Electronic Supplementary Information

For

Peptoid-based siderophore mimics as dinuclear Fe³⁺ chelators

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1.0 List of abbreviations

ACN: acetonitrile

Ar: aryl

Bn: benzyl

DCM: dichloromethane

DMSO: dimethyl sulfoxide

DIC: N,N'-diisopropylcarbodiimide

DIPEA: N, N-diisopropylethylamine

DMF: *N*,*N*-dimethylformamide

ESI: electrospray ionisation

ES-MS: electrospray mass spectrometry

HATU: O-(7-azabenzotriazol-1-yl)-N,N,N',N'-tetramethyluronium hexafluorophosphate

HFIP: 1,1,1,3,3,3-hexafluoroisopropanol

MALDI-FTICR: matrix assisted laser desorption ionization-Fourier transform ion cyclotron resonance

Ph: phenyl

RP-HPLC: reversed-phase high-performance liquid chromatography

TFA: trifluoroacetic acid

TLC: thin layer chromatography

2.0 ¹H, ¹³C-NMR spectra

2.1 ¹H-, ¹³C-NMR spectra of 8c



8c: ¹H NMR (400 MHz, CDCl₃). Water impurity marked with a black asterisk.



8c: ¹³C NMR (100 MHz, CDCl₃)





10a: ¹H NMR (600 MHz, CDCl₃). Water impurity marked with a black asterisk.



10a: ¹³C NMR (150 MHz, CDCl₃)



10b: ¹H NMR (600 MHz, CDCl₃). Water impurity marked with a black asterisk.



10b: ¹³C NMR (150 MHz, CDCl₃)



10c: ¹H NMR (600 MHz, CDCl₃). Water impurity marked with a black asterisk.



10c: ¹³C NMR (150 MHz, CDCl₃)



3a: ¹H NMR (600 MHz, CD₃OD). Water impurity and residual solvent marked with a black asterisk.



3a: ¹³C NMR (150 MHz, CD₃OD)



3b: ¹H NMR (600 MHz, CD₃OD). Water impurity and residual solvent marked with a black asterisk.



3b: ¹³C NMR (150 MHz, CD₃OD)



3c: ¹H NMR (600 MHz, CD₃OD). Water impurity and residual solvent marked with a black asterisk.



3c: ¹³C NMR (150 MHz, CD₃OD)

3.0 HPLC chromatograms

3.1 HPLC chromatograms of linear peptoids 9a, 9b, 9c as crude mixtures (Figure S1-S3)

Conditions: $5 \rightarrow 100\%$ A in 30 min (A, 0.1% TFA in acetonitrile, B, 0.1% TFA in water); flow: 1 mL min⁻¹, 220 nm.



Figure S1. HPLC analysis of 9a



Figure S2. HPLC analysis of 9b



Figure S3. HPLC analysis of 9c

3.2 HPLC chromatograms of cyclic peptoids 10a, 10b, 10c (Figure S4-S6)

Conditions: $5 \rightarrow 100\%$ A in 30 min (A, 0.1% TFA in acetonitrile, B, 0.1% TFA in water); flow: 1 mL min⁻¹, 220 nm.



Figure S4. HPLC analysis of 10a



Figure S5. HPLC analysis of 10b



Figure S6. HPLC analysis of 10c

3.3 HPLC chromatograms of cyclic peptoids 3a, 3b, 3c (Figure S7-S9)

Conditions: $5 \rightarrow 100\%$ A in 30 min (A, 0.1% TFA in acetonitrile, B, 0.1% TFA in water); flow: 1 mL min⁻¹, 220 nm.



Figure S7. HPLC analysis of 3a



Figure S8. HPLC analysis of 3b



Figure S9. HPLC analysis of 3c



4.0 UV-Vis titration of 3a-c with metal ions in MeOH (Figure S10-S15)

Figure S10. UV-Vis of **3a** with (a) Co^{2+} , (b) Cu^{2+} , (c) Ni^{2+} and (d) Zn^{2+} in methanol, concentration: 17 μ M with three equivalents of metal ions.



Figure S11. UV-Vis of **3b** with (a) Co^{2+} , (b) Cu^{2+} , (c) Ni^{2+} , (d) Zn^{2+} , (e) Fe^{2+} and (f) Fe^{3+} in methanol, concentration: 17 μ M with three equivalents of metal ions.



Figure S12. UV-Vis of **3c** with (a) Co^{2+} , (b) Cu^{2+} , (c) Ni^{2+} , (d) Zn^{2+} , (e) Fe^{2+} and (f) Fe^{3+} in methanol, concentration: 17 μ M with three equivalents of metal ions.



Figure S13. UV-Vis of **3a** with varying counterion of Fe³⁺ (a) Cl⁻, (b) ClO₄⁻ and (c) NO₃⁻ in methanol, concentration: 17 μ M with four equivalents of metal ions.



Figure S14. (a) Job's plot analysis of **3a**-Fe³⁺ measured in methanol (17 μ M); UV-Vis of (b) titration of **3a** (8 μ M) with aliquots addition of 0.5 equivalents Fe³⁺ in acetonitrile [1st inset: expanded view of 400-800 nm range; 2nd inset: metal to peptoid ratio for **3a** with Fe³⁺], (c) overlapping of the UV-Vis spectra of **3a**-Fe³⁺ complex as obtained from the titration in acetonitrile (8 μ M) and methanol (17 μ M).



Figure S15. Dissociation constant calculation for the ferric ion complex for (a) 3a, (b) 3b and (c) 3c, method: competition with EDTA.

The experiment has been executed in pH 7, using EDTA as competitor agent. FeCl₃. $6H_2O$ is used in the experiment. In pH 7, to correct the formation constant for EDTA's acid–base properties we need to calculate the fraction, $\alpha_{(EDTA)}$.¹

 $K_{A(FeEDTA)}\alpha_{(EDTA)}$ [K_D: Dissociation constant of Fe-Host complex, K_A: Association constant of Fe-EDTA (5x10²⁵M⁻¹) and $\alpha_{(EDTA)}$ is the pH correction factor].

Slope= $K_{D(Fe-peptoid)} K_{A(FeEDTA)} \alpha_{(EDTA)}$, for **3a**: 6.86 x 10⁻¹⁹M, for **3b**: 4.21 x 10⁻¹⁹M and for **3c**: 4.01 x 10⁻¹⁹M.

¹ Harvey D., Modern Analytical Chemistry, ISBN 0-07-237547-7, McGraw-Hill.

Spectrum RT 0.53 - 0.60 {4 scans} Intensity 316Fe_neg_mode.datx 2020.01.27 13: 52: 13 ; ESI - Max: 8.5E5 (a) 779.2 457.3 381.1 957.0 853.5 339.1 50-40 953.4 213.4 977.3 260.5 523.2 227.8 878.2 935.9 212 30-828.5 889.2 20-650 700 750 800 850 900 1,000 Spectrum RT 1.81 - 1.88 {7 scans} (b) Intensity tbe316_Fe_ACN-1 2020.03.23 12: 35: 54 ; ESI - Max: 3.1E5 ^{985,15} 985.15 982.8 659.05 511.05 80-806.95 555.25 935.25 60-594.99 828.8 935.25 552.9 1.024.35 40 10 787 4 526.9 893.95 656.8 517.2 400 650 700 750 800 850 950 1,000 1,050 1,100 1,150

5.0 ESI-MS spectra of Fe(III) complexes (Figure S16-S18) Advion expression CMS mass spectrometer

Figure S16. ESI-MS spectrum (-ve mode) of Fe³⁺-**3a** complex. (a) In methanol: The calculated mass for $[Fe_2(3a)+2H_2O+4CH_3OH-H]^-$ exact mass: 977.18, $[Fe_2(3a)+5H_2O+CH_3OH+Na^+-2H]^-$ exact mass: 957.12, $[Fe_2(3a)+3H_2O+2CH_3OH+Na^+-2H]^-$ exact mass: 953.12, $[Fe_2(3a)+5H_2O+CH_3OH+H]^-$ exact mass: 935.13. (b) In acetonitrile: Calculated mass for $[Fe_2(3a)+4H_2O+2CH_3CN+H]^-H_2O$ exact mass: 985.16, $[Fe_2(3a)+5H_2O+CH_3CN+K^+-2H]^-$ exact mass: 982.53, $[Fe_2(3a)+5H_2O+CH_3OH+H]^-$ exact mass: 935.13 (as the methanolic stock solution of **3a** was used during titration, coordination of methanol is plausible).



mass: 1051.25, [Fe₂(**3b**)+6H₂O+Na⁺-2H]⁻H₂O, exact mass: 1045.20, [Fe₂(**3b**)+3CH₃OH-H]⁻ exact mass: 993.23.



Figure S18. ESI-MS spectrum (-ve mode) of Fe^{3+} -**3c** complex in methanol. The calculated mass for $[Fe_2(3c)+6H_2O-H]^-4H_2O$ exact mass: 1161.35, $[Fe_2(3c)+3H_2O+CH_3OH-H]^-$, exact mass: 1067.30, $[Fe_2(3c)+2H_2O-H]^-$, exact mass: 1017.26, $[Fe_2(3c)+CH_3OH-H]^-$, exact mass: 1013.27.

6.0 ESI-MS spectra of Fe(III) complexes (Figure S19-S24) with Bruker Maxis impact instrument plus isotopic analysis



Figure S19. ESI-MS spectrum (-ve mode) of Fe^{3+} -**3a** complex in methanol. The calculated mass for $[Fe_2(3a)+4H_2O+2CH_3OH-H]^-H_2O$ exact mass: 967.16, $[Fe_2(3a)+3CH_3OH-H]^-$ exact mass: 909.13, $[Fe_2(3a)+2H_2O-H]^-$ exact mass: 849.08, $[Fe_2(3a)-H]^-$ exact mass: 813.05.



Figure S20. Experimental isotopic analysis by ESI-MS(-ve mode) of $Fe^{3+}-3a$ complex (top) and calculated ESI-MS spectrum (bottom). The calculated mass for (a) $[Fe_2(3a)+4H_2O+2CH_3OH-H]^-H_2O$ exact mass: 967.16; (b) $[Fe_2(3a)-H]^-$ exact mass: 813.05.



Figure S21. ESI-MS spectrum (-ve mode) of Fe^{3+} -**3b** complex in methanol. The calculated mass for $[Fe_2(3b)+6H_2O+Na^++K^+-3H]^-$, exact mass: 1065.15, $[Fe_2(3b)+3CH_3OH-H]^-$ exact mass: 993.23.



Figure S22. Experimental isotopic analysis by ESI-MS(-ve mode) of $Fe^{3+}-3b$ complex (top) and calculated ESI-MS spectrum (bottom). The calculated mass for (a) $[Fe_2(3b)+6H_2O+Na^++K^+-3H]^-$, exact mass: 1065.15; (b) $[Fe_2(3b)+3CH_3OH-H]^-$ exact mass: 993.23.



Figure S23. ESI-MS spectrum (-ve mode) of Fe^{3+} -**3c** complex in methanol. The calculated mass for $[Fe_2(3c)+5CH_3OH+H_2O-H]^-2H_2O$, exact mass: 1195.40, $[Fe_2(3c)+3CH_3OH-H]^-$, exact mass: 1077.32, $[Fe_2(3c)+CH_3OH-H]^-$, exact mass: 1013.27 and $[3c-H]^-$, exact mass: 875.42.



Figure S24. Experimental isotopic analysis by ESI-MS(-ve mode) of $Fe^{3+}-3c$ complex (top) and calculated ESI-MS spectrum (bottom). The calculated mass for (a) $[Fe_2(3c)+6CH_3OH+K^+-2H]^-$ (not evidenced, but present, in the spectrum of Figure S23), exact mass: 1211.36; (b) $[Fe_2(3c)+CH_3OH+H]^-$, exact mass: 1013.27.

7.0 Computational details relative to calculations on iron complexes

The DFT calculations were performed with the Gaussian09 set of programs,² using the B3LYP functional.³ The electronic configuration of the molecular systems was described with 6-311G* basis set for H, C, N, O.⁴ For Fe we used the small-core, quasi-relativistic Stuttgart/Dresden effective core potential (standard SDD keywords in Gaussian09).⁵ The geometry optimizations were performed without symmetry constraints.

² Gaussian 09, Revision A.02, Frisch, M. J.; Trucks, G. W.; Schlegel, H. B.; Scuseria, G. E.; Robb, M. A.; Cheeseman, J. R.; Scalmani, G.; Barone, V.; Mennucci, B.; Petersson, G. A.; Nakatsuji, H.; Caricato, M.; Li, X.; Hratchian, H. P.; Izmaylov, A. F.; Bloino, J.; Zheng, G.; Sonnenberg, J. L.; Hada, M.; Ehara, M.; Toyota, K.; Fukuda, R.; Hasegawa, J.; Ishida, M.; Nakajima, T.; Honda, Y.; Kitao, O.; Nakai, H.; Vreven, T.; Montgomery, J. A., Jr.; Peralta, J. E.; Ogliaro, F.; Bearpark, M.; Heyd, J. J.; Brothers, E.; N. Kudin, K.; Staroverov, V. N.; Kobayashi, R.; Normand, J.; Raghavachari, K.; Rendell, A.; Burant, J. C.; Iyengar, S. S.; Tomasi, J.; Cossi, M.; Rega, N.; Millam, J. M.; Klene, M.; Knox, J. E.; Cross, J. B.; Bakken, V.; Adamo, C.; Jaramillo, J.; Gomperts, R.; Stratmann, R. E.; Yazyev, O.; Austin, A. J.; Cammi, R.; Pomelli, C.; Ochterski, J. W.; Martin, R. L.; Morokuma, K.; Zakrzewski, V. G.; Voth, G. A.; Salvador, P.; Dannenberg, J. J.; Dapprich, S.; Daniels, A. D.; Farkas, O.; Foresman, J. B.; Ortiz, J. V.; Cioslowski, J.; Fox, D. J. Gaussian, Inc., Wallingford CT, **2009**.

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7.1 Cartesian coordinates and energies

82

Δ -Fe- 3a' ³⁻ E(gas)=-2631.51859310 A.U.			
С	-3.915469	-0.540660	-2.001369
С	-4.566479	-1.453544	-0.941789
Ν	-3.730103	0.790278	-1.724032
С	-4.584689	1.513815	-0.776273
С	-3.935072	1.978053	0.543822
Ν	-3.732505	1.070295	1.552526
С	-4.577313	-0.118719	1.708937
C	-3.915763	-1.488753	1.453622
N	-3.715265	-1.908974	0.163010
0	-3 632509	3 157537	0.653166
Õ	-3 603682	-2 168286	2 420815
Õ	-3 597735	-1 037220	-3 072504
Č	-3 123078	1 591091	2.804888
C	-3 124033	1 617810	-2 800313
Ċ	-3 096587	-3 248953	-0.015112
н	-4 865511	-2 335462	-1 508430
Н	-5 486546	-1 018441	-0 550678
Н	-5 502352	0.953223	-0 594556
н	-4 888404	2 111376	-1.255688
н	-4.881373	-0.168602	2 75/1500
н	-5 /05337	-0.005740	1 131507
C	-1 600365	2 1/2280	2 700526
с ц	-1.090303	2.142280	2.700320
п П	-3.780007	2.380473	2 527850
п	-3.108834	0.778443	5.52/659
п	-5./40000	-3.961/34	0.464123
П	-3.083834	-3.400431	-1.080804
	-1.000833	-3.424970	0.309939
Н	-3.12290/	2.051244	-2.460549
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H N	-3.//5/28	1.5399//	-3.082550
IN TT	-0.055093	1.811948	-2.3/0940
Н	-1.303308	0.188293	-3.280330
H	-1.5/1546	1.6//349	-4.229331
N	-0.649396	1.14/909	2.747904
H	-1.5/91/9	2./31/84	1.792629
H	-1.5/90/8	2.820424	3.5556/4
N	-0.625549	-2.964989	-0.3/9661
H	-1.548678	-2.9311/4	1.4/3149
H	-1.542455	-4.503586	0.670692
H	-0.008963	1.03//68	1.955193
C	-0.142076	0./390/3	3.958361
H	0.009499	-2.216/08	-0.083/20
C	-0.112839	-3.811012	-1.334334
H	-0.010/61	1.183959	-1.8/9628
C	-0.155862	3.069089	-2.616955
0	-0.786565	3.868865	-3.330842
C	1.158693	3.377249	-2.003324
U	-0.769453	0.955832	5.010279
C	1.177443	0.063110	3.914504
0 C	-0.732703	-4.837415	-1.664850
C	1.202634	-3.428100	-1.902447
C	1.966139	-2.347512	-1.392104
C	3.264521	-2.039177	-1.965019
С	3.738576	-2.839300	-3.003967

С	2.971766	-3.920295	-3.497358
С	1 733502	-4 209951	-2.961172
$\tilde{0}$	1 598127	-1 572389	-0.408777
0	2 806057	1 010786	1 450260
U П	3.890037	-1.010780	-1.430309
Н	4./12883	-2.603/42	-3.429820
Н	3.366821	-4.526784	-4.313619
Н	1.133036	-5.038397	-3.324110
С	1.936137	2.395501	-1.337597
С	3.233826	2.745590	-0.787558
С	3.692885	4.052350	-0.948039
С	2.911688	5.019745	-1.621628
С	1.674300	4.692685	-2.137818
Ō	1 581838	1 150533	-1 169421
Õ	3 879688	1 785800	-0 168691
н	1 666501	1.705000	-0.533054
и П	2 204882	6.025550	1 728245
11	1.062602	5.420967	-1.7200+3
П	1.062693	5.420807	-2.001349
C	1.949382	-0.023265	2.727941
C	3.252433	-0.664051	2.752715
С	3.720963	-1.169030	3.965072
С	2.944816	-1.069502	5.143086
С	1.702795	-0.468181	5.121002
0	1.585516	0.444872	1.565266
0	3.893475	-0.719589	1.609299
Н	4.698520	-1.648940	3.977714
Н	3 335622	-1 477218	6 076479
н	1 094584	-0.378645	6.015776
Eo	2 807000	0.01/260	0.013770
02	2.897909	0.014309	-0.004031
02 A F		0 (01 500)	10(7 4 11
δ2 Λ-Fe	e- 3a' ³⁻ E(gas)	=-2631.5238	81267 A.U.
82 Λ-Fe C	e- 3a' ³⁻ E(gas) -3.811624	=-2631.5238 1.760680	81267 A.U. -1.038017
82 Λ-Fe C C	e- 3a' ³⁻ E(gas) -3.811624 -4.550148	=-2631.5238 1.760680 0.530931	31267 A.U. -1.038017 -1.623443
82 Λ-Fe C C N	e- 3a' ³⁻ E(gas) -3.811624 -4.550148 -3.769852	=-2631.5238 1.760680 0.530931 1.938898	31267 A.U. -1.038017 -1.623443 0.321311
δ2 Λ-Fe C C N C	e- 3a' ³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225	=-2631.5238 1.760680 0.530931 1.938898 1.145117	81267 A.U. -1.038017 -1.623443 0.321311 1.273915
A-Fe C C N C C	e- 3a' ³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443	=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037
A-Fe C C N C C N C C N	- 3a' ³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026	=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446
82 Λ-Fe C C N C C N C N C	- 3a' ³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488)=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769
A-Fe C C N C C N C C N C C	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359)=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056
A-Fe C C N C N C C N C N C N	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648)=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934
A-Fe C C N C C N C C N C N C N	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.332083 	=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039
A-Fe C C C N C C N C C N C C N O O	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.332083 -3.28056 	=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619 2.862246	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 1.201660
82 Λ-Fe C C N C C N C C N C C N O O	e- 3a ^{*3-} E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.332083 -3.338056 2.225008)=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619 -2.863246 2.561615	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 -1.301669 1.827725
82 Λ-Fe C C N C C N C C N C C N O O O	e- 3a ^{*3-} E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.332083 -3.338056 -3.335908)=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619 -2.863246 2.561615	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 -1.301669 -1.827735
82 Λ-Fe C C N C C N C C N C C N O O O C C	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.332083 -3.338056 -3.335908 -3.178624)=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619 -2.863246 2.561615 -2.328351 -2.328351	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 -1.301669 -1.827735 2.339047
82 Λ-Fe C C N C C N C C N C C N C C N C C N C C N C C C C C N C	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.332083 -3.338056 -3.335908 -3.178624 -3.177949 	=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.671049 -1.778902 -0.690625 0.304619 -2.863246 2.561615 -2.328351 3.190992	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 -1.301669 -1.827735 2.339047 0.849405
82 Λ-Fe C C N C C N C C N C C N O O C C C C	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.32083 -3.338056 -3.335908 -3.178624 -3.177949 -3.181930)=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619 -2.863246 2.561615 -2.328351 3.190992 -0.858918	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 -1.301669 -1.827735 2.339047 0.849405 -3.184844
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A-Fe C C N C C S C C S C C S C S	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.32083 -3.338056 -3.335908 -3.178624 -3.177949 -3.181930 -4.861928 -5.463795 -5.462175 	=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619 -2.863246 2.561615 -2.328351 3.190992 -0.858918 0.879811 0.304403 0.784909	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 -1.301669 -1.827735 2.339047 0.849405 -3.184844 -2.608562 -1.075001 0.804800
A-Fe C C N C C S C C C C C S C C C S C C S C C S C C S C S	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.32083 -3.338056 -3.335908 -3.178624 -3.177949 -3.181930 -4.861928 -5.463795 -5.462175 -4.856739 	=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619 -2.863246 2.561615 -2.328351 3.190992 -0.858918 0.879811 0.304403 0.784909 1.824210	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 -1.301669 -1.827735 2.339047 0.849405 -3.184844 -2.608562 -1.075001 0.804800 2.069138
A-Fe C C N C C N C C C C C C C C H H H H H H	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.332083 -3.332083 -3.338056 -3.335908 -3.178624 -3.177949 -3.181930 -4.861928 -5.462175 -4.856739 -4.860707 	=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619 -2.863246 2.561615 -2.328351 3.190992 -0.858918 0.879811 0.304403 0.784909 1.824210 -2.698664	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 -1.301669 -1.827735 2.339047 0.849405 -3.184844 -2.608562 -1.075001 0.804800 2.069138 0.547761
A-Fe C C N C C N C C N O O O C C C H H H H H H H	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.332083 -3.338056 -3.335908 -3.178624 -3.177949 -3.181930 -4.861928 -5.463795 -5.462175 -4.856739 -4.860707 -5.463476 	=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619 -2.863246 2.561615 -2.328351 3.190992 -0.858918 0.879811 0.304403 0.784909 1.824210 -2.698664 -1 083007	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 -1.301669 -1.827735 2.339047 0.849405 -3.184844 -2.608562 -1.075001 0.804800 2.069138 0.547761 0.280422
A-Fe C C N C C N C C N O O O C C C H H H H H H H H H H H H H H	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.332083 -3.338056 -3.335908 -3.178624 -3.177949 -3.181930 -4.861928 -5.463795 -5.462175 -4.856739 -4.860707 -5.463476 -1.890662 	=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619 -2.863246 2.561615 -2.328351 3.190992 -0.858918 0.879811 0.304403 0.784909 1.824210 -2.698664 -1.083007 -2.981095	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 -1.301669 -1.827735 2.339047 0.849405 -3.184844 -2.608562 -1.075001 0.804800 2.069138 0.547761 0.280422 1.796857
A-Fe C C N C C N C C N O O O C C C H H H H H H H C L	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.332083 -3.332083 -3.338056 -3.335908 -3.178624 -3.177949 -3.181930 -4.861928 -5.463795 -5.462175 -4.856739 -4.860707 -5.463476 -1.890662 2.970022 	=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619 -2.863246 2.561615 -2.328351 3.190992 -0.858918 0.879811 0.304403 0.784909 1.824210 -2.698664 -1.083007 -2.981095 1.920570	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 -1.301669 -1.827735 2.339047 0.849405 -3.184844 -2.608562 -1.075001 0.804800 2.069138 0.547761 0.280422 1.796857 3.22160
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A-Fe C C N C C N C C N O O O C C C H H H H H H H H H H H H H H	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.332083 -3.338056 -3.335908 -3.178624 -3.177949 -3.181930 -4.861928 -5.463795 -5.462175 -4.856739 -4.860707 -5.463476 -1.890662 -2.970033 -3.955598 	=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619 -2.863246 2.561615 -2.328351 3.190992 -0.858918 0.879811 0.304403 0.784909 1.824210 -2.698664 -1.083007 -2.981095 -1.920579 -3.099717	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 -1.301669 -1.827735 2.339047 0.849405 -3.184844 -2.608562 -1.075001 0.804800 2.069138 0.547761 0.280422 1.796857 3.323160 2.442172
A-Fe C C N C C N C C N O O O C C C H H H H H H H H H H H H H H	 -3a'³⁻ E(gas) -3.811624 -4.550148 -3.769852 -4.547225 -3.809443 -3.770026 -4.549488 -3.813359 -3.772648 -3.332083 -3.338056 -3.335908 -3.178624 -3.177949 -3.181930 -4.861928 -5.463795 -5.462175 -4.856739 -4.860707 -5.463476 -1.890662 -2.970033 -3.955598 -2.974656 	=-2631.5238 1.760680 0.530931 1.938898 1.145117 0.022080 -1.244159 -1.671049 -1.778902 -0.690625 0.304619 -2.863246 2.561615 -2.328351 3.190992 -0.858918 0.879811 0.304403 0.784909 1.824210 -2.698664 -1.083007 -2.981095 -1.920579 -3.099717 -1.915293	81267 A.U. -1.038017 -1.623443 0.321311 1.273915 2.045037 1.519446 0.356769 -1.002056 -1.835934 3.133039 -1.301669 -1.827735 2.339047 0.849405 -3.184844 -2.608562 -1.075001 0.804800 2.069138 0.547761 0.280422 1.796857 3.323160 2.442172 -3.323936
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C	3 775697	-0 719200	4 038819
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Č	1 813235	-1 898510	4 843107
Õ	1 492642	-1 060643	1 277017
õ	3 81 5994	-0.016816	1 743490
й	4 759431	-0 287726	4 217987
Н	3 509169	-1 431522	6 069513
Н	1 247994	-2 394783	5 625788
Fe	2 780592	-0.000899	-0.001260
104	,000/2	0.0000000	
[Feat	(H2O)↓1(СН₃ОН)(Н₅	O) E(gas)=-3253 54446918 A U
C	-1.025536	3.107078	-0.980350
č	-2.110936	4.188978	-1.121545
-			

C	-1.025556	3.10/0/8	-0.980330
С	-2.110936	4.188978	-1.121545

Ν	0.079173	3.361843	-0.232849
С	0.126318	4.348353	0.852915
С	-0.381707	3.746825	2.184868
Ν	-1.740249	3.582772	2.366377
С	-2.742651	4.428515	1.710075
С	-3.732849	3.769949	0.715029
Ν	-3.417177	3.774393	-0.622349
0	0.447314	3.355360	2.985532
0	-4.802467	3.358586	1.133084
0	-1.163087	2.070701	-1.636836
Ċ	-2.174170	2.914427	3.609967
Ċ	1 228212	2 442154	-0 347352
C	-4 498522	3 605702	-1 614585
н	-2 204318	4 332695	-2 198580
н	-1.815835	5 156761	-0.719039
н	-0.37/192	5 268886	0.56/3/7
и П	1 170676	1 505062	1 030385
п п	2 200454	4.393902	2 480802
11 11	-3.399434	4.019310	2.469603
Γ	-2.200894	1 670240	2 417914
	-3.000220	1.079240	3.41/014
H H	-1.280994	2.035501	4.160024
H	-2.727492	3.644103	4.213315
H	-5.422/02	3.463438	-1.061442
H	-4.5/6010	4.552735	-2.1646/5
C	-4.320060	2.4/0/08	-2.632059
H	2.138748	3.043112	-0.309885
C	1.297237	1.327793	0.721830
Н	1.168995	1.988937	-1.334308
Ν	2.027134	0.174840	0.233549
Н	1.776371	1.696300	1.625477
Η	0.290856	1.006272	0.991188
Ν	-2.363558	0.511906	2.888473
Η	-3.456116	1.430499	4.407652
Η	-3.905886	1.897821	2.766969
Ν	-4.737839	1.158738	-2.179008
Η	-4.934377	2.719555	-3.499115
Η	-3.279849	2.403024	-2.956016
Η	-2.682586	0.088145	2.027584
С	-1.619645	-0.264701	3.730223
Η	-4.084589	0.533530	-1.727042
С	-5.982471	0.687536	-2.473755
Η	1.497094	-0.510888	-0.288058
С	3.376919	0.075356	0.310653
0	4.055267	1.004608	0.786327
С	3.991121	-1.208631	-0.118272
0	-1.307629	0.112430	4.852686
Ċ	-1.250634	-1.649207	3.256370
0	-6.842079	1.385189	-3.000511
Ċ	-6.243232	-0.769144	-2.185249
Ċ	-5 296134	-1 666053	-1 615196
č	-5 621028	-3 093799	-1 511845
č	-6 899836	-3 548187	-1 910373
č	-7 805148	-2 646315	-2 423268
\tilde{c}	-7 <u>474</u> 208	-1 277065	-2.725200
$\tilde{0}$	-/.122021	-1.277903	-2.300090
0	-+.132921 1 600010	-1.322291	1.1030/2
U Ц	7 1 2 2 1 0 5 7 1 7	-3.070103	1 200021
11 LT	-1.120103	-4.003302	-1.009084
п	-0./0/240	-2.904198	-2./30014

Η	-8.186287	-0.583758	-2.996657
С	5.256088	-1.146819	-0.723247
С	6.122201	-2.287301	-0.652613
С	5.585044	-3.511982	-0.260958
С	4.255212	-3.597770	0.177571
С	3.474442	-2.455096	0.290750
0	5.764275	-0.033554	-1.240335
0	7.421267	-2.063487	-0.899873
Η	6.230473	-4.385466	-0.251169
Η	3.855537	-4.557324	0.490306
Η	2.498391	-2.508425	0.762638
С	-1.658634	-2.232233	2.030562
С	-1.455480	-3.668950	1.814068
С	-0.718522	-4.423033	2.762941
С	-0.258353	-3.804672	3.901363
С	-0.543547	-2.442806	4.152572
0	-2.260426	-1.594800	1.061239
0	-1.987730	-4.182273	0.763451
Η	-0.551752	-5.475708	2.564827
Η	0.307198	-4.367858	4.635741
Η	-0.233306	-1.980256	5.081982
Fe	-3.062706	-2.894770	-0.372027
0	-1.695608	-2.773747	-2.000095
Η	-2.114952	-2.663766	-2.859733
Η	-1.124244	-1.980957	-1.829193
0	-0.579466	-0.593679	-1.003198
Η	-0.743982	0.307863	-1.341120
Η	-1.114793	-0.698738	-0.196800
Fe	7.704043	-0.086207	-0.642572
0	9.685569	-0.993465	-0.247351
Η	10.364895	-0.926853	-0.927212
Η	9.251171	-1.865684	-0.333600
0	8.331579	1.647332	-1.672214
Η	7.510179	1.947912	-2.168823
Η	8.680496	2.390948	-1.170609
0	6.814684	0.877500	1.057518
Η	6.984779	0.644960	1.975003
Η	5.827228	0.925239	0.920776
0	5.996229	2.061875	-2.767210
С	5.817535	1.731385	-4.141954
Η	4.755013	1.731813	-4.405258
Η	6.321934	2.494845	-4.735603
Η	6.240701	0.750424	-4.383165
Н	5.613014	1.338040	-2.213344