807	-0.346	1.00	0.00
ATOM	10	N	111	1	0.387	-4.376	0.837	1.00	0.00
ATOM	11	C	111	1	1.019	-5.600	0.713	1.00	0.00
ATOM	12	C	111	1	0.150	-6.556	0.060	1.00	0.00
ATOM	13	H	111	1	0.425	-7.594	-0.171	1.00	0.00
ATOM	14	C	111	1	-1.036	-5.906	-0.183	1.00	0.00
ATOM	15	H	111	1	-1.942	-6.290	-0.671	1.00	0.00
ATOM	16	C	111	1	-0.868	-4.547	0.287	1.00	0.00
ATOM	17	C	111	1	0.441	0.618	1.226	1.00	0.00
ATOM	18	H	111	1	4.132	0.861	4.026	1.00	0.00
ATOM	19	C	111	1	3.315	0.498	3.389	1.00	0.00
ATOM	20	C	111	1	3.033	-0.899	3.126	1.00	0.00
ATOM	21	H	111	1	2.301	2.313	2.581	1.00	0.00
ATOM	22	N	111	1	1.950	-1.025	2.278	1.00	0.00
ATOM	23	C	111	1	1.548	0.266	1.995	1.00	0.00
ATOM	24	C	111	1	2.405	1.223	2.661	1.00	0.00
ATOM	25	C	111	1	2.287	-5.908	1.206	1.00	0.00
ATOM	26	H	111	1	2.672	-6.926	1.042	1.00	0.00
ATOM	27	H	111	1	5.584	-4.183	3.984	1.00	0.00
ATOM	28	C	111	1	4.695	-4.300	3.350	1.00	0.00
ATOM	29	C	111	1	4.302	-5.393	2.616	1.00	0.00
ATOM	30	H	111	1	4.791	-6.372	2.526	1.00	0.00
ATOM	31	C	111	1	3.064	-5.029	1.962	1.00	0.00
ATOM	32	N	111	1	2.724	-3.720	2.260	1.00	0.00
ATOM	33	C	111	1	3.717	-3.263	3.105	1.00	0.00
ATOM	34	C	111	1	3.833	-1.952	3.572	1.00	0.00
ATOM	35	H	111	1	4.673	-1.715	4.242	1.00	0.00
ATOM	36	Co	111	1	1.037	-2.732	1.789	1.00	0.00
ATOM	37	N	111	1	0.104	-2.981	3.405	1.00	0.00
ATOM	38	S	111	1	-1.048	-2.070	4.167	1.00	0.00
ATOM	39	O	111	1	-2.398	-2.660	3.957	1.00	0.00
ATOM	40	O	111	1	-0.830	-0.635	3.820	1.00	0.00
ATOM	41	C	111	1	-0.669	-2.185	5.939	1.00	0.00
ATOM	42	C	111	1	-0.153	-2.193	8.685	1.00	0.00

ATOM	43	C	111	1	0.612	-1.829	6.400	1.00	0.00
ATOM	44	C	111	1	-1.696	-2.534	6.829	1.00	0.00
ATOM	45	C	111	1	-1.432	-2.532	8.211	1.00	0.00
ATOM	46	C	111	1	0.867	-1.844	7.780	1.00	0.00
ATOM	47	H	111	1	1.396	-1.546	5.680	1.00	0.00
ATOM	48	H	111	1	-2.687	-2.797	6.428	1.00	0.00
ATOM	49	H	111	1	-2.233	-2.796	8.921	1.00	0.00
ATOM	50	H	111	1	1.869	-1.573	8.154	1.00	0.00
ATOM	51	H	111	1	0.051	-2.196	9.769	1.00	0.00
ATOM	52	C	111	1	-1.043	-5.761	3.784	1.00	0.00
ATOM	53	C	111	1	0.061	-5.082	4.265	1.00	0.00
ATOM	54	H	111	1	1.011	-5.136	3.717	1.00	0.00
ATOM	55	H	111	1	0.125	-4.754	5.316	1.00	0.00
ATOM	56	H	111	1	-1.000	-6.114	2.737	1.00	0.00
ATOM	57	C	111	1	-2.284	-6.060	4.482	1.00	0.00
ATOM	58	C	111	1	-4.735	-6.741	5.760	1.00	0.00
ATOM	59	C	111	1	-3.362	-6.636	3.755	1.00	0.00
ATOM	60	C	111	1	-2.469	-5.849	5.877	1.00	0.00
ATOM	61	C	111	1	-3.675	-6.183	6.502	1.00	0.00
ATOM	62	C	111	1	-4.570	-6.967	4.382	1.00	0.00
ATOM	63	H	111	1	-3.237	-6.812	2.674	1.00	0.00
ATOM	64	H	111	1	-1.648	-5.428	6.478	1.00	0.00
ATOM	65	H	111	1	-3.793	-6.013	7.586	1.00	0.00
ATOM	66	H	111	1	-5.392	-7.406	3.791	1.00	0.00
ATOM	67	H	111	1	-5.683	-7.004	6.258	1.00	0.00
ATOM	68	H	111	1	0.233	1.689	1.080	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	36						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	36					
CONECT	11	12	25						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	23	68						
CONECT	18	19							
CONECT	19	20	24						
CONECT	20	22	34						
CONECT	21	24							
CONECT	22	23	36						
CONECT	23	24							
CONECT	25	26	31						
CONECT	27	28							
CONECT	28	29	33						
CONECT	29	30	31						
CONECT	31	32							
CONECT	32	33	36						
CONECT	33	34							
CONECT	34	35							
CONECT	36	37							
CONECT	37	38							
CONECT	38	39	40	41					
CONECT	41	43	44						
CONECT	42	45	46	51					
CONECT	43	46	47						
CONECT	44	45	48						
CONECT	45	49							
CONECT	46	50							

CONECT 52 53 56 57
CONECT 53 54 55
CONECT 57 59 60
CONECT 58 61 62 67
CONECT 59 62 63
CONECT 60 61 64
CONECT 61 65
CONECT 62 66
END

4D_Co(por)

Xyz file

68

Energy = -3516.7815291640
C 0.4136686 -1.0551759 -0.8891941
N -0.2055825 -2.2215607 -0.4793197
H -0.2317783 0.7188738 -2.1295496
C -1.4868975 -2.1598497 -0.9936669
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H -3.9784248 -5.5919307 -1.1627716
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C 1.7072555 -0.6697251 -0.5462770
H 5.0932038 -1.7450579 2.4345070
C 4.1846003 -1.7706159 1.8177263
C 3.1991841 -2.8313035 1.8469816
H 4.2488795 0.0584001 0.5413263
N 2.1807825 -2.5728245 0.9489793
C 2.5077131 -1.3677514 0.3556400
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C 2.8300964 -6.4328608 2.9644269
C 1.9069352 -7.3025128 2.4370063
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Co 0.4961305 -3.6196512 0.7550643
N -0.4635581 -3.0747138 2.3940596
S -0.8629529 -1.4562511 2.7303724
O -2.2738203 -1.1921925 2.3317564
O 0.2174399 -0.6018188 2.1878482
C -0.7841710 -1.3104367 4.5403515
C -0.6488757 -1.0342254 7.3140311
C 0.4753210 -1.2348724 5.1609097
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H	-2.9412226	-1.2815547	4.7544052
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H	-0.9550724	-3.8508410	4.3144820
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C	-2.9522394	-6.0351525	4.6870684
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C	-3.8031423	-6.9281639	5.3443882
H	-1.8815755	-6.0195782	4.9476729
H	-5.2608181	-4.5364266	2.6122622
H	-6.7674156	-6.1355957	3.7955052
H	-3.3924860	-7.6032621	6.1144185
H	-5.8430055	-7.6815013	5.5563814
H	-3.4036089	-3.0234300	-1.4136947
H	2.0858809	0.2835475	-0.9439575

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.414	-1.055	-0.889	1.00	0.00
ATOM	2	N	111	1	-0.206	-2.222	-0.479	1.00	0.00
ATOM	3	H	111	1	-0.232	0.719	-2.130	1.00	0.00
ATOM	4	C	111	1	-1.487	-2.160	-0.994	1.00	0.00
ATOM	5	C	111	1	-1.684	-0.924	-1.722	1.00	0.00
ATOM	6	H	111	1	-2.619	-0.638	-2.221	1.00	0.00
ATOM	7	C	111	1	-0.490	-0.250	-1.682	1.00	0.00
ATOM	8	C	111	1	-2.418	-3.197	-0.957	1.00	0.00
ATOM	9	N	111	1	-0.941	-4.861	0.106	1.00	0.00
ATOM	10	C	111	1	-1.043	-6.229	0.296	1.00	0.00
ATOM	11	C	111	1	-2.300	-6.722	-0.224	1.00	0.00
ATOM	12	H	111	1	-2.614	-7.774	-0.204	1.00	0.00
ATOM	13	C	111	1	-2.984	-5.630	-0.697	1.00	0.00
ATOM	14	H	111	1	-3.978	-5.592	-1.163	1.00	0.00
ATOM	15	C	111	1	-2.125	-4.483	-0.500	1.00	0.00
ATOM	16	C	111	1	1.707	-0.670	-0.546	1.00	0.00
ATOM	17	H	111	1	5.093	-1.745	2.435	1.00	0.00
ATOM	18	C	111	1	4.185	-1.771	1.818	1.00	0.00
ATOM	19	C	111	1	3.199	-2.831	1.847	1.00	0.00
ATOM	20	H	111	1	4.249	0.058	0.541	1.00	0.00
ATOM	21	N	111	1	2.181	-2.573	0.949	1.00	0.00
ATOM	22	C	111	1	2.508	-1.368	0.356	1.00	0.00
ATOM	23	C	111	1	3.767	-0.873	0.866	1.00	0.00
ATOM	24	C	111	1	-0.110	-7.019	0.967	1.00	0.00
ATOM	25	H	111	1	-0.314	-8.098	1.052	1.00	0.00
ATOM	26	H	111	1	3.670	-6.650	3.639	1.00	0.00
ATOM	27	C	111	1	2.830	-6.433	2.964	1.00	0.00
ATOM	28	C	111	1	1.907	-7.303	2.437	1.00	0.00
ATOM	29	H	111	1	1.815	-8.386	2.594	1.00	0.00
ATOM	30	C	111	1	1.022	-6.514	1.607	1.00	0.00
ATOM	31	N	111	1	1.417	-5.186	1.600	1.00	0.00
ATOM	32	C	111	1	2.530	-5.127	2.419	1.00	0.00

ATOM	33	C	111	1	3.336	-4.002	2.594	1.00	0.00
ATOM	34	H	111	1	4.199	-4.084	3.273	1.00	0.00
ATOM	35	Co	111	1	0.496	-3.620	0.755	1.00	0.00
ATOM	36	N	111	1	-0.464	-3.075	2.394	1.00	0.00
ATOM	37	S	111	1	-0.863	-1.456	2.730	1.00	0.00
ATOM	38	O	111	1	-2.274	-1.192	2.332	1.00	0.00
ATOM	39	O	111	1	0.217	-0.602	2.188	1.00	0.00
ATOM	40	C	111	1	-0.784	-1.310	4.540	1.00	0.00
ATOM	41	C	111	1	-0.649	-1.034	7.314	1.00	0.00
ATOM	42	C	111	1	0.475	-1.235	5.161	1.00	0.00
ATOM	43	C	111	1	-1.975	-1.238	5.281	1.00	0.00
ATOM	44	C	111	1	-1.900	-1.100	6.677	1.00	0.00
ATOM	45	C	111	1	0.536	-1.100	6.557	1.00	0.00
ATOM	46	H	111	1	1.391	-1.269	4.550	1.00	0.00
ATOM	47	H	111	1	-2.941	-1.282	4.754	1.00	0.00
ATOM	48	H	111	1	-2.828	-1.040	7.270	1.00	0.00
ATOM	49	H	111	1	1.516	-1.038	7.058	1.00	0.00
ATOM	50	H	111	1	-0.595	-0.926	8.410	1.00	0.00
ATOM	51	H	111	1	-0.621	-5.036	3.042	1.00	0.00
ATOM	52	C	111	1	-1.142	-4.067	3.229	1.00	0.00
ATOM	53	H	111	1	-0.955	-3.851	4.314	1.00	0.00
ATOM	54	C	111	1	-2.622	-4.217	2.986	1.00	0.00
ATOM	55	H	111	1	-3.075	-3.561	2.227	1.00	0.00
ATOM	56	C	111	1	-3.450	-5.142	3.680	1.00	0.00
ATOM	57	C	111	1	-5.178	-6.975	5.033	1.00	0.00
ATOM	58	C	111	1	-2.952	-6.035	4.687	1.00	0.00
ATOM	59	C	111	1	-4.853	-5.212	3.383	1.00	0.00
ATOM	60	C	111	1	-5.693	-6.107	4.046	1.00	0.00
ATOM	61	C	111	1	-3.803	-6.928	5.344	1.00	0.00
ATOM	62	H	111	1	-1.882	-6.020	4.948	1.00	0.00
ATOM	63	H	111	1	-5.261	-4.536	2.612	1.00	0.00
ATOM	64	H	111	1	-6.767	-6.136	3.796	1.00	0.00
ATOM	65	H	111	1	-3.392	-7.603	6.114	1.00	0.00
ATOM	66	H	111	1	-5.843	-7.682	5.556	1.00	0.00
ATOM	67	H	111	1	-3.404	-3.023	-1.414	1.00	0.00
ATOM	68	H	111	1	2.086	0.284	-0.944	1.00	0.00
CONECT	1	2	7	16					
CONECT	2	4	35						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	15	67						
CONECT	9	10	15	35					
CONECT	10	11	24						
CONECT	11	12	13						
CONECT	13	14	15						
CONECT	16	22	68						
CONECT	17	18							
CONECT	18	19	23						
CONECT	19	21	33						
CONECT	20	23							
CONECT	21	22	35						
CONECT	22	23							
CONECT	24	25	30						
CONECT	26	27							
CONECT	27	28	32						
CONECT	28	29	30						
CONECT	30	31							
CONECT	31	32	35						
CONECT	32	33							

CONECT 33 34
CONECT 35 36
CONECT 36 37 52
CONECT 37 38 39 40
CONECT 40 42 43
CONECT 41 44 45 50
CONECT 42 45 46
CONECT 43 44 47
CONECT 44 48
CONECT 45 49
CONECT 51 52
CONECT 52 53 54
CONECT 54 55 56
CONECT 56 58 59
CONECT 57 60 61 66
CONECT 58 61 62
CONECT 59 60 63
CONECT 60 64
CONECT 61 65
END

4C_Co(PorAmide)

Xyz file

69

Energy = -3646.2507762640
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C -1.6963242 -0.6984960 -1.2623584
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C 0.0836158 -5.9572952 0.2016464
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C -1.9115207 -5.6731961 -0.8223351
H -2.8903993 -5.7889534 -1.3061745
C -1.2294905 -4.4098643 -0.6461321
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H 5.5475645 -0.5992266 2.1668363
C 4.5299201 -0.7043022 1.7678318
C 3.8969020 -1.9657936 1.4629815
H 3.7225532 1.3621256 1.5742284
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S	-0.4625644	-2.0397688	3.2669204
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C	-0.4973980	-2.8342753	4.8834483
C	-0.5297033	-4.1187195	7.3592554
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C	-1.5786377	-4.3313092	6.4459793
C	0.5338492	-3.2573062	7.0305484
H	1.3716819	-1.9188638	5.5140047
H	-2.3833761	-3.8289459	4.4702948
H	-2.4151109	-4.9992218	6.7100048
H	1.3501424	-3.0861657	7.7514973
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H	-2.7186775	-3.1850405	-1.5761536
C	1.3220110	1.7950525	0.4298987
C	1.3047518	4.6076702	0.2289086
C	0.4427713	2.5584944	1.2600123
C	2.1838866	2.4664144	-0.4645428
C	2.1862121	3.8641056	-0.5738357
C	0.4441672	3.9715808	1.1331034
H	2.8498335	1.8610758	-1.1014834
H	2.8613255	4.3645442	-1.2867596
H	-0.2520838	4.5474036	1.7544575
H	1.2837656	5.7081075	0.1562180
N	-0.3859107	1.8923115	2.1805371
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C	-1.4765380	2.4174654	2.8751102
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Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.250	-0.386	-0.151	1.00	0.00
ATOM	2	N	111	1	0.088	-1.761	-0.212	1.00	0.00
ATOM	3	H	111	1	-0.938	1.369	-0.927	1.00	0.00
ATOM	4	C	111	1	-1.120	-1.959	-0.860	1.00	0.00
ATOM	5	C	111	1	-1.696	-0.698	-1.262	1.00	0.00
ATOM	6	H	111	1	-2.641	-0.592	-1.811	1.00	0.00
ATOM	7	C	111	1	-0.848	0.282	-0.817	1.00	0.00
ATOM	8	C	111	1	-1.742	-3.186	-1.069	1.00	0.00
ATOM	9	N	111	1	-0.011	-4.595	-0.023	1.00	0.00
ATOM	10	C	111	1	0.084	-5.957	0.202	1.00	0.00
ATOM	11	C	111	1	-1.098	-6.637	-0.283	1.00	0.00
ATOM	12	H	111	1	-1.256	-7.723	-0.230	1.00	0.00
ATOM	13	C	111	1	-1.912	-5.673	-0.822	1.00	0.00
ATOM	14	H	111	1	-2.890	-5.789	-1.306	1.00	0.00
ATOM	15	C	111	1	-1.229	-4.410	-0.646	1.00	0.00
ATOM	16	C	111	1	1.327	0.297	0.441	1.00	0.00
ATOM	17	H	111	1	5.548	-0.599	2.167	1.00	0.00
ATOM	18	C	111	1	4.530	-0.704	1.768	1.00	0.00

ATOM	19	C	111	1	3.897	-1.966	1.463	1.00	0.00
ATOM	20	H	111	1	3.723	1.362	1.574	1.00	0.00
ATOM	21	N	111	1	2.621	-1.764	0.962	1.00	0.00
ATOM	22	C	111	1	2.440	-0.390	0.955	1.00	0.00
ATOM	23	C	111	1	3.618	0.276	1.473	1.00	0.00
ATOM	24	C	111	1	1.190	-6.613	0.735	1.00	0.00
ATOM	25	H	111	1	1.143	-7.707	0.841	1.00	0.00
ATOM	26	H	111	1	5.558	-5.824	2.089	1.00	0.00
ATOM	27	C	111	1	4.521	-5.701	1.748	1.00	0.00
ATOM	28	C	111	1	3.568	-6.663	1.523	1.00	0.00
ATOM	29	H	111	1	3.650	-7.753	1.633	1.00	0.00
ATOM	30	C	111	1	2.377	-5.971	1.082	1.00	0.00
ATOM	31	N	111	1	2.596	-4.607	1.032	1.00	0.00
ATOM	32	C	111	1	3.897	-4.429	1.462	1.00	0.00
ATOM	33	C	111	1	4.516	-3.197	1.663	1.00	0.00
ATOM	34	H	111	1	5.550	-3.195	2.037	1.00	0.00
ATOM	35	Co	111	1	1.212	-3.166	0.701	1.00	0.00
ATOM	36	N	111	1	0.465	-3.013	2.352	1.00	0.00
ATOM	37	S	111	1	-0.463	-2.040	3.267	1.00	0.00
ATOM	38	O	111	1	-1.856	-2.009	2.736	1.00	0.00
ATOM	39	O	111	1	0.248	-0.727	3.447	1.00	0.00
ATOM	40	C	111	1	-0.497	-2.834	4.883	1.00	0.00
ATOM	41	C	111	1	-0.530	-4.119	7.359	1.00	0.00
ATOM	42	C	111	1	0.557	-2.607	5.787	1.00	0.00
ATOM	43	C	111	1	-1.569	-3.689	5.197	1.00	0.00
ATOM	44	C	111	1	-1.579	-4.331	6.446	1.00	0.00
ATOM	45	C	111	1	0.534	-3.257	7.031	1.00	0.00
ATOM	46	H	111	1	1.372	-1.919	5.514	1.00	0.00
ATOM	47	H	111	1	-2.383	-3.829	4.470	1.00	0.00
ATOM	48	H	111	1	-2.415	-4.999	6.710	1.00	0.00
ATOM	49	H	111	1	1.350	-3.086	7.751	1.00	0.00
ATOM	50	H	111	1	-0.543	-4.625	8.338	1.00	0.00
ATOM	51	H	111	1	-2.719	-3.185	-1.576	1.00	0.00
ATOM	52	C	111	1	1.322	1.795	0.430	1.00	0.00
ATOM	53	C	111	1	1.305	4.608	0.229	1.00	0.00
ATOM	54	C	111	1	0.443	2.558	1.260	1.00	0.00
ATOM	55	C	111	1	2.184	2.466	-0.465	1.00	0.00
ATOM	56	C	111	1	2.186	3.864	-0.574	1.00	0.00
ATOM	57	C	111	1	0.444	3.972	1.133	1.00	0.00
ATOM	58	H	111	1	2.850	1.861	-1.101	1.00	0.00
ATOM	59	H	111	1	2.861	4.365	-1.287	1.00	0.00
ATOM	60	H	111	1	-0.252	4.547	1.754	1.00	0.00
ATOM	61	H	111	1	1.284	5.708	0.156	1.00	0.00
ATOM	62	N	111	1	-0.386	1.892	2.181	1.00	0.00
ATOM	63	H	111	1	-0.146	0.909	2.400	1.00	0.00
ATOM	64	C	111	1	-1.477	2.417	2.875	1.00	0.00
ATOM	65	O	111	1	-1.874	3.574	2.753	1.00	0.00
ATOM	66	C	111	1	-2.142	1.424	3.821	1.00	0.00
ATOM	67	H	111	1	-2.385	0.462	3.319	1.00	0.00
ATOM	68	H	111	1	-3.065	1.892	4.215	1.00	0.00
ATOM	69	H	111	1	-1.463	1.180	4.667	1.00	0.00
CONECT	1	2	7	16					
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CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	15	51						
CONECT	9	10	15	35					

CONECT 10 11 24
CONECT 11 12 13
CONECT 13 14 15
CONECT 16 22 52
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CONECT 41 44 45 50
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CONECT 43 44 47
CONECT 44 48
CONECT 45 49
CONECT 52 54 55
CONECT 53 56 57 61
CONECT 54 57 62
CONECT 55 56 58
CONECT 56 59
CONECT 57 60
CONECT 62 63 64
CONECT 64 65 66
CONECT 66 67 68 69
END

4TS2_Co(PorAmide)

Xyz file

85

Energy = -3955.9904745100
C -0.4100593 -0.3064681 0.6642833
N -0.2795758 -1.6810660 0.7681249
H -1.9598861 1.0554081 -0.2550933
C -1.4311702 -2.2052305 0.2055491
C -2.2899520 -1.1474119 -0.2741346
H -3.2563328 -1.3053618 -0.7709976
C -1.6414645 0.0332900 -0.0187309
C -1.7005799 -3.5578532 0.0141649
H -2.6647036 -3.8293581 -0.4413666
N 0.4742626 -4.3983358 0.8068688
C 1.1007306 -5.6286442 0.7072144
C 0.2335305 -6.5911139 0.0627933
H 0.5069889 -7.6337835 -0.1472014
C -0.9453983 -5.9395964 -0.2062904
H -1.8472010 -6.3263688 -0.6996616
C -0.7742630 -4.5746163 0.2423894
C 0.4699097 0.6479660 1.2013503

H	4.1691943	0.8547578	4.0063154
C	3.3567677	0.4956955	3.3604438
C	3.0952943	-0.8957736	3.0659773
H	2.3123510	2.3142688	2.6086066
N	2.0157555	-1.0184343	2.2091733
C	1.5907577	0.2747831	1.9611575
C	2.4343084	1.2259733	2.6577462
C	2.3680666	-5.9316782	1.2046440
H	2.7518710	-6.9524190	1.0570927
H	5.6777868	-4.1529795	3.9299644
C	4.7842540	-4.2832185	3.3046353
C	4.3887009	-5.3886012	2.5910612
H	4.8797173	-6.3679018	2.5120316
C	3.1453507	-5.0379624	1.9409728
N	2.8031306	-3.7254778	2.2199278
C	3.8003654	-3.2542510	3.0520909
C	3.9065086	-1.9399530	3.5079313
H	4.7436660	-1.6914849	4.1776654
Co	1.1132694	-2.7328446	1.7443012
N	0.1750076	-2.9551011	3.3666867
S	-0.9410476	-1.9943542	4.0932508
O	-2.3305054	-2.4032958	3.7402656
O	-0.5676546	-0.5557388	3.8620282
C	-0.7222364	-2.2255691	5.8772235
C	-0.4295518	-2.4280564	8.6469154
C	0.5393829	-1.9890058	6.4536913
C	-1.8381553	-2.5548020	6.6612085
C	-1.6852845	-2.6494153	8.0562302
C	0.6814967	-2.1009361	7.8451553
H	1.3959929	-1.7199012	5.8155225
H	-2.8086089	-2.7298229	6.1723418
H	-2.5566723	-2.8992220	8.6839468
H	1.6652879	-1.9231696	8.3104040
H	-0.3132904	-2.5069769	9.7405921
C	-1.1579565	-5.6287019	3.7640437
C	0.0355565	-5.0593918	4.1713652
H	0.9270793	-5.1583964	3.5388508
H	0.2172239	-4.7912759	5.2262495
H	-1.2435892	-5.9072289	2.6983718
C	-2.3405115	-5.8933147	4.5699525
C	-4.6860892	-6.5095553	6.0595489
C	-3.5482566	-6.2767998	3.9223643
C	-2.3425488	-5.8417174	5.9921845
C	-3.4972736	-6.1456219	6.7222526
C	-4.7041805	-6.5741535	4.6535722
H	-3.5662606	-6.3265281	2.8207723
H	-1.4177894	-5.5801890	6.5299451
H	-3.4708755	-6.1072896	7.8240853
H	-5.6293825	-6.8595075	4.1258255
H	-5.5931844	-6.7493069	6.6385823
C	0.1561155	2.1027164	1.0277626
C	-0.4150466	4.8281313	0.6023010
C	0.9073108	2.8651889	0.1098288
C	-0.8963033	2.7286178	1.7671899
C	-1.1725604	4.0991584	1.5295064
C	0.6330086	4.2232204	-0.1114927
H	1.7152080	2.3640751	-0.4488129
H	-1.9949848	4.5648633	2.0857333
H	1.2275800	4.7986119	-0.8394782
H	-0.6516747	5.8933611	0.4408395

N	-1.6143187	1.9662621	2.7064043
H	-1.2280155	1.0340007	2.9434151
C	-2.7851496	2.3185779	3.3751800
O	-3.3674359	3.3909099	3.2252630
C	-3.2848253	1.2518191	4.3447800
H	-2.6691269	1.2669490	5.2720943
H	-3.2219704	0.2243133	3.9281646
H	-4.3325831	1.4941719	4.6113211

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	-0.410	-0.306	0.664	1.00	0.00
ATOM	2	N	111	1	-0.280	-1.681	0.768	1.00	0.00
ATOM	3	H	111	1	-1.960	1.055	-0.255	1.00	0.00
ATOM	4	C	111	1	-1.431	-2.205	0.206	1.00	0.00
ATOM	5	C	111	1	-2.290	-1.147	-0.274	1.00	0.00
ATOM	6	H	111	1	-3.256	-1.305	-0.771	1.00	0.00
ATOM	7	C	111	1	-1.641	0.033	-0.019	1.00	0.00
ATOM	8	C	111	1	-1.701	-3.558	0.014	1.00	0.00
ATOM	9	H	111	1	-2.665	-3.829	-0.441	1.00	0.00
ATOM	10	N	111	1	0.474	-4.398	0.807	1.00	0.00
ATOM	11	C	111	1	1.101	-5.629	0.707	1.00	0.00
ATOM	12	C	111	1	0.234	-6.591	0.063	1.00	0.00
ATOM	13	H	111	1	0.507	-7.634	-0.147	1.00	0.00
ATOM	14	C	111	1	-0.945	-5.940	-0.206	1.00	0.00
ATOM	15	H	111	1	-1.847	-6.326	-0.700	1.00	0.00
ATOM	16	C	111	1	-0.774	-4.575	0.242	1.00	0.00
ATOM	17	C	111	1	0.470	0.648	1.201	1.00	0.00
ATOM	18	H	111	1	4.169	0.855	4.006	1.00	0.00
ATOM	19	C	111	1	3.357	0.496	3.360	1.00	0.00
ATOM	20	C	111	1	3.095	-0.896	3.066	1.00	0.00
ATOM	21	H	111	1	2.312	2.314	2.609	1.00	0.00
ATOM	22	N	111	1	2.016	-1.018	2.209	1.00	0.00
ATOM	23	C	111	1	1.591	0.275	1.961	1.00	0.00
ATOM	24	C	111	1	2.434	1.226	2.658	1.00	0.00
ATOM	25	C	111	1	2.368	-5.932	1.205	1.00	0.00
ATOM	26	H	111	1	2.752	-6.952	1.057	1.00	0.00
ATOM	27	H	111	1	5.678	-4.153	3.930	1.00	0.00
ATOM	28	C	111	1	4.784	-4.283	3.305	1.00	0.00
ATOM	29	C	111	1	4.389	-5.389	2.591	1.00	0.00
ATOM	30	H	111	1	4.880	-6.368	2.512	1.00	0.00
ATOM	31	C	111	1	3.145	-5.038	1.941	1.00	0.00
ATOM	32	N	111	1	2.803	-3.725	2.220	1.00	0.00
ATOM	33	C	111	1	3.800	-3.254	3.052	1.00	0.00
ATOM	34	C	111	1	3.907	-1.940	3.508	1.00	0.00
ATOM	35	H	111	1	4.744	-1.691	4.178	1.00	0.00
ATOM	36	Co	111	1	1.113	-2.733	1.744	1.00	0.00
ATOM	37	N	111	1	0.175	-2.955	3.367	1.00	0.00
ATOM	38	S	111	1	-0.941	-1.994	4.093	1.00	0.00
ATOM	39	O	111	1	-2.331	-2.403	3.740	1.00	0.00
ATOM	40	O	111	1	-0.568	-0.556	3.862	1.00	0.00
ATOM	41	C	111	1	-0.722	-2.226	5.877	1.00	0.00
ATOM	42	C	111	1	-0.430	-2.428	8.647	1.00	0.00
ATOM	43	C	111	1	0.539	-1.989	6.454	1.00	0.00
ATOM	44	C	111	1	-1.838	-2.555	6.661	1.00	0.00
ATOM	45	C	111	1	-1.685	-2.649	8.056	1.00	0.00
ATOM	46	C	111	1	0.681	-2.101	7.845	1.00	0.00

ATOM	47	H	111	1	1.396	-1.720	5.816	1.00	0.00
ATOM	48	H	111	1	-2.809	-2.730	6.172	1.00	0.00
ATOM	49	H	111	1	-2.557	-2.899	8.684	1.00	0.00
ATOM	50	H	111	1	1.665	-1.923	8.310	1.00	0.00
ATOM	51	H	111	1	-0.313	-2.507	9.741	1.00	0.00
ATOM	52	C	111	1	-1.158	-5.629	3.764	1.00	0.00
ATOM	53	C	111	1	0.036	-5.059	4.171	1.00	0.00
ATOM	54	H	111	1	0.927	-5.158	3.539	1.00	0.00
ATOM	55	H	111	1	0.217	-4.791	5.226	1.00	0.00
ATOM	56	H	111	1	-1.244	-5.907	2.698	1.00	0.00
ATOM	57	C	111	1	-2.341	-5.893	4.570	1.00	0.00
ATOM	58	C	111	1	-4.686	-6.510	6.060	1.00	0.00
ATOM	59	C	111	1	-3.548	-6.277	3.922	1.00	0.00
ATOM	60	C	111	1	-2.343	-5.842	5.992	1.00	0.00
ATOM	61	C	111	1	-3.497	-6.146	6.722	1.00	0.00
ATOM	62	C	111	1	-4.704	-6.574	4.654	1.00	0.00
ATOM	63	H	111	1	-3.566	-6.327	2.821	1.00	0.00
ATOM	64	H	111	1	-1.418	-5.580	6.530	1.00	0.00
ATOM	65	H	111	1	-3.471	-6.107	7.824	1.00	0.00
ATOM	66	H	111	1	-5.629	-6.860	4.126	1.00	0.00
ATOM	67	H	111	1	-5.593	-6.749	6.639	1.00	0.00
ATOM	68	C	111	1	0.156	2.103	1.028	1.00	0.00
ATOM	69	C	111	1	-0.415	4.828	0.602	1.00	0.00
ATOM	70	C	111	1	0.907	2.865	0.110	1.00	0.00
ATOM	71	C	111	1	-0.896	2.729	1.767	1.00	0.00
ATOM	72	C	111	1	-1.173	4.099	1.530	1.00	0.00
ATOM	73	C	111	1	0.633	4.223	-0.111	1.00	0.00
ATOM	74	H	111	1	1.715	2.364	-0.449	1.00	0.00
ATOM	75	H	111	1	-1.995	4.565	2.086	1.00	0.00
ATOM	76	H	111	1	1.228	4.799	-0.839	1.00	0.00
ATOM	77	H	111	1	-0.652	5.893	0.441	1.00	0.00
ATOM	78	N	111	1	-1.614	1.966	2.706	1.00	0.00
ATOM	79	H	111	1	-1.228	1.034	2.943	1.00	0.00
ATOM	80	C	111	1	-2.785	2.319	3.375	1.00	0.00
ATOM	81	O	111	1	-3.367	3.391	3.225	1.00	0.00
ATOM	82	C	111	1	-3.285	1.252	4.345	1.00	0.00
ATOM	83	H	111	1	-2.669	1.267	5.272	1.00	0.00
ATOM	84	H	111	1	-3.222	0.224	3.928	1.00	0.00
ATOM	85	H	111	1	-4.333	1.494	4.611	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	36						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	36					
CONECT	11	12	25						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	23	68						
CONECT	18	19							
CONECT	19	20	24						
CONECT	20	22	34						
CONECT	21	24							
CONECT	22	23	36						
CONECT	23	24							
CONECT	25	26	31						
CONECT	27	28							
CONECT	28	29	33						
CONECT	29	30	31						

CONECT 31 32
CONECT 32 33 36
CONECT 33 34
CONECT 34 35
CONECT 36 37
CONECT 37 38
CONECT 38 39 40 41
CONECT 41 43 44
CONECT 42 45 46 51
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CONECT 58 61 62 67
CONECT 59 62 63
CONECT 60 61 64
CONECT 61 65
CONECT 62 66
CONECT 68 70 71
CONECT 69 72 73 77
CONECT 70 73 74
CONECT 71 72 78
CONECT 72 75
CONECT 73 76
CONECT 78 79 80
CONECT 80 81 82
CONECT 82 83 84 85
END

4D_Co(PorAmide)

Xyz file

85

Energy = -3956.0180032490

C	-0.8774835	-1.2913240	-0.4105216
N	-0.8015633	-2.6615440	-0.2062078
H	-2.4182183	0.0633138	-1.3549990
C	-1.9467921	-3.1869160	-0.7792863
C	-2.7542661	-2.1393801	-1.3541904
H	-3.7091555	-2.3005804	-1.8717855
C	-2.1092024	-0.9550543	-1.0932071
C	-2.3235727	-4.5294772	-0.7680210
N	-0.5418041	-5.3226892	0.7372861
C	-0.3027045	-6.5440606	1.3428784
C	-1.2779933	-7.5270084	0.9207059
H	-1.2925806	-8.5735307	1.2534228
C	-2.1141382	-6.8943513	0.0355526
H	-2.9752233	-7.3021778	-0.5100388
C	-1.6606040	-5.5231281	-0.0531962
C	0.1436307	-0.3631743	-0.1267171
H	4.6125460	-0.3868365	1.1413410
C	3.5700875	-0.6754472	0.9528072
C	3.0165678	-1.9822207	1.2311830
H	2.5727733	1.1184031	0.0890492
N	1.6898993	-2.0479857	0.8453850
C	1.3861308	-0.7825882	0.3785387
C	2.5518377	0.0776551	0.4333724

C	0.7594660	-6.8160520	2.2035806
H	0.8183220	-7.8174147	2.6558686
H	4.9311415	-5.1416442	3.3330544
C	3.8987936	-5.2392008	2.9708966
C	3.0300231	-6.2937335	3.1206711
H	3.1955222	-7.2545894	3.6261134
C	1.8173685	-5.9336664	2.4226141
N	1.9216908	-4.6604298	1.8865443
C	3.1957949	-4.2300772	2.2134980
C	3.7323676	-2.9908773	1.8692122
H	4.7751661	-2.7817422	2.1522245
Co	0.4342110	-3.5857857	1.0658503
N	-0.6093978	-3.1100996	2.7086487
S	-0.3721456	-1.7852356	3.7335804
O	-1.6738174	-1.1092858	4.0019154
O	0.7561321	-0.9643923	3.2171963
C	0.1779211	-2.5114960	5.2994226
C	1.0283575	-3.6101055	7.7202784
C	1.4762436	-3.0446881	5.3919625
C	-0.6987113	-2.5124619	6.3975300
C	-0.2640084	-3.0677623	7.6137019
C	1.8961508	-3.5965783	6.6116889
H	2.1476996	-3.0185687	4.5198129
H	-1.6989550	-2.0643343	6.2929171
H	-0.9400746	-3.0711059	8.4844775
H	2.9114580	-4.0169889	6.6979021
H	1.3653178	-4.0439239	8.6762293
H	-1.7072553	-4.8844451	2.7518947
C	-1.8443463	-3.8279965	3.0698299
H	-1.9504902	-3.8809741	4.1869803
C	-3.1010730	-3.2553370	2.4693640
H	-3.0301358	-2.2610394	2.0025892
C	-4.3735137	-3.8876117	2.5334320
C	-6.9651658	-5.0918504	2.6332372
C	-4.5816946	-5.1660173	3.1515492
C	-5.5245763	-3.2418520	1.9685777
C	-6.7876224	-3.8327571	2.0189021
C	-5.8515659	-5.7482608	3.1966934
H	-3.7284414	-5.6998403	3.6001414
H	-5.3942880	-2.2553286	1.4922245
H	-7.6534247	-3.3090964	1.5793486
H	-5.9814783	-6.7313431	3.6806236
H	-7.9643978	-5.5556162	2.6745866
H	-3.2402796	-4.8084925	-1.3087978
C	-0.0419214	1.0753344	-0.4962915
C	-0.3766272	3.7512878	-1.3252466
C	-0.1206922	1.4133188	-1.8658092
C	-0.1255925	2.1145942	0.4852597
C	-0.2987342	3.4518057	0.0406827
C	-0.2848324	2.7377973	-2.2933436
H	-0.0343365	0.6013756	-2.6067784
H	-0.3715564	4.2393423	0.8001705
H	-0.3353231	2.9729673	-3.3687920
H	-0.5091353	4.8021956	-1.6326941
N	-0.0455755	1.7925429	1.8529198
H	0.1110147	0.8000275	2.0920401
C	-0.1349223	2.6616798	2.9451283
O	-0.2981028	3.8755090	2.8444673

C	-0.0177493	1.9700210	4.2970394
H	-0.8284623	1.2210494	4.4337496
H	-0.0846612	2.7465112	5.0837847
H	0.9429136	1.4190756	4.3870863

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	-0.877	-1.291	-0.411	1.00	0.00
ATOM	2	N	111	1	-0.802	-2.662	-0.206	1.00	0.00
ATOM	3	H	111	1	-2.418	0.063	-1.355	1.00	0.00
ATOM	4	C	111	1	-1.947	-3.187	-0.779	1.00	0.00
ATOM	5	C	111	1	-2.754	-2.139	-1.354	1.00	0.00
ATOM	6	H	111	1	-3.709	-2.301	-1.872	1.00	0.00
ATOM	7	C	111	1	-2.109	-0.955	-1.093	1.00	0.00
ATOM	8	C	111	1	-2.324	-4.529	-0.768	1.00	0.00
ATOM	9	N	111	1	-0.542	-5.323	0.737	1.00	0.00
ATOM	10	C	111	1	-0.303	-6.544	1.343	1.00	0.00
ATOM	11	C	111	1	-1.278	-7.527	0.921	1.00	0.00
ATOM	12	H	111	1	-1.293	-8.574	1.253	1.00	0.00
ATOM	13	C	111	1	-2.114	-6.894	0.036	1.00	0.00
ATOM	14	H	111	1	-2.975	-7.302	-0.510	1.00	0.00
ATOM	15	C	111	1	-1.661	-5.523	-0.053	1.00	0.00
ATOM	16	C	111	1	0.144	-0.363	-0.127	1.00	0.00
ATOM	17	H	111	1	4.613	-0.387	1.141	1.00	0.00
ATOM	18	C	111	1	3.570	-0.675	0.953	1.00	0.00
ATOM	19	C	111	1	3.017	-1.982	1.231	1.00	0.00
ATOM	20	H	111	1	2.573	1.118	0.089	1.00	0.00
ATOM	21	N	111	1	1.690	-2.048	0.845	1.00	0.00
ATOM	22	C	111	1	1.386	-0.783	0.379	1.00	0.00
ATOM	23	C	111	1	2.552	0.078	0.433	1.00	0.00
ATOM	24	C	111	1	0.759	-6.816	2.204	1.00	0.00
ATOM	25	H	111	1	0.818	-7.817	2.656	1.00	0.00
ATOM	26	H	111	1	4.931	-5.142	3.333	1.00	0.00
ATOM	27	C	111	1	3.899	-5.239	2.971	1.00	0.00
ATOM	28	C	111	1	3.030	-6.294	3.121	1.00	0.00
ATOM	29	H	111	1	3.196	-7.255	3.626	1.00	0.00
ATOM	30	C	111	1	1.817	-5.934	2.423	1.00	0.00
ATOM	31	N	111	1	1.922	-4.660	1.887	1.00	0.00
ATOM	32	C	111	1	3.196	-4.230	2.213	1.00	0.00
ATOM	33	C	111	1	3.732	-2.991	1.869	1.00	0.00
ATOM	34	H	111	1	4.775	-2.782	2.152	1.00	0.00
ATOM	35	Co	111	1	0.434	-3.586	1.066	1.00	0.00
ATOM	36	N	111	1	-0.609	-3.110	2.709	1.00	0.00
ATOM	37	S	111	1	-0.372	-1.785	3.734	1.00	0.00
ATOM	38	O	111	1	-1.674	-1.109	4.002	1.00	0.00
ATOM	39	O	111	1	0.756	-0.964	3.217	1.00	0.00
ATOM	40	C	111	1	0.178	-2.511	5.299	1.00	0.00
ATOM	41	C	111	1	1.028	-3.610	7.720	1.00	0.00
ATOM	42	C	111	1	1.476	-3.045	5.392	1.00	0.00
ATOM	43	C	111	1	-0.699	-2.512	6.398	1.00	0.00
ATOM	44	C	111	1	-0.264	-3.068	7.614	1.00	0.00
ATOM	45	C	111	1	1.896	-3.597	6.612	1.00	0.00
ATOM	46	H	111	1	2.148	-3.019	4.520	1.00	0.00
ATOM	47	H	111	1	-1.699	-2.064	6.293	1.00	0.00
ATOM	48	H	111	1	-0.940	-3.071	8.484	1.00	0.00
ATOM	49	H	111	1	2.911	-4.017	6.698	1.00	0.00
ATOM	50	H	111	1	1.365	-4.044	8.676	1.00	0.00

ATOM	51	H	111	1	-1.707	-4.884	2.752	1.00	0.00
ATOM	52	C	111	1	-1.844	-3.828	3.070	1.00	0.00
ATOM	53	H	111	1	-1.950	-3.881	4.187	1.00	0.00
ATOM	54	C	111	1	-3.101	-3.255	2.469	1.00	0.00
ATOM	55	H	111	1	-3.030	-2.261	2.003	1.00	0.00
ATOM	56	C	111	1	-4.374	-3.888	2.533	1.00	0.00
ATOM	57	C	111	1	-6.965	-5.092	2.633	1.00	0.00
ATOM	58	C	111	1	-4.582	-5.166	3.152	1.00	0.00
ATOM	59	C	111	1	-5.525	-3.242	1.969	1.00	0.00
ATOM	60	C	111	1	-6.788	-3.833	2.019	1.00	0.00
ATOM	61	C	111	1	-5.852	-5.748	3.197	1.00	0.00
ATOM	62	H	111	1	-3.728	-5.700	3.600	1.00	0.00
ATOM	63	H	111	1	-5.394	-2.255	1.492	1.00	0.00
ATOM	64	H	111	1	-7.653	-3.309	1.579	1.00	0.00
ATOM	65	H	111	1	-5.981	-6.731	3.681	1.00	0.00
ATOM	66	H	111	1	-7.964	-5.556	2.675	1.00	0.00
ATOM	67	H	111	1	-3.240	-4.808	-1.309	1.00	0.00
ATOM	68	C	111	1	-0.042	1.075	-0.496	1.00	0.00
ATOM	69	C	111	1	-0.377	3.751	-1.325	1.00	0.00
ATOM	70	C	111	1	-0.121	1.413	-1.866	1.00	0.00
ATOM	71	C	111	1	-0.126	2.115	0.485	1.00	0.00
ATOM	72	C	111	1	-0.299	3.452	0.041	1.00	0.00
ATOM	73	C	111	1	-0.285	2.738	-2.293	1.00	0.00
ATOM	74	H	111	1	-0.034	0.601	-2.607	1.00	0.00
ATOM	75	H	111	1	-0.372	4.239	0.800	1.00	0.00
ATOM	76	H	111	1	-0.335	2.973	-3.369	1.00	0.00
ATOM	77	H	111	1	-0.509	4.802	-1.633	1.00	0.00
ATOM	78	N	111	1	-0.046	1.793	1.853	1.00	0.00
ATOM	79	H	111	1	0.111	0.800	2.092	1.00	0.00
ATOM	80	C	111	1	-0.135	2.662	2.945	1.00	0.00
ATOM	81	O	111	1	-0.298	3.876	2.844	1.00	0.00
ATOM	82	C	111	1	-0.018	1.970	4.297	1.00	0.00
ATOM	83	H	111	1	-0.828	1.221	4.434	1.00	0.00
ATOM	84	H	111	1	-0.085	2.747	5.084	1.00	0.00
ATOM	85	H	111	1	0.943	1.419	4.387	1.00	0.00
CONECT	1	2	7	16					
CONECT	2	4	35						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
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CONECT	10	11	24						
CONECT	11	12	13						
CONECT	13	14	15						
CONECT	16	22	68						
CONECT	17	18							
CONECT	18	19	23						
CONECT	19	21	33						
CONECT	20	23							
CONECT	21	22	35						
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CONECT	24	25	30						
CONECT	26	27							
CONECT	27	28	32						
CONECT	28	29	30						
CONECT	30	31							
CONECT	31	32	35						

CONECT 32 33
CONECT 33 34
CONECT 35 36
CONECT 36 37 52
CONECT 37 38 39 40
CONECT 40 42 43
CONECT 41 44 45 50
CONECT 42 45 46
CONECT 43 44 47
CONECT 44 48
CONECT 45 49
CONECT 51 52
CONECT 52 53 54
CONECT 54 55 56
CONECT 56 58 59
CONECT 57 60 61 66
CONECT 58 61 62
CONECT 59 60 63
CONECT 60 64
CONECT 61 65
CONECT 68 70 71
CONECT 69 72 73 77
CONECT 70 73 74
CONECT 71 72 78
CONECT 72 75
CONECT 73 76
CONECT 78 79 80
CONECT 80 81 82
CONECT 82 83 84 85
END

(bis) (bridge) nitrene

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Xyz file

52

Energy = -3207.0028852960
C 0.1246631 -0.3438446 -0.1300505
N -0.3446818 -1.6644491 -0.1428432
H -0.5989583 1.5507374 -1.1341574
C -1.4388075 -1.6745467 -0.9916904
C -1.7126444 -0.3403644 -1.4873544
H -2.5344546 -0.0792509 -2.1675587
C -0.7421680 0.4741987 -0.9690236
C -2.1423410 -2.8203568 -1.3901878
H -3.0072402 -2.6711767 -2.0554286
N -0.7439192 -4.4731558 -0.2396105
C -0.7721721 -5.8431593 -0.0868362
C -1.8847514 -6.3975525 -0.8371340
H -2.1363316 -7.4653165 -0.8929330
C -2.5355066 -5.3374710 -1.4249228
H -3.4304145 -5.3576539 -2.0615387
C -1.8179831 -4.1369576 -1.0356273
C 1.2888519 0.2441027 0.4188109
H 1.4577937 1.2854117 0.0992871
H 5.4448834 -1.1667988 2.0954060
C 4.3649662 -1.0590392 1.9304248
C 3.3841809 -2.0722917 2.2157789
H 4.1862782 0.9081656 0.8908460
N 2.1658967 -1.5296639 1.8439683

C	2.3220997	-0.3214655	1.1844788
C	3.7178023	0.0070785	1.3075466
C	0.1434919	-6.5617848	0.6950524
H	0.0454564	-7.6586315	0.7138377
H	4.0099647	-6.0676694	3.2213673
C	3.0925216	-5.8658552	2.6517404
C	2.1964342	-6.7695306	2.1446907
H	2.2186885	-7.8657363	2.2105661
C	1.1896758	-6.0004721	1.4420707
N	1.4418373	-4.6432466	1.5612408
C	2.6405510	-4.5293534	2.2834042
C	3.4939965	-3.4317770	2.5629824
H	4.4600356	-3.7240194	3.0068842
Co	0.2989397	-3.2510001	0.7909451
N	0.9928288	-2.1419961	2.1106819
S	-0.0714298	-1.5547787	3.2662206
O	-1.3010920	-2.3187924	2.9184475
O	-0.0517265	-0.0753993	3.3673873
C	0.5290075	-2.1813311	4.8542435
C	1.4833731	-3.1650061	7.2874756
C	0.2899962	-3.5252724	5.1927660
C	1.2264554	-1.3194077	5.7168504
C	1.7066679	-1.8214924	6.9387000
C	0.7726876	-4.0129462	6.4168071
H	-0.2772512	-4.1697313	4.5039250
H	1.3706380	-0.2664855	5.4302766
H	2.2527370	-1.1543500	7.6262080
H	0.5878489	-5.0634583	6.6958719
H	1.8586241	-3.5536554	8.2487064

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.125	-0.344	-0.130	1.00	0.00
ATOM	2	N	111	1	-0.345	-1.664	-0.143	1.00	0.00
ATOM	3	H	111	1	-0.599	1.551	-1.134	1.00	0.00
ATOM	4	C	111	1	-1.439	-1.675	-0.992	1.00	0.00
ATOM	5	C	111	1	-1.713	-0.340	-1.487	1.00	0.00
ATOM	6	H	111	1	-2.534	-0.079	-2.168	1.00	0.00
ATOM	7	C	111	1	-0.742	0.474	-0.969	1.00	0.00
ATOM	8	C	111	1	-2.142	-2.820	-1.390	1.00	0.00
ATOM	9	H	111	1	-3.007	-2.671	-2.055	1.00	0.00
ATOM	10	N	111	1	-0.744	-4.473	-0.240	1.00	0.00
ATOM	11	C	111	1	-0.772	-5.843	-0.087	1.00	0.00
ATOM	12	C	111	1	-1.885	-6.398	-0.837	1.00	0.00
ATOM	13	H	111	1	-2.136	-7.465	-0.893	1.00	0.00
ATOM	14	C	111	1	-2.536	-5.337	-1.425	1.00	0.00
ATOM	15	H	111	1	-3.430	-5.358	-2.062	1.00	0.00
ATOM	16	C	111	1	-1.818	-4.137	-1.036	1.00	0.00
ATOM	17	C	111	1	1.289	0.244	0.419	1.00	0.00
ATOM	18	H	111	1	1.458	1.285	0.099	1.00	0.00
ATOM	19	H	111	1	5.445	-1.167	2.095	1.00	0.00
ATOM	20	C	111	1	4.365	-1.059	1.930	1.00	0.00
ATOM	21	C	111	1	3.384	-2.072	2.216	1.00	0.00
ATOM	22	H	111	1	4.186	0.908	0.891	1.00	0.00
ATOM	23	N	111	1	2.166	-1.530	1.844	1.00	0.00
ATOM	24	C	111	1	2.322	-0.321	1.184	1.00	0.00
ATOM	25	C	111	1	3.718	0.007	1.308	1.00	0.00

ATOM	26	C	111	1	0.143	-6.562	0.695	1.00	0.00
ATOM	27	H	111	1	0.045	-7.659	0.714	1.00	0.00
ATOM	28	H	111	1	4.010	-6.068	3.221	1.00	0.00
ATOM	29	C	111	1	3.093	-5.866	2.652	1.00	0.00
ATOM	30	C	111	1	2.196	-6.770	2.145	1.00	0.00
ATOM	31	H	111	1	2.219	-7.866	2.211	1.00	0.00
ATOM	32	C	111	1	1.190	-6.000	1.442	1.00	0.00
ATOM	33	N	111	1	1.442	-4.643	1.561	1.00	0.00
ATOM	34	C	111	1	2.641	-4.529	2.283	1.00	0.00
ATOM	35	C	111	1	3.494	-3.432	2.563	1.00	0.00
ATOM	36	H	111	1	4.460	-3.724	3.007	1.00	0.00
ATOM	37	Co	111	1	0.299	-3.251	0.791	1.00	0.00
ATOM	38	N	111	1	0.993	-2.142	2.111	1.00	0.00
ATOM	39	S	111	1	-0.071	-1.555	3.266	1.00	0.00
ATOM	40	O	111	1	-1.301	-2.319	2.918	1.00	0.00
ATOM	41	O	111	1	-0.052	-0.075	3.367	1.00	0.00
ATOM	42	C	111	1	0.529	-2.181	4.854	1.00	0.00
ATOM	43	C	111	1	1.483	-3.165	7.287	1.00	0.00
ATOM	44	C	111	1	0.290	-3.525	5.193	1.00	0.00
ATOM	45	C	111	1	1.226	-1.319	5.717	1.00	0.00
ATOM	46	C	111	1	1.707	-1.821	6.939	1.00	0.00
ATOM	47	C	111	1	0.773	-4.013	6.417	1.00	0.00
ATOM	48	H	111	1	-0.277	-4.170	4.504	1.00	0.00
ATOM	49	H	111	1	1.371	-0.266	5.430	1.00	0.00
ATOM	50	H	111	1	2.253	-1.154	7.626	1.00	0.00
ATOM	51	H	111	1	0.588	-5.063	6.696	1.00	0.00
ATOM	52	H	111	1	1.859	-3.554	8.249	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	37						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	37					
CONECT	11	12	26						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	18	24						
CONECT	19	20							
CONECT	20	21	25						
CONECT	21	23	35						
CONECT	22	25							
CONECT	23	24	38						
CONECT	24	25							
CONECT	26	27	32						
CONECT	28	29							
CONECT	29	30	34						
CONECT	30	31	32						
CONECT	32	33							
CONECT	33	34	37						
CONECT	34	35							
CONECT	35	36							
CONECT	37	38							
CONECT	38	39							
CONECT	39	40	41	42					
CONECT	42	44	45						
CONECT	43	46	47	52					
CONECT	44	47	48						
CONECT	45	46	49						
CONECT	46	50							

CONECT 47 51
END

II

Xyz file

69

Energy = -4151.6970253710

C	-0.1190190	0.4627086	-0.4797732
N	-0.0805768	-0.9137380	-0.5026496
H	-1.2331905	2.0042363	-1.7156415
C	-0.9069459	-1.3213572	-1.5254076
C	-1.5013253	-0.1623886	-2.1682427
H	-2.2062735	-0.2016292	-3.0098066
C	-1.0141502	0.9465194	-1.5163149
C	-1.1224912	-2.6632547	-1.8644276
H	-1.7894743	-2.8708031	-2.7157150
N	0.2290521	-3.7238538	-0.0760919
C	0.4447730	-5.0464323	0.3146644
C	-0.2423864	-5.9333395	-0.6130234
H	-0.2445979	-7.0288445	-0.5299137
C	-0.8941505	-5.1489790	-1.5305117
H	-1.5396833	-5.4608908	-2.3625814
C	-0.5992899	-3.7730502	-1.1844558
C	0.6249920	1.2462289	0.4145463
H	0.5397066	2.3404332	0.3256380
H	3.5039387	0.9918204	4.0562636
C	2.8518154	0.7361733	3.2099235
C	2.5049065	-0.6263525	2.8286731
H	2.2004063	2.6841328	2.3478859
N	1.6719977	-0.5871007	1.7109998
C	1.4592118	0.7520256	1.4278448
C	2.1965390	1.5858090	2.3572658
C	1.2055608	-5.5890129	1.3758312
H	1.3144651	-6.6850875	1.3491596
H	4.5491381	-4.1815279	4.3285658
C	3.6096692	-4.2314887	3.7624952
C	3.0664190	-5.3506862	3.1440850
H	3.4872967	-6.3642938	3.1265936
C	1.9175143	-4.9343428	2.3869636
N	1.7330582	-3.5861163	2.6772413
C	2.8026300	-3.0905566	3.4200355
C	3.0383209	-1.7170138	3.5586476
H	3.8131404	-1.4395133	4.2917288
Co	0.9215108	-2.0825508	0.6983763
N	0.6133002	-2.8614099	2.4009183
S	-0.8477822	-3.2857406	3.1533711
O	-0.7888511	-4.6838874	3.6497633
O	-1.9045184	-2.8095563	2.2371103
C	-0.8969716	-2.2231551	4.6194062
C	-0.9787156	-0.5801855	6.8766645
C	-1.2405749	-0.8677028	4.4699866
C	-0.6023309	-2.7713195	5.8783918
C	-0.6444261	-1.9389429	7.0104213
C	-1.2772101	-0.0475745	5.6079398
H	-1.4839261	-0.4719091	3.4719409
H	-0.3594696	-3.8420485	5.9582087
H	-0.4213890	-2.3590263	8.0053699
H	-1.5473089	1.0164351	5.5046700
H	-1.0136980	0.0685480	7.7676190
N	2.6199576	-1.9788112	-0.7591058

S	4.0620116	-3.0845939	-0.8770634
O	5.2648589	-2.2330685	-0.9092218
O	3.7975433	-4.0689166	0.1793541
C	3.8293714	-3.8329857	-2.4933339
C	3.4775437	-4.9825861	-4.9988149
C	4.6247881	-3.3848637	-3.5619040
C	2.8631036	-4.8428657	-2.6438334
C	2.6930030	-5.4155055	-3.9135049
C	4.4406662	-3.9729613	-4.8240828
H	5.3775981	-2.5995680	-3.3961278
H	2.2570576	-5.1737574	-1.7856192
H	1.9395331	-6.2072012	-4.0528844
H	5.0568271	-3.6401035	-5.6750098
H	3.3370654	-5.4389058	-5.9925173
N	2.7590808	-0.9412822	-1.4414082
N	2.7483036	0.0566488	-2.0156044

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	-0.119	0.463	-0.480	1.00	0.00
ATOM	2	N	111	1	-0.081	-0.914	-0.503	1.00	0.00
ATOM	3	H	111	1	-1.233	2.004	-1.716	1.00	0.00
ATOM	4	C	111	1	-0.907	-1.321	-1.525	1.00	0.00
ATOM	5	C	111	1	-1.501	-0.162	-2.168	1.00	0.00
ATOM	6	H	111	1	-2.206	-0.202	-3.010	1.00	0.00
ATOM	7	C	111	1	-1.014	0.947	-1.516	1.00	0.00
ATOM	8	C	111	1	-1.122	-2.663	-1.864	1.00	0.00
ATOM	9	H	111	1	-1.789	-2.871	-2.716	1.00	0.00
ATOM	10	N	111	1	0.229	-3.724	-0.076	1.00	0.00
ATOM	11	C	111	1	0.445	-5.046	0.315	1.00	0.00
ATOM	12	C	111	1	-0.242	-5.933	-0.613	1.00	0.00
ATOM	13	H	111	1	-0.245	-7.029	-0.530	1.00	0.00
ATOM	14	C	111	1	-0.894	-5.149	-1.531	1.00	0.00
ATOM	15	H	111	1	-1.540	-5.461	-2.363	1.00	0.00
ATOM	16	C	111	1	-0.599	-3.773	-1.184	1.00	0.00
ATOM	17	C	111	1	0.625	1.246	0.415	1.00	0.00
ATOM	18	H	111	1	0.540	2.340	0.326	1.00	0.00
ATOM	19	H	111	1	3.504	0.992	4.056	1.00	0.00
ATOM	20	C	111	1	2.852	0.736	3.210	1.00	0.00
ATOM	21	C	111	1	2.505	-0.626	2.829	1.00	0.00
ATOM	22	H	111	1	2.200	2.684	2.348	1.00	0.00
ATOM	23	N	111	1	1.672	-0.587	1.711	1.00	0.00
ATOM	24	C	111	1	1.459	0.752	1.428	1.00	0.00
ATOM	25	C	111	1	2.197	1.586	2.357	1.00	0.00
ATOM	26	C	111	1	1.206	-5.589	1.376	1.00	0.00
ATOM	27	H	111	1	1.314	-6.685	1.349	1.00	0.00
ATOM	28	H	111	1	4.549	-4.182	4.329	1.00	0.00
ATOM	29	C	111	1	3.610	-4.231	3.762	1.00	0.00
ATOM	30	C	111	1	3.066	-5.351	3.144	1.00	0.00
ATOM	31	H	111	1	3.487	-6.364	3.127	1.00	0.00
ATOM	32	C	111	1	1.918	-4.934	2.387	1.00	0.00
ATOM	33	N	111	1	1.733	-3.586	2.677	1.00	0.00
ATOM	34	C	111	1	2.803	-3.091	3.420	1.00	0.00
ATOM	35	C	111	1	3.038	-1.717	3.559	1.00	0.00
ATOM	36	H	111	1	3.813	-1.440	4.292	1.00	0.00
ATOM	37	Co	111	1	0.922	-2.083	0.698	1.00	0.00
ATOM	38	N	111	1	0.613	-2.861	2.401	1.00	0.00

ATOM	39	S	111	1	-0.848	-3.286	3.153	1.00	0.00
ATOM	40	O	111	1	-0.789	-4.684	3.650	1.00	0.00
ATOM	41	O	111	1	-1.905	-2.810	2.237	1.00	0.00
ATOM	42	C	111	1	-0.897	-2.223	4.619	1.00	0.00
ATOM	43	C	111	1	-0.979	-0.580	6.877	1.00	0.00
ATOM	44	C	111	1	-1.241	-0.868	4.470	1.00	0.00
ATOM	45	C	111	1	-0.602	-2.771	5.878	1.00	0.00
ATOM	46	C	111	1	-0.644	-1.939	7.010	1.00	0.00
ATOM	47	C	111	1	-1.277	-0.048	5.608	1.00	0.00
ATOM	48	H	111	1	-1.484	-0.472	3.472	1.00	0.00
ATOM	49	H	111	1	-0.359	-3.842	5.958	1.00	0.00
ATOM	50	H	111	1	-0.421	-2.359	8.005	1.00	0.00
ATOM	51	H	111	1	-1.547	1.016	5.505	1.00	0.00
ATOM	52	H	111	1	-1.014	0.069	7.768	1.00	0.00
ATOM	53	N	111	1	2.620	-1.979	-0.759	1.00	0.00
ATOM	54	S	111	1	4.062	-3.085	-0.877	1.00	0.00
ATOM	55	O	111	1	5.265	-2.233	-0.909	1.00	0.00
ATOM	56	O	111	1	3.798	-4.069	0.179	1.00	0.00
ATOM	57	C	111	1	3.829	-3.833	-2.493	1.00	0.00
ATOM	58	C	111	1	3.478	-4.983	-4.999	1.00	0.00
ATOM	59	C	111	1	4.625	-3.385	-3.562	1.00	0.00
ATOM	60	C	111	1	2.863	-4.843	-2.644	1.00	0.00
ATOM	61	C	111	1	2.693	-5.416	-3.914	1.00	0.00
ATOM	62	C	111	1	4.441	-3.973	-4.824	1.00	0.00
ATOM	63	H	111	1	5.378	-2.600	-3.396	1.00	0.00
ATOM	64	H	111	1	2.257	-5.174	-1.786	1.00	0.00
ATOM	65	H	111	1	1.940	-6.207	-4.053	1.00	0.00
ATOM	66	H	111	1	5.057	-3.640	-5.675	1.00	0.00
ATOM	67	H	111	1	3.337	-5.439	-5.993	1.00	0.00
ATOM	68	N	111	1	2.759	-0.941	-1.441	1.00	0.00
ATOM	69	N	111	1	2.748	0.057	-2.016	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	37						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	37					
CONECT	11	12	26						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	18	24						
CONECT	19	20							
CONECT	20	21	25						
CONECT	21	23	35						
CONECT	22	25							
CONECT	23	24	37						
CONECT	24	25							
CONECT	26	27	32						
CONECT	28	29							
CONECT	29	30	34						
CONECT	30	31	32						
CONECT	32	33							
CONECT	33	34	38						
CONECT	34	35							
CONECT	35	36							
CONECT	37	38							
CONECT	38	39							
CONECT	39	40	41	42					
CONECT	42	44	45						

CONECT 43 46 47 52
CONECT 44 47 48
CONECT 45 46 49
CONECT 46 50
CONECT 47 51
CONECT 53 54 68
CONECT 54 55 56 57
CONECT 57 59 60
CONECT 58 61 62 67
CONECT 59 62 63
CONECT 60 61 64
CONECT 61 65
CONECT 62 66
CONECT 68 69
END

III

Xyz file

69

Energy = -4151.7226911900
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N 0.0070564 -0.5262986 -0.2917570
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C -1.2436159 -0.5902859 -0.8796302
C -1.6345270 0.7092512 -1.3803763
H -2.5797361 0.9186075 -1.8987834
C -0.5973310 1.5654402 -1.1049185
C -1.9802974 -1.7587762 -1.0648567
H -2.9618503 -1.6821286 -1.5554575
N -0.2996039 -3.2951603 -0.1189586
C -0.1768438 -4.6748128 -0.1217088
C -1.3046956 -5.2814637 -0.7925039
H -1.4371748 -6.3625733 -0.9324837
C -2.1429811 -4.2587751 -1.1594207
H -3.1085610 -4.3137187 -1.6791887
C -1.5012629 -3.0292215 -0.7543093
C 1.5518473 1.3416045 0.1727279
H 1.7526693 2.4095952 -0.0016394
H 4.7196709 0.4114050 3.4320409
C 3.9235684 0.3249667 2.6803732
C 3.2004812 -0.8945959 2.3824608
H 3.7371411 2.3375065 1.7365439
N 2.2754644 -0.6780889 1.3835299
C 2.3902716 0.6545524 1.0507359
C 3.4390127 1.2845573 1.8289095
C 0.8426871 -5.3924277 0.4982564
H 0.8185130 -6.4899727 0.4256067
H 4.1661381 -4.8181544 3.6859824
C 3.3995214 -4.6424665 2.9191834
C 2.7134866 -5.5615873 2.1624163
H 2.7772930 -6.6578242 2.1877850
C 1.8061169 -4.8119580 1.3216224
N 1.9739617 -3.4558146 1.5215074
C 2.9390869 -3.3353348 2.5033336
C 3.4818034 -2.1331086 2.9561732
H 4.2456009 -2.1767783 3.7474266
Co 0.9218539 -1.9854751 0.7234506
N -0.0533785 -1.6562538 2.2065290
S -1.1886262 -2.7551187 2.8023181

O	-0.6672772	-4.1327553	3.0330880
O	-2.4893784	-2.5849025	2.0902918
C	-1.3902794	-1.9889328	4.4384219
C	-1.7458784	-0.8523921	6.9623094
C	-2.2587108	-0.8933981	4.5807421
C	-0.7014990	-2.5294657	5.5360298
C	-0.8856368	-1.9541321	6.8043774
C	-2.4318116	-0.3244245	5.8524761
H	-2.7954091	-0.5071699	3.7005728
H	-0.0435133	-3.3990565	5.3852003
H	-0.3567435	-2.3720133	7.6772522
H	-3.1115192	0.5345894	5.9798105
H	-1.8865187	-0.4035220	7.9597600
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S	4.0961785	-2.1998716	-1.5727314
O	4.3167318	-1.2725416	-2.6972676
O	4.6591262	-2.0006860	-0.2342090
C	4.4163853	-3.8805788	-2.1204492
C	4.9430094	-6.4733512	-2.9703096
C	4.5283532	-4.1318758	-3.4988004
C	4.5659782	-4.8907564	-1.1545420
C	4.8316200	-6.1965694	-1.5953006
C	4.7938359	-5.4455997	-3.9185124
H	4.4250200	-3.3079257	-4.2211660
H	4.4823670	-4.6571791	-0.0817374
H	4.9548227	-7.0035101	-0.8550112
H	4.8906749	-5.6641367	-4.9943506
H	5.1530336	-7.5018954	-3.3066078
N	1.6376604	-2.1621312	-2.3343309
N	0.9617378	-2.0919262	-3.2593401

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	0.402	0.794	-0.397	1.00	0.00
ATOM	2	N	111	1	0.007	-0.526	-0.292	1.00	0.00
ATOM	3	H	111	1	-0.510	2.636	-1.334	1.00	0.00
ATOM	4	C	111	1	-1.244	-0.590	-0.880	1.00	0.00
ATOM	5	C	111	1	-1.635	0.709	-1.380	1.00	0.00
ATOM	6	H	111	1	-2.580	0.919	-1.899	1.00	0.00
ATOM	7	C	111	1	-0.597	1.565	-1.105	1.00	0.00
ATOM	8	C	111	1	-1.980	-1.759	-1.065	1.00	0.00
ATOM	9	H	111	1	-2.962	-1.682	-1.555	1.00	0.00
ATOM	10	N	111	1	-0.300	-3.295	-0.119	1.00	0.00
ATOM	11	C	111	1	-0.177	-4.675	-0.122	1.00	0.00
ATOM	12	C	111	1	-1.305	-5.281	-0.793	1.00	0.00
ATOM	13	H	111	1	-1.437	-6.363	-0.932	1.00	0.00
ATOM	14	C	111	1	-2.143	-4.259	-1.159	1.00	0.00
ATOM	15	H	111	1	-3.109	-4.314	-1.679	1.00	0.00
ATOM	16	C	111	1	-1.501	-3.029	-0.754	1.00	0.00
ATOM	17	C	111	1	1.552	1.342	0.173	1.00	0.00
ATOM	18	H	111	1	1.753	2.410	-0.002	1.00	0.00
ATOM	19	H	111	1	4.720	0.411	3.432	1.00	0.00
ATOM	20	C	111	1	3.924	0.325	2.680	1.00	0.00
ATOM	21	C	111	1	3.200	-0.895	2.382	1.00	0.00
ATOM	22	H	111	1	3.737	2.338	1.737	1.00	0.00
ATOM	23	N	111	1	2.275	-0.678	1.384	1.00	0.00
ATOM	24	C	111	1	2.390	0.655	1.051	1.00	0.00

ATOM	25	C	111	1	3.439	1.285	1.829	1.00	0.00
ATOM	26	C	111	1	0.843	-5.392	0.498	1.00	0.00
ATOM	27	H	111	1	0.819	-6.490	0.426	1.00	0.00
ATOM	28	H	111	1	4.166	-4.818	3.686	1.00	0.00
ATOM	29	C	111	1	3.400	-4.642	2.919	1.00	0.00
ATOM	30	C	111	1	2.713	-5.562	2.162	1.00	0.00
ATOM	31	H	111	1	2.777	-6.658	2.188	1.00	0.00
ATOM	32	C	111	1	1.806	-4.812	1.322	1.00	0.00
ATOM	33	N	111	1	1.974	-3.456	1.522	1.00	0.00
ATOM	34	C	111	1	2.939	-3.335	2.503	1.00	0.00
ATOM	35	C	111	1	3.482	-2.133	2.956	1.00	0.00
ATOM	36	H	111	1	4.246	-2.177	3.747	1.00	0.00
ATOM	37	Co	111	1	0.922	-1.985	0.723	1.00	0.00
ATOM	38	N	111	1	-0.053	-1.656	2.207	1.00	0.00
ATOM	39	S	111	1	-1.189	-2.755	2.802	1.00	0.00
ATOM	40	O	111	1	-0.667	-4.133	3.033	1.00	0.00
ATOM	41	O	111	1	-2.489	-2.585	2.090	1.00	0.00
ATOM	42	C	111	1	-1.390	-1.989	4.438	1.00	0.00
ATOM	43	C	111	1	-1.746	-0.852	6.962	1.00	0.00
ATOM	44	C	111	1	-2.259	-0.893	4.581	1.00	0.00
ATOM	45	C	111	1	-0.701	-2.529	5.536	1.00	0.00
ATOM	46	C	111	1	-0.886	-1.954	6.804	1.00	0.00
ATOM	47	C	111	1	-2.432	-0.324	5.852	1.00	0.00
ATOM	48	H	111	1	-2.795	-0.507	3.701	1.00	0.00
ATOM	49	H	111	1	-0.044	-3.399	5.385	1.00	0.00
ATOM	50	H	111	1	-0.357	-2.372	7.677	1.00	0.00
ATOM	51	H	111	1	-3.112	0.535	5.980	1.00	0.00
ATOM	52	H	111	1	-1.887	-0.404	7.960	1.00	0.00
ATOM	53	N	111	1	2.289	-2.244	-1.277	1.00	0.00
ATOM	54	S	111	1	4.096	-2.200	-1.573	1.00	0.00
ATOM	55	O	111	1	4.317	-1.273	-2.697	1.00	0.00
ATOM	56	O	111	1	4.659	-2.001	-0.234	1.00	0.00
ATOM	57	C	111	1	4.416	-3.881	-2.120	1.00	0.00
ATOM	58	C	111	1	4.943	-6.473	-2.970	1.00	0.00
ATOM	59	C	111	1	4.528	-4.132	-3.499	1.00	0.00
ATOM	60	C	111	1	4.566	-4.891	-1.155	1.00	0.00
ATOM	61	C	111	1	4.832	-6.197	-1.595	1.00	0.00
ATOM	62	C	111	1	4.794	-5.446	-3.919	1.00	0.00
ATOM	63	H	111	1	4.425	-3.308	-4.221	1.00	0.00
ATOM	64	H	111	1	4.482	-4.657	-0.082	1.00	0.00
ATOM	65	H	111	1	4.955	-7.004	-0.855	1.00	0.00
ATOM	66	H	111	1	4.891	-5.664	-4.994	1.00	0.00
ATOM	67	H	111	1	5.153	-7.502	-3.307	1.00	0.00
ATOM	68	N	111	1	1.638	-2.162	-2.334	1.00	0.00
ATOM	69	N	111	1	0.962	-2.092	-3.259	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	37						
CONECT	3		7						
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
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CONECT	11	12	26						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	18	24						
CONECT	19	20							
CONECT	20	21	25						
CONECT	21	23	35						
CONECT	22	25							

CONECT 23 24 37
CONECT 24 25
CONECT 26 27 32
CONECT 28 29
CONECT 29 30 34
CONECT 30 31 32
CONECT 32 33
CONECT 33 34 37
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CONECT 35 36
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CONECT 68 69
END

IV

Xyz file

67

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C -0.0239677 1.0531156 -0.3091792
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H -1.0330045 2.8820112 -1.1755608
C -1.5251339 -0.4157485 -0.9577175
C -1.9916577 0.8799025 -1.4086319
H -2.9195507 1.0459617 -1.9719934
C -1.0485273 1.7958190 -1.0144971
C -2.1638731 -1.6194352 -1.2597049
H -3.1044234 -1.5690265 -1.8285519
N -0.5372635 -3.1379904 -0.1986960
C -0.4190344 -4.5086548 -0.1364846
C -1.5067587 -5.1374038 -0.8544062
H -1.6440790 -6.2226635 -0.9478623
C -2.2948385 -4.1249381 -1.3412572
H -3.2202632 -4.1940851 -1.9281431
C -1.6750741 -2.8825929 -0.9334383
C 1.1137161 1.6270047 0.2613547
H 1.2516526 2.7130956 0.1476913
H 4.6739432 0.6529249 3.0721015
C 3.7980816 0.5742129 2.4145540
C 3.0965778 -0.6587214 2.1291150
H 3.3955505 2.6338069 1.6568860
N 2.0448938 -0.4258939 1.2692199
C 2.0618427 0.9291479 1.0094843

C	3.1638045	1.5613958	1.7040687
C	0.5656447	-5.2019423	0.5641143
H	0.5218535	-6.3008980	0.5560894
H	4.1527913	-4.5646701	3.4353983
C	3.3172586	-4.4050230	2.7410908
C	2.5203186	-5.3353278	2.1242498
H	2.5498651	-6.4298392	2.2039264
C	1.5759084	-4.6010402	1.3113080
N	1.8096978	-3.2465134	1.4125682
C	2.8688728	-3.1078305	2.2828863
C	3.4644433	-1.9007833	2.6436696
H	4.3160981	-1.9362464	3.3395890
Co	0.7567764	-1.7642041	0.5606999
N	-0.2973603	-1.6746744	2.1016525
S	-1.6118611	-2.4890697	2.6939122
O	-1.2936579	-3.9229065	2.9385137
O	-2.8211832	-2.1258392	1.9021721
C	-1.7787898	-1.6953921	4.3086751
C	-2.0425463	-0.4717692	6.8011654
C	-2.5136274	-0.5006669	4.4112572
C	-1.1793238	-2.2922601	5.4311248
C	-1.3169775	-1.6714900	6.6829656
C	-2.6407763	0.1106042	5.6681922
H	-2.9848265	-0.0725429	3.5130850
H	-0.6268761	-3.2373112	5.3132726
H	-0.8578896	-2.1300891	7.5743881
H	-3.2157827	1.0461358	5.7656083
H	-2.1471910	0.0115037	7.7866917
N	1.5748300	-1.9339210	-1.1026119
S	3.0695773	-2.6350338	-1.3451178
O	4.1480559	-1.9991303	-0.5352580
O	2.9416742	-4.1214861	-1.3551613
C	3.3410011	-2.1125527	-3.0606754
C	3.7788926	-1.3190495	-5.6994431
C	4.0401672	-0.9199827	-3.3102287
C	2.8617356	-2.9189512	-4.1067335
C	3.0860746	-2.5145210	-5.4322335
C	4.2568627	-0.5256753	-4.6405998
H	4.4166031	-0.3244043	-2.4644162
H	2.3330060	-3.8558977	-3.8727028
H	2.7211475	-3.1398739	-6.2638421
H	4.8078549	0.4057372	-4.8520747
H	3.9517915	-1.0056355	-6.7424326

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	-0.024	1.053	-0.309	1.00	0.00
ATOM	2	N	111	1	-0.339	-0.284	-0.274	1.00	0.00
ATOM	3	H	111	1	-1.033	2.882	-1.176	1.00	0.00
ATOM	4	C	111	1	-1.525	-0.416	-0.958	1.00	0.00
ATOM	5	C	111	1	-1.992	0.880	-1.409	1.00	0.00
ATOM	6	H	111	1	-2.920	1.046	-1.972	1.00	0.00
ATOM	7	C	111	1	-1.049	1.796	-1.014	1.00	0.00
ATOM	8	C	111	1	-2.164	-1.619	-1.260	1.00	0.00
ATOM	9	H	111	1	-3.104	-1.569	-1.829	1.00	0.00
ATOM	10	N	111	1	-0.537	-3.138	-0.199	1.00	0.00
ATOM	11	C	111	1	-0.419	-4.509	-0.136	1.00	0.00

ATOM	12	C	111	1	-1.507	-5.137	-0.854	1.00	0.00
ATOM	13	H	111	1	-1.644	-6.223	-0.948	1.00	0.00
ATOM	14	C	111	1	-2.295	-4.125	-1.341	1.00	0.00
ATOM	15	H	111	1	-3.220	-4.194	-1.928	1.00	0.00
ATOM	16	C	111	1	-1.675	-2.883	-0.933	1.00	0.00
ATOM	17	C	111	1	1.114	1.627	0.261	1.00	0.00
ATOM	18	H	111	1	1.252	2.713	0.148	1.00	0.00
ATOM	19	H	111	1	4.674	0.653	3.072	1.00	0.00
ATOM	20	C	111	1	3.798	0.574	2.415	1.00	0.00
ATOM	21	C	111	1	3.097	-0.659	2.129	1.00	0.00
ATOM	22	H	111	1	3.396	2.634	1.657	1.00	0.00
ATOM	23	N	111	1	2.045	-0.426	1.269	1.00	0.00
ATOM	24	C	111	1	2.062	0.929	1.009	1.00	0.00
ATOM	25	C	111	1	3.164	1.561	1.704	1.00	0.00
ATOM	26	C	111	1	0.566	-5.202	0.564	1.00	0.00
ATOM	27	H	111	1	0.522	-6.301	0.556	1.00	0.00
ATOM	28	H	111	1	4.153	-4.565	3.435	1.00	0.00
ATOM	29	C	111	1	3.317	-4.405	2.741	1.00	0.00
ATOM	30	C	111	1	2.520	-5.335	2.124	1.00	0.00
ATOM	31	H	111	1	2.550	-6.430	2.204	1.00	0.00
ATOM	32	C	111	1	1.576	-4.601	1.311	1.00	0.00
ATOM	33	N	111	1	1.810	-3.247	1.413	1.00	0.00
ATOM	34	C	111	1	2.869	-3.108	2.283	1.00	0.00
ATOM	35	C	111	1	3.464	-1.901	2.644	1.00	0.00
ATOM	36	H	111	1	4.316	-1.936	3.340	1.00	0.00
ATOM	37	Co	111	1	0.757	-1.764	0.561	1.00	0.00
ATOM	38	N	111	1	-0.297	-1.675	2.102	1.00	0.00
ATOM	39	S	111	1	-1.612	-2.489	2.694	1.00	0.00
ATOM	40	O	111	1	-1.294	-3.923	2.939	1.00	0.00
ATOM	41	O	111	1	-2.821	-2.126	1.902	1.00	0.00
ATOM	42	C	111	1	-1.779	-1.695	4.309	1.00	0.00
ATOM	43	C	111	1	-2.043	-0.472	6.801	1.00	0.00
ATOM	44	C	111	1	-2.514	-0.501	4.411	1.00	0.00
ATOM	45	C	111	1	-1.179	-2.292	5.431	1.00	0.00
ATOM	46	C	111	1	-1.317	-1.671	6.683	1.00	0.00
ATOM	47	C	111	1	-2.641	0.111	5.668	1.00	0.00
ATOM	48	H	111	1	-2.985	-0.073	3.513	1.00	0.00
ATOM	49	H	111	1	-0.627	-3.237	5.313	1.00	0.00
ATOM	50	H	111	1	-0.858	-2.130	7.574	1.00	0.00
ATOM	51	H	111	1	-3.216	1.046	5.766	1.00	0.00
ATOM	52	H	111	1	-2.147	0.012	7.787	1.00	0.00
ATOM	53	N	111	1	1.575	-1.934	-1.103	1.00	0.00
ATOM	54	S	111	1	3.070	-2.635	-1.345	1.00	0.00
ATOM	55	O	111	1	4.148	-1.999	-0.535	1.00	0.00
ATOM	56	O	111	1	2.942	-4.121	-1.355	1.00	0.00
ATOM	57	C	111	1	3.341	-2.113	-3.061	1.00	0.00
ATOM	58	C	111	1	3.779	-1.319	-5.699	1.00	0.00
ATOM	59	C	111	1	4.040	-0.920	-3.310	1.00	0.00
ATOM	60	C	111	1	2.862	-2.919	-4.107	1.00	0.00
ATOM	61	C	111	1	3.086	-2.515	-5.432	1.00	0.00
ATOM	62	C	111	1	4.257	-0.526	-4.641	1.00	0.00
ATOM	63	H	111	1	4.417	-0.324	-2.464	1.00	0.00
ATOM	64	H	111	1	2.333	-3.856	-3.873	1.00	0.00
ATOM	65	H	111	1	2.721	-3.140	-6.264	1.00	0.00
ATOM	66	H	111	1	4.808	0.406	-4.852	1.00	0.00
ATOM	67	H	111	1	3.952	-1.006	-6.742	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	37						
CONECT	3	7							
CONECT	4	5	8						

CONECT 5 6 7
CONECT 8 9 16
CONECT 10 11 16 37
CONECT 11 12 26
CONECT 12 13 14
CONECT 14 15 16
CONECT 17 18 24
CONECT 19 20
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CONECT 45 46 49
CONECT 46 50
CONECT 47 51
CONECT 53 54
CONECT 54 55 56 57
CONECT 57 59 60
CONECT 58 61 62 67
CONECT 59 62 63
CONECT 60 61 64
CONECT 61 65
CONECT 62 66
END

V
Xyz file
67
Energy = -4042.1534795150
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H -0.5313356 2.8746773 -1.1771720
C -1.9131738 -0.1914903 -1.2700712
C -1.7520100 1.1267034 -1.8359014
H -2.1395605 1.4382002 -2.8148263
C -0.9256283 1.8671309 -0.9925445
C -2.3459389 -1.4049367 -1.8354263
H -2.9712221 -1.2955563 -2.7369172
N -1.1095113 -3.3271530 -0.6502524
C -1.0806728 -4.6768726 -0.9180927
C -2.0549815 -5.0034763 -1.9426809
H -2.2552264 -6.0136942 -2.3238877
C -2.6163515 -3.8165786 -2.3354121

H	-3.3837539	-3.6498276	-3.1033809
C	-2.0182925	-2.7525840	-1.5366151
C	0.4619793	1.1177582	1.0887883
H	0.8613555	2.1338871	1.2418506
H	3.7381664	-0.6321162	3.8651277
C	2.8929546	-0.5699009	3.1670504
C	2.2792080	-1.7025082	2.5052168
H	2.4450756	1.5973230	2.9658320
N	1.2330752	-1.2758398	1.7160273
C	1.1961834	0.1231759	1.7916968
C	2.2400658	0.5478123	2.7142551
C	-0.1807376	-5.5937281	-0.3497271
H	-0.2983281	-6.6504063	-0.6362582
H	3.3367597	-5.8806415	2.7099880
C	2.5555665	-5.5078001	2.0341348
C	1.7380203	-6.2320509	1.1973592
H	1.7113640	-7.3198532	1.0487818
C	0.8585131	-5.2828210	0.5389169
N	1.1672044	-4.0101276	0.9638859
C	2.1800200	-4.1137510	1.8910240
C	2.7115749	-3.0338126	2.6071806
H	3.5433594	-3.2417062	3.2972391
Co	0.1709635	-2.4432676	0.5668487
N	-1.1606905	-1.1537365	0.8523496
N	0.9199997	-1.7486290	-0.9066808
S	2.5835715	-1.4801074	-1.0539969
O	2.8893793	-0.0537292	-0.7385504
O	3.4519055	-2.5460446	-0.4817426
C	2.6537964	-1.6449137	-2.8619333
C	2.7760919	-1.8987485	-5.6376030
C	2.3751928	-0.5263042	-3.6648329
C	3.0014461	-2.8854489	-3.4213278
C	3.0610549	-3.0070866	-4.8191316
C	2.4381209	-0.6603155	-5.0609380
H	2.1250133	0.4336962	-3.1876825
H	3.2311732	-3.7328357	-2.7571051
H	3.3343686	-3.9740392	-5.2732093
H	2.2270111	0.2097464	-5.7046895
H	2.8227311	-1.9996314	-6.7347284
S	-2.3605634	-1.7865484	1.8150517
C	-2.5425742	-0.6532003	3.2058152
C	-2.8136713	1.1274405	5.3339595
C	-1.5577656	-0.6330273	4.2092514
C	-3.6636168	0.1920619	3.2520355
C	-3.7919727	1.0892420	4.3251792
C	-1.7024191	0.2653176	5.2771260
H	-0.7007182	-1.3210771	4.1512773
H	-4.4239638	0.1290865	2.4585520
H	-4.6670610	1.7581262	4.3747391
H	-0.9411024	0.2911613	6.0739795
H	-2.9195586	1.8324000	6.1751479
O	-1.6017372	-2.9931528	2.2866711
O	-3.6966006	-1.9020692	1.1884551

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	-0.562	1.031	0.124	1.00	0.00
ATOM	2	N	111	1	-1.313	-0.117	-0.031	1.00	0.00
ATOM	3	H	111	1	-0.531	2.875	-1.177	1.00	0.00
ATOM	4	C	111	1	-1.913	-0.191	-1.270	1.00	0.00
ATOM	5	C	111	1	-1.752	1.127	-1.836	1.00	0.00
ATOM	6	H	111	1	-2.140	1.438	-2.815	1.00	0.00
ATOM	7	C	111	1	-0.926	1.867	-0.993	1.00	0.00
ATOM	8	C	111	1	-2.346	-1.405	-1.835	1.00	0.00
ATOM	9	H	111	1	-2.971	-1.296	-2.737	1.00	0.00
ATOM	10	N	111	1	-1.110	-3.327	-0.650	1.00	0.00
ATOM	11	C	111	1	-1.081	-4.677	-0.918	1.00	0.00
ATOM	12	C	111	1	-2.055	-5.003	-1.943	1.00	0.00
ATOM	13	H	111	1	-2.255	-6.014	-2.324	1.00	0.00
ATOM	14	C	111	1	-2.616	-3.817	-2.335	1.00	0.00
ATOM	15	H	111	1	-3.384	-3.650	-3.103	1.00	0.00
ATOM	16	C	111	1	-2.018	-2.753	-1.537	1.00	0.00
ATOM	17	C	111	1	0.462	1.118	1.089	1.00	0.00
ATOM	18	H	111	1	0.861	2.134	1.242	1.00	0.00
ATOM	19	H	111	1	3.738	-0.632	3.865	1.00	0.00
ATOM	20	C	111	1	2.893	-0.570	3.167	1.00	0.00
ATOM	21	C	111	1	2.279	-1.703	2.505	1.00	0.00
ATOM	22	H	111	1	2.445	1.597	2.966	1.00	0.00
ATOM	23	N	111	1	1.233	-1.276	1.716	1.00	0.00
ATOM	24	C	111	1	1.196	0.123	1.792	1.00	0.00
ATOM	25	C	111	1	2.240	0.548	2.714	1.00	0.00
ATOM	26	C	111	1	-0.181	-5.594	-0.350	1.00	0.00
ATOM	27	H	111	1	-0.298	-6.650	-0.636	1.00	0.00
ATOM	28	H	111	1	3.337	-5.881	2.710	1.00	0.00
ATOM	29	C	111	1	2.556	-5.508	2.034	1.00	0.00
ATOM	30	C	111	1	1.738	-6.232	1.197	1.00	0.00
ATOM	31	H	111	1	1.711	-7.320	1.049	1.00	0.00
ATOM	32	C	111	1	0.859	-5.283	0.539	1.00	0.00
ATOM	33	N	111	1	1.167	-4.010	0.964	1.00	0.00
ATOM	34	C	111	1	2.180	-4.114	1.891	1.00	0.00
ATOM	35	C	111	1	2.712	-3.034	2.607	1.00	0.00
ATOM	36	H	111	1	3.543	-3.242	3.297	1.00	0.00
ATOM	37	Co	111	1	0.171	-2.443	0.567	1.00	0.00
ATOM	38	N	111	1	-1.161	-1.154	0.852	1.00	0.00
ATOM	39	N	111	1	0.920	-1.749	-0.907	1.00	0.00
ATOM	40	S	111	1	2.584	-1.480	-1.054	1.00	0.00
ATOM	41	O	111	1	2.889	-0.054	-0.739	1.00	0.00
ATOM	42	O	111	1	3.452	-2.546	-0.482	1.00	0.00
ATOM	43	C	111	1	2.654	-1.645	-2.862	1.00	0.00
ATOM	44	C	111	1	2.776	-1.899	-5.638	1.00	0.00
ATOM	45	C	111	1	2.375	-0.526	-3.665	1.00	0.00
ATOM	46	C	111	1	3.001	-2.885	-3.421	1.00	0.00
ATOM	47	C	111	1	3.061	-3.007	-4.819	1.00	0.00
ATOM	48	C	111	1	2.438	-0.660	-5.061	1.00	0.00
ATOM	49	H	111	1	2.125	0.434	-3.188	1.00	0.00
ATOM	50	H	111	1	3.231	-3.733	-2.757	1.00	0.00
ATOM	51	H	111	1	3.334	-3.974	-5.273	1.00	0.00
ATOM	52	H	111	1	2.227	0.210	-5.705	1.00	0.00
ATOM	53	H	111	1	2.823	-2.000	-6.735	1.00	0.00
ATOM	54	S	111	1	-2.361	-1.787	1.815	1.00	0.00
ATOM	55	C	111	1	-2.543	-0.653	3.206	1.00	0.00
ATOM	56	C	111	1	-2.814	1.127	5.334	1.00	0.00
ATOM	57	C	111	1	-1.558	-0.633	4.209	1.00	0.00

ATOM	58	C	111	1	-3.664	0.192	3.252	1.00	0.00
ATOM	59	C	111	1	-3.792	1.089	4.325	1.00	0.00
ATOM	60	C	111	1	-1.702	0.265	5.277	1.00	0.00
ATOM	61	H	111	1	-0.701	-1.321	4.151	1.00	0.00
ATOM	62	H	111	1	-4.424	0.129	2.459	1.00	0.00
ATOM	63	H	111	1	-4.667	1.758	4.375	1.00	0.00
ATOM	64	H	111	1	-0.941	0.291	6.074	1.00	0.00
ATOM	65	H	111	1	-2.920	1.832	6.175	1.00	0.00
ATOM	66	O	111	1	-1.602	-2.993	2.287	1.00	0.00
ATOM	67	O	111	1	-3.697	-1.902	1.188	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	38						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	37					
CONECT	11	12	26						
CONECT	12	13	14						
CONECT	14	15	16						
CONECT	17	18	24						
CONECT	19	20							
CONECT	20	21	25						
CONECT	21	23	35						
CONECT	22	25							
CONECT	23	24	37						
CONECT	24	25							
CONECT	26	27	32						
CONECT	28	29							
CONECT	29	30	34						
CONECT	30	31	32						
CONECT	32	33							
CONECT	33	34	37						
CONECT	34	35							
CONECT	35	36							
CONECT	37	38	39						
CONECT	38	54							
CONECT	39	40							
CONECT	40	41	42	43					
CONECT	43	45	46						
CONECT	44	47	48	53					
CONECT	45	48	49						
CONECT	46	47	50						
CONECT	47	51							
CONECT	48	52							
CONECT	54	55	66	67					
CONECT	55	57	58						
CONECT	56	59	60	65					
CONECT	57	60	61						
CONECT	58	59	62						
CONECT	59	63							
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VI

Xyz file

67

Energy = -4042.1359362610

C	-0.9594126	1.4978486	0.2604366
N	-1.5002469	0.2366971	0.0119849
H	-1.2738657	3.4391764	-0.8258787
C	-2.2369234	0.2421022	-1.1718795
C	-2.3020395	1.6106527	-1.5924238
H	-2.8035174	1.9581744	-2.5050932
C	-1.5196071	2.3740300	-0.7251422
C	-2.6174462	-0.9354920	-1.8458583
H	-3.3768477	-0.8071243	-2.6340098
N	-0.9808412	-2.6753622	-1.0161441
C	-0.8065993	-4.0212992	-1.3274266
C	-1.8352457	-4.4318459	-2.2795617
H	-1.9346669	-5.4481432	-2.6841574
C	-2.5993522	-3.3333915	-2.5529009
H	-3.4625443	-3.2531752	-3.2269656
C	-2.0758574	-2.2322660	-1.7495917
C	0.0882720	1.6925414	1.1835595
H	0.2960135	2.7409733	1.4536927
H	3.6633513	-0.0075934	3.6060875
C	2.8008603	0.0714823	2.9309433
C	2.2746643	-1.0318508	2.1328682
H	2.1420292	2.1887083	3.0515672
N	1.1833597	-0.5887489	1.3938098
C	1.0101774	0.7581683	1.7015099
C	2.0399674	1.1707872	2.6515316
C	0.1119525	-4.9574579	-0.8071924
H	-0.0949145	-6.0052308	-1.0806084
H	2.9712618	-5.2224536	2.9070217
C	2.4793291	-4.8761527	1.9886593
C	1.7015812	-5.6397654	1.1170119
H	1.4519591	-6.7040404	1.2175392
C	1.1525724	-4.7646761	0.1247925
N	1.6948195	-3.5042033	0.3737964
C	2.4227450	-3.5084616	1.5641411
C	2.8070701	-2.3313574	2.2370338
H	3.5640107	-2.4615466	3.0271835
Co	0.1023900	-1.6335356	0.1889372
N	-1.4128726	-0.7985262	0.9050584
N	1.6148623	-2.4762741	-0.5283512
S	3.0205178	-1.9387244	-1.3006597
O	2.7015698	-0.5503860	-1.6982601
O	4.2327420	-2.2894472	-0.5166191
C	3.0938523	-2.9310987	-2.8145260
C	3.1884816	-4.4618911	-5.1493503
C	2.3139454	-2.5476017	-3.9196815
C	3.9286433	-4.0602136	-2.8622081
C	3.9688675	-4.8282000	-4.0387752
C	2.3651571	-3.3214773	-5.0893147
H	1.6882729	-1.6440738	-3.8561695
H	4.5482581	-4.3156308	-1.9886387
H	4.6233191	-5.7143067	-4.0903709
H	1.7622825	-3.0281212	-5.9648002
H	3.2274090	-5.0636469	-6.0724807
S	-2.8082088	-1.3261808	1.7024260
C	-2.7716365	-0.4299919	3.2762445
C	-2.6560041	0.9765286	5.6874914
C	-2.0264246	-0.9580348	4.3449388
C	-3.4736530	0.7809242	3.3994475
C	-3.4075742	1.4857106	4.6134112
C	-1.9718726	-0.2461160	5.5535598

H	-1.5097550	-1.9225463	4.2232829
H	-4.0733999	1.1494411	2.5531912
H	-3.9547149	2.4368592	4.7225512
H	-1.3941625	-0.6519895	6.4006681
H	-2.6085941	1.5320942	6.6386741
O	-2.5453973	-2.7495886	2.0066500
O	-4.0256012	-0.8683878	0.9845230

Pdb file

HEADER B2Pdb

COMPND B2Pdb

ATOM	1	C	111	1	-0.959	1.498	0.260	1.00	0.00
ATOM	2	N	111	1	-1.500	0.237	0.012	1.00	0.00
ATOM	3	H	111	1	-1.274	3.439	-0.826	1.00	0.00
ATOM	4	C	111	1	-2.237	0.242	-1.172	1.00	0.00
ATOM	5	C	111	1	-2.302	1.611	-1.592	1.00	0.00
ATOM	6	H	111	1	-2.804	1.958	-2.505	1.00	0.00
ATOM	7	C	111	1	-1.520	2.374	-0.725	1.00	0.00
ATOM	8	C	111	1	-2.617	-0.935	-1.846	1.00	0.00
ATOM	9	H	111	1	-3.377	-0.807	-2.634	1.00	0.00
ATOM	10	N	111	1	-0.981	-2.675	-1.016	1.00	0.00
ATOM	11	C	111	1	-0.807	-4.021	-1.327	1.00	0.00
ATOM	12	C	111	1	-1.835	-4.432	-2.280	1.00	0.00
ATOM	13	H	111	1	-1.935	-5.448	-2.684	1.00	0.00
ATOM	14	C	111	1	-2.599	-3.333	-2.553	1.00	0.00
ATOM	15	H	111	1	-3.463	-3.253	-3.227	1.00	0.00
ATOM	16	C	111	1	-2.076	-2.232	-1.750	1.00	0.00
ATOM	17	C	111	1	0.088	1.693	1.184	1.00	0.00
ATOM	18	H	111	1	0.296	2.741	1.454	1.00	0.00
ATOM	19	H	111	1	3.663	-0.008	3.606	1.00	0.00
ATOM	20	C	111	1	2.801	0.071	2.931	1.00	0.00
ATOM	21	C	111	1	2.275	-1.032	2.133	1.00	0.00
ATOM	22	H	111	1	2.142	2.189	3.052	1.00	0.00
ATOM	23	N	111	1	1.183	-0.589	1.394	1.00	0.00
ATOM	24	C	111	1	1.010	0.758	1.702	1.00	0.00
ATOM	25	C	111	1	2.040	1.171	2.652	1.00	0.00
ATOM	26	C	111	1	0.112	-4.957	-0.807	1.00	0.00
ATOM	27	H	111	1	-0.095	-6.005	-1.081	1.00	0.00
ATOM	28	H	111	1	2.971	-5.222	2.907	1.00	0.00
ATOM	29	C	111	1	2.479	-4.876	1.989	1.00	0.00
ATOM	30	C	111	1	1.702	-5.640	1.117	1.00	0.00
ATOM	31	H	111	1	1.452	-6.704	1.218	1.00	0.00
ATOM	32	C	111	1	1.153	-4.765	0.125	1.00	0.00
ATOM	33	N	111	1	1.695	-3.504	0.374	1.00	0.00
ATOM	34	C	111	1	2.423	-3.508	1.564	1.00	0.00
ATOM	35	C	111	1	2.807	-2.331	2.237	1.00	0.00
ATOM	36	H	111	1	3.564	-2.462	3.027	1.00	0.00
ATOM	37	Co	111	1	0.102	-1.634	0.189	1.00	0.00
ATOM	38	N	111	1	-1.413	-0.799	0.905	1.00	0.00
ATOM	39	N	111	1	1.615	-2.476	-0.528	1.00	0.00
ATOM	40	S	111	1	3.021	-1.939	-1.301	1.00	0.00
ATOM	41	O	111	1	2.702	-0.550	-1.698	1.00	0.00
ATOM	42	O	111	1	4.233	-2.289	-0.517	1.00	0.00
ATOM	43	C	111	1	3.094	-2.931	-2.815	1.00	0.00
ATOM	44	C	111	1	3.188	-4.462	-5.149	1.00	0.00
ATOM	45	C	111	1	2.314	-2.548	-3.920	1.00	0.00
ATOM	46	C	111	1	3.929	-4.060	-2.862	1.00	0.00
ATOM	47	C	111	1	3.969	-4.828	-4.039	1.00	0.00

ATOM	48	C	111	1	2.365	-3.321	-5.089	1.00	0.00
ATOM	49	H	111	1	1.688	-1.644	-3.856	1.00	0.00
ATOM	50	H	111	1	4.548	-4.316	-1.989	1.00	0.00
ATOM	51	H	111	1	4.623	-5.714	-4.090	1.00	0.00
ATOM	52	H	111	1	1.762	-3.028	-5.965	1.00	0.00
ATOM	53	H	111	1	3.227	-5.064	-6.072	1.00	0.00
ATOM	54	S	111	1	-2.808	-1.326	1.702	1.00	0.00
ATOM	55	C	111	1	-2.772	-0.430	3.276	1.00	0.00
ATOM	56	C	111	1	-2.656	0.977	5.687	1.00	0.00
ATOM	57	C	111	1	-2.026	-0.958	4.345	1.00	0.00
ATOM	58	C	111	1	-3.474	0.781	3.399	1.00	0.00
ATOM	59	C	111	1	-3.408	1.486	4.613	1.00	0.00
ATOM	60	C	111	1	-1.972	-0.246	5.554	1.00	0.00
ATOM	61	H	111	1	-1.510	-1.923	4.223	1.00	0.00
ATOM	62	H	111	1	-4.073	1.149	2.553	1.00	0.00
ATOM	63	H	111	1	-3.955	2.437	4.723	1.00	0.00
ATOM	64	H	111	1	-1.394	-0.652	6.401	1.00	0.00
ATOM	65	H	111	1	-2.609	1.532	6.639	1.00	0.00
ATOM	66	O	111	1	-2.545	-2.750	2.007	1.00	0.00
ATOM	67	O	111	1	-4.026	-0.868	0.985	1.00	0.00
CONECT	1	2	7	17					
CONECT	2	4	38						
CONECT	3	7							
CONECT	4	5	8						
CONECT	5	6	7						
CONECT	8	9	16						
CONECT	10	11	16	37					
CONECT	11	12	26						
CONECT	12	13	14						
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CONECT	54	55	66	67					
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CONECT	56	59	60	65					
CONECT	57	60	61						
CONECT	58	59	62						

CONECT 59 63
CONECT 60 64
END