

Supplementary Information

**Water-Assisted Proton Delivery and Removal in bio-inspired Hydrogen
Production Catalysts**

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Computational analysis of the early deprotonation steps

In dry acetonitrile, both endo and exo deprotonation (protonation) start with the binding of the aniline (anilinium) to form a hydrogen-bonded complex. Because of steric hindrance, the association of both aniline and anilinium to the endo position is disfavored with respect to the more accessible exo position, *i.e.* $\Delta G^\circ(\text{ee}^{2+}\bullet\text{B}) > \Delta G^\circ(\text{ex}^{2+}\bullet\text{B})$ and $\Delta G^\circ(\text{eNiH}^{2+}\bullet\text{B}) > \Delta G^\circ(\text{ex}^{2+}\bullet\text{B})$ (see Figure 5, steps 1 and 2 of panels a and c). The steric penalty arises from the displacement of the endo protonated pendant amine and the cyclohexyl substituent on the opposite ligand.^{1,2}

We assume that isomerization in the presence of water starts with the association of water to the protonated pendant amine via hydrogen bonding, which in turn helps shuttle protons between the catalyst and the base. Binding water to the catalyst is slightly favored over aniline due to the higher steric accessibility of water. The energy necessary to distort the catalysts to accommodate aniline and water in the endo position is $\Delta E_{\text{dis}} = 9.2$ kcal/mol for aniline and 7.4 kcal/mol for water (see computational details),¹⁸ which results in a binding free energy of formation of $\Delta G^\circ = 7.9$ kcal/mol ($\text{ee}^{2+}\bullet\text{B}$, Figure 5a, step 1) and 5.6 kcal/mol ($\text{ee}^{2+}\bullet\text{H}_2\text{O}$, Figure 5b, step 1).

The calculated binding of aniline to the exo position is $\Delta G^\circ = 4.8$ kcal/mol (Figure 5c, step 1), where that of water is $\Delta G^\circ = 3.0$ kcal/mol (Figure 5d, step 1). Once aniline or water binds to the endo protonated pendant amine, an intramolecular proton transfer occurs, leading to the formation of $\text{eNiH}^{2+}\bullet\text{B}$ or $\text{eNiH}^{2+}\bullet\text{H}_2\text{O}$, where the N-H or O-H hydrogen interact with the hydridic Ni-H hydrogen. In the case of binding of water, a second O-H bond points outward, providing a binding site for the base (Figure 6). However, the realization of a ternary complex where water bridges the catalyst and the base (Figure 5b, step 3) is unfavorable because of loss of solvation energy of each individual species, and in particular of water, which is not counterbalanced by the formation of hydrogen bonds between the three species. The ternary complex is about 7-8 kcal/mol higher in free energy than the binary association complexes between the catalyst and either water or aniline.

- (1) O'Hagan, M.; Ho, M.-H.; Yang, J. Y.; Appel, A. M.; DuBois, M. R.; Raugei, S.; Shaw, W. J.; DuBois, D. L.; Bullock, R. M. *J. Am. Chem. Soc.* **2012**, *134* (47), 19409.
- (2) Lense, S.; Ho, M.-H.; Chen, S.; Jain, A.; Raugei, S.; Linehan, J. C.; Roberts, J. A. S.; Appel, A. M.; Shaw, W. *Organometallics* **2012**, *31* (19), 6719.

Table S1. Relative free energies (in kcal/mol vs ex^{2+}) and distribution of three isomers (values in parenthesis) at 298.15 K as obtained from QM calculations on $[\text{Ni}(\text{P}^{\text{Cy}}_2\text{N}^{\text{Me}}_2\text{H})_2]^{2+}$ (Theory) and NMR measurements on $[\text{Ni}(\text{P}^{\text{Cy}}_2\text{N}^{\text{Bz}}_2\text{H})_2]^{2+}$ (Exp.).

	ee^{2+}	ex^{2+}	xx^{2+}
Acetonitrile (Theory)	1.6 (4 %)	0.0 (62%)	0.4 (34%)
Water (Theory)	2.1 (1%)	0.0 (48%)	0.0 (51%)
Acetonitrile (Exp.)	0.3 (30 %)	0.0 (55 %)	0.7 (15 %)
1 M Water in acetonitrile	0.3 (32 %)	0.0 (52 %)	0.7 (15 %)

Table S2. Decomposition of the free energy change ($\Delta G^\circ_{\text{total}}$, see Figure 5) for the transfer of a proton from a given intermediate to the aniline (**B**) in its electronic (ΔE_{el}), thermal ($\Delta G^\circ_{\text{thermal}}$), and solvation ($\Delta G^\circ_{\text{sol}}$) contributions. The prime on the NiH^+ (NiH'^+) species in the last reaction indicates that water or the base is bound to the exo site.

Reaction	ΔE_{el}	$\Delta G^\circ_{\text{thermal}}$	$\Delta G^\circ_{\text{sol}}$	$\Delta G^\circ_{\text{total}}$
$\text{eNiH}^{2+}\cdot\text{B} \rightarrow \text{NiH}^+\cdot\text{BH}^+$	-3.2	-0.1	+9.3	+6.0
$\text{eNiH}^{2+}\cdot\text{H}_2\text{O}\cdot\text{B} \rightarrow \text{NiH}^+\cdot\text{H}_2\text{O}\cdot\text{BH}^+$	+0.2	-1.2	+3.7	+2.7
$\text{ex}'^{2+}\cdot\text{B} \rightarrow \text{NiH}'^+\cdot\text{BH}^+$	-3.7	+0.6	+8.6	+5.5
$\text{ex}'^{2+}\cdot\text{H}_2\text{O}\cdot\text{B} \rightarrow \text{NiH}'^+\cdot\text{H}_2\text{O}\cdot\text{BH}^+$	+0.6	-0.8	+2.3	+2.5

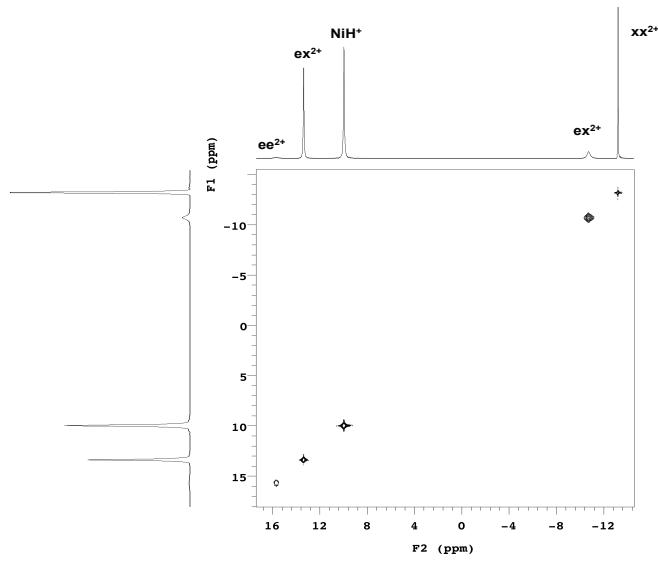


Figure S1: Representative ${}^{31}\text{P}$ EXSY spectrum of 23 mM $[\text{Ni}(\text{P}^{\text{Cy}}_2\text{N}^{\text{Bz}}_2)_2]^{2+}$ with 10 eq. of aniline and 1 eq. of water, 25 °C, 0 ms mixing time; showing no exchange.

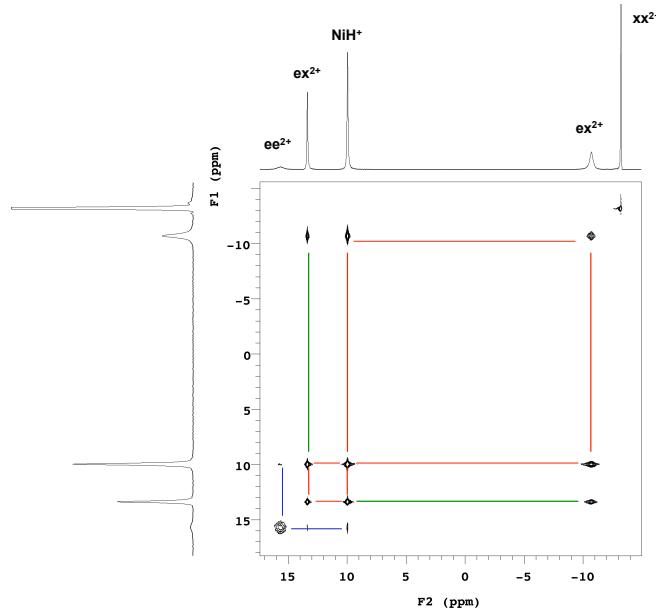


Figure S2: Representative ${}^{31}\text{P}$ EXSY of 23 mM $[\text{Ni}(\text{P}^{\text{Cy}}_2\text{N}^{\text{Bz}}_2)_2]^{2+}$ with 10 eq. of aniline and 1 eq. of water, 25 °C, 100 ms mixing time showing the exchange processes quantified. The exchange between the ex^{2+} and NiH^+ species is highlighted in red, the exchange between the ee^{2+} isomer and the NiH^+ species is highlighted in blue and the exchange between the inequivalent ${}^{31}\text{P}$ nuclei of the ex^{2+} isomer is highlighted in green.

Cartesian coordinates of the species computationally studied in the paper

The Cartesian coordinates of local minima and transition states are reported below. B stands for aniline, BH⁺ stands for anilinium and S stands for the solvent acetonitrile molecule.

ee²⁺

Ni	0.0653	0.0001	-0.0001	H	-5.4359	-2.6698	0.4941	H	-5.5283	4.2758	-2.4270
P	0.9344	1.5996	1.2016	H	-4.0440	-3.7468	0.5219	H	-5.4981	2.6023	-2.9614
P	-1.1042	-0.6060	1.7536	C	-4.8978	-3.3810	2.4714	C	-4.5319	2.9245	-1.0601
N	1.5087	-0.6450	2.7241	H	-5.5286	-4.2751	2.4272	H	-5.4344	2.6729	-0.4920
N	-1.0795	1.8189	3.1067	H	-5.4970	-2.6022	2.9637	H	-4.0420	3.7492	-0.5226
C	1.7286	0.8395	2.7340	C	-3.6475	-3.6598	3.3020	C	-3.5916	1.7167	-1.0908
H	2.8088	0.9992	2.7158	H	-3.1100	-4.5213	2.8811	H	-4.1206	0.8647	-1.5413
H	1.3029	1.2386	3.6567	H	-3.9202	-3.9341	4.3268	H	-3.3223	1.4158	-0.0712
C	0.1189	-1.0464	3.1192	C	-2.7079	-2.4484	3.3337	C	2.2042	-2.9227	-0.7750
H	-0.1119	-0.5702	4.0748	H	-3.2171	-1.6218	3.8477	H	1.7000	-3.5118	0.0090
H	0.1370	-2.1317	3.2470	H	-1.8229	-2.6948	3.9329	C	3.4582	-2.2893	-0.1550
C	-0.4264	2.5780	2.0512	C	2.5412	-1.3725	3.5101	H	3.9753	-1.6815	-0.9128
H	0.0075	3.4711	2.5083	H	2.3831	-2.4469	3.4028	H	3.1836	-1.5902	0.6473
H	-1.1301	2.9148	1.2691	H	2.4548	-1.0896	4.5606	C	4.4314	-3.3511	0.3639
C	-1.9886	0.7910	2.6262	C	-1.7595	2.7068	4.0513	H	5.3210	-2.8665	0.7828
H	-2.7539	1.1953	1.9401	H	-2.1692	2.1178	4.8767	H	3.9565	-3.9072	1.1854
H	-2.5167	0.3801	3.4933	H	-2.5837	3.2733	3.5872	C	4.8256	-4.3253	-0.7443
C	2.2038	2.9232	0.7750	P	-1.1047	0.6057	-1.7535	H	5.4810	-5.1063	-0.3449
H	1.6990	3.5127	-0.0084	P	0.9344	-1.5995	-1.2015	H	5.4092	-3.7904	-1.5068
C	2.6135	3.8849	1.9016	N	-1.0803	-1.8197	-3.1057	C	3.5920	-4.9494	-1.3906
H	1.7425	4.3837	2.3388	N	1.5078	0.6446	-2.7250	H	3.0764	-5.5878	-0.6596
H	3.0947	3.3199	2.7134	C	-1.9894	-0.7918	-2.6251	H	3.8828	-5.6023	-2.2205
C	3.5915	4.9498	1.3909	H	-2.7543	-1.1960	-1.9385	C	2.6135	-3.8849	-1.9014
H	3.0754	5.5885	0.6605	H	-2.5179	-0.3814	-3.4921	H	3.0941	-3.3202	-2.7137
H	3.8826	5.6024	2.2209	C	-0.4265	-2.5784	-2.0503	H	1.7423	-4.3841	-2.3377
C	4.8249	4.3264	0.7435	H	0.0073	-3.4716	-2.5074	C	-1.7606	-2.7080	-4.0497
H	5.4799	5.1076	0.3441	H	-1.1298	-2.9152	-1.2678	H	-2.5845	-3.2745	-3.5851
H	5.4090	3.7912	1.5054	H	0.1356	2.1309	-3.2481	H	-1.0434	-3.4200	-4.4675
C	4.4302	3.3526	-0.3649	C	1.7279	-0.8398	-2.7345	C	2.5399	1.3721	-3.5115
H	5.3196	2.8683	-0.7846	H	2.8081	-0.9993	-2.7167	H	2.3817	2.4465	-3.4045
H	3.9547	3.9090	-1.1859	H	1.3019	-1.2393	-3.6569	H	2.4533	1.0889	-4.5619
C	3.4575	2.2903	0.1539	C	-2.3262	2.0190	-1.9089	H	3.5301	1.1065	-3.1380
H	3.9751	1.6822	0.9111	H	-1.8063	2.8616	-1.4246	H	-2.1707	-2.1193	-4.8751
H	3.1825	1.5917	-0.6486	C	-2.7095	2.4466	-3.3341	H	-1.0422	3.4188	4.4690
C	-2.3259	-2.0191	1.9086	H	-1.8251	2.6916	-3.9346	H	3.5312	-1.1066	3.1364
H	-1.8069	-2.8614	1.4227	H	-3.2199	1.6196	-3.8464	H	1.5577	-0.8969	1.7038
C	-3.5921	-1.7152	1.0922	C	-3.6484	3.6585	-3.3029	H	1.5570	0.8969	-1.7048
H	-4.1202	-0.8637	1.5445	H	-3.1101	4.5203	-2.8836	ee^{2+':B:S}			
H	-3.3238	-1.4130	0.0728	H	-3.9221	3.9317	-4.3278	Ni	-0.7595	-0.2998	0.0776
C	-4.5329	-2.9226	1.0610	C	-4.8981	3.3814	-2.4707	P	-0.1519	-1.3955	-1.6844

P	-0.4836	1.5248	-1.1147	H	-1.5783	1.5879	-5.2396	H	-3.1825	1.6937	4.6948
N	2.0273	0.4866	-2.0612	H	-2.8839	0.4492	-4.8287	H	-2.5704	0.2520	5.5442
N	-1.1530	0.3999	-3.5610	P	-2.8531	-0.5287	0.7458	C	-1.6912	-4.3567	1.6940
C	1.4415	-0.8168	-2.5060	P	-0.1472	-0.5965	2.1650	H	-2.2165	-4.7482	0.8210
H	2.2204	-1.5632	-2.3276	N	-2.5216	0.0730	3.4516	H	-2.2243	-4.6423	2.6027
H	1.2792	-0.7305	-3.5840	N	-1.6353	-2.8747	1.6074	H	-0.6754	-4.7541	1.7212
C	1.1180	1.6743	-2.0916	C	-3.3219	0.4229	2.2896	H	-4.1569	0.2050	4.7620
H	0.8961	1.8767	-3.1424	H	-3.2702	1.4999	2.0533	H	-1.3791	-0.1378	-5.5793
H	1.7066	2.4969	-1.6763	H	-4.3674	0.1942	2.5253	H	3.9673	-0.0212	-2.7451
C	-1.3209	-0.9654	-3.0910	C	-1.1265	0.4783	3.3580	H	2.4177	0.4334	-1.0728
H	-1.1260	-1.6275	-3.9401	H	-0.6945	0.3911	4.3583	H	-1.1295	-2.5518	0.7371
H	-2.3495	-1.1714	-2.7405	H	-1.0084	1.5288	3.0388	C	4.9013	2.8759	-0.4537
C	-1.5978	1.4222	-2.6242	C	-2.9966	-2.2713	1.4537	C	3.8668	2.2801	0.2750
H	-2.6356	1.2569	-2.2900	H	-3.4989	-2.3087	2.4231	C	5.0791	4.2570	-0.4119
H	-1.5692	2.3825	-3.1490	H	-3.5317	-2.9032	0.7409	C	4.2377	5.0577	0.3567
C	0.0754	-3.2541	-1.9360	C	-0.8370	-2.2676	2.7217	C	3.2138	4.4625	1.0916
H	-0.9309	-3.6532	-1.7200	H	-0.0209	-2.9595	2.9380	C	3.0224	3.0837	1.0483
C	0.4765	-3.7419	-3.3372	H	-1.4899	-2.1685	3.5908	H	5.5845	2.2524	-1.0256
H	-0.2168	-3.3766	-4.1021	C	-4.4621	-0.4089	-0.2288	H	5.8932	4.7059	-0.9734
H	1.4693	-3.3474	-3.5962	H	-4.2100	-0.8413	-1.2099	H	2.2265	2.6232	1.6311
C	0.5266	-5.2730	-3.3968	C	-5.6761	-1.1695	0.3288	H	2.5653	5.0732	1.7135
H	-0.4857	-5.6721	-3.2418	H	-5.4579	-2.2346	0.4685	H	4.3877	6.1315	0.3957
H	0.8328	-5.5890	-4.4000	H	-5.9446	-0.7697	1.3169	N	3.6416	0.8774	0.1922
C	1.4700	-5.8491	-2.3443	C	-6.8829	-1.0351	-0.6083	H	4.4849	0.3684	-0.0859
H	1.4536	-6.9437	-2.3766	H	-6.6532	-1.5357	-1.5596	H	3.3122	0.5038	1.0754
H	2.5018	-5.5466	-2.5728	H	-7.7381	-1.5667	-0.1764	N	6.0369	-0.6397	-1.0151
C	1.0991	-5.3566	-0.9469	C	-7.2392	0.4252	-0.8743	C	7.1227	-1.0232	-1.1498
H	1.8151	-5.7304	-0.2056	H	-8.0682	0.4874	-1.5872	C	8.4871	-1.4981	-1.3097
H	0.1158	-5.7659	-0.6709	H	-7.5937	0.8904	0.0562	H	9.1333	-0.6791	-1.6407
C	1.0439	-3.8274	-0.8913	C	-6.0314	1.2002	-1.3962	H	8.8636	-1.8809	-0.3567
H	2.0546	-3.4333	-1.0755	H	-6.2817	2.2593	-1.5252	H	8.5249	-2.2999	-2.0520
H	0.7757	-3.4819	0.1167	H	-5.7497	0.8203	-2.3889	ee²⁺:B:S -> eNiH²⁺:B:S			
C	-0.5906	3.3196	-0.5660	C	-4.8385	1.0668	-0.4466	Ni	0.5426	0.3071	0.0415
H	0.3268	3.4245	0.0365	H	-5.1057	1.5183	0.5187	P	0.4083	1.2619	-1.8820
C	-1.7813	3.5717	0.3643	H	-3.9821	1.6362	-0.8265	P	-0.1702	-1.5340	-0.9983
H	-2.7193	3.4544	-0.1980	C	1.5519	-0.6910	2.9816	N	-2.1841	0.0553	-2.3219
H	-1.7933	2.8204	1.1623	H	1.9631	0.3222	2.8363	N	1.0014	-0.9398	-3.4451
C	-1.7265	4.9812	0.9607	C	2.4396	-1.6870	2.2185	C	-1.1966	1.0536	-2.8392
H	-2.6030	5.1490	1.5973	H	2.0251	-2.7003	2.3285	H	-1.7230	2.0109	-2.8609
H	-0.8458	5.0575	1.6149	H	2.4176	-1.4720	1.1419	H	-0.9660	0.7536	-3.8649
C	-1.6438	6.0509	-0.1266	C	3.8748	-1.7066	2.7549	C	-1.6696	-1.3359	-2.1172
H	-1.5498	7.0440	0.3261	H	4.4639	-2.4463	2.2006	H	-1.4405	-1.7358	-3.1080
H	-2.5811	6.0589	-0.7010	H	4.3530	-0.7321	2.5763	H	-2.5069	-1.8908	-1.6846
C	-0.4748	5.7881	-1.0738	C	3.9024	-2.0042	4.2521	C	1.5220	0.3730	-3.0987
H	0.4750	5.8962	-0.5310	H	4.9309	-1.9704	4.6269	H	1.5850	0.9558	-4.0226
H	-0.4602	6.5303	-1.8797	H	3.5411	-3.0278	4.4267	H	2.5360	0.3327	-2.6608
C	-0.5499	4.3803	-1.6755	C	3.0273	-1.0167	5.0185	C	1.0575	-1.9150	-2.3662
H	-1.4611	4.3113	-2.2854	H	3.4546	-0.0074	4.9360	H	2.0625	-1.9905	-1.9203
H	0.2985	4.2237	-2.3532	H	3.0161	-1.2613	6.0863	H	0.8103	-2.8923	-2.7923
C	3.2358	0.7759	-2.8909	C	1.5895	-0.9964	4.4872	C	0.7335	3.0786	-2.2086
H	3.6657	1.7234	-2.5633	H	1.1271	-1.9758	4.6790				
H	2.9420	0.8398	-3.9402	H	1.0135	-0.2604	5.0573				
C	-1.7890	0.5821	-4.8649	C	-3.1375	0.5919	4.6728				

H 1.7491 3.2261 -1.8080	H 0.3595 3.2034 2.6217	C -4.4904 -1.9862 0.4615
C 0.7304 3.5255 -3.6789	H 1.4708 2.1165 3.4962	H -6.2940 0.1661 -1.4603
H 1.4534 2.9533 -4.2698	C 4.1454 -0.7851 0.1583	H -7.7142 -1.8415 -1.6717
H -0.2590 3.3421 -4.1229	H 4.1130 -0.3893 -0.8691	H -3.6049 -2.0144 1.0942
C 1.0564 5.0183 -3.8029	C 5.4668 -0.3287 0.7996	H -5.0327 -4.0225 0.8739
H 2.0899 5.1883 -3.4700	H 5.5340 0.7636 0.8475	H -7.0893 -3.9508 -0.5175
H 1.0197 5.3099 -4.8581	H 5.5236 -0.6947 1.8343	N -3.9782 0.3370 -0.1195
C 0.1056 5.8780 -2.9749	C 6.6685 -0.8674 0.0139	H -4.5134 1.1998 -0.1701
H 0.3863 6.9336 -3.0504	H 6.6735 -0.4137 -0.9874	H -3.4747 0.3529 0.7623
H -0.9121 5.7974 -3.3827	H 7.5941 -0.5464 0.5042	N -5.5983 2.9548 -0.3580
C 0.1031 5.4361 -1.5133	C 6.6305 -2.3879 -0.1152	C -6.2286 3.9264 -0.4119
H -0.6167 6.0255 -0.9337	H 7.4713 -2.7367 -0.7240	C -7.0108 5.1499 -0.4741
H 1.0929 5.6297 -1.0760	H 6.7558 -2.8424 0.8775	H -7.3809 5.4099 0.5226
C -0.2268 3.9466 -1.3797	C 5.3089 -2.8557 -0.7203	H -6.3909 5.9712 -0.8453
H -1.2588 3.7909 -1.7292	H 5.2673 -3.9502 -0.7524	H -7.8643 5.0206 -1.1451
H -0.2099 3.6326 -0.3291	H 5.2360 -2.5075 -1.7608	
C -0.6253 -3.2120 -0.2853	C 4.1163 -2.3204 0.0764	
H -1.5411 -2.9803 0.2829	H 4.1556 -2.7379 1.0917	
C 0.4201 -3.7188 0.7135	H 3.1759 -2.6722 -0.3649	
H 1.3584 -3.9365 0.1835	C -1.8171 1.4581 2.7307	
H 0.6432 -2.9369 1.4474	H -2.4827 0.5824 2.6376	
C -0.0623 -4.9881 1.4218	C -2.3473 2.5772 1.8201	
H 0.7147 -5.3449 2.1073	H -1.6793 3.4473 1.8950	
H -0.9364 -4.7415 2.0417	H -2.3107 2.2666 0.7670	
C -0.4386 -6.0818 0.4246	C -3.7555 3.0240 2.2256	
H -0.8308 -6.9571 0.9531	H -4.0892 3.8371 1.5699	
H 0.4634 -6.4178 -0.1059	H -4.4631 2.1925 2.0861	
C -1.4609 -5.5749 -0.5897	C -3.7966 3.4646 3.6873	
H -2.4094 -5.3515 -0.0809	H -4.8184 3.7364 3.9721	
H -1.6814 -6.3488 -1.3330	H -3.1875 4.3712 3.8100	
C -0.9643 -4.3122 -1.3030	C -3.2662 2.3648 4.6027	
H -0.0653 -4.5709 -1.8786	H -3.9440 1.5001 4.5694	
H -1.7192 -3.9800 -2.0255	H -3.2520 2.7061 5.6434	
C -3.3532 0.0094 -3.2531	C -1.8577 1.9144 4.1985	
H -4.1081 -0.6633 -2.8439	H -1.1600 2.7517 4.3414	
H -3.0171 -0.3451 -4.2290	H -1.5334 1.1158 4.8734	
C 1.6523 -1.4581 -4.6492	C 2.1506 -0.9216 4.9404	
H 1.1839 -2.4017 -4.9428	H 1.8915 -1.9891 5.0411	
H 2.7314 -1.6355 -4.5085	H 1.6220 -0.3623 5.7174	
P 2.5747 -0.1194 0.9509	C 2.3191 3.8980 1.2682	
P -0.1528 0.8504 2.0954	H 2.9323 3.9892 0.3677	
N 1.8141 -0.3754 3.6263	H 2.8933 4.2748 2.1237	
N 1.9316 2.4947 1.4526	H 1.4234 4.5112 1.1482	
C 2.5945 -1.0241 2.5883	H 3.2240 -0.8103 5.1186	
H 2.2834 -2.0694 2.4169	H 1.5247 -0.7475 -5.4708	
H 3.6362 -1.0544 2.9272	H -3.7688 1.0142 -3.3491	
C 0.3783 -0.3916 3.3999	H -2.6032 0.3518 -1.3983	
H -0.1048 -0.1306 4.3450	H 1.1969 1.7592 0.4223	
H -0.0004 -1.3873 3.1065	C -6.0014 -0.7587 -0.9672	
C 3.0900 1.5972 1.5143	C -4.8373 -0.8032 -0.1959	
H 3.5385 1.5826 2.5135	C -6.8046 -1.8912 -1.0811	
H 3.8303 1.9733 0.8027	C -6.4564 -3.0737 -0.4324	
C 0.9664 2.2986 2.5427	C -5.3001 -3.1137 0.3429	

eNiH²⁺:B:S

Ni -0.6045 -0.1442 0.2475
P -0.0800 -1.2224 -1.7523
P -0.5526 1.6874 -0.9720
N 2.0060 0.7619 -1.9910
N -1.1665 0.6926 -3.4735
C 1.4763 -0.5294 -2.5341
H 2.2843 -1.2549 -2.4045
H 1.3143 -0.3764 -3.6045
C 1.0537 1.9110 -1.9208
H 0.8159 2.1918 -2.9494
H 1.6149 2.7187 -1.4432
C -1.2816 -0.7091 -3.1009
H -1.0681 -1.3007 -3.9958
H -2.3007 -0.9825 -2.7723
C -1.6664 1.6273 -2.4764
H -2.6966 1.4003 -2.1616
H -1.6761 2.6246 -2.9287
C 0.1496 -3.0497 -2.1126
H -0.8538 -3.4609 -1.9203
C 0.5701 -3.4245 -3.5418
H -0.1294 -3.0277 -4.2859
H 1.5539 -2.9875 -3.7669
C 0.6655 -4.9454 -3.7069
H -0.3348 -5.3841 -3.5863
H 0.9862 -5.1799 -4.7280
C 1.6197 -5.5618 -2.6878
H 1.6456 -6.6506 -2.8031
H 2.6415 -5.2039 -2.8803
C 1.2092 -5.1901 -1.2653
H 1.9225 -5.5978 -0.5395
H 0.2358 -5.6474 -1.0391
C 1.1004 -3.6735 -1.0822
H 2.1039 -3.2324 -1.1872
H 0.7436 -3.4333 -0.0756
C -0.6652 3.4137 -0.2579

H	0.2859	3.4764	0.2964	H	-5.0130	1.4095	0.6953	Ni	-0.5589	-0.1956	0.2115
C	-1.7952	3.5774	0.7634	H	-3.7821	1.8365	-0.4778	P	-0.1659	-1.3279	-1.7465
H	-2.7666	3.5142	0.2542	C	1.4555	-1.1928	2.9209	P	-0.6517	1.5794	-1.0941
H	-1.7606	2.7601	1.4947	H	1.7903	-0.1444	2.9810	N	1.8278	0.6791	-2.1896
C	-1.6928	4.9339	1.4672	C	2.4020	-1.9539	1.9816	N	-1.5299	0.4221	-3.4448
H	-2.5219	5.0455	2.1749	H	2.0559	-2.9919	1.8826	C	1.3053	-0.6195	-2.6466
H	-0.7682	4.9599	2.0616	H	2.3619	-1.5256	0.9719	H	2.1182	-1.3440	-2.5350
C	-1.6869	6.0872	0.4649	C	3.8361	-1.9761	2.5202	H	1.0572	-0.5618	-3.7162
H	-1.5620	7.0414	0.9877	H	4.4770	-2.5403	1.8329	C	0.8529	1.7749	-2.1861
H	-2.6623	6.1356	-0.0395	H	4.2399	-0.9524	2.5548	H	0.4920	1.9742	-3.2039
C	-0.5866	5.9107	-0.5794	C	3.8904	-2.5733	3.9242	H	1.3847	2.6642	-1.8362
H	0.3983	5.9836	-0.0973	H	4.9150	-2.5442	4.3100	C	-1.5192	-0.9578	-2.9822
H	-0.6314	6.7136	-1.3235	H	3.6037	-3.6333	3.8793	H	-1.3676	-1.5899	-3.8610
C	-0.6970	4.5546	-1.2854	C	2.9493	-1.8287	4.8661	H	-2.4768	-1.2532	-2.5209
H	-1.6444	4.5225	-1.8411	H	3.3047	-0.7973	5.0009	C	-1.9299	1.3981	-2.4417
H	0.1088	4.4568	-2.0238	H	2.9549	-2.2902	5.8594	H	-2.8998	1.1561	-1.9835
C	3.1886	1.1716	-2.8098	C	1.5123	-1.7989	4.3335	H	-2.0277	2.3675	-2.9395
H	3.5851	2.1055	-2.4089	H	1.1180	-2.8244	4.3110	C	0.1116	-3.1575	-2.0346
H	2.8763	1.3096	-3.8467	H	0.8882	-1.2356	5.0345	H	-0.8481	-3.6186	-1.7599
C	-1.7909	0.9419	-4.7734	C	-3.3422	-0.2213	4.6833	C	0.4496	-3.5542	-3.4785
H	-1.6152	1.9792	-5.0728	H	-3.3620	0.8607	4.8989	H	-0.3269	-3.2183	-4.1722
H	-2.8790	0.7630	-4.7670	H	-2.8535	-0.7322	5.5176	H	1.3817	-3.0599	-3.7798
P	-2.7630	-0.6749	0.6621	C	-1.8972	-4.6585	1.1479	C	0.6327	-5.0677	-3.6099
P	-0.2596	-1.0747	2.1902	H	-2.3897	-4.9625	0.2190	H	-0.3195	-5.5663	-3.3854
N	-2.6466	-0.5404	3.4397	H	-2.5302	-4.9787	1.9932	H	0.8857	-5.3184	-4.6461
N	-1.6586	-3.2172	1.1276	H	-0.9419	-5.1874	1.2150	C	1.7055	-5.5821	-2.6546
C	-3.3324	0.0237	2.2971	H	-4.3734	-0.5814	4.6270	H	1.8087	-6.6689	-2.7446
H	-3.2430	1.1245	2.2468	H	-1.3401	0.2917	-5.5284	H	2.6749	-5.1462	-2.9313
H	-4.3978	-0.2120	2.3968	H	3.9546	0.3974	-2.7388	C	1.3754	-5.1928	-1.2164
C	-1.2418	-0.1958	3.5108	H	2.4232	0.6377	-1.0123	H	2.1632	-5.5330	-0.5354
H	-0.8703	-0.5186	4.4872	H	0.7460	0.3101	0.5299	H	0.4504	-5.6999	-0.9103
H	-1.0496	0.8902	3.4245	C	4.6994	3.0964	-0.1145	C	1.1871	-3.6819	-1.0754
C	-2.9169	-2.5152	0.9446	C	3.7455	2.3154	0.5458	H	2.1397	-3.1814	-1.3004
H	-3.6222	-2.6777	1.7804	C	4.7664	4.4673	0.1254	H	0.9302	-3.4259	-0.0428
H	-3.3816	-2.9245	0.0415	C	3.8935	5.0730	1.0261	C	-0.7993	3.3327	-0.4736
C	-0.9270	-2.8124	2.3156	C	2.9508	4.2921	1.6922	H	0.1387	3.4454	0.0921
H	-0.0665	-3.4815	2.4202	C	2.8686	2.9225	1.4506	C	-1.9626	3.5309	0.4998
H	-1.5287	-2.8871	3.2379	H	5.4106	2.6229	-0.7870	H	-2.9105	3.3925	-0.0348
C	-4.2629	-0.2937	-0.4086	H	5.5200	5.0607	-0.3837	H	-1.9313	2.7703	1.2890
H	-3.9331	-0.5002	-1.4378	H	2.1356	2.3161	1.9793	C	-1.9323	4.9330	1.1110
C	-5.5038	-1.1621	-0.1336	H	2.2823	4.7480	2.4171	H	-2.7868	5.0612	1.7841
H	-5.2759	-2.2292	-0.2143	H	3.9599	6.1382	1.2214	H	-1.0274	5.0343	1.7250
H	-5.8577	-0.9908	0.8925	N	3.6305	0.9249	0.2603	C	-1.9331	6.0138	0.0336
C	-6.6310	-0.8212	-1.1163	H	4.5018	0.5343	-0.1109	H	-1.8662	7.0073	0.4904
H	-6.3155	-1.0999	-2.1319	H	3.3679	0.3977	1.0862	H	-2.8856	5.9802	-0.5115
H	-7.5070	-1.4370	-0.8850	N	6.0695	-0.2376	-1.1914	C	-0.7881	5.8060	-0.9544
C	-6.9948	0.6606	-1.0837	C	7.1711	-0.5297	-1.4058	H	0.1703	5.9434	-0.4367
H	-7.7616	0.8788	-1.8344	C	8.5510	-0.8959	-1.6731	H	-0.8291	6.5582	-1.7502
H	-7.4355	0.9081	-0.1080	H	9.1993	-0.5164	-0.8780	C	-0.8301	4.4049	-1.5699
C	-5.7633	1.5330	-1.3145	H	8.6498	-1.9842	-1.7202	H	-1.7532	4.3022	-2.1540
H	-6.0215	2.5942	-1.2253	H	8.8761	-0.4696	-2.6266	H	0.0041	4.2790	-2.2670
H	-5.3931	1.3845	-2.3398	NiH⁺:BH⁺:2S				C	2.9222	1.0484	-3.1030

H 3.3436 2.0109 -2.8045	H 1.5512 -2.4650 4.2921	H -0.8446 0.9101 -4.0062
H 2.5651 1.1272 -4.1381	H 1.3702 -0.8202 4.8969	C 2.2312 -2.5455 -1.5936
C -2.3737 0.5485 -4.6268	C -2.9226 0.1475 4.8267	H 1.5186 -3.3447 -1.3323
H -2.3134 1.5705 -5.0092	H -2.9303 1.2483 4.8929	C 2.9082 -2.9203 -2.9203
H -3.4324 0.3190 -4.4188	H -2.3586 -0.2439 5.6769	H 2.1691 -3.0237 -3.7232
P -2.6432 -0.7200 0.8426	C -1.6338 -4.6138 1.6231	H 3.5920 -2.1151 -3.2240
P -0.0375 -0.9183 2.1901	H -2.2075 -5.0069 0.7801	C 3.7069 -4.2208 -2.7846
N -2.3248 -0.3355 3.5886	H -2.1680 -4.8670 2.5543	H 3.0134 -5.0504 -2.5861
N -1.4461 -3.1795 1.4546	H -0.6578 -5.1055 1.6418	H 4.2012 -4.4492 -3.7360
C -3.1052 0.1076 2.4482	H -3.9536 -0.2085 4.8949	C 4.7316 -4.1349 -1.6555
H -3.0369 1.1988 2.2947	H -2.0183 -0.1357 -5.4013	H 5.2641 -5.0871 -1.5525
H -4.1544 -0.1352 2.6468	H 3.7042 0.2871 -3.0550	H 5.4894 -3.3796 -1.9091
C -0.9216 0.0326 3.5221	H 2.7393 0.8329 -0.8133	C 4.0636 -3.7567 -0.3348
H -0.4674 -0.2159 4.4849	H 0.8196 0.2302 0.2423	H 4.8127 -3.6528 0.4589
H -0.7672 1.1106 3.3439	C 4.4997 3.2827 -0.3124	H 3.3882 -4.5667 -0.0237
C -2.7353 -2.5251 1.3119	C 3.5492 2.4715 0.2983	C 3.2616 -2.4590 -0.4617
H -3.3593 -2.6147 2.2179	C 4.5417 4.6378 0.0080	H 3.9568 -1.6289 -0.6578
H -3.2607 -3.0314 0.4979	C 3.6413 5.1710 0.9277	H 2.7567 -2.2275 0.4841
C -0.6314 -2.6503 2.5350	C 2.6945 4.3455 1.5316	C -1.8019 2.8461 -1.3903
H 0.2550 -3.2850 2.6245	C 2.6423 2.9891 1.2176	H -1.3104 3.4530 -0.6121
H -1.1570 -2.6524 3.5034	H 5.2037 2.8602 -1.0208	C -3.1635 2.4032 -0.8419
C -4.2253 -0.4565 -0.1291	H 5.2851 5.2740 -0.4588	H -3.6596 1.7471 -1.5725
H -3.9595 -0.6932 -1.1676	H 1.9107 2.3381 1.6847	H -3.0213 1.8045 0.0658
C -5.3893 -1.3673 0.2866	H 1.9942 4.7543 2.2513	C -4.0686 3.6046 -0.5603
H -5.1089 -2.4206 0.2154	H 3.6818 6.2252 1.1783	H -5.0442 3.2570 -0.2008
H -5.6498 -1.1735 1.3352	N 3.4910 1.0598 -0.0451	H -3.6304 4.2024 0.2520
C -6.6155 -1.1229 -0.5967	H 4.4108 0.7117 -0.3805	C -4.2369 4.4815 -1.8001
H -6.3785 -1.4308 -1.6234	H 3.2510 0.5017 0.7741	H -4.8526 5.3570 -1.5654
H -7.4388 -1.7607 -0.2574	N 6.0927 0.0259 -0.8499	H -4.7787 3.9174 -2.5729
C -7.0451 0.3408 -0.5969	C 7.1691 -0.2836 -1.1470	C -2.8822 4.9204 -2.3523
H -7.8811 0.4885 -1.2888	C 8.5145 -0.6711 -1.5186	H -2.3870 5.5787 -1.6241
H -7.4092 0.6104 0.4031	H 9.2367 -0.0949 -0.9368	H -3.0127 5.5107 -3.2667
C -5.8820 1.2540 -0.9690	H 8.6601 -1.7350 -1.3215	C -1.9745 3.7203 -2.6415
H -6.1843 2.3043 -0.9019	H 8.6728 -0.4791 -2.5817	H -2.4222 3.1225 -3.4480
H -5.5918 1.0714 -2.0123		H -1.0049 4.0724 -3.0127
C -4.6752 1.0089 -0.0646	NiH⁺	C 3.2243 2.4339 -2.4205
H -4.9523 1.2529 0.9681	Ni -0.1944 -0.1568 -0.0399	H 3.1448 3.4372 -1.9896
H -3.8580 1.6830 -0.3337	P 1.1442 -1.0199 -1.6421	H 3.2331 2.5346 -3.5214
C 1.7317 -0.9606 2.7529	P -0.6538 1.3817 -1.5785	C -2.1886 -1.5488 -3.9965
H 2.0664 0.0846 2.6847	N 2.1287 1.6024 -1.9383	H -1.8876 -1.3546 -5.0413
C 2.5692 -1.8097 1.7889	N -1.3052 -0.9256 -3.0213	H -3.2082 -1.1758 -3.8588
H 2.2073 -2.8457 1.8138	C 2.2858 0.2453 -2.4358	P -1.3115 -1.2023 1.4610
H 2.4240 -1.4662 0.7582	H 3.3092 -0.0660 -2.1972	P 0.8197 0.7948 1.6702
C 4.0508 -1.7925 2.1681	H 2.1913 0.1889 -3.5385	N -1.4329 0.8456 3.3660
H 4.6133 -2.4288 1.4771	C 0.8632 2.2294 -2.2778	N 0.5979 -1.3398 3.4992
H 4.4480 -0.7745 2.0503	H 0.7390 2.3503 -3.3728	C -2.2520 -0.0399 2.5673
C 4.2610 -2.2455 3.6096	H 0.8765 3.2407 -1.8525	H -2.9573 0.5021 1.9042
H 5.3203 -2.1773 3.8791	C 0.0311 -1.4835 -3.0884	H -2.8591 -0.6345 3.2604
H 3.9778 -3.3024 3.6997	H 0.5397 -1.2327 -4.0388	C -0.4703 1.6882 2.6883
C 3.4165 -1.4169 4.5728	H -0.0687 -2.5749 -3.0581	H 0.0409 2.2579 3.4699
H 3.7699 -0.3780 4.5618	C -1.3497 0.5195 -3.1029	H -0.9386 2.4273 2.0031
H 3.5372 -1.7809 5.5983	H -2.4024 0.8123 -3.1782	C -0.2036 -2.1587 2.6167
C 1.9335 -1.4410 4.1950		H -0.8259 -2.7978 3.2511

H	0.3997	-2.8302	1.9691	P	-0.4570	-1.5440	-1.3172	C	-2.3376	-0.3097	-4.7034
C	1.5414	-0.4388	2.8713	P	-0.1781	1.4287	-1.6995	H	-2.0075	0.4277	-5.4405
H	2.3301	-0.9797	2.3111	N	1.8968	-0.4410	-2.4353	H	-3.4049	-0.1342	-4.4908
H	2.0443	0.1187	3.6711	N	-1.4977	-0.2156	-3.5083	P	-2.0587	-0.1393	1.4059
C	-2.5946	-2.4620	0.9526	C	0.9676	-1.6086	-2.5266	P	0.6036	1.0271	1.8683
H	-2.0136	-3.1777	0.3492	H	1.5805	-2.4843	-2.3066	N	-1.6591	1.9108	3.2102
C	-3.2715	-3.2324	2.0967	H	0.5889	-1.6501	-3.5503	N	-0.1269	-1.3968	3.0015
H	-2.5337	-3.7226	2.7405	C	1.2935	0.8972	-2.7469	C	-2.6281	1.4226	2.2517
H	-3.8336	-2.5342	2.7322	H	1.0240	0.8782	-3.8064	H	-2.8791	2.1721	1.4777
C	-4.2374	-4.2897	1.5505	H	2.0983	1.6232	-2.6044	H	-3.5519	1.1900	2.7925
H	-3.6638	-5.0501	1.0015	C	-1.8323	-1.2576	-2.5506	C	-0.4432	2.3894	2.5963
H	-4.7197	-4.8081	2.3871	H	-1.9799	-2.1877	-3.1086	H	0.1645	2.8705	3.3716
C	-5.2839	-3.6759	0.6245	H	-2.7648	-1.0559	-1.9979	H	-0.6180	3.1444	1.8048
H	-5.9343	-4.4575	0.2157	C	-1.5289	1.1314	-2.9589	C	-1.5619	-1.1857	2.8764
H	-5.9314	-3.0015	1.2031	H	-2.4951	1.3730	-2.4818	H	-2.0130	-0.7507	3.7858
C	-4.6193	-2.8922	-0.5047	H	-1.3946	1.8321	-3.7900	H	-2.0140	-2.1716	2.7232
H	-5.3764	-2.4118	-1.1359	C	-0.6523	-3.3203	-0.7896	C	0.6540	-0.2003	3.2681
H	-4.0648	-3.5858	-1.1534	H	-1.6425	-3.3285	-0.3054	H	1.6973	-0.5106	3.3881
C	-3.6547	-1.8331	0.0340	C	-0.6659	-4.3561	-1.9245	H	0.3494	0.3181	4.1944
H	-4.2277	-1.0838	0.5992	H	-1.4360	-4.1279	-2.6701	C	-3.6869	-0.8691	0.8381
H	-3.1680	-1.3090	-0.7964	H	0.3002	-4.3428	-2.4489	H	-3.4019	-1.7313	0.2146
C	2.2112	2.0475	1.5122	C	-0.9023	-5.7650	-1.3680	C	-4.6116	-1.3846	1.9529
H	1.9540	2.6125	0.6058	H	-1.9116	-5.8157	-0.9362	H	-4.1029	-2.1182	2.5870
C	3.5411	1.3286	1.2301	H	-0.8809	-6.4867	-2.1917	H	-4.9057	-0.5519	2.6064
H	3.8042	0.6865	2.0811	C	0.1288	-6.1321	-0.3038	C	-5.8733	-2.0201	1.3568
H	3.4286	0.6795	0.3546	H	-0.0877	-7.1254	0.1033	H	-5.5890	-2.9202	0.7930
C	4.6858	2.3214	1.0164	H	1.1241	-6.1955	-0.7662	H	-6.5261	-2.3575	2.1691
H	5.6181	1.7716	0.8390	C	0.1559	-5.0946	0.8162	C	-6.6189	-1.0560	0.4372
H	4.4919	2.9142	0.1126	H	0.9318	-5.3418	1.5498	H	-7.4841	-1.5546	-0.0122
C	4.8350	3.2614	2.2092	H	-0.8018	-5.1167	1.3563	H	-7.0154	-0.2194	1.0292
H	5.6424	3.9808	2.0312	C	0.3938	-3.6813	0.2766	C	-5.6994	-0.5087	-0.6527
H	5.1221	2.6825	3.0988	H	1.3957	-3.6377	-0.1771	H	-6.2289	0.2278	-1.2676
C	3.5240	3.9934	2.4782	H	0.3688	-2.9417	1.0876	H	-5.4017	-1.3256	-1.3268
H	3.2945	4.6492	1.6259	C	0.0156	3.2902	-1.7418	C	-4.4474	0.1317	-0.0480
H	3.6160	4.6449	3.3549	H	0.8224	3.4803	-1.0153	H	-4.7535	0.9933	0.5607
C	2.3558	3.0241	2.6888	C	-1.2668	3.9483	-1.2045	H	-3.7956	0.5281	-0.8372
H	2.5179	2.4646	3.6219	H	-2.0940	3.7549	-1.9022	C	2.2360	1.9403	1.8359
H	1.4386	3.6071	2.8239	H	-1.5541	3.5002	-0.2446	H	1.9253	2.9628	1.5624
C	-2.2576	1.6274	4.2690	C	-1.0892	5.4617	-1.0571	C	3.2206	1.4608	0.7680
H	-1.6200	2.1916	4.9569	H	-2.0234	5.9069	-0.6972	H	3.5178	0.4229	0.9653
H	-2.8858	0.9585	4.8657	H	-0.3287	5.6632	-0.2889	H	2.7213	1.4558	-0.2103
C	1.2615	-2.1544	4.5017	C	-0.6644	6.1027	-2.3769	C	4.4617	2.3571	0.7218
H	0.5195	-2.7484	5.0442	H	-0.4953	7.1758	-2.2390	H	5.1674	1.9716	-0.0240
H	1.7672	-1.5069	5.2248	H	-1.4808	6.0083	-3.1065	H	4.1680	3.3625	0.3857
H	2.0124	-2.8456	4.0726	C	0.5930	5.4396	-2.9339	C	5.1361	2.4617	2.0892
H	-2.9186	2.3438	3.7438	H	1.4417	5.6388	-2.2643	H	5.9890	3.1467	2.0370
H	-2.1988	-2.6318	-3.8405	H	0.8565	5.8707	-3.9059	H	5.5409	1.4792	2.3725
H	4.1809	2.0034	-2.1097	C	0.4166	3.9235	-3.0825	C	4.1485	2.9279	3.1568
H	-1.1849	-0.8474	-0.8228	H	-0.3625	3.7313	-3.8329	H	3.8282	3.9572	2.9413
ee²⁺:H₂O:S				H	1.3450	3.4886	-3.4716	H	4.6289	2.9510	4.1413
Ni -0.2334 0.0675 0.1250				C	3.0805	-0.6732	-3.3167	C	2.9202	2.0151	3.2123
				H	3.7779	0.1573	-3.1981	H	3.2443	1.0092	3.5131
				H	2.7475	-0.7358	-4.3540	H	2.2262	2.3674	3.9854

C	-2.2428	2.9065	4.1043	H	5.5701	1.9663	-1.2210	H	-6.1901	1.8504	-3.8154
H	-2.5677	3.8192	3.5763	H	4.3800	2.5061	-2.4010	H	-5.7449	0.1508	-3.8425
H	-1.5103	3.1885	4.8659	C	3.5420	1.9964	-0.4753	C	-5.1451	1.1749	-2.0431
C	0.1423	-2.4085	4.0204	H	3.8898	1.9760	0.5686	H	-6.0481	0.8735	-1.5006
H	-0.3764	-3.3365	3.7613	H	3.3314	0.9546	-0.7467	H	-4.9147	2.2019	-1.7243
H	-0.1816	-2.1027	5.0298	C	-2.3427	-0.8387	2.6538	C	-3.9851	0.2531	-1.6578
H	1.2157	-2.6184	4.0544	H	-1.6121	-1.4600	3.1978	H	-4.2587	-0.7803	-1.9100
H	-3.1086	2.4751	4.6145	C	-3.0950	-1.7628	1.6920	H	-3.8293	0.2733	-0.5725
H	-2.2325	-1.3029	-5.1493	H	-3.8157	-1.1777	1.1034	C	2.5849	-2.8769	0.2569
H	3.5600	-1.6015	-3.0088	H	-2.3906	-2.2106	0.9816	H	2.1585	-3.3236	1.1709
H	2.2666	-0.4796	-1.4600	C	-3.8434	-2.8565	2.4601	C	3.7098	-1.9120	0.6649
H	1.1392	-0.4568	0.2264	H	-4.3971	-3.4877	1.7559	H	4.1528	-1.4725	-0.2405
O	3.3110	-1.7403	-0.5214	H	-3.1113	-3.5093	2.9567	H	3.3123	-1.0709	1.2464
H	4.2794	-1.9171	-0.4616	C	-4.7881	-2.2652	3.5046	C	4.8111	-2.6367	1.4445
H	2.9370	-2.0166	0.3208	H	-5.2709	-3.0668	4.0733	H	5.6058	-1.9294	1.7078
N	6.0166	-2.3100	-0.3575	H	-5.5937	-1.7148	2.9984	H	4.4000	-3.0120	2.3949
C	7.1138	-2.6680	-0.2677	C	-4.0473	-1.3218	4.4497	C	5.3785	-3.8083	0.6459
C	8.4898	-3.1177	-0.1555	H	-3.3235	-1.8917	5.0490	H	6.1225	-4.3474	1.2415
H	9.1650	-2.2577	-0.1227	H	-4.7448	-0.8614	5.1578	H	5.9079	-3.4207	-0.2358
H	8.6183	-3.7041	0.7590	C	-3.3096	-0.2231	3.6759	C	4.2712	-4.7586	0.1971
H	8.7515	-3.7413	-1.0153	H	-4.0532	0.3925	3.1516	H	3.8264	-5.2486	1.0746
ee²⁺:H₂O:S --> eNiH²⁺: H₂O:S				H	-2.7884	0.4393	4.3788	H	4.6836	-5.5586	-0.4271
Ni	0.1176	0.0235	-0.0011	C	1.6784	1.7093	4.4741	C	3.1701	-4.0269	-0.5796
P	0.8727	2.0151	0.3738	H	1.4975	0.8881	5.1692	H	3.5955	-3.6259	-1.5101
P	-1.2146	0.3727	1.7706	H	1.2160	2.6245	4.8481	H	2.3987	-4.7475	-0.8708
N	1.0811	1.3597	3.1517	C	-2.3270	4.2853	1.4910	C	-1.3230	-4.3510	-2.6706
N	-1.4655	3.1063	1.3839	H	-2.9455	4.2075	2.3894	H	-2.0672	-4.8287	-2.0116
C	1.4205	2.3986	2.1339	H	-2.9925	4.4083	0.6208	H	-0.4984	-5.0519	-2.8273
H	2.5081	2.5007	2.1498	P	-1.2288	-0.3635	-1.7874	C	2.3091	0.4157	-3.5660
H	0.9688	3.3347	2.4738	P	1.1424	-1.9373	-0.5150	H	1.9639	1.4344	-3.7610
C	-0.3842	1.0963	3.3000	N	-0.8041	-3.0955	-2.1273	H	2.4076	-0.1104	-4.5239
H	-0.8553	2.0434	3.5730	N	1.3583	-0.2580	-2.6734	H	3.2897	0.4610	-3.0875
H	-0.4776	0.3795	4.1180	C	-1.8614	-2.1077	-2.0165	H	-1.7920	-4.1629	-3.6405
C	-0.5430	3.2371	0.2683	H	-2.5711	-2.3352	-1.2020	H	-1.7101	5.1837	1.5826
H	-0.1380	4.2532	0.2946	H	-2.4316	-2.1231	-2.9520	H	2.7526	1.8594	4.3532
H	-1.0300	3.1002	-0.7144	C	-0.0690	-3.3178	-0.8946	H	1.4811	0.4282	2.8874
C	-2.2567	1.8844	1.3808	H	0.4988	-4.2447	-1.0110	H	1.0189	0.2757	-1.3291
H	-2.7740	1.7195	0.4227	H	-0.7270	-3.4501	-0.0170	O	1.3763	-1.2848	2.9200
H	-3.0221	1.9843	2.1565	C	-0.0066	-0.2554	-3.2077	H	2.1015	-1.9046	3.0645
C	2.2605	2.8395	-0.5756	H	-0.1598	-1.0593	-3.9358	H	1.1148	-1.3639	1.9799
H	1.9123	2.7991	-1.6198	H	-0.1578	0.7050	-3.7076	N	2.8687	-3.1801	4.9511
C	2.5490	4.3076	-0.2237	C	1.8242	-1.5759	-2.2306	C	2.9747	-3.8384	5.8975
H	1.6562	4.9293	-0.3498	H	2.9142	-1.5412	-2.1623	C	3.1082	-4.6650	7.0837
H	2.8458	4.3879	0.8321	C	1.5315	-2.3651	-2.9303	H	3.6219	-5.5974	6.8320
C	3.6774	4.8724	-1.0944	C	-2.6978	0.6342	-2.4087	H	3.6874	-4.1372	7.8467
H	3.3416	4.9054	-2.1403	H	-2.4466	1.6746	-2.1493	H	2.1209	-4.9035	7.4893
H	3.8754	5.9087	-0.8005	C	-2.9502	0.5727	-3.9251	eNiH²⁺:H₂O:S			
C	4.9473	4.0326	-0.9915	H	-2.0616	0.8685	-4.4929	Ni	-0.2340	0.0675	0.1254
H	5.7227	4.4363	-1.6506	H	-3.1858	-0.4592	-4.2207	P	-0.4534	-1.5473	-1.3138
H	5.3466	4.0932	0.0309	C	-4.1180	1.4849	-4.3205	P	-0.1742	1.4244	-1.7021
C	4.6657	2.5734	-1.3415	H	-3.8362	2.5298	-4.1281	N	1.9029	-0.4464	-2.4288
				H	-4.2889	1.4039	-5.3995				
				C	-5.3918	1.1494	-3.5496				

N	-1.4888	-0.2242	-3.5105	P	-2.0629	-0.1368	1.4017	C	0.1316	-2.3992	4.0277
C	0.9742	-1.6143	-2.5196	P	0.5979	1.0315	1.8687	H	-0.3861	-3.3279	3.7693
H	1.5867	-2.4894	-2.2962	N	-1.6687	1.9178	3.2023	H	-0.1951	-2.0911	5.0355
H	0.5978	-1.6580	-3.5441	N	-0.1351	-1.3900	3.0057	H	1.2050	-2.6087	4.0651
C	1.3002	0.8912	-2.7445	C	-2.6349	1.4270	2.2422	H	-3.1224	2.4853	4.6010
H	1.0335	0.8701	-3.8047	H	-2.8837	2.1745	1.4656	H	-2.2192	-1.3153	-5.1510
H	2.1045	1.6175	-2.6014	H	-3.5602	1.1957	2.7809	H	3.5675	-1.6078	-2.9963
C	-1.8256	-1.2642	-2.5513	C	-0.4513	2.3952	2.5906	H	2.2706	-0.4829	-1.4526
H	-1.9716	-2.1955	-3.1076	H	0.1541	2.8782	3.3665	H	1.1384	-0.4564	0.2317
H	-2.7596	-1.0615	-2.0014	H	-0.6240	3.1484	1.7970	O	3.3172	-1.7391	-0.5103
C	-1.5216	1.1240	-2.9643	C	-1.5698	-1.1796	2.8762	H	4.2859	-1.9141	-0.4530
H	-2.4891	1.3666	-2.4903	H	-2.0235	-0.7423	3.7833	H	2.9460	-2.0145	0.3331
H	-1.3852	1.8229	-3.7966	H	-2.0213	-2.1659	2.7242	N	6.0247	-2.3048	-0.3554
C	-0.6493	-3.3225	-0.7828	C	0.6447	-0.1926	3.2716	C	7.1216	-2.6640	-0.2667
H	-1.6404	-3.3299	-0.3004	H	1.6878	-0.5023	3.3953	C	8.4973	-3.1149	-0.1561
C	-0.6606	-4.3608	-1.9155	H	0.3375	0.3279	4.1958	H	9.1733	-2.2553	-0.1241
H	-1.4294	-4.1343	-2.6629	C	-3.6893	-0.8682	0.8314	H	8.6264	-3.7016	0.7582
H	0.3064	-4.3484	-2.4382	H	-3.4025	-1.7306	0.2088	H	8.7576	-3.7388	-1.0165
C	-0.8977	-5.7685	-1.3563	C	-4.6157	-1.3838	1.9448	eNiH²⁺:H₂O:B:2S			
H	-1.9077	-5.8185	-0.9262	H	-4.1074	-2.1166	2.5803	Ni	1.3147	-0.0398	-0.3194
H	-0.8746	-6.4920	-2.1784	H	-4.9116	-0.5510	2.5973	P	0.8401	-0.8034	1.8320
C	0.1316	-6.1330	-0.2895	C	-5.8757	-2.0209	1.3468	P	1.1906	1.9502	0.5902
H	-0.0853	-7.1255	0.1193	H	-5.5895	-2.9210	0.7840	N	-1.3192	1.0989	1.7766
H	1.1278	-6.1971	-0.7500	H	-6.5296	-2.3584	2.1581	N	1.8659	1.4034	3.2058
C	0.1565	-5.0931	0.8284	C	-6.6204	-1.0580	0.4252	C	-0.7301	-0.0532	2.5239
H	0.9312	-5.3385	1.5639	H	-7.4843	-1.5577	-0.0255	H	-1.5080	-0.8213	2.5363
H	-0.8022	-5.1142	1.3668	H	-7.0188	-0.2214	1.0160	H	-0.5593	0.2867	3.5490
C	0.3950	-3.6809	0.2861	C	-5.6993	-0.5104	-0.6633	C	-0.4222	2.2586	1.5014
H	1.3978	-3.6379	-0.1659	H	-6.2284	0.2252	-1.2795	H	-0.1977	2.7296	2.4611
H	0.3684	-2.9395	1.0953	H	-5.3997	-1.3274	-1.3364	H	-1.0229	2.9403	0.8939
C	0.0189	3.2859	-1.7475	C	-4.4492	0.1315	-0.0566	C	2.0418	-0.0333	3.0531
H	0.8243	3.4776	-1.0199	H	-4.7573	0.9930	0.5512	H	1.8745	-0.4861	4.0346
C	-1.2647	3.9444	-1.2135	H	-3.7963	0.5282	-0.8447	H	3.0662	-0.3073	2.7427
H	-2.0906	3.7495	-1.9124	C	2.2301	1.9451	1.8389	C	2.3126	2.1937	2.0686
H	-1.5537	3.4976	-0.2534	H	1.9200	2.9668	1.5623	H	3.3529	1.9740	1.7817
C	-1.0879	5.4581	-1.0682	C	3.2178	1.4637	0.7750	H	2.2696	3.2494	2.3575
H	-2.0229	5.9035	-0.7106	H	3.5148	0.4264	0.9754	C	0.6874	-2.5580	2.4775
H	-0.3288	5.6610	-0.2990	H	2.7213	1.4563	-0.2046	H	1.6985	-2.9656	2.3230
C	-0.6611	6.0971	-2.3883	C	4.4588	2.3603	0.7304	C	0.3114	-2.7171	3.9583
H	-0.4926	7.1704	-2.2518	H	5.1667	1.9735	-0.0125	H	1.0170	-2.1919	4.6118
H	-1.4763	6.0012	-3.1192	H	4.1657	3.3648	0.3913	H	-0.6784	-2.2745	4.1407
C	0.5975	5.4335	-2.9421	C	5.1293	2.4682	2.0993	C	0.2640	-4.1956	4.3594
H	1.4450	5.6340	-2.2715	H	5.9821	3.1534	2.0480	H	1.2736	-4.6227	4.2812
H	0.8624	5.8630	-3.9144	H	5.5335	1.4866	2.3858	H	-0.0270	-4.2769	5.4126
C	0.4219	3.9170	-3.0885	C	4.1385	2.9363	3.1629	C	-0.6945	-4.9867	3.4735
H	-0.3558	3.7232	-3.8399	H	3.8186	3.9648	2.9443	H	-0.6870	-6.0446	3.7572
H	1.3512	3.4817	-3.4753	H	4.6161	2.9618	4.1486	H	-1.7214	-4.6281	3.6347
C	3.0886	-0.6803	-3.3071	C	2.9104	2.0231	3.2169	C	-0.3260	-4.8311	2.0003
H	3.7856	0.1506	-3.1888	H	3.2339	1.0181	3.5207	H	-1.0425	-5.3656	1.3654
H	2.7578	-0.7451	-4.3451	H	2.2141	2.3767	3.9871	H	0.6555	-5.2930	1.8232
C	-2.3256	-0.3212	-4.7075	C	-2.2553	2.9155	4.0922	C	-0.2663	-3.3595	1.5811
H	-1.9938	0.4146	-5.4455	H	-2.5788	3.8269	3.5610				
H	-3.3935	-0.1454	-4.4982	H	-1.5250	3.1997	4.8551				

H -1.2796 -2.9334 1.6403	H 6.6499 3.0395 0.6306	C -7.7117 5.5049 -2.3498
H 0.0619 -3.2690 0.5408	H 6.0816 1.9899 1.9254	H -7.1804 5.9632 -3.1887
C 1.2295 3.5275 -0.4165	C 5.3163 1.4723 -0.0282	H -8.7192 5.2314 -2.6776
H 0.2825 3.4461 -0.9758	H 5.6511 1.5506 -1.0711	H -7.7922 6.2368 -1.5404
C 2.3592 3.5540 -1.4511	H 4.4256 2.1051 0.0538	N -6.5932 -1.8536 -1.3425
H 3.3283 3.6196 -0.9377	C -0.7533 -1.5262 -2.7550	C -7.3774 -2.6858 -1.5389
H 2.3608 2.6193 -2.0252	H -1.0676 -0.5073 -3.0368	C -8.3655 -3.7256 -1.7801
C 2.2094 4.7591 -2.3841	C -1.7139 -2.0498 -1.6786	H -7.9920 -4.4491 -2.5136
H 3.0382 4.7753 -3.1008	H -1.3912 -3.0520 -1.3630	H -8.5841 -4.2494 -0.8483
H 1.2881 4.6442 -2.9731	H -1.6763 -1.4101 -0.7900	H -9.2913 -3.2846 -2.1632
C 2.1548 6.0701 -1.6014	C -3.1468 -2.1343 -2.2084	
H 1.9986 6.9120 -2.2842	H -3.8110 -2.5215 -1.4286	
H 3.1239 6.2427 -1.1123	H -3.5107 -1.1224 -2.4396	
C 1.0535 6.0398 -0.5434	C -3.2321 -2.9960 -3.4650	
H 0.0713 5.9939 -1.0347	H -4.2572 -2.9985 -3.8510	
H 1.0638 6.9619 0.0481	H -2.9898 -4.0376 -3.2099	
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H 0.3957 4.8353 1.1315	H -2.2889 -3.1545 -5.4128	
C -2.5150 1.5951 2.5255	C -0.8281 -2.4141 -4.0085	
H -3.0065 2.3640 1.9306	H -0.4782 -3.4264 -3.7630	
H -2.1917 2.0030 3.4854	H -0.1780 -2.0406 -4.8063	
C 2.4866 1.8805 4.4415	C 3.9894 -0.7632 -4.7317	
H 2.2647 2.9429 4.5778	H 3.9726 0.2697 -5.1200	
H 3.5820 1.7519 4.4483	H 3.5050 -1.4162 -5.4631	
P 3.4785 -0.5763 -0.6813	C 2.7219 -4.6078 -0.5134	
P 0.9654 -1.2768 -2.0757	H 3.2438 -4.7475 0.4383	
N 3.3216 -0.8958 -3.4404	H 3.3452 -5.0421 -1.3141	
N 2.4409 -3.1889 -0.7154	H 1.7816 -5.1654 -0.4705	
C 4.0052 -0.1334 -2.4173	H 5.0320 -1.0799 -4.6375	
H 3.8801 0.9579 -2.5440	H 2.0713 1.3370 5.2948	
H 5.0761 -0.3502 -2.4980	H -3.2132 0.7702 2.6798	
C 1.9063 -0.6057 -3.5397	H -1.7251 0.8032 0.8315	
H 1.5292 -1.0951 -4.4423	H -0.0362 0.3460 -0.6806	
H 1.6836 0.4742 -3.6307	O -2.6813 0.9730 -0.4348	
C 3.6812 -2.4339 -0.6786	H -2.3806 0.7303 -1.3148	
H 4.3725 -2.7065 -1.4973	H -3.7057 0.8727 -0.4257	
H 4.1777 -2.6851 0.2647	N -5.3208 0.7732 -0.2964	
C 1.6647 -2.9992 -1.9284	C -5.6131 0.7667 1.0911	
H 0.8133 -3.6872 -1.8886	H -5.7120 1.5975 -0.7608	
H 2.2374 -3.2212 -2.8459	H -5.6696 -0.0738 -0.7538	
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H 4.6748 -0.0566 1.3427	C -5.8952 1.9595 1.7655	
C 6.2481 -0.8526 0.1201	C -5.7453 -0.4249 3.1948	
H 6.0584 -1.9027 0.3622	H -5.3515 -1.3604 1.2893	
H 6.5808 -0.8245 -0.9268	C -6.0910 1.9546 3.1447	
C 7.3769 -0.3326 1.0187	H -5.9779 2.8837 1.1996	
H 7.0861 -0.4659 2.0705	C -6.0121 0.7663 3.8692	
H 8.2708 -0.9470 0.8650	H -5.7096 -1.3624 3.7430	
C 7.6878 1.1387 0.7583	H -6.3241 2.8858 3.6537	
H 8.4584 1.4916 1.4519	H -6.1803 0.7648 4.9418	
H 8.1039 1.2514 -0.2526	N -6.4305 3.3835 -1.5199	
C 6.4302 1.9957 0.8820	C -6.9985 4.3247 -1.8884	

H 1.6267 5.1183 -2.9970	H -0.6947 -3.5967 -0.9995	H -8.9503 3.3047 -3.7908
H -0.0265 4.5919 -2.7027	H -1.2703 -2.0714 -0.3284	H -7.4871 4.0647 -4.4616
C 0.6395 6.1517 -1.3653	C -2.7308 -3.1340 -1.5247	ex²⁺
H 0.2292 6.9499 -1.9935	H -3.1338 -3.6881 -0.6691	Ni -0.0250 -0.0198 -0.0701
H 1.5919 6.5290 -0.9671	H -3.3538 -2.2352 -1.6305	P -0.6994 1.5225 -1.4620
C -0.3078 5.8530 -0.2047	C -2.8103 -3.9781 -2.7943	P 1.2260 -0.8389 -1.6647
H -1.3013 5.5940 -0.5986	H -3.8523 -4.2317 -3.0203	N -1.3168 -0.8147 -2.8058
H -0.4419 6.7438 0.4193	H -2.2885 -4.9317 -2.6315	N 1.4474 1.4418 -3.2327
C 0.2079 4.6956 0.6578	C -2.1754 -3.2517 -3.9772	C -1.4762 0.6710 -2.9532
H 1.1566 5.0001 1.1205	H -2.7668 -2.3567 -4.2196	H -2.5501 0.8712 -2.9754
H -0.4942 4.4984 1.4771	H -2.1891 -3.8846 -4.8715	H -1.0195 0.9705 -3.8984
C -2.4340 0.6280 2.9330	C -0.7333 -2.8292 -3.6766	C 0.0747 -1.3005 -3.0898
H -3.1411 1.3027 2.4409	H -0.1201 -3.7302 -3.5377	H 0.3902 -0.8826 -4.0480
H -2.1929 1.0410 3.9249	H -0.3267 -2.3026 -4.5466	H 0.0130 -2.3893 -3.1648
C 2.6930 2.0972 4.3618	C 3.4771 -0.1422 -4.9917	C 0.7513 2.3404 -2.3253
H 2.2851 3.0939 4.5552	H 3.1761 0.8604 -5.3428	H 0.3822 3.1843 -2.9152
H 3.7818 2.1934 4.2063	H 3.0604 -0.8877 -5.6752	H 1.4147 2.7530 -1.5427
P 3.4763 -0.0725 -0.9036	C 3.6773 -4.1724 -0.7712	C 2.2594 0.4334 -2.5701
P 1.0286 -1.3191 -1.9777	H 4.3380 -4.1913 0.1010	H 2.9719 0.8747 -1.8498
N 3.0339 -0.4246 -3.6310	H 4.2711 -4.4534 -1.6586	H 2.8490 -0.0750 -3.3397
N 3.0609 -2.8551 -0.8906	H 2.9005 -4.9289 -0.6247	C -1.8636 2.9685 -1.1964
C 3.6603 0.4720 -2.6814	H 4.5675 -0.2120 -5.0428	H -1.2815 3.6358 -0.5392
H 3.2823 1.5082 -2.7627	H 2.5269 1.4860 5.2536	C -2.2665 3.7642 -2.4474
H 4.7324 0.4983 -2.9071	H -2.9168 -0.3442 3.0700	H -1.3889 4.1215 -2.9970
C 1.5883 -0.4675 -3.5407	H -2.1095 0.1506 0.6301	H -2.8259 3.1130 -3.1350
H 1.2204 -1.0390 -4.3981	H -0.1172 -0.0198 -0.3630	C -3.1517 4.9596 -2.0778
H 1.1172 0.5331 -3.5804	O -2.7528 0.1875 -0.1409	H -2.5660 5.6674 -1.4748
C 4.0910 -1.8363 -0.9830	H -2.2178 0.4321 -0.9027	H -3.4407 5.4938 -2.9895
H 4.7185 -1.9430 -1.8873	H -4.3897 0.4989 -0.0823	C -4.3890 4.5234 -1.2974
H 4.7449 -1.9688 -0.1146	N -5.4374 0.6327 -0.0146	H -4.9822 5.3973 -1.0083
C 2.1066 -2.8420 -1.9846	C -6.1263 -0.6523 0.1054	H -5.0330 3.9117 -1.9454
H 1.4439 -3.7044 -1.8550	H -5.6359 1.2375 0.8058	C -4.0023 3.7163 -0.0598
H 2.5848 -2.9280 -2.9762	H -5.7678 1.1397 -0.8636	H -4.8982 3.3631 0.4638
C 4.9303 0.8283 -0.1199	C -6.3159 -1.4226 -1.0365	H -3.4627 4.3656 0.6445
H 4.7790 0.7063 0.9632	C -6.5688 -1.0780 1.3516	C -3.1116 2.5243 -0.4212
C 6.3222 0.2701 -0.4644	C -6.9626 -2.6503 -0.9215	H -3.6928 1.8194 -1.0365
H 6.4005 -0.7948 -0.2253	H -5.9777 -1.0631 -2.0040	H -2.8138 1.9751 0.4807
H 6.5048 0.3657 -1.5439	C -7.2133 -2.3090 1.4542	C 2.3386 -2.3483 -1.6427
C 7.4145 1.0303 0.2978	H -6.4233 -0.4541 2.2287	H 1.6770 -3.1368 -1.2464
H 7.2951 0.8417 1.3743	C -7.4094 -3.0948 0.3213	C 3.4832 -2.1536 -0.6374
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H 5.7664 3.0133 1.4129	H -6.5735 4.0836 4.8465	H 5.3699 -4.8842 -1.6748
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H 5.0674 2.4758 -1.5158	H -8.1681 3.4888 4.3265	C 3.7023 -4.1175 -2.8229
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C -0.6693 -1.9607 -2.4104	C -7.1411 2.4655 -3.1501	H 4.1025 -4.4274 -3.7944
H -1.2583 -1.0465 -2.5904	C -7.9429 3.1136 -4.1720	
C -1.2950 -2.7034 -1.2219	H -8.0155 2.4715 -5.0546	

C	2.8938	-2.8261	-2.9926	C	-3.9738	-4.5856	1.1452	H	-2.8915	-3.6215	1.5357				
H	3.5524	-2.0563	-3.4168	H	-3.4879	-5.1850	0.3624	H	-1.5694	-2.6516	2.1754				
H	2.0906	-2.9894	-3.7219	H	-4.2952	-5.2912	1.9189	C	-2.1558	2.1825	-2.8584				
C	-2.3412	-1.5695	-3.5746	C	-2.9425	-3.6174	1.7403	H	-1.4623	1.5185	-3.4015				
H	-2.2310	-2.6357	-3.3695	H	-3.3847	-3.1158	2.6131	C	-1.3460	3.3863	-2.3543				
H	-2.1984	-1.3830	-4.6405	H	-2.0898	-4.2027	2.1028	H	-2.0050	4.0541	-1.7809				
C	2.2464	2.1915	-4.2030	C	1.2044	-2.3210	4.4337	H	-0.5670	3.0477	-1.6585				
H	3.0587	2.7697	-3.7319	H	0.4179	-2.9354	4.8755	C	-0.7308	4.1692	-3.5172				
H	1.6030	2.8846	-4.7522	H	1.6443	-1.6850	5.2040	H	-0.1870	5.0400	-3.1327				
P	0.8745	0.8027	1.7102	C	-2.0531	0.8498	4.6252	H	0.0090	3.5345	-4.0278				
P	-1.2097	-1.2876	1.1913	H	-1.3865	1.2835	5.3750	C	-1.7957	4.6078	-4.5213				
N	0.6208	-1.4666	3.3680	H	-2.6102	0.0308	5.0877	H	-1.3281	5.1210	-5.3685				
N	-1.2617	0.3342	3.4980	H	-2.7658	1.6207	4.2991	H	-2.4634	5.3391	-4.0447				
C	1.6390	-0.5076	2.8321	H	1.9763	-2.9646	4.0042	C	-2.6175	3.4179	-5.0128				
H	2.3951	-1.0742	2.2813	H	2.6904	1.4999	-4.9247	H	-1.9749	2.7413	-5.5940				
H	2.1151	-0.0501	3.7055	H	-3.3351	-1.2364	-3.2716	H	-3.4092	3.7541	-5.6913				
C	-0.0919	-2.2990	2.3427	H	-0.1661	-0.8044	3.7509	C	-3.2383	2.6449	-3.8436				
H	-0.6744	-3.0271	2.9125	H	-1.4215	-0.9678	-1.7675	H	-3.9509	3.3042	-3.3302				
H	0.6540	-2.8360	1.7482	ex²⁺:B:2S											
C	-0.4280	1.4137	2.9281	Ni	-1.4740	-0.0074	-0.0088	Ni	-5.0869	-2.5071	-2.8200				
H	0.0580	1.9073	3.7747	P	-3.3022	-0.6795	0.9594	P	-6.2396	2.0930	0.3823				
H	-1.0479	2.1656	2.4147	P	-2.6990	1.1229	-1.4087	H	-6.0549	2.9600	1.0390				
C	-2.1440	-0.3466	2.5306	N	-3.6493	-1.4803	-1.6615	H	-6.9760	1.4451	0.8665				
H	-2.8120	0.3734	2.0344	N	-5.0258	1.3301	0.0948	P	-0.0625	0.9394	1.3325				
H	-2.7710	-1.0384	3.1043	C	-4.3383	-1.5860	-0.3321	P	0.1790	-1.1853	-0.7217				
C	2.1974	2.1341	1.7929	H	-4.3880	-2.6497	-0.0877	N	2.1684	0.9606	-0.5503				
H	1.8372	2.8770	1.0642	H	-5.3446	-1.1755	-0.4350	N	1.7890	-1.1233	1.5630				
C	2.4244	2.8534	3.1291	C	-3.7914	-0.1335	-2.3070	C	1.3873	1.7477	0.4633				
H	1.5023	3.3265	3.4847	H	-4.8500	0.1346	-2.3040	H	0.9780	2.6233	-0.0493				
H	2.7341	2.1314	3.8993	H	-3.4417	-0.2453	-3.3369	H	2.1390	2.0967	1.1777				
C	3.5074	3.9318	2.9929	C	-4.4854	0.7347	1.3089	C	1.4961	-0.0488	-1.4375				
H	3.1370	4.7233	2.3265	H	-5.3302	0.3545	1.8908	H	2.3278	-0.6231	-1.8539				
H	3.6733	4.4017	3.9684	H	-3.9545	1.4675	1.9430	H	1.0106	0.4994	-2.2513				
C	4.8138	3.3708	2.4377	C	-4.0781	2.1420	-0.6539	C	0.8517	-0.3300	2.3505				
H	5.5451	4.1760	2.3111	H	-3.6255	2.9386	-0.0367	H	1.4347	0.1764	3.1258				
H	5.2491	2.6671	3.1614	H	-4.6333	2.6343	-1.4592	H	0.0953	-0.9541	2.8629				
C	4.5820	2.6523	1.1106	C	-3.5303	-1.7731	2.4658	C	1.1687	-2.0393	0.6130				
H	5.5153	2.2105	0.7435	H	-3.1778	-1.1330	3.2914	H	0.4912	-2.7563	1.1131				
H	4.2566	3.3771	0.3508	C	-4.9629	-2.2231	2.7886	H	1.9727	-2.6202	0.1464				
C	3.5195	1.5607	1.2547	H	-5.6393	-1.3673	2.8904	C	-0.4447	2.2646	2.6100				
H	3.8978	0.7986	1.9518	H	-5.3527	-2.8368	1.9630	H	-1.1292	1.7303	3.2902				
H	3.3510	1.0550	0.2958	C	-5.0026	-3.0542	4.0761	C	0.7177	2.8163	3.4480				
C	-2.4987	-2.5764	0.7036	H	-4.7149	-2.4164	4.9237	H	1.2953	2.0135	3.9197				
H	-2.0112	-3.1158	-0.1250	H	-6.0309	-3.3803	4.2680	H	1.4114	3.3702	2.7997				
C	-3.7243	-1.8416	0.1315	C	-4.0643	-4.2560	4.0003	C	0.1990	3.7711	4.5294				
H	-4.2211	-1.2839	0.9377	H	-4.0801	-4.8089	4.9457	H	-0.4282	3.2085	5.2352				
H	-3.4140	-1.0884	-0.6078	H	-4.4233	-4.9513	3.2278	H	1.0436	4.1619	5.1081				
C	-4.7343	-2.8179	-0.4757	C	-2.6392	-3.8202	3.6665	C	-0.6104	4.9164	3.9251				
H	-5.5992	-2.2642	-0.8587	H	-1.9842	-4.6932	3.5635	H	-1.0086	5.5589	4.7179				
H	-4.2784	-3.3297	-1.3363	H	-2.2366	-3.2226	4.4969	H	0.0524	5.5480	3.3163				
C	-5.1762	-3.8558	0.5535	C	-2.5928	-2.9856	2.3843	C	-1.7469	4.3888	3.0516				

H -2.2813	5.2191	2.5755	H 8.3388	-1.7535	4.7097	H -2.3626	-5.6252	4.6107
H -2.4796	3.8659	3.6832	N 5.6161	3.1143	0.4312	H -3.4210	-5.3106	3.2437
C -1.2323	3.4224	1.9816	C 6.4168	3.9326	0.6156	C -3.1172	-3.5977	4.5187
H -0.5813	3.9732	1.2859	C 7.4203	4.9571	0.8482	H -2.3582	-3.2253	5.2214
H -2.0627	3.0268	1.3866	H 7.2076	5.8390	0.2372	H -4.0158	-3.8017	5.1110
C 0.1461	-2.5206	-2.0608	H 7.4228	5.2495	1.9022	C -3.4241	-2.5106	3.4825
H -0.5222	-2.0963	-2.8288	H 8.4117	4.5772	0.5850	H -4.2488	-2.8602	2.8471
C -0.5338	-3.7750	-1.4841	ex²⁺:B:2S --> ex¹²⁺:B:2S			H -3.7815	-1.6074	3.9926
H 0.1078	-4.2059	-0.7036	C -2.6582	2.8380	3.2150			
H -1.4769	-3.5102	-0.9832	Ni -0.8052	0.1217	0.1293	H -2.1481	2.4413	4.0945
C -0.7663	-4.8395	-2.5582	P -2.3316	1.4771	-0.6320	H -3.7132	3.0012	3.4421
H -1.2390	-5.7212	-2.1098	P -2.3365	-0.8201	1.3688	C -5.9376	-0.4240	-0.5205
H -1.4667	-4.4546	-3.3146	N -2.5465	1.8595	2.1014	H -5.9787	-1.1673	-1.3343
C 0.5462	-5.2223	-3.2382	N -4.5688	-0.0922	-0.1243	H -6.4537	0.4808	-0.8538
H 0.3646	-5.9574	-4.0295	C -3.1151	2.3924	0.8184	P 0.1435	-1.0318	-1.4262
H 1.2039	-5.7096	-2.5049	H -2.8505	3.4515	0.7745	P 1.1785	0.6020	0.8123
C 1.2414	-3.9904	-3.8103	H -4.2002	2.2780	0.8553	N 2.4593	-1.8853	0.0458
H 0.6323	-3.5755	-4.6262	C -3.0806	0.5111	2.4828	N 2.0428	1.0732	-1.8835
H 2.2050	-4.2635	-4.2543	H -4.1706	0.5526	2.4323	C 1.3105	-2.3603	-0.7849
C 1.4629	-2.9022	-2.7522	H -2.7646	0.3341	3.5143	H 0.7293	-3.0544	-0.1714
H 2.1892	-3.2601	-2.0096	C -3.8535	0.5510	-1.2162	H 1.7533	-2.9234	-1.6133
H 1.9178	-2.0340	-3.2409	H -4.5414	1.2581	-1.6893	C 2.1133	-0.9967	1.2012
C 2.9033	1.9270	-1.4215	H -3.5328	-0.1660	-1.9945	H 3.0655	-0.7813	1.6923
H 3.5452	1.3661	-2.1027	C -3.8988	-1.2591	0.4286	H 1.4934	-1.5840	1.8861
H 3.5229	2.5705	-0.7936	H -3.6387	-1.9996	-0.3488	C 1.3297	-0.0334	-2.4745
C 2.6630	-1.8751	2.4607	H -4.5978	-1.7439	1.1174	H 2.0096	-0.7328	-2.9960
H 3.2086	-1.1891	3.1132	C -2.1663	2.8506	-1.8951	H 0.6735	0.3703	-3.2629
H 3.4025	-2.4337	1.8816	H -1.9599	2.3068	-2.8316	C 2.3231	1.3195	-0.4896
H 2.1016	-2.5895	3.0885	C -3.4002	3.7373	-2.1177	H 2.2527	2.4016	-0.3156
H 2.1781	2.5190	-1.9841	H -4.2761	3.1412	-2.3969	H 3.3544	1.0426	-0.2028
H -6.6742	2.4575	-0.5531	H -3.6571	4.2570	-1.1829	C -0.7165	-2.0405	-2.7628
H -3.8245	-3.5405	-2.0943	C -3.1370	4.7869	-3.2035	H -1.4980	-1.3437	-3.1060
H 2.9545	0.4473	-0.0318	H -2.9889	4.2783	-4.1665	C 0.1051	-2.4639	-3.9897
H -2.6228	-1.5148	-1.4005	H -4.0236	5.4198	-3.3203	H 0.5811	-1.6012	-4.4676
N 4.7101	0.0908	0.2415	C -1.9104	5.6361	-2.8808	H 0.9117	-3.1471	-3.6844
C 5.2422	-0.5998	-0.8801	H -1.7219	6.3514	-3.6884	C -0.7837	-3.1760	-5.0176
H 5.1382	1.0124	0.3444	H -2.1052	6.2318	-1.9774	H -1.5146	-2.4566	-5.4129
H 4.8857	-0.4291	1.1042	C -0.6808	4.7593	-2.6539	H -0.1713	-3.4932	-5.8689
C 5.1026	-1.9892	-0.9798	H 0.1842	5.3737	-2.3780	C -1.5196	-4.3690	-4.4131
C 5.8642	0.0955	-1.9239	H -0.4189	4.2533	-3.5947	H -2.1818	-4.8211	-5.1589
C 5.5721	-2.6642	-2.1031	C -0.9325	3.7053	-1.5723	H -0.7925	-5.1445	-4.1331
H 4.6543	-2.5413	-0.1574	H -1.0852	4.2184	-0.6096	C -2.3169	-3.9564	-3.1774
C 6.3220	-0.5865	-3.0492	H -0.0577	3.0560	-1.4449	H -2.7947	-4.8298	-2.7193
H 6.0170	1.1688	-1.8359	C -2.1903	-2.2161	2.6168	H -3.1264	-3.2734	-3.4722
C 6.1757	-1.9678	-3.1486	H -1.3830	-1.8650	3.2812	C -1.4202	-3.2611	-2.1502
H 5.4762	-3.7453	-2.1550	C -1.7023	-3.5026	1.9359	H -0.6661	-3.9834	-1.8046
H 6.8121	-0.0328	-3.8449	H -2.4734	-3.8628	1.2396	H -1.9995	-2.9653	-1.2673
H 6.5442	-2.4975	-4.0212	H -0.8108	-3.2900	1.3314	C 1.7643	1.5982	2.3111
N 6.0041	-1.3946	2.6094	C -1.4045	-4.5983	2.9634	H 1.3589	1.0273	3.1634
C 6.8998	-1.8523	3.1854	H -1.0900	-5.5136	2.4487	C 1.0963	2.9808	2.3164
C 8.0238	-2.4255	3.9063	H -0.5583	-4.2822	3.5910	H 1.4794	3.5753	1.4744
H 7.7414	-3.3877	4.3429	C -2.6153	-4.8767	3.8523	H 0.0159	2.8860	2.1459
H 8.8660	-2.5812	3.2261				C 1.3675	3.7340	3.6215

H 0.8942	4.7223	3.5854	H -5.2941	1.2195	0.1512	N 0.9989	1.8887	-1.3678
H 0.9024	3.1897	4.4565	C -4.0679	-0.2469	1.9828	C 1.4303	-1.7764	-0.2908
C 2.8662	3.8721	3.8809	H -5.1069	-0.4777	1.7386	H 0.9093	-2.6498	0.1116
H 3.0396	4.3585	4.8466	H -3.9047	-0.3648	3.0573	H 2.2177	-2.1260	-0.9659
H 3.3069	4.5289	3.1180	C -4.1551	-0.3074	-1.7966	C 1.3707	-0.3181	1.8304
C 3.5583	2.5123	3.8405	H -4.9033	0.2130	-2.4019	H 2.1240	0.1048	2.5006
H 3.2118	1.8960	4.6822	H -3.5281	-0.9003	-2.4878	H 0.7482	-1.0114	2.4043
H 4.6401	2.6302	3.9674	C -4.0402	-2.1115	-0.1462	C 1.2018	0.5838	-1.9649
C 3.2764	1.7736	2.5264	H -3.4722	-2.7502	-0.8460	H 2.2660	0.2748	-1.9752
H 3.6993	2.3563	1.6971	H -4.7084	-2.7676	0.4209	H 0.8895	0.6543	-3.0135
H 3.8067	0.8146	2.5365	C -3.0179	2.3617	-2.2078	C 1.3702	1.9774	0.0302
C 3.2296	-3.0635	0.5461	H -2.5004	1.9177	-3.0738	H 1.2715	3.0273	0.3260
H 4.1409	-2.7125	1.0325	C -4.3774	2.8962	-2.6805	H 2.4267	1.7059	0.2164
H 3.4932	-3.6992	-0.3010	H -4.9964	2.0995	-3.1081	C -0.0811	-1.9071	-2.6889
C 2.3661	2.1248	-2.8303	H -4.9347	3.3028	-1.8234	H -0.8303	-1.3587	-3.2836
H 2.9268	1.7335	-3.6907	C -4.2011	4.0088	-3.7200	C 1.1443	-2.1476	-3.5838
H 2.9941	2.8817	-2.3537	H -3.7433	3.5846	-4.6247	H 1.5942	-1.2026	-3.9070
H 1.4666	2.6245	-3.2236	H -5.1847	4.3883	-4.0186	H 1.9201	-2.6892	-3.0248
H 2.6135	-3.6255	1.2509	C -3.3263	5.1420	-3.1899	C 0.7581	-2.9762	-4.8150
H -6.4817	-0.8253	0.3393	H -3.1864	5.9051	-3.9633	H 0.0638	-2.3931	-5.4365
H -2.1960	3.7796	2.9145	H -3.8395	5.6380	-2.3533	H 1.6481	-3.1553	-5.4287
H 3.1608	-1.3935	-0.6156	C -1.9750	4.6136	-2.7137	C 0.1037	-4.2997	-4.4248
H -1.5399	1.6641	1.8598	H -1.3720	5.4271	-2.2929	H -0.2034	-4.8490	-5.3213
N 4.4339	-0.9255	-1.6645	H -1.4142	4.2222	-3.5748	H 0.8407	-4.9322	-3.9096
C 5.6971	-0.8140	-0.9934	C -2.1336	3.4990	-1.6762	C -1.0957	-4.0740	-3.5060
H 4.5103	-1.5482	-2.4651	H -2.5938	3.9258	-0.7703	H -1.5204	-5.0330	-3.1876
H 4.0977	-0.0255	-2.0082	H -1.1578	3.0913	-1.3868	H -1.8874	-3.5480	-4.0587
C 6.1370	0.4155	-0.5028	C -2.5597	-2.6737	2.3166	C -0.7069	-3.2467	-2.2782
C 6.4694	-1.9592	-0.7876	H -1.9824	-2.1592	3.1032	H 0.0167	-3.8232	-1.6833
C 7.3378	0.4940	0.1998	C -1.6683	-3.7816	1.7378	H -1.5783	-3.0761	-1.6354
H 5.5609	1.3176	-0.6960	H -2.2043	-4.2949	0.9265	C 0.1849	2.1320	2.6757
C 7.6716	-1.8709	-0.0916	H -0.7707	-3.3399	1.2862	H -0.2966	1.5125	3.4507
H 6.1437	-2.9164	-1.1898	C -1.2829	-4.8051	2.8090	C -0.7280	3.3368	2.4030
C 8.1075	-0.6465	0.4109	H -0.6746	-5.5999	2.3617	H -0.2828	3.9617	1.6155
H 7.6798	1.4571	0.5662	H -0.6538	-4.3139	3.5663	H -1.6941	3.0036	2.0016
H 8.2733	-2.7635	0.0502	C -2.5173	-5.3971	3.4873	C -0.9316	4.1915	3.6561
H 9.0475	-0.5803	0.9487	H -2.2174	-6.0871	4.2833	H -1.5718	5.0499	3.4207
N 4.7222	-2.4077	-4.0942	H -3.0823	-5.9923	2.7563	H -1.4614	3.6004	4.4177
C 5.0655	-2.9466	-5.0599	C -3.4181	-4.2998	4.0500	C 0.4045	4.6644	4.2245
C 5.4953	-3.6214	-6.2714	H -2.8972	-3.7779	4.8654	H 0.2448	5.2307	5.1483
H 5.8428	-2.8867	-7.0039	H -4.3234	-4.7349	4.4876	H 0.8762	5.3559	3.5123
H 6.3142	-4.3109	-6.0475	C -3.8080	-3.2856	2.9688	C 1.3379	3.4843	4.4805
H 4.6643	-4.1860	-6.7030	H -4.4095	-3.8020	2.2087	H 0.9240	2.8568	5.2826
ex²⁺:B:2S			H -4.4516	-2.5122	3.4062	H 2.3127	3.8381	4.8350
			C -4.3560	2.0943	2.7331	C 1.5324	2.6276	3.2234
			H -3.9149	1.8153	3.6917	H 2.0408	3.2293	2.4574
			H -5.4413	1.9887	2.7818	H 2.2045	1.7963	3.4637
			C -6.0127	-1.7966	-1.4710	C 2.8915	-2.1947	1.6049
			H -5.7137	-2.5055	-2.2617	H 3.5461	-1.7169	2.3369
			H -6.6720	-1.0448	-1.9144	H 3.4943	-2.7702	0.9007
			P 0.1409	-0.7675	-1.2102	C 1.6618	2.9239	-2.1525
			P 0.2124	1.0098	1.1549	H 2.7608	2.8280	-2.1542
			N 2.1572	-1.1330	0.8504	H 1.4037	3.9086	-1.7495

H 1.3060 2.8799 -3.1867	H -2.5991 -0.0262 -3.4780	H 1.0506 2.9966 -1.3839
H 2.1669 -2.8431 2.1022	C -4.5544 0.8727 -3.4601	H 2.4117 1.9904 -0.9092
H -6.5849 -2.3448 -0.7169	H -5.0997 -0.0737 -3.3725	C 0.2715 -2.8775 -1.4788
H -4.0969 3.1273 2.4957	H -5.1181 1.6162 -2.8772	H -0.5489 -2.7508 -2.2042
H 2.9663 -0.5306 0.4482	C -4.5402 1.3131 -4.9281	C 1.4865 -3.4339 -2.2362
H -2.7724 1.2574 1.6007	H -4.0730 0.5244 -5.5346	H 1.8273 -2.7390 -3.0120
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H 4.6461 0.9102 -0.3702	H -3.7483 2.8941 -6.1769	H 0.3828 -4.6397 -3.6459
H 5.0037 0.0041 0.9681	H -4.3083 3.4323 -4.5999	H 2.0381 -5.1756 -3.3940
C 5.8601 -2.0847 -0.2390	C -2.3576 2.5116 -4.5593	C 0.6551 -5.7947 -1.8424
C 5.0323 -0.9129 -2.1804	H -1.8330 3.4698 -4.6570	H 0.3804 -6.7351 -2.3323
C 6.3932 -3.0705 -1.0666	H -1.7895 1.7819 -5.1545	H 1.4705 -6.0338 -1.1448
H 6.0036 -2.1381 0.8377	C -2.3548 2.0674 -3.0943	C -0.5319 -5.2394 -1.0577
C 5.5725 -1.9005 -3.0001	H -2.8251 2.8568 -2.4860	H -0.8423 -5.9478 -0.2809
H 4.5320 -0.0518 -2.6163	H -1.3301 1.9402 -2.7255	H -1.3917 -5.1166 -1.7320
C 6.2481 -2.9876 -2.4492	C -1.9297 -1.2872 3.4507	C -0.1955 -3.8883 -0.4224
H 6.9375 -3.9004 -0.6255	H -1.3506 -0.4230 3.8167	H 0.6022 -4.0363 0.3200
H 5.4735 -1.8122 -4.0782	C -0.9819 -2.4947 3.4027	H -1.0604 -3.4920 0.1219
H 6.6711 -3.7532 -3.0916	H -1.5246 -3.3679 3.0127	C 0.2605 3.2644 1.2220
N 5.4089 -0.2250 3.0769	H -0.1605 -2.2997 2.7020	H -0.0826 3.0563 2.2492
C 6.2113 -0.1625 3.9123	C -0.4334 -2.8287 4.7922	C -0.8207 4.1037 0.5267
C 7.2168 -0.0824 4.9576	H 0.2151 -3.7106 4.7326	H -0.5135 4.3122 -0.5085
H 7.6861 -1.0595 5.1039	H 0.1968 -1.9967 5.1396	H -1.7548 3.5332 0.4461
H 7.9889 0.6412 4.6802	C -1.5602 -3.0626 5.7965	C -1.0628 5.4319 1.2479
H 6.7584 0.2339 5.8990	H -1.1470 -3.2498 6.7936	H -1.8256 6.0119 0.7151
N 5.3102 2.6153 -1.2888	H -2.1149 -3.9687 5.5148	H -1.4617 5.2317 2.2532
C 6.0944 3.3344 -1.7490	C -2.5195 -1.8749 5.8368	C 0.2284 6.2383 1.3694
C 7.0780 4.2350 -2.3254	H -1.9960 -0.9928 6.2325	H 0.0491 7.1593 1.9343
H 7.3565 5.0038 -1.5990	H -3.3505 -2.0767 6.5217	H 0.5582 6.5466 0.3672
H 7.9747 3.6774 -2.6107	C -3.0710 -1.5505 4.4436	C 1.3278 5.4140 2.0341
H 6.6683 4.7220 -3.2149	H -3.6737 -2.4023 4.1007	H 1.0528 5.2099 3.0787
e⁺:BH⁺:2S		
Ni -1.1685 0.0488 0.1102	H -3.7507 -0.6922 4.5111	H 2.2647 5.9820 2.0652
P -2.9493 0.1688 -1.1350	C -4.2811 2.8797 1.6155	C 1.5579 4.0832 1.3080
P -2.3993 -0.7679 1.7075	H -3.7787 3.1627 2.5422	H 1.9267 4.2927 0.2938
N -3.6775 1.6270 1.0950	H -5.3427 2.7130 1.8075	H 2.3514 3.5303 1.8235
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C -4.2217 1.2475 -0.2517	H -5.2241 -3.6980 -0.3175	H 4.0833 0.1192 2.3716
H -4.3657 2.1784 -0.8053	H -6.3362 -2.3507 -0.6656	H 4.1104 -1.5093 1.6472
H -5.1795 0.7454 -0.1029	P 0.4231 -1.1531 -0.7462	C 1.5410 1.6942 -3.4905
C -3.7293 0.5172 2.1016	P 0.3579 1.5481 0.4338	H 2.6503 1.6964 -3.5052
H -4.7408 0.1057 2.1021	N 2.5525 -0.2602 0.9607	H 1.2032 2.7268 -3.6217
H -3.5141 0.9713 3.0725	N 0.9889 1.1424 -2.2662	H 1.1969 1.1120 -4.3505
C -3.9182 -1.4375 -1.1325	C 1.8401 -1.4470 0.4442	H 2.9040 -1.1085 2.8914
H -4.7357 -1.3649 -1.8561	H 1.4091 -2.0126 1.2844	H -6.0675 -2.8596 1.0079
H -3.2401 -2.2378 -1.4817	H 2.5977 -2.0864 -0.0236	H -4.1614 3.6723 0.8751
C -3.5531 -2.1500 1.1797	C 1.7003 0.8059 1.5279	H -2.6402 1.7358 0.9124
H -2.9397 -3.0067 0.8480	H 2.3855 1.5887 1.8690	N 4.7422 0.6453 -0.3798
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	H 2.3986 -0.4560 -2.0813	C 5.8597 0.3170 0.5068
	H 0.9702 -0.7502 -3.0705	C 6.0940 1.1198 1.6186
	C 1.3223 1.9670 -1.1260	H 5.4792 1.9951 1.8067

C	7.1477	0.7988	2.4711	H	-0.1135	5.3360	2.5746	H	1.8637	-4.3789	5.5825
H	7.3438	1.4230	3.3371	H	0.5763	4.1912	3.7205	H	0.8413	-4.9374	4.2667
C	7.9537	-0.3068	2.2080	C	0.9098	3.6657	1.6564	C	2.2034	-3.3639	3.7003
H	8.7774	-0.5478	2.8721	H	0.9871	4.1862	0.6886	H	2.9600	-4.0701	3.3394
C	7.7120	-1.0938	1.0846	H	0.0155	3.0334	1.5970	H	2.7485	-2.5429	4.1882
H	8.3481	-1.9458	0.8670	C	1.7892	-2.3593	-2.5297	C	1.4143	-2.8020	2.5147
C	6.6604	-0.7842	0.2249	H	0.9177	-2.0338	-3.1224	H	0.9561	-3.6362	1.9623
H	6.4813	-1.3888	-0.6607	C	1.3773	-3.6180	-1.7517	H	2.0833	-2.2912	1.8139
H	3.7693	0.2340	-0.0350	H	2.2183	-3.9521	-1.1274	C	-1.7751	1.6059	-2.3711
N	4.5663	3.4776	-0.6107	H	0.5555	-3.3803	-1.0634	H	-1.1066	1.1737	-3.1346
C	4.7453	4.6136	-0.7474	C	0.9764	-4.7520	-2.6989	C	-1.3527	3.0690	-2.1512
C	4.9712	6.0366	-0.9192	H	0.7188	-5.6462	-2.1196	H	-2.0100	3.5264	-1.3992
H	4.3412	6.6033	-0.2274	H	0.0693	-4.4590	-3.2488	H	-0.3374	3.1227	-1.7318
H	6.0203	6.2739	-0.7195	C	2.0895	-5.0667	-3.6971	C	-1.4562	3.8864	-3.4407
H	4.7301	6.3330	-1.9442	H	1.7618	-5.8434	-4.3962	H	-1.1574	4.9232	-3.2476
N	5.1590	0.1604	-3.1521	H	2.9539	-5.4787	-3.1578	H	-0.7537	3.4872	-4.1876
C	5.5300	0.3434	-4.2338	C	2.5187	-3.8155	-4.4603	C	-2.8742	3.8352	-4.0053
C	5.9954	0.5742	-5.5886	H	1.6910	-3.4690	-5.0956	H	-2.9273	4.3860	-4.9503
H	5.3277	0.0849	-6.3038	H	3.3518	-4.0451	-5.1335	H	-3.5580	4.3422	-3.3104
H	6.0144	1.6478	-5.7980	C	2.9284	-2.6885	-3.5054	C	-3.3289	2.3930	-4.2090
H	7.0050	0.1717	-5.7115	H	3.8157	-3.0121	-2.9450	H	-2.7208	1.9256	-4.9965
				H	3.2269	-1.8063	-4.0854	H	-4.3656	2.3640	-4.5622
				C	2.2937	2.6934	-3.2768	C	-3.2067	1.5592	-2.9265
				H	1.7284	2.2865	-4.1170	H	-3.9122	1.9463	-2.1780
				H	3.3334	2.8461	-3.5720	H	-3.5143	0.5326	-3.1533
				C	5.7659	-0.5425	0.3114	C	-3.0877	-3.2361	-0.7647
				H	5.8468	-1.2809	1.1266	H	-3.9128	-3.0141	-1.4444
				H	6.3048	0.3612	0.6101	H	-3.4463	-3.8909	0.0318
				P	-0.4503	-0.9397	1.5196	C	-3.4769	1.7025	2.5616
				P	-1.3495	0.5964	-0.8257	H	-3.7808	1.1826	3.4746
				N	-2.6019	-1.9667	-0.1576	H	-4.3771	2.0559	2.0499
				N	-2.7413	0.7771	1.6865	H	-2.8666	2.5759	2.8400
				C	-1.6041	-2.2881	0.9133	H	-2.2752	-3.7210	-1.3116
				H	-0.9468	-3.0808	0.5417	H	6.2603	-0.9528	-0.5740
				H	-2.2052	-2.6967	1.7311	H	1.8558	3.6426	-2.9640
				C	-2.2832	-0.9889	-1.2420	H	-3.4932	-1.5998	0.3939
				H	-3.2508	-0.7694	-1.7012	H	1.2532	1.5522	-1.8253
				H	-1.6592	-1.4943	-1.9873	O	-4.5077	-1.2339	1.3284
				C	-1.5964	0.2341	2.4277	H	-4.0262	-0.3958	1.5616
				H	-2.0116	-0.2623	3.3105	H	-5.4330	-1.0267	1.0617
				H	-0.9360	1.0425	2.7880	N	-7.1271	-0.6786	0.6158
				C	-2.4576	1.4587	0.4180	C	-8.2821	-0.6232	0.5607
				H	-1.9525	2.4219	0.6021	C	-9.7308	-0.5548	0.4926
				H	-3.4268	1.6870	-0.0413	H	-10.1706	-1.1978	1.2605
				C	0.3178	-1.8365	2.9848	H	-10.0669	0.4729	0.6573
				H	0.8125	-1.0100	3.5223	H	-10.0777	-0.8887	-0.4894
				C	-0.6197	-2.5502	3.9701				
				H	-1.4150	-1.8885	4.3310				
				H	-1.1119	-3.3943	3.4675				
				C	0.1704	-3.0957	5.1657				
				H	0.6007	-2.2547	5.7275				
				H	-0.5138	-3.6091	5.8502				
				C	1.2851	-4.0383	4.7173				

ex²⁺:H₂O:S --> ex'²⁺:H₂O:S

Ni	0.0083	-0.0377	-0.1809
P	-0.6377	1.5145	-1.5666
P	1.4726	-0.6797	-1.6687
N	-0.9144	-0.7753	-3.1024

N	1.6781	1.6990	-3.0932	P	0.6902	0.7637	1.7015	C	-3.1154	1.6336	3.0374
C	-1.1897	0.6992	-3.1743	P	-1.2066	-1.3915	0.9653	H	-3.0360	2.6124	2.5456
H	-2.2704	0.8094	-3.2910	N	0.5483	-1.6580	3.2489	H	-3.1760	1.8220	4.1219
H	-0.6762	1.0970	-4.0519	N	-2.0048	0.7757	2.6581	H	-4.0614	1.1792	2.7315
C	0.5368	-1.1276	-3.2462	C	1.4361	-0.5100	2.8719	H	1.6987	-2.0572	4.9797
H	0.9221	-0.6158	-4.1304	H	2.3213	-0.9366	2.3928	H	3.0992	1.9359	-4.6218
H	0.5790	-2.2096	-3.3965	H	1.7378	-0.0464	3.8160	H	-2.8182	-1.3122	-3.8506
C	0.8073	2.4975	-2.2441	C	-0.0752	-2.3995	2.1046	H	-1.1266	-1.0146	-2.0993
H	0.4216	3.3229	-2.8501	H	-0.6164	-3.2334	2.5585	H	-0.2049	-1.2766	3.8749
H	1.3431	2.9440	-1.3859	H	0.7421	-2.8021	1.4995	O	-1.1072	-0.5328	5.0987
C	2.4898	0.7276	-2.3760	C	-0.7043	1.4033	2.7720	H	-1.7287	0.0438	4.6243
H	3.0642	1.1881	-1.5527	H	-0.3501	1.4600	3.8164	H	-1.5549	-0.8624	5.8857
H	3.2134	0.3147	-3.0861	H	-0.8141	2.4483	2.4428	N	-2.3396	-1.4234	7.3779
C	-1.9497	2.8299	-1.3328	C	-2.3086	-0.5791	2.2556	C	-2.7511	-1.8205	8.3845
H	-1.4935	3.5031	-0.5881	H	-3.2936	-0.5639	1.7718	C	-3.2660	-2.3191	9.6471
C	-2.3188	3.6650	-2.5677	H	-2.4125	-1.2797	3.1053	H	-2.5005	-2.9156	10.1520
H	-1.4364	4.1441	-3.0063	C	1.9562	2.1336	1.9490	H	-3.5473	-1.4839	10.2948
H	-2.7421	3.0113	-3.3443	H	1.6234	2.8846	1.2145	H	-4.1455	-2.9458	9.4739
C	-3.3558	4.7378	-2.2162	C	2.0187	2.8165	3.3237	ex²⁺: H₂O:2S			
H	-2.9053	5.4590	-1.5200	H	1.0377	3.1990	3.6241	Ni	0.6387	0.0252	0.1156
H	-3.6182	5.3002	-3.1189	H	2.3273	2.0917	4.0913	P	2.5271	-0.6463	-0.7420
C	-4.6035	4.1270	-1.5833	C	3.0231	3.9760	3.3056	P	1.7652	1.4462	1.3159
H	-5.3118	4.9151	-1.3062	H	2.6513	4.7577	2.6283	N	2.9827	-0.9711	1.9894
H	-5.1161	3.4946	-2.3222	H	3.0716	4.4281	4.3023	N	4.0847	1.6024	-0.2280
C	-4.2435	3.2867	-0.3599	C	4.4102	3.5276	2.8527	C	3.6252	-1.2625	0.6643
H	-5.1403	2.8152	0.0591	H	5.0875	4.3867	2.8045	H	3.7275	-2.3485	0.5978
H	-3.8396	3.9440	0.4240	H	4.8343	2.8396	3.5979	H	4.6115	-0.7934	0.6609
C	-3.2039	2.2142	-0.6968	C	4.3475	2.8263	1.4973	C	3.0113	0.4830	2.3579
H	-3.6530	1.4950	-1.4000	H	5.3388	2.4597	1.2078	H	4.0323	0.8440	2.2167
H	-2.9216	1.6450	0.1976	H	4.0397	3.5451	0.7244	H	2.7334	0.5450	3.4130
C	2.6942	-2.1037	-1.6102	C	3.3553	1.6612	1.5251	C	3.6609	0.7327	-1.3157
H	2.0514	-2.9675	-1.3704	H	3.7226	0.9119	2.2415	H	4.5587	0.2767	-1.7508
C	3.6769	-1.9215	-0.4448	H	3.3107	1.1669	0.5471	H	3.1530	1.2899	-2.1223
H	4.3129	-1.0453	-0.6367	C	-2.3504	-2.8087	0.4486	C	3.0187	2.4294	0.3179
H	3.1233	-1.7080	0.4794	H	-1.6675	-3.5079	-0.0628	H	2.4759	2.9855	-0.4672
C	4.5653	-3.1558	-0.2671	C	-3.3706	-2.3130	-0.5865	H	3.4785	3.1689	0.9847
H	5.2780	-2.9856	0.5483	H	-4.0618	-1.6032	-0.1091	C	2.9008	-1.9629	-2.0139
H	3.9397	-4.0094	0.0331	H	-2.8662	-1.7489	-1.3819	H	3.9891	-2.1349	-1.9840
C	5.3058	-3.5028	-1.5576	C	-4.1770	-3.4701	-1.1831	C	2.1753	-3.2731	-1.6871
H	5.8935	-4.4168	-1.4212	H	-4.9085	-3.0806	-1.9008	H	2.4456	-3.6357	-0.6855
H	6.0234	-2.7038	-1.7908	H	-3.5002	-4.1292	-1.7463	H	1.0957	-3.0669	-1.6715
C	4.3351	-3.6681	-2.7247	C	-4.8794	-4.2782	-0.0943	C	2.4906	-4.3538	-2.7255
H	3.6927	-4.5428	-2.5495	H	-5.4008	-5.1340	-0.5358	H	3.5585	-4.6077	-2.6730
H	4.8824	-3.8653	-3.6529	H	-5.6503	-3.6553	0.3803	H	1.9428	-5.2717	-2.4821
C	3.4578	-2.4238	-2.9034	C	-3.8869	-4.7517	0.9643	C	2.1492	-3.8863	-4.1393
H	4.1051	-1.5781	-3.1714	H	-3.1894	-5.4755	0.5198	H	2.4298	-4.6529	-4.8696
H	2.7727	-2.5752	-3.7468	H	-4.4097	-5.2784	1.7701	H	1.0607	-3.7562	-4.2253
C	-1.7703	-1.5512	-4.0386	C	-3.0904	-3.5810	1.5529	C	2.8420	-2.5656	-4.4676
H	-1.6011	-2.6177	-3.8805	H	-3.7867	-2.9065	2.0692	H	2.5457	-2.2128	-5.4620
H	-1.5099	-1.2841	-5.0643	H	-2.4038	-3.9676	2.3156	H	3.9290	-2.7225	-4.5060
C	2.5180	2.5546	-3.9321	C	1.3028	-2.6065	4.1241	C	2.5278	-1.4880	-3.4258
H	3.2187	3.1725	-3.3460	H	2.1200	-3.0492	3.5520				
H	1.8862	3.2203	-4.5269	H	0.6246	-3.3882	4.4702				

H	1.4526	-1.2588	-3.4453	H	1.1586	2.8098	-5.3268	P	3.5424	1.0500	0.6858
H	3.0582	-0.5630	-3.6818	H	-0.5859	2.9861	-5.2027	P	3.0132	-1.1587	-1.3425
C	1.2753	2.7315	2.5911	C	0.3079	1.9196	-3.5519	N	3.6906	1.4482	-2.0447
H	2.2021	3.0479	3.0962	H	1.2727	1.8894	-3.0265	N	5.4160	-0.9023	0.0419
C	0.3190	2.1501	3.6379	H	0.1842	0.9393	-4.0285	C	4.4201	1.8324	-0.7899
H	-0.5803	1.7840	3.1191	C	-0.9240	-2.6766	2.1282	H	4.3666	2.9211	-0.7169
H	0.7598	1.2775	4.1386	H	-1.9171	-3.1491	2.0592	H	5.4591	1.5122	-0.8886
C	-0.0822	3.1976	4.6796	C	-0.7534	-2.1156	3.5463	C	3.9409	0.0350	-2.4780
H	-0.7840	2.7572	5.3973	H	0.2053	-1.5746	3.6044	H	5.0202	-0.1310	-2.4880
H	0.8058	3.4919	5.2555	H	-1.5317	-1.3789	3.7785	H	3.5433	-0.0522	-3.4926
C	-0.6914	4.4332	4.0199	C	-0.7796	-3.2264	4.6008	C	4.8832	-0.1650	1.1788
H	-0.9288	5.1887	4.7764	H	-0.6220	-2.7939	5.5954	H	5.7141	0.3831	1.6330
H	-1.6460	4.1593	3.5451	H	-1.7804	-3.6794	4.6159	H	4.4636	-0.8297	1.9563
C	0.2480	5.0157	2.9664	C	0.2589	-4.3077	4.3133	C	4.5137	-1.9065	-0.5004
H	1.1522	5.4009	3.4573	H	0.1812	-5.1134	5.0508	H	4.1610	-2.6128	0.2723
H	-0.2188	5.8708	2.4646	H	1.2683	-3.8838	4.4264	H	5.0759	-2.4883	-1.2379
C	0.6519	3.9670	1.9264	C	0.0981	-4.8643	2.9006	C	3.7033	2.3993	1.9741
H	-0.2377	3.6565	1.3570	H	-0.8592	-5.3976	2.8246	H	3.4269	1.8850	2.9091
H	1.3443	4.4129	1.2028	H	0.8792	-5.6020	2.6841	C	5.0958	3.0190	2.1581
C	3.5247	-1.8307	3.0740	C	0.1346	-3.7509	1.8505	H	5.8469	2.2568	2.3939
H	2.9674	-1.6440	3.9935	H	1.1305	-3.2799	1.8563	H	5.4155	3.4973	1.2204
H	4.5785	-1.5899	3.2252	H	0.0136	-4.1791	0.8486	C	5.0863	4.0772	3.2671
C	5.2205	2.4271	-0.6399	C	-4.2782	1.1334	1.1733	H	4.8751	3.5875	4.2282
H	4.9695	3.1215	-1.4594	H	-4.8964	0.3818	1.6665	H	6.0844	4.5202	3.3572
H	6.0391	1.7832	-0.9741	H	-4.8768	1.6658	0.4327	C	4.0404	5.1581	3.0059
P	-0.8560	0.8057	-1.2433	C	-1.7822	-2.8285	-2.9068	H	4.0290	5.8803	3.8295
P	-0.8842	-1.3278	0.8119	H	-2.8850	-2.8891	-2.9827	H	4.3159	5.7213	2.1024
N	-3.1488	0.4465	0.4764	H	-1.4077	-3.8276	-2.6643	C	2.6546	4.5449	2.8175
N	-1.3261	-1.8744	-1.9078	H	-1.3932	-2.5490	-3.8904	H	1.9188	5.3242	2.5857
C	-2.3565	1.4537	-0.2985	H	-3.8762	1.8336	1.9077	H	2.3317	4.0810	3.7608
H	-2.0125	2.2069	0.4156	H	5.5774	3.0137	0.2115	C	2.6475	3.4836	1.7141
H	-3.0705	1.9224	-0.9847	H	3.4236	-2.8787	2.7875	H	2.8611	3.9762	0.7515
C	-2.3891	-0.3846	1.4640	H	-3.6510	-0.1941	-0.2001	H	1.6603	3.0140	1.6281
H	-3.1241	-1.0802	1.8836	H	1.9636	-1.1649	1.8188	C	2.5532	-2.4810	-2.5965
H	-2.0540	0.2905	2.2559	O	-4.8946	-0.9570	-0.9624	H	1.7755	-1.9850	-3.2012
C	-1.6989	-0.5218	-2.2743	H	-5.8559	-0.7418	-0.8665	C	1.8994	-3.6801	-1.8946
H	-2.7966	-0.3596	-2.2840	H	-4.8281	-1.5948	-1.6792	H	2.6423	-4.1775	-1.2545
H	-1.3616	-0.3577	-3.3033	N	-7.5591	-0.3956	-0.7377	H	1.0985	-3.3328	-1.2292
C	-1.7221	-2.2875	-0.5766	C	-8.7130	-0.3136	-0.7769	C	1.3541	-4.6910	-2.9073
H	-1.4047	-3.3284	-0.4526	C	-10.1599	-0.2111	-0.8265	H	0.9240	-5.5499	-2.3790
H	-2.8213	-2.2857	-0.4261	H	-10.4546	0.6376	-1.4504	H	0.5336	-4.2257	-3.4735
C	-0.7997	2.1797	-2.5231	H	-10.5840	-1.1262	-1.2499	C	2.4390	-5.1519	-3.8790
H	-1.7717	2.1556	-3.0429	H	-10.5611	-0.0683	0.1810	H	2.0147	-5.8337	-4.6238
C	-0.6212	3.5665	-1.8904	N	-5.4533	-2.7072	-2.9086	H	3.1988	-5.7253	-3.3296
H	-1.4299	3.7875	-1.1827	C	-5.9401	-3.2559	-3.8042	C	3.1040	-3.9626	-4.5686
H	0.3138	3.5755	-1.3116	C	-6.5500	-3.9450	-4.9272	H	2.3728	-3.4548	-5.2136
C	-0.5723	4.6653	-2.9568	H	-6.0542	-4.9068	-5.0879	H	3.9132	-4.3033	-5.2239
H	-1.5489	4.7229	-3.4575	H	-7.6107	-4.1232	-4.7283	C	3.6581	-2.9625	-3.5477
H	-0.4136	5.6363	-2.4742	H	-6.4556	-3.3423	-5.8350	H	4.4532	-3.4573	-2.9741
C	0.5145	4.3973	-3.9950	[eNiH ²⁺ : H ₂ O:B:2S] _x				H	4.1274	-2.1226	-4.0748
H	0.4956	5.1706	-4.7703	Ni	1.7525	0.0396	-0.0369	C	3.9148	2.4175	-3.1473
H	1.5018	4.4620	-3.5149				H	3.2867	2.1461	-3.9976	
C	0.3459	3.0148	-4.6208				H	4.9657	2.3890	-3.4409	

C	6.7105	-1.4990	0.3680	C	-2.7222	-2.3540	-0.5527	H	-5.5811	-0.6959	1.7986
H	7.1311	-1.9740	-0.5232	H	-2.1427	-3.0433	-1.1704	H	-4.3647	-0.4164	3.0786
H	6.6429	-2.2582	1.1656	H	-3.5015	-1.8753	-1.1477	C	-4.6732	-0.6294	-1.7710
P	0.6028	-0.8970	1.5401	C	-0.9640	2.6263	2.9475	H	-5.4598	-0.2027	-2.4009
P	-0.1094	0.9332	-0.6773	H	-0.3957	2.5939	3.8820	H	-4.0015	-1.2092	-2.4307
N	-1.8091	-1.3065	-0.0014	H	-2.0248	2.4215	3.1860	C	-4.4178	-2.3314	-0.0297
N	-0.3975	1.6824	1.9955	H	-0.8982	3.6420	2.5455	H	-3.8149	-2.9694	-0.7003
C	-0.7977	-1.9637	0.8823	H	-3.1809	-2.8856	0.2820	H	-5.0327	-2.9985	0.5838
H	-0.3413	-2.7751	0.3083	H	7.4040	-0.7185	0.6937	C	-3.7601	2.0937	-2.3289
H	-1.3769	-2.4036	1.7000	H	3.6557	3.4202	-2.8037	H	-3.2376	1.6347	-3.1843
C	-1.3022	-0.4597	-1.1259	H	2.6783	1.4298	-1.7389	C	-5.1603	2.5178	-2.7933
H	-2.2042	-0.0816	-1.6142	H	-2.4616	-0.7272	0.6243	H	-5.7405	1.6613	-3.1550
H	-0.7806	-1.1210	-1.8246	O	-3.6869	-0.2730	1.5000	H	-5.7194	2.9414	-1.9458
C	-0.3548	0.3499	2.5660	H	-3.6472	0.2624	2.2976	C	-5.0774	3.5751	-3.8999
H	-1.3600	-0.0499	2.8090	H	-4.6429	-0.1815	1.1226	H	-4.6149	3.1263	-4.7904
H	0.1837	0.4233	3.5182	N	-6.0837	-0.0695	0.4302	H	-6.0888	3.8774	-4.1941
C	-1.0591	1.7855	0.7067	C	-5.9387	-0.6353	-0.8584	C	-4.2614	4.7882	-3.4594
H	-1.0820	2.8484	0.4429	H	-6.7740	-0.5726	0.9956	H	-4.1856	5.5112	-4.2792
H	-2.1130	1.4498	0.7345	H	-6.3363	0.9222	0.3855	H	-4.7854	5.3010	-2.6398
C	1.2186	-2.0512	2.8895	C	-5.3828	0.1220	-1.8979	C	-2.8701	4.3709	-2.9875
H	2.0388	-1.4617	3.3318	C	-6.2695	-1.9751	-1.0905	H	-2.3097	5.2432	-2.6298
C	0.2370	-2.4094	4.0156	C	-5.1639	-0.4569	-3.1466	H	-2.3051	3.9645	-3.8390
H	-0.2013	-1.5123	4.4665	H	-5.1602	1.1729	-1.7287	C	-2.9368	3.3111	-1.8849
H	-0.5970	-3.0005	3.6110	C	-6.0427	-2.5455	-2.3407	H	-3.4034	3.7595	-0.9927
C	0.9381	-3.2350	5.1009	H	-6.7199	-2.5581	-0.2916	H	-1.9315	2.9826	-1.5945
H	1.7075	-2.6145	5.5819	C	-5.4837	-1.7950	-3.3742	C	-2.8614	-2.6652	2.4156
H	0.2172	-3.4969	5.8834	H	-4.7603	0.1493	-3.9535	H	-2.2597	-2.0927	3.1410
C	1.5834	-4.4938	4.5255	H	-6.3191	-3.5823	-2.5107	C	-1.9630	-3.7689	1.8381
H	2.1166	-5.0389	5.3119	H	-5.3232	-2.2401	-4.3512	H	-2.5265	-4.3409	1.0867
H	0.7983	-5.1693	4.1568	N	-8.1614	-1.6361	2.0463	H	-1.1088	-3.3221	1.3148
C	2.5347	-4.1541	3.3795	C	-9.0891	-2.1041	2.5588	C	-1.4803	-4.7242	2.9323
H	2.9449	-5.0696	2.9378	C	-10.2527	-2.6898	3.2023	H	-0.8671	-5.5170	2.4880
H	3.3897	-3.5834	3.7695	H	-11.0719	-2.7842	2.4838	H	-0.8286	-4.1743	3.6271
C	1.8324	-3.3279	2.2990	H	-10.0090	-3.6823	3.5917	C	-2.6512	-5.3266	3.7069
H	1.0391	-3.9419	1.8476	H	-10.5822	-2.0571	4.0314	H	-2.2823	-5.9664	4.5161
H	2.5305	-3.0736	1.4930	N	-6.9265	2.8626	0.1875	H	-3.2333	-5.9758	3.0376
C	-0.4804	2.0936	-2.1212	C	-7.6784	3.7393	0.0940	C	-3.5608	-4.2359	4.2684
H	-0.1285	1.5334	-3.0036	C	-8.6223	4.8380	-0.0224	H	-3.0151	-3.6571	5.0273
C	0.3805	3.3592	-1.9934	H	-8.0998	5.7586	-0.2976	H	-4.4236	-4.6807	4.7770
H	0.0653	3.9273	-1.1065	H	-9.3678	4.6126	-0.7903	C	-4.0471	-3.2884	3.1661
H	1.4304	3.0935	-1.8127	H	-9.1352	4.9957	0.9307	H	-4.6716	-3.8599	2.4662
C	0.2561	4.2587	-3.2254					H	-4.6935	-2.5193	3.6067
H	0.8685	5.1584	-3.0923					C	-5.0136	1.9764	2.6370
H	0.6552	3.7304	-4.1039					H	-4.5296	1.7875	3.5969
C	-1.1998	4.6395	-3.4850					H	-6.0856	1.7880	2.7209
H	-1.2780	5.2403	-4.3974					C	-6.4088	-2.2389	-1.3590
H	-1.5601	5.2729	-2.6622					H	-6.9359	-2.7906	-0.5749
C	-2.0788	3.3964	-3.5915					H	-6.0557	-2.9630	-2.1133
H	-1.7973	2.8247	-4.4874					P	-0.3306	-0.7026	-1.1818
H	-3.1289	3.6810	-3.7227					P	-0.4030	1.1413	1.1208
C	-1.9445	2.4943	-2.3585					N	1.7325	-0.7251	0.7717
H	-2.3247	3.0326	-1.4792					N	0.3540	2.0111	-1.4303
H	-2.5879	1.6175	-2.4905					C	1.0230	-1.5565	-0.2105

[NiH⁺:H₂O:BH⁺:2S]_x

H 0.5540 -2.4216 0.2867	H -7.1254 -1.5654 -1.8381	H 1.9171 3.6761 1.5920
H 1.7817 -1.9461 -0.8991	H -4.8446 3.0122 2.3383	C -0.3919 -1.7434 2.8363
C 0.8775 -0.0733 1.7752	H -3.3870 1.1989 1.5122	H 0.5679 -2.2691 2.9571
H 1.5548 0.4386 2.4653	H 2.9902 0.2239 0.0016	C -0.9941 -1.4878 4.2261
H 0.3191 -0.8269 2.3566	O 3.8289 0.6055 -0.3963	H -0.3239 -0.8858 4.8498
C 0.6387 0.6950 -1.9749	H 3.5688 1.3915 -0.8867	H -1.9304 -0.9199 4.1276
H 1.7202 0.4523 -1.9617	H 5.4979 0.3800 -0.0693	C -1.2978 -2.8060 4.9467
H 0.3366 0.7139 -3.0285	N 6.5329 0.2273 0.0070	H -0.3545 -3.3333 5.1461
C 0.6537 2.1930 -0.0229	C 6.9598 -0.9141 -0.8036	H -1.7456 -2.5910 5.9233
H 0.4230 3.2364 0.2193	H 7.0172 1.0966 -0.3147	C -2.2162 -3.7001 4.1181
H 1.7256 2.0493 0.2175	H 6.7857 0.0844 1.0070	H -2.3928 -4.6477 4.6381
C -0.4940 -1.8808 -2.6354	C 8.2268 -1.4486 -0.5985	H -3.1978 -3.2162 4.0106
H -1.2737 -1.3962 -3.2458	C 6.1034 -1.4174 -1.7752	C -1.6211 -3.9577 2.7361
C 0.7421 -2.0807 -3.5247	C 8.6423 -2.5166 -1.3887	H -2.3034 -4.5650 2.1298
H 1.1390 -1.1225 -3.8788	H 8.8786 -1.0391 0.1677	H -0.6955 -4.5402 2.8452
H 1.5429 -2.5604 -2.9442	C 6.5326 -2.4854 -2.5603	C -1.3041 -2.6525 2.0008
C 0.4081 -2.9710 -4.7275	H 5.1188 -0.9784 -1.9070	H -2.2489 -2.1316 1.7814
H -0.3212 -2.4522 -5.3657	C 7.7982 -3.0342 -2.3694	H -0.8193 -2.8601 1.0415
H 1.3063 -3.1163 -5.3388	H 9.6288 -2.9434 -1.2378	C 1.3580 3.3131 -1.3002
C -0.1648 -4.3181 -4.2918	H 5.8752 -2.8871 -3.3253	H 0.5196 3.1548 -1.9992
H -0.4379 -4.9155 -5.1687	H 8.1283 -3.8652 -2.9847	C 2.6462 2.9931 -2.0659
H 0.6094 -4.8864 -3.7565	N 7.9712 2.5175 -0.9295	H 3.5116 3.1252 -1.4021
C -1.3748 -4.1340 -3.3777	C 8.6753 3.3409 -1.3366	H 2.6410 1.9436 -2.3848
H -1.7401 -5.1058 -3.0261	C 9.5594 4.3727 -1.8480	C 2.8022 3.9215 -3.2739
H -2.1972 -3.6780 -3.9472	H 9.3550 5.3242 -1.3487	H 3.7392 3.6936 -3.7944
C -1.0381 -3.2417 -2.1811	H 10.6018 4.0943 -1.6676	H 1.9906 3.7206 -3.9878
H -0.2833 -3.7479 -1.5618	H 9.4077 4.4961 -2.9243	C 2.7657 5.3914 -2.8591
H -1.9198 -3.1003 -1.5456	N 7.4103 -0.2175 2.7271	H 2.8294 6.0354 -3.7425
C -0.5345 2.2987 2.6098	C 7.9158 -0.4133 3.7502	H 3.6486 5.6184 -2.2450
H -0.9726 1.6590 3.3940	C 8.5483 -0.6613 5.0338	C 1.5016 5.7124 -2.0643
C -1.5303 3.4295 2.3149	H 7.9795 -0.1770 5.8327	H 0.6211 5.6083 -2.7140
H -1.1234 4.0785 1.5261	H 8.5901 -1.7367 5.2293	H 1.5162 6.7534 -1.7234
H -2.4636 3.0223 1.9052	H 9.5665 -0.2616 5.0330	C 1.3470 4.7828 -0.8551
C -1.8107 4.2802 3.5558		H 2.1835 4.9618 -0.1656
H -2.5124 5.0853 3.3065		H 0.4278 5.0344 -0.3112
H -2.3002 3.6588 4.3204		C -3.0007 2.5479 1.3239
C -0.5193 4.8598 4.1293		H -3.3187 3.1432 0.4683
H -0.7288 5.4225 5.0456	Ni 0.9703 -0.1084 -0.3218	H -2.7518 3.1937 2.1683
H -0.0965 5.5776 3.4121	P 0.0815 -0.2322 1.8326	C 1.6315 2.9000 3.9512
C 0.5002 3.7576 4.4045	P 0.9625 2.0566 0.0303	H 1.5257 3.9747 3.7769
H 0.1292 3.1093 5.2111	N -1.7873 1.7643 0.9342	H 2.6882 2.6898 4.1869
H 1.4420 4.1892 4.7624	N 1.1525 2.1628 2.7817	P 3.0841 -0.8901 -0.1268
C 0.7667 2.9031 3.1596	C -1.4623 0.8083 2.0366	P 0.7667 -1.7273 -1.7640
H 1.2332 3.5321 2.3882	H -2.3292 0.1459 2.1091	N 3.3463 -1.9059 -2.7020
H 1.4957 2.1258 3.4133	H -1.3935 1.3961 2.9558	N 1.7427 -3.3264 0.2786
C 2.7073 -1.5728 1.4732	C -0.7207 2.7251 0.5259	C 3.9442 -0.9629 -1.7819
H 2.2162 -2.3731 2.0486	H -0.5868 3.4266 1.3525	H 3.9858 0.0636 -2.1908
H 3.2992 -0.9610 2.1606	H -1.1355 3.2575 -0.3342	H 4.9760 -1.2824 -1.5977
C 0.9873 3.0423 -2.2324	C 1.1671 0.7280 3.0268	C 2.0164 -1.5328 -3.1357
H 0.6753 2.9460 -3.2770	H 0.7887 0.5690 4.0408	H 1.7336 -2.2013 -3.9535
H 2.0955 2.9986 -2.2070	H 2.1842 0.2983 2.9929	H 1.9527 -0.4965 -3.5180
H 0.6836 4.0317 -1.8759	C 1.8648 2.5822 1.5838	C 3.0463 -2.6919 0.3671
H 3.3832 -2.0329 0.7458	H 2.8985 2.2044 1.5510	H 3.8219 -3.2245 -0.2135

eNiH²⁺: H₂O:B:2 H₂O

H 3.3459 -2.7265 1.4198	N -5.5941 0.8375 -1.3104	H 1.5692 4.2643 -2.9859
C 1.2082 -3.4005 -1.0701	C -5.9504 1.1275 0.0305	C -0.3048 3.8121 -2.0109
H 0.2812 -3.9824 -1.0273	H -6.0223 1.5037 -1.9612	H -1.2235 4.3617 -1.7595
H 1.8910 -3.9021 -1.7780	H -5.8827 -0.1155 -1.5561	H 0.1432 3.5075 -1.0578
C 4.4692 -0.1927 0.9396	C -5.7998 0.1465 1.0200	C -3.5248 -2.0977 1.1890
H 3.9866 0.0634 1.8944	C -6.3836 2.4069 0.3966	H -3.0827 -1.8277 2.1617
C 5.6198 -1.1681 1.2464	C -6.0843 0.4446 2.3518	C -2.9987 -3.4903 0.8051
H 5.2544 -2.0919 1.7052	H -5.4767 -0.8522 0.7347	H -3.4365 -3.7898 -0.1574
H 6.1227 -1.4560 0.3128	C -6.6569 2.6969 1.7312	H -1.9126 -3.4682 0.6559
C 6.6424 -0.5191 2.1874	H -6.5199 3.1604 -0.3750	C -3.3731 -4.5336 1.8605
H 6.1655 -0.3357 3.1609	C -6.5069 1.7222 2.7171	H -2.9947 -5.5169 1.5590
H 7.4595 -1.2251 2.3718	H -5.9868 -0.3313 3.1065	H -2.8774 -4.2824 2.8099
C 7.1853 0.7939 1.6301	H -7.0054 3.6903 1.9996	C -4.8847 -4.5851 2.0727
H 7.8688 1.2569 2.3498	H -6.7365 1.9495 3.7534	H -5.1333 -5.2974 2.8667
H 7.7763 0.5911 0.7261	O -6.9850 2.8949 -2.9095	H -5.3653 -4.9596 1.1580
C 6.0502 1.7542 1.2829	O -6.6746 -1.9042 -1.4665	C -5.4429 -3.2048 2.4099
H 6.4460 2.6672 0.8239	H -7.0221 -2.3604 -2.2457	H -5.0653 -2.8852 3.3918
H 5.5341 2.0633 2.2040	H -7.4019 -1.9143 -0.8277	H -6.5345 -3.2435 2.4958
C 5.0455 1.0970 0.3335	H -6.7307 3.4439 -3.6637	C -5.0514 -2.1573 1.3605
H 5.5589 0.8575 -0.6070	H -7.9520 2.9098 -2.9026	H -5.5211 -2.4198 0.4025
H 4.2470 1.8008 0.0735		H -5.4647 -1.1864 1.6575
C -0.8250 -2.0158 -2.6933		C -4.1192 3.0302 0.8156
H -0.9538 -1.0880 -3.2753		H -4.2349 2.7817 1.8720
C -2.0209 -2.1603 -1.7424		H -5.1015 3.1521 0.3556
H -1.8905 -3.0635 -1.1298		C -4.4759 -0.8110 -3.7404
H -2.0625 -1.3126 -1.0491		H -4.0268 -1.6587 -4.2847
C -3.3354 -2.2765 -2.5188		H -4.6263 0.0114 -4.4456
H -4.1730 -2.3884 -1.8216		P 0.8424 -1.2449 -0.2891
H -3.5137 -1.3395 -3.0696		P 0.0825 0.7486 1.7742
C -3.2992 -3.4361 -3.5113		N 1.1425 -1.8042 2.4811
H -4.2291 -3.4739 -4.0898		N 2.6626 0.8832 0.4443
H -3.2379 -4.3844 -2.9590		C 0.8925 -2.4219 1.1693
C -2.1023 -3.3161 -4.4496		H -0.0665 -2.9618 1.1812
H -2.2238 -2.4305 -5.0895		H 1.6860 -3.1603 1.0112
H -2.0505 -4.1796 -5.1216		C 0.1630 -0.7790 2.8708
C -0.7849 -3.1986 -3.6761		H 0.4103 -0.4867 3.8962
H -0.6135 -4.1315 -3.1214		H -0.8560 -1.2009 2.8814
H 0.0384 -3.1017 -4.3910		C 2.5615 -0.4936 -0.0690
C 4.2282 -2.1692 -3.8353		H 3.1432 -1.1530 0.5847
H 4.4080 -1.2750 -4.4564		H 3.0566 -0.5005 -1.0452
H 3.7905 -2.9476 -4.4667		C 1.9277 1.1636 1.6905
C 1.8032 -4.6605 0.8704		H 2.0308 2.2370 1.8784
H 2.1393 -4.5871 1.9093		H 2.4341 0.6429 2.5109
H 2.4892 -5.3390 0.3346		C 1.2131 -2.4070 -1.7200
H 0.8053 -5.1088 0.8666		H 1.3517 -1.7018 -2.5565
H 5.1918 -2.5357 -3.4701		C 2.4779 -3.2725 -1.6172
H 1.0261 2.6384 4.8236		H 3.3640 -2.6674 -1.3926
H -3.7995 1.8576 1.5986		H 2.3685 -3.9930 -0.7945
H -2.0984 1.2524 0.0518		C 2.7068 -4.0554 -2.9156
H -0.2620 0.2645 -0.9923		H 2.9071 -3.3480 -3.7328
O -2.9328 1.1093 -1.3297		H 3.6039 -4.6768 -2.8149
H -2.5581 0.6285 -2.0731		C 1.4975 -4.9173 -3.2706
H -3.9461 0.9792 -1.3705		H 1.6663 -5.4337 -4.2217

e⁺: H₂O:BH+:2S

H	1.3733	-5.7008	-2.5094	N	6.2825	2.6375	2.9811	H	2.0592	-3.0577	-0.4680				
C	0.2242	-4.0771	-3.3440	C	6.8028	3.4152	3.6627	C	1.7445	-5.0962	-1.1491				
H	-0.6447	-4.7150	-3.5427	C	7.4562	4.3898	4.5179	H	2.8129	-5.3407	-1.1546				
H	0.2979	-3.3757	-4.1876	H	8.3718	3.9628	4.9373	H	1.3555	-5.4140	-0.1708				
C	0.0003	-3.2837	-2.0540	H	7.7145	5.2828	3.9415	C	1.0181	-5.8574	-2.2561				
H	-0.1832	-3.9870	-1.2280	H	6.7917	4.6765	5.3379	H	1.1137	-6.9371	-2.0991				
H	-0.8945	-2.6572	-2.1401	N	4.5545	-2.6709	5.1597	H	1.4963	-5.6402	-3.2216				
C	-0.4628	2.0372	3.0454	C	4.9000	-3.2573	6.0961	C	-0.4557	-5.4629	-2.3236				
H	-1.4626	1.6843	3.3503	C	5.3343	-3.9932	7.2699	H	-0.9687	-5.7915	-1.4086				
C	-0.6317	3.4075	2.3737	H	6.2665	-4.5232	7.0535	H	-0.9504	-5.9717	-3.1584				
H	0.3508	3.7738	2.0400	H	5.5040	-3.3057	8.1035	C	-0.6211	-3.9465	-2.4787				
H	-1.2379	3.3184	1.4622	H	4.5724	-4.7221	7.5605	H	-0.1717	-3.6442	-3.4341				
C	-1.2435	4.4379	3.3266	eNiH²⁺:Et₃N											
H	-1.3271	5.4075	2.8218	Ni	0.7317	0.0360	0.2111	H	-2.0880	0.1048	-3.5449				
H	-2.2666	4.1277	3.5861	P	-0.4265	1.5531	-0.8099	C	0.3176	0.7384	-4.7845				
C	-0.4201	4.5716	4.6059	P	-0.1331	-1.3375	-1.2356	H	-0.0762	-0.0479	-5.4364				
H	-0.9024	5.2725	5.2956	N	-2.7836	-0.0938	-1.5601	H	1.4168	0.7455	-4.8809				
H	0.5616	5.0016	4.3614	N	-0.1221	0.5065	-3.4117	P	2.9050	0.3686	0.2324				
C	-0.2280	3.2142	5.2765	C	-2.2757	1.2486	-1.1040	P	0.8947	-0.6801	2.2716				
H	-1.1987	2.8378	5.6290	H	-2.7450	1.4386	-0.1336	N	3.5958	-1.3708	2.2867				
H	0.4071	3.3114	6.1640	H	-2.6728	1.9783	-1.8136	N	2.0046	1.8477	2.4134				
C	0.3880	2.1901	4.3161	C	-2.0222	-1.2814	-1.0613	C	3.9213	-1.0521	0.9058				
H	1.3992	2.5253	4.0454	H	-2.4927	-2.1531	-1.5222	H	3.7923	-1.9161	0.2304				
H	0.5042	1.2348	4.8395	H	-2.1951	-1.3345	0.0183	H	4.9790	-0.7707	0.8715				
C	1.1276	-2.8700	3.4974	C	0.2517	1.6223	-2.5572	C	2.2707	-1.9420	2.4718				
H	0.1466	-3.3651	3.5600	H	-0.1034	2.5275	-3.0608	H	2.2295	-2.3475	3.4864				
H	1.3629	-2.4489	4.4798	C	1.3461	1.7230	-2.4393	H	2.0646	-2.7772	1.7790				
C	2.4160	1.8748	-0.6054	H	0.2230	-0.8500	-3.0047	C	3.2489	1.6145	1.6105				
H	3.1282	1.7147	-1.4206	H	1.3040	-1.0539	-3.1147	H	4.0402	1.2966	2.2929				
H	2.5734	2.8791	-0.2012	H	-0.2928	-1.5276	-3.6953	H	3.5125	2.5771	1.1649				
H	1.3953	1.7991	-0.9952	C	-0.5626	3.3913	-0.3836	C	1.6489	0.7015	3.3125				
H	1.8785	-3.6260	3.2482	H	0.4994	3.6910	-0.3609	H	0.9090	1.0766	4.0234				
H	-5.4572	-1.1221	-3.3704	C	-1.2863	4.3287	-1.3622	H	2.5522	0.3882	3.8393				
H	-3.5480	3.9545	0.7157	H	-0.9009	4.2242	-2.3821	C	4.0371	1.0407	-1.1085				
H	2.8652	-1.4390	2.7522	H	-2.3553	4.0761	-1.3980	H	3.4870	1.9130	-1.4981				
H	-2.4347	1.7720	0.5533	C	-1.1494	5.7898	-0.9171	C	5.4316	1.5181	-0.6745				
O	3.8426	-1.3077	2.9211	H	-0.0912	6.0829	-0.9662	H	5.3709	2.2682	0.1234				
H	4.8246	-0.1358	2.1448	H	-1.6825	6.4379	-1.6212	H	6.0059	0.6738	-0.2696				
H	4.0713	-1.7816	3.7270	C	-1.6745	5.9983	0.5013	C	6.2001	2.1067	-1.8635				
H	6.6309	2.0991	-0.1767	H	-1.5207	7.0363	0.8148	H	5.6855	3.0135	-2.2122				
H	8.3370	1.2646	-1.7665	C	-2.7602	5.8271	0.5174	H	7.1959	2.4222	-1.5330				
C	6.8300	1.0331	-0.2553	H	-1.0012	5.0443	1.4864	C	6.3097	1.1072	-3.0126				
C	7.7890	0.5612	-1.1478	H	-1.4317	5.1614	2.4878	H	6.8235	1.5652	-3.8644				
H	4.1660	0.8672	0.9569	H	0.0649	5.3039	1.5684	H	6.9291	0.2559	-2.6971				
N	5.1259	0.6056	1.4679	C	-1.1323	3.5888	1.0295	C	4.9328	0.6000	-3.4363				
C	6.1463	0.1209	0.5410	H	-2.1978	3.3163	1.0351	H	5.0288	-0.1592	-4.2209				
H	8.8021	-1.1668	-1.9331	H	-0.6481	2.9079	1.7433	H	4.3549	1.4293	-3.8699				
C	8.0495	-0.8048	-1.2400	C	0.0731	-3.2052	-1.3269	C	4.1615	0.0185	-2.2488				
H	5.4604	1.4133	1.9939	H	-0.3755	-3.5447	-0.3781	H	4.6899	-0.8728	-1.8817				
C	7.3533	-1.7042	-0.4361	C	1.5613	-3.5827	-1.2906	H	3.1667	-0.3159	-2.5670				
C	6.3939	-1.2449	0.4639	H	2.0457	-3.2457	-2.2187	C	-0.4037	-1.3452	3.4554				

H -0.6879	-2.3081	2.9999	Ni -0.8302	-0.1860	0.0580	H 2.5900	0.5195	-4.2675
C -1.6396	-0.4376	3.4400	P -0.7002	-1.2714	-1.8060	C -2.3298	1.1740	-4.6510
H -1.3736	0.5498	3.8490	P -0.3846	1.6235	-1.0946	H -1.9848	2.1471	-5.0119
H -1.9572	-0.2629	2.4041	N 1.7363	0.1839	-2.3578	H -3.4159	1.2380	-4.4687
C -2.7806	-1.0231	4.2753	N -1.5756	0.7974	-3.4560	P -2.7932	-0.0883	1.0626
H -3.6347	-0.3359	4.2705	C 0.8676	-0.9518	-2.7993	P 0.0373	-0.7470	1.9937
H -3.1242	-1.9578	3.8085	H 1.4981	-1.8435	-2.7527	N -1.9362	0.2242	3.6981
C -2.3367	-1.3082	5.7086	H 0.6113	-0.7555	-3.8442	N -1.9234	-2.6788	1.5921
H -3.1532	-1.7710	6.2732	C 1.0672	1.5202	-2.2883	C -2.8176	0.8148	2.7041
H -2.1082	-0.3592	6.2143	H 0.7461	1.7710	-3.3020	H -2.5836	1.8767	2.5144
C -1.1025	-2.2054	5.7316	H 1.8453	2.2113	-1.9585	H -3.8388	0.7752	3.0993
H -1.3604	-3.1967	5.3332	C -1.9330	-0.5435	-3.0221	C -0.5202	0.3726	3.3963
H -0.7618	-2.3639	6.7606	H -1.9750	-1.1725	-3.9162	H 0.0363	0.1157	4.3019
C 0.0418	-1.6139	4.9010	H -2.9290	-0.5844	-2.5426	H -0.2496	1.4094	3.1270
H 0.3662	-0.6731	5.3697	C -1.6935	1.8215	-2.4274	C -3.1452	-1.8222	1.7160
H 0.8989	-2.2945	4.9379	H -2.6874	1.8214	-1.9497	H -3.4650	-1.8341	2.7604
C 4.6232	-2.2318	2.8723	H -1.5610	2.7925	-2.9149	H -3.9105	-2.2913	1.0934
H 4.6886	-3.2162	2.3791	C -0.8655	-3.1211	-2.1567	C -0.8382	-2.3229	2.5629
H 4.4093	-2.3912	3.9330	H -1.8876	-3.3463	-1.8055	H -0.1339	-3.1575	2.5626
C 2.0429	3.1433	3.1391	C -0.7662	-3.5818	-3.6199	H -1.2900	-2.2115	3.5504
H 2.2217	3.9495	2.4257	H -1.4833	-3.0526	-4.2560	C -4.4843	0.3814	0.3783
H 2.8480	3.1179	3.8757	H 0.2347	-3.3526	-4.0129	H -4.4830	-0.0404	-0.6392
H 1.0876	3.3022	3.6419	C -1.0086	-5.0906	-3.7433	C -5.7154	-0.1645	1.1195
H 5.5989	-1.7434	2.7946	H -2.0452	-5.3124	-3.4525	H -5.6884	-1.2574	1.2000
H -0.0663	1.6991	-5.1403	H -0.9116	-5.3899	-4.7925	H -5.7364	0.2272	2.1461
H -3.7912	0.5937	-3.2727	C -0.0493	-5.8925	-2.8681	C -7.0095	0.2440	0.4047
H -3.8069	-0.1754	-1.1487	H -0.2736	-6.9620	-2.9388	H -7.0403	-0.2394	-0.5821
H -0.4273	0.7336	0.9301	H 0.9779	-5.7654	-3.2379	H -7.8695	-0.1393	0.9650
N -5.4476	-0.2666	-0.7121	C -0.1217	-5.4332	-1.4134	C -7.1131	1.7573	0.2341
C -5.7344	-1.6675	-0.3137	H 0.6099	-5.9753	-0.8028	H -8.0198	2.0131	-0.3243
C -6.3150	0.1044	-1.8605	H -1.1151	-5.6773	-1.0084	H -7.2119	2.2305	1.2212
C -5.7404	0.6368	0.4255	C 0.1179	-3.9256	-1.2936	C -5.8802	2.3169	-0.4718
H -5.0339	-1.9298	0.4844	H 1.1478	-3.7098	-1.6147	H -5.9367	3.4095	-0.5346
H -6.7460	-1.7163	0.1222	H 0.0688	-3.6031	-0.2444	H -5.8459	1.9438	-1.5056
C -5.6240	-2.6974	-1.4277	C -0.0668	3.3677	-0.4701	C -4.5957	1.9105	0.2546
H -5.7068	-3.6983	-0.9939	H 0.9118	3.2547	0.0264	H -4.6040	2.3552	1.2594
H -6.4168	-2.6052	-2.1738	C -1.0763	3.7869	0.6035	H -3.7199	2.3243	-0.2588
H -4.6598	-2.6452	-1.9467	H -2.0740	3.8818	0.1510	C 1.7987	-1.1835	2.4989
H -7.3569	-0.1670	-1.6237	H -1.1480	3.0057	1.3693	H 2.3329	-0.2209	2.4262
C -6.2673	1.5709	-2.2656	C -0.6847	5.1238	1.2392	C 2.4140	-2.1433	1.4708
H -6.0156	-0.5149	-2.7100	H -1.4370	5.4155	1.9810	H 1.8674	-3.0986	1.4938
H -6.7695	1.6893	-3.2302	H 0.2608	4.9960	1.7863	H 2.2951	-1.7349	0.4612
H -6.7805	2.2236	-1.5553	C -0.5184	6.2200	0.1885	C 3.8906	-2.4167	1.7630
H -5.2410	1.9403	-2.3808	H -0.1869	7.1507	0.6614	H 4.2837	-3.1338	1.0328
C -4.9899	0.3178	1.7066	H -1.4934	6.4352	-0.2709	H 4.4528	-1.4835	1.6170
H -5.4875	1.6522	0.1089	C 0.4685	5.7986	-0.8981	C 4.1011	-2.9300	3.1853
H -6.8247	0.6272	0.6254	H 1.4740	5.7002	-0.4646	H 5.1690	-3.0681	3.3867
H -5.1480	1.1290	2.4238	H 0.5373	6.5693	-1.6737	H 3.6373	-3.9215	3.2872
H -5.3313	-0.6044	2.1829	C 0.0608	4.4658	-1.5359	C 3.4888	-1.9774	4.2086
H -3.9100	0.2335	1.5350	H -0.9065	4.6038	-2.0378	H 4.0294	-1.0204	4.1905
eNiH²⁺: H₂O:Et₃N			H 0.7836	4.1922	-2.3148	H 3.6008	-2.3771	5.2224
			C 2.9222	0.2706	-3.2580	C 2.0052	-1.7184	3.9241
			H 3.5896	1.0435	-2.8774	H 1.4547	-2.6619	4.0503

H 1.6125 -1.0240 4.6745
 C -2.2449 0.7428 5.0307
 H -2.0665 1.8276 5.1194
 H -1.6309 0.2299 5.7765
 C -2.2579 -4.1264 1.6285
 H -2.9910 -4.3454 0.8502
 H -2.6758 -4.3716 2.6067
 H -1.3524 -4.7101 1.4567
 H -3.2950 0.5471 5.2660
 H -2.1569 0.4393 -5.4427
 H 3.4379 -0.6911 -3.2615
 H 2.1485 0.0400 -1.4023
 H 0.6565 -0.0356 0.2346
 O 3.3257 0.6188 -0.2569
 H 2.9667 0.7435 0.6269
 H 4.3213 0.8728 -0.2086
 N 5.9257 1.2988 -0.1625
 C 6.6214 0.5146 -1.2068
 C 6.5014 0.9901 1.1649
 C 6.0721 2.7437 -0.4465
 H 6.3262 0.9286 -2.1755
 H 7.7093 0.6696 -1.1220
 C 6.2998 -0.9729 -1.1910
 H 6.7402 -1.4499 -2.0721
 H 6.7065 -1.4869 -0.3156
 H 5.2178 -1.1414 -1.2079
 H 7.5214 1.4030 1.2276
 C 5.6686 1.4798 2.3400
 H 6.5996 -0.0961 1.2377
 H 6.1479 1.1761 3.2756
 H 5.5656 2.5682 2.3724
 H 4.6641 1.0409 2.3251
 C 5.1914 3.2474 -1.5795
 H 5.8084 3.2897 0.4626
 H 7.1299 2.9722 -0.6538
 H 5.3154 4.3290 -1.6882
 H 5.4449 2.8003 -2.5463
 H 4.1367 3.0464 -1.3624

B:2S

N 0.0046 -0.3126 -0.7748
 H -0.8461 -0.8415 -0.6323
 H 0.8578 -0.8336 -0.6187
 C -0.0047 1.0014 -0.3703
 C -1.2152 1.6972 -0.1896
 H -2.1528 1.1671 -0.3392
 C -1.2169 3.0383 0.1722
 H -2.1685 3.5486 0.3046
 C -0.0232 3.7320 0.3681
 H -0.0303 4.7806 0.6506
 C 1.1798 3.0488 0.1933
 H 2.1243 3.5675 0.3425

C 1.1962 1.7078 -0.1683
 H 2.1409 1.1860 -0.3011
 N -2.7814 -1.8322 -0.2194
 C -3.8660 -2.1209 0.0673
 C -5.2272 -2.4839 0.4273
 H -5.9149 -2.2175 -0.3804
 H -5.2963 -3.5606 0.6071
 H -5.5303 -1.9555 1.3357
 N 2.7986 -1.8089 -0.1956
 C 3.8894 -2.0930 0.0718
 C 5.2582 -2.4504 0.4075
 H 5.5578 -1.9611 1.3388
 H 5.3457 -3.5331 0.5352
 H 5.9370 -2.1343 -0.3897

B:3H₂O:4S

N -0.1061 0.0134 -0.2727
 H 0.3261 0.5801 -1.0186
 H 0.4609 -0.0753 0.5760
 C -1.4363 0.3046 -0.0244
 C -2.2527 0.8585 -1.0294
 H -1.8110 1.0860 -1.9957
 C -3.5949 1.1261 -0.7828
 H -4.2012 1.5636 -1.5727
 C -4.1666 0.8486 0.4626
 H -5.2138 1.0663 0.6526
 C -3.3610 0.2915 1.4604
 H -3.7833 0.0703 2.4380
 C -2.0173 0.0207 1.2273
 H -1.3909 -0.4022 2.0090
 O 0.6115 -2.7261 -0.1112
 H 0.2853 -1.8516 -0.4390
 H -0.1809 -3.2972 -0.1182
 O 1.1723 -1.1351 2.0747
 H 0.9806 -1.8938 1.4767
 H 2.1417 -1.1035 2.0966
 O 0.9759 1.7479 -2.2877
 H 1.9404 1.7120 -2.1447
 H 0.7112 2.5975 -1.8891
 N -2.0473 -3.8329 -0.3163
 C -3.0762 -3.3238 -0.4753
 C -4.3610 -2.6785 -0.6756
 H -4.2956 -1.6267 -0.3745
 H -4.6465 -2.7306 -1.7302
 H -5.1290 -3.1753 -0.0756
 N 4.1653 -1.5702 1.1791
 C 3.9320 -2.2736 0.2854
 C 3.5894 -3.1466 -0.8219
 H 3.9655 -2.7292 -1.7604
 H 4.0247 -4.1386 -0.6707
 H 2.4917 -3.2206 -0.8592
 N 3.7212 1.6709 -1.2627

C 4.4391 1.6108 -0.3555
 C 5.3290 1.5198 0.7889
 H 5.1757 0.5533 1.2813
 H 6.3707 1.6011 0.4654
 H 5.1143 2.3264 1.4959
 N -0.0691 3.9245 -0.6071
 C -0.8824 3.8817 0.2178
 C -1.9026 3.8196 1.2497
 H -1.4452 3.5880 2.2156
 H -2.4239 4.7785 1.3234
 H -2.6237 3.0320 1.0057

BH⁺:3S

N -0.0763 -0.0017 -0.1806
 H -1.0587 -0.3435 -0.2159
 H -0.0708 0.9841 -0.5224
 C 0.4702 -0.0859 1.1742
 C -0.1856 -0.8491 2.1311
 H -1.1079 -1.3663 1.8838
 C 0.3584 -0.9353 3.4109
 H -0.1454 -1.5280 4.1678
 C 1.5395 -0.2650 3.7175
 H 1.9591 -0.3348 4.7162
 C 2.1830 0.4971 2.7442
 H 3.1031 1.0214 2.9819
 C 1.6501 0.5905 1.4619
 H 2.1432 1.1846 0.6978
 H 0.4908 -0.5805 -0.8405
 N -2.8255 -0.9206 -0.2996
 C -3.9302 -1.2563 -0.3828
 C -5.3150 -1.6773 -0.4881
 H -5.9433 -1.0678 0.1678
 H -5.6635 -1.5640 -1.5186
 H -5.4099 -2.7271 -0.1954
 N 1.5633 -1.6207 -1.8840
 C 2.2444 -2.2967 -2.5307
 C 3.1008 -3.1450 -3.3419
 H 2.9826 -4.1907 -3.0435
 H 2.8346 -3.0442 -4.3982
 H 4.1470 -2.8545 -3.2094
 N -0.0736 2.7408 -1.0508
 C -0.0680 3.8587 -1.3560
 C -0.0727 5.2596 -1.7452
 H 0.5871 5.8333 -1.0881
 H 0.2750 5.3602 -2.7772
 H -1.0873 5.6613 -1.6714

BH⁺:3 H₂O:5S

N -0.2020 -0.8101 -0.1347
 H -1.1163 -0.3593 -0.4421
 H 0.0048 -0.6492 0.8866

C -0.1819 -2.2306 -0.4554
 C -0.9268 -2.6948 -1.5343
 H -1.5386 -2.0019 -2.1048
 C -0.8877 -4.0519 -1.8451
 H -1.4689 -4.4259 -2.6827
 C -0.1130 -4.9256 -1.0850
 H -0.0883 -5.9831 -1.3304
 C 0.6238 -4.4432 -0.0052
 H 1.2217 -5.1231 0.5944
 C 0.5937 -3.0890 0.3179
 H 1.1531 -2.6933 1.1614
 H 0.6091 -0.3118 -0.5667
 O 2.1953 0.5031 -0.3129
 H 2.9789 -0.0119 -0.6002
 H 2.3457 1.4168 -0.6323
 O 1.1633 -0.3589 2.1007
 H 1.7592 0.1222 1.4888
 H 1.0791 0.1800 2.9111
 O -2.5086 0.1208 -1.0953
 H -2.6840 1.0651 -1.2830
 H -3.3182 -0.2225 -0.6645
 N 4.4951 -1.0205 -1.0717
 C 5.4156 -1.6910 -1.2768
 C 6.5722 -2.5314 -1.5346
 H 6.6251 -2.7805 -2.5984
 H 7.4882 -2.0074 -1.2475
 H 6.4994 -3.4573 -0.9573
 N 2.7479 3.1410 -1.3164
 C 3.1036 4.1542 -1.7495
 C 3.5507 5.4265 -2.2921
 H 4.3885 5.2688 -2.9780
 H 2.7348 5.9113 -2.8365
 H 3.8770 6.0858 -1.4828
 N 1.0319 1.2120 4.5346
 C 1.0486 1.6557 5.6041
 C 1.0691 2.2123 6.9469
 H 1.8948 2.9227 7.0477
 H 0.1285 2.7317 7.1536
 H 1.2002 1.4133 7.6822
 N -4.8992 -0.9316 0.1265
 C -5.8802 -1.4291 0.4862
 C -7.1124 -2.0530 0.9364
 H -7.3207 -1.7715 1.9723
 H -7.9475 -1.7305 0.3080
 H -7.0255 -3.1417 0.8764
 N -3.2111 2.8684 -1.6559
 C -3.6913 3.8710 -1.9793
 C -4.2947 5.1290 -2.3864
 H -4.5340 5.7342 -1.5076
 H -3.6040 5.6886 -3.0242
 H -5.2156 4.9395 -2.9460

H₂O:2S

O -0.0002 1.9915 0.0002
 H -0.7598 1.3952 0.0060
 H 0.7598 1.3957 -0.0060
 N 2.4392 0.0833 -0.0102
 C 3.5222 -0.3271 -0.0035
 C 4.8821 -0.8421 0.0050
 H 5.3194 -0.7697 -0.9949
 H 5.4988 -0.2655 0.7004
 H 4.8880 -1.8906 0.3164
 N -2.4386 0.0817 0.0096
 C -3.5221 -0.3277 0.0033
 C -4.8824 -0.8413 -0.0047
 H -4.9356 -1.7627 -0.5917
 H -5.2116 -1.0551 1.0162
 H -5.5603 -0.1046 -0.4451

S

N -0.0004 -0.0186 -1.4376
 C 0.0003 -0.0029 -0.2780
 C 0.0001 0.0148 1.1769
 H 0.7797 -0.6474 1.5646
 H 0.1879 1.0281 1.5439
 H -0.9673 -0.3221 1.5606

H₂O

O 0.0000 0.1183 0.0000
 H 0.7586 -0.4731 0.0000
 H -0.7586 -0.4731 0.0000