

Supporting Information

Table S1 The lowest frequencies (in cm^{-1}), Gibbs free energies (in a.u.), entropies S_m^\ominus (in $\text{cal}\cdot\text{K}\cdot\text{mol}^{-1}$), entropic corrections ($-T\Delta S$, in $\text{kJ}\cdot\text{mol}^{-1}$) and relative free energies after entropic correction (ΔG , in $\text{kJ}\cdot\text{mol}^{-1}$) for the hydrolysis and dimerization of $\text{Si}(\text{OCH}_3)_4$ in the aid of F^- based on gas-phase calculations at B3LYP/6-31G(d,p) level and CPCM SPE calculations at B3LYP/6-311++G(d,p) level.

$\text{Si}(\text{OCH}_3)_4$	Species	Frequencies	Entropies	$-T\Delta S$	Gibbs free energies	ΔG
First-order	$\text{Si}(\text{OCH}_3)_4 + \text{F}^- + \text{H}_2\text{O}$	47 - 1665	200.491	-	-926.639183	0.0
hydrolysis	IM+ H_2O	53 1665	163.258	46.4	-926.640709	42.4
	F1-IM1	55	130.351	87.5	-926.639068	87.8
	F1-TS	i776	122.983	96.7	-926.606992	181.2
	F1-IM2	29	134.513	82.3	-926.645664	65.3
	F1-P+ CH_3OH	73 338	164.922	44.4	-926.641207	39.1
Second-order	F1-P + H_2O	73 1665	153.264	-	-887.372490	0.0
hydrolysis	F2-IM1	51	121.939	39.1	-887.375379	31.5
	F2-TS	i759	116.557	45.8	-887.341693	126.7
	F2-IM2	26	126.420	33.5	-887.376755	22.3
	F2-P+ CH_3OH	72 338	158.358	-6.4	-887.374501	-11.7
Third-order	F2-P + H_2O	72 1665	146.700	-	-848.105784	0.0
hydrolysis	F3-IM1	23	117.328	36.6	-848.106070	35.8
	F3-TS	i715	107.850	48.5	-848.076678	124.9
	F3-IM2	24	117.768	36.1	-848.113375	16.2
	F3-P+ CH_3OH	80 338	148.670	-2.5	-848.110542	-15.0
Fourth-order	F3-P + H_2O	80 1665	137.012	-	-808.841825	0.0
hydrolysis	F4-IM1	23	106.557	38.0	-808.841680	38.4
	F4-TS	i667	97.505	49.3	-808.810487	131.6
	F4-IM2	31	109.358	34.5	-808.843873	29.1
	F4-P+ CH_3OH	106 338	140.429	-4.3	-808.841246	-2.8
First-order	F1-P+C1-1-P	73 52	217.789	-	-1521.821224	0.0
dimerization	dF1-IM1	9	183.540	42.7	-1521.816556	55.0
	dF1-TS	i806	170.351	59.2	-1521.785225	153.7
	dF1-IM2	28	174.964	53.4	-1521.834043	19.7
	dF1-P+ CH_3OH	16 338	211.809	7.5	-1521.835565	-30.2
Second-order	F2-P+C1-2-P	72 67	201.741	-	-1443.289651	0.0
dimerization	dF2-IM1	36	152.802	61.0	-1443.293200	51.7
	dF2-TS	i805	150.454	64.0	-1443.262708	134.7
	dF2-IM2	37	153.594	60.1	-1443.304447	21.3
	dF2-P+ CH_3OH	29 338	192.183	11.9	-1443.304013	-25.8
third-order	F3-P+C1-3-P	80 72	181.986	-	-1364.760756	0.0
dimerization	dF3-IM1	32	134.773	62.7	-1364.763331	52.1
	dF3-TS	i985	130.857	63.8	-1364.729899	144.8
	dF3-IM2	29	140.483	51.8	-1364.771895	22.6

	dF3-P+ CH ₃ OH	37 338	172.409	11.9	-1364.774566	-24.4
Fourth-order	F4-P+Si(OH) ₄	106 201	163.432	-	-1286.225634	0.0
dimerization	dF4-IM1	57	113.419	62.4	-1286.232688	43.9
	dF4-TS	i978	115.848	59.4	-1286.198895	129.6
	dF4-IM2	21	122.336	51.3	-1286.242895	6.0
	dF4-P+ CH ₃ OH	43 1665	151.239	15.2	-1286.240875	-24.8

Cartesian coordinates of all species

F⁻

-1 1

F 0.00000000 0.00000000 0.00000000

Si(OCH₃)₄

0 1

Si 0.00109300 -0.00090800 -0.00448700
O -1.42283800 -0.66328700 -0.48683400
O 0.27885800 -0.54329300 1.52207800
O -0.16355900 1.62890700 -0.14216300
O 1.30980000 -0.42227300 -0.90398200
C -2.14626200 -0.25566000 -1.64370600
H -3.15201400 -0.68077600 -1.58222800
H -2.22372400 0.83508200 -1.70202000
H -1.66604100 -0.62622700 -2.55739100
C -0.71546300 -0.59427000 2.54012900
H -1.04732400 0.41270800 2.82068400
H -1.58559400 -1.17419500 2.21473700
H -0.27506200 -1.07292500 3.41900200
C 0.91849900 2.54852200 -0.03286300
H 1.68637000 2.34824900 -0.78758100
H 0.52197600 3.55572500 -0.18698600
H 1.38058700 2.50423900 0.96108300
C 1.94003400 -1.69774300 -0.84940600
H 1.30453400 -2.47157900 -1.29638800
H 2.87103400 -1.64005500 -1.42019000
H 2.17103100 -1.98304800 0.18238100

IM

-1 1

Si -0.18772700 0.13489900 -0.26494100
O 0.51808500 -1.02348900 -1.31856200
O -1.38594000 -0.38018900 0.85649400
O 0.24045300 1.78352100 -0.42550200
O 1.02911500 -0.07159900 1.00818100
C 1.78045300 -1.61023300 -1.20994000
H 1.71979900 -2.64684500 -0.83057200

H	2.24920000	-1.66565100	-2.20760500
H	2.45217700	-1.05696800	-0.54294100
C	-2.74240000	-0.51711900	0.53046600
H	-3.20865300	0.43445900	0.23772500
H	-2.91527700	-1.22158700	-0.29578700
H	-3.27595100	-0.89766900	1.41708900
C	1.15037700	2.48377700	0.37468800
H	2.17767900	2.09807500	0.29666100
H	1.15811300	3.53691400	0.04689200
H	0.88881800	2.46081100	1.44230200
C	1.01866800	-1.12330000	1.91850800
H	0.97619500	-2.12165700	1.44344000
H	1.94602800	-1.09934600	2.51963700
H	0.16457300	-1.07312600	2.61138700
F	-1.35120200	0.38881100	-1.45291900

H₂O

0 1

O	0.00000000	0.00000000	0.11918800
H	0.00000000	0.75928600	-0.47675400
H	0.00000000	-0.75928600	-0.47675400

F1-IM1

-1 1

Si	-0.21159300	0.17264300	0.02114600
O	0.21319100	-0.30734100	-1.56256700
O	-1.74354300	0.90265300	0.20768600
O	0.93654200	0.01483000	1.29965900
O	-0.90925000	-1.38122400	0.45784000
C	0.93747900	-1.47991800	-1.82937700
H	0.83458600	-1.73350800	-2.89611800
H	2.00804800	-1.33211700	-1.61837500
H	0.58349500	-2.33686300	-1.23835100
C	-2.01698700	2.25798600	-0.03702400
H	-1.45508300	2.92987100	0.62583300
H	-1.78740300	2.55968500	-1.06880600
H	-3.09143600	2.42798400	0.13412600
C	0.94576800	-1.00370000	2.27186000
H	1.11991400	-1.99767900	1.83960000
H	1.75627500	-0.78525400	2.98404400
H	0.00091000	-1.05751600	2.82648200
C	-2.04636500	-1.86589200	-0.18816600
H	-1.94809800	-1.85822900	-1.28781600
H	-2.22592700	-2.91139800	0.11747700
H	-2.94761100	-1.28258600	0.05764200
F	0.51296600	1.69327700	-0.28438900

H	2.70558000	0.46101900	0.45173400
O	3.18275800	0.83225100	-0.31160800
H	2.43539400	1.31988100	-0.69585700

F1-TS

-1 1

Si	-0.15675100	-0.01444700	-0.17792200
O	-1.60208900	-1.01399100	-0.31438100
O	1.45760700	0.66422200	-0.18774800
O	0.63021700	-1.61984800	0.70630800
O	-0.60141600	0.68562100	1.33580200
C	-2.86382500	-0.45547500	-0.09950200
H	-3.11834000	0.31974500	-0.84274500
H	-3.62693500	-1.24904500	-0.17226100
H	-2.94827400	0.00595000	0.89582800
C	1.99522000	1.25060500	-1.33535700
H	1.95828200	0.57902400	-2.20669800
H	1.48009800	2.18290800	-1.61946800
H	3.05443800	1.49963700	-1.14980200
C	1.73896700	-1.50869600	1.56550500
H	1.48067500	-0.84953200	2.40318100
H	1.99757600	-2.50121900	1.97003500
H	2.61720100	-1.08218000	1.06493400
C	-0.32205100	2.02420200	1.62435600
H	-0.86036800	2.72238400	0.95995600
H	-0.63961400	2.24398800	2.65739000
H	0.75003400	2.25418700	1.53700400
O	0.50396500	-1.28609200	-1.55201900
H	-0.34544500	-1.69311100	-1.78263500
H	0.79234700	-1.77700000	-0.47225200
F	-0.75481000	1.13815600	-1.24280800

F1-IM2

-1 1

Si	-0.64448000	0.00500200	-0.21124100
O	-1.81964600	-1.31740100	-0.14550400
O	0.62134600	1.21988500	-0.28788900
O	2.95563900	-1.63270700	0.36218800
O	-0.96667500	0.36350000	1.41695400
C	-3.15561400	-1.08640000	0.17722800
H	-3.64675600	-0.39553600	-0.53001900
H	-3.71484100	-2.03718300	0.14857900
H	-3.27327700	-0.66130800	1.18751200
C	1.15030900	1.60893900	-1.52085300
H	1.57229800	0.76193100	-2.08699400
H	0.39704300	2.09112400	-2.16545100

H	1.96530800	2.33392700	-1.36033500
C	3.59154400	-0.37831700	0.43719700
H	4.34429000	-0.41122400	1.23874400
H	4.12575300	-0.11045400	-0.49494800
H	2.88536800	0.43360800	0.65268100
C	-0.40984500	1.41853700	2.15770900
H	-0.50052100	2.38785000	1.65104900
H	-0.93927200	1.47737700	3.12168600
H	0.65833700	1.26484900	2.36523300
O	0.47128900	-1.18551900	-0.76682400
H	-0.04404300	-2.00301500	-0.80661200
H	2.07547600	-1.47814800	-0.05024600
F	-1.55960300	0.81306200	-1.33917600

F1-P

-1 1

Si	0.02692500	-0.20959000	-0.13631600
O	1.73103600	-0.64610600	-0.42798600
O	-1.66618400	0.21072000	0.08002400
O	0.45817200	1.43606600	-0.26077000
C	2.74158300	-0.22430300	0.42910900
H	2.59741500	-0.58257900	1.46421300
H	3.71615700	-0.61372200	0.08294400
H	2.82471500	0.87538900	0.47419600
C	-2.60325200	-0.77690500	0.36777600
H	-2.66798300	-1.54379100	-0.42256300
H	-2.38783000	-1.30309500	1.31500900
H	-3.60560600	-0.32315000	0.46899100
C	-0.40808800	2.52407400	-0.08511000
H	-0.89887100	2.52413100	0.89832300
H	0.18062500	3.45208100	-0.17553500
H	-1.20971700	2.55152500	-0.83620000
O	-0.35951700	-1.22577800	-1.44526900
H	0.49008700	-1.59497500	-1.71926300
F	0.09939400	-0.87155300	1.39107400

CH₃OH

0 1

C	0.66166400	-0.01944200	0.00000000
H	1.08220100	0.98943900	0.00000000
H	1.03826800	-0.54291400	0.89182300
H	1.03826800	-0.54291500	-0.89182300
O	-0.74936700	0.12204500	0.00000000
H	-1.13378800	-0.76331900	0.00000000

F2-IM1

-1 1

Si	0.20076800	0.06423700	0.49611100
O	-0.01586400	-1.56317000	0.02973200
O	1.20802200	0.36870900	1.83376400
O	-0.75663000	1.27119300	-0.27310700
O	1.52144400	0.36820900	-0.62400100
C	-0.18216900	-1.93910700	-1.31278000
H	0.00840300	-3.01921200	-1.41227700
H	-1.21347800	-1.74477100	-1.64568500
H	0.50660200	-1.40723400	-1.98512900
C	-0.29699300	2.16006900	-1.26326500
H	-0.01004300	1.64741500	-2.19083200
H	-1.11085900	2.86525000	-1.49165900
H	0.57744400	2.73386100	-0.93215300
C	2.73707500	-0.30015200	-0.47513600
H	2.61771500	-1.39716200	-0.43535600
H	3.39123000	-0.07291700	-1.33494200
H	3.27092000	-0.00181000	0.44086700
F	-1.12072200	-0.12150200	1.60158500
H	-2.58526400	0.41757600	-0.54120900
O	-3.16799400	-0.32148300	-0.29450300
H	-2.67541300	-0.60497800	0.49468500
H	0.63919500	0.26566200	2.60588500

F2-TS

-1 1

Si	0.08768500	-0.07257500	0.28321300
O	1.00560400	-1.22793400	-0.67940100
O	-1.06765600	0.74414500	1.29204500
O	-1.43420500	-0.69788900	-0.86229100
O	0.41991900	1.28148600	-0.72738300
C	2.31959700	-0.93118700	-1.04694700
H	3.00722300	-0.89462000	-0.18438100
H	2.68767700	-1.71243600	-1.73386400
H	2.39424100	0.03656200	-1.56562200
C	-2.58371600	0.10110800	-0.99852700
H	-2.30251300	1.07098500	-1.42819900
H	-3.29993400	-0.38607700	-1.68151000
H	-3.07703900	0.29764900	-0.03803700
C	0.62615500	2.55396000	-0.18468000
H	1.55227000	2.61291500	0.41357100
H	0.71959500	3.28493700	-1.00554200
H	-0.20074500	2.86973200	0.46694700
O	-0.70492400	-1.77142600	1.03423600
H	-0.04351400	-2.38814900	0.68403600
H	-1.36596600	-1.47335800	0.06254900

F	1.31602700	0.05047000	1.42620300
H	-1.06525600	0.27333000	2.13253500

F2-IM2

-1 1

Si	0.55201400	-0.08607400	0.33135800
O	1.59538800	-1.18026900	-0.59348500
O	-0.63936500	0.89587600	1.15083700
O	-3.16776800	-0.97069000	-0.83693500
O	0.92809400	1.16233900	-0.76295700
C	2.93780700	-0.89006100	-0.82971300
H	3.51550300	-0.77201100	0.10412000
H	3.40138700	-1.71510500	-1.39773700
H	3.06856500	0.03391000	-1.41580300
C	-3.70841200	0.07299400	-0.06063900
H	-4.46418200	0.60698600	-0.65555800
H	-4.22148800	-0.29221100	0.85165200
H	-2.94100500	0.79102900	0.25526700
C	0.44046200	2.47681800	-0.68942500
H	0.63324500	2.94938700	0.28346100
H	0.94165400	3.07431600	-1.46743000
H	-0.64308500	2.53111000	-0.86061600
O	-0.63470900	-1.34660300	0.18981100
H	-0.17168900	-2.06213000	-0.26818800
H	-2.25981400	-1.13045900	-0.49136800
F	1.53914400	-0.17516400	1.66209900
H	-1.11185400	0.32296700	1.76478900

F2-P

-1 1

Si	-0.08197000	-0.40770500	0.01291500
O	1.57151100	0.02665000	-0.51429900
O	-1.71282700	-0.92675200	0.36112000
O	-0.57141100	1.18936800	-0.36744400
C	2.27275000	1.07690100	0.06648200
H	2.43420300	0.93432300	1.15071700
H	3.27127400	1.16649300	-0.39999800
H	1.76162400	2.04642700	-0.06024900
C	-1.87535800	1.67732200	-0.21176200
H	-2.19608700	1.71227500	0.84167400
H	-1.91176800	2.70730100	-0.60509100
H	-2.61959500	1.07213900	-0.74489100
O	0.08600400	-1.75776800	-1.03843400
H	0.98887000	-1.68780800	-1.37504800
F	0.42226900	-0.57484500	1.58623000
H	-1.75192600	-1.84700300	0.08014300

F3-IM1

-1 1

Si	0.36823500	-0.45015600	0.01351700
O	-1.34413100	-0.24419400	-0.36751800
O	2.08271600	-0.68690300	0.44070500
O	0.55892100	1.20941300	-0.36537600
O	0.51703000	-1.65947900	-1.17378500
C	-2.21128600	-1.33156000	-0.21585300
H	-2.28229500	-1.67205500	0.83142000
H	-3.22354900	-1.03823200	-0.53723300
H	-1.90180400	-2.19396500	-0.82612800
C	1.79400900	1.87942600	-0.36421000
H	2.51854600	1.43595000	-1.06035300
H	1.61579000	2.92061200	-0.67392400
H	2.27254000	1.89248900	0.62453400
O	-2.03902500	2.40497200	0.23271600
H	-2.07687200	1.44061100	0.06724300
H	-1.09149300	2.50420700	0.05356300
F	-0.02353700	-0.85348500	1.59287200
H	2.10690300	-0.79797100	1.39685300
H	1.41835700	-1.98576800	-1.05460100

F3-TS

-1 1

Si	0.13679500	0.31358100	-0.11090400
O	1.20950100	-0.93415700	0.50266500
O	-1.12978200	1.48079000	-0.40569500
O	-1.30632500	-1.03676400	0.34131100
O	0.25426000	-0.13869400	-1.76005800
C	2.45869600	-1.11605400	-0.09684000
H	3.10502300	-0.22638000	-0.01046300
H	2.97730700	-1.95582600	0.39710400
H	2.37587900	-1.35531800	-1.16794200
C	-2.56236300	-0.95229900	-0.27849600
H	-2.43953600	-1.01882500	-1.36844000
H	-3.20291100	-1.79153000	0.04403700
H	-3.07962600	-0.00674000	-0.06577800
O	-0.38972600	0.44238700	1.83643500
H	0.35467900	-0.06273100	2.19840800
H	-1.09898000	-0.39498100	1.35427800
F	1.31380700	1.50975000	0.03298200
H	-0.99457500	2.18025000	0.24322000
H	-0.21806900	0.55582900	-2.23384700

F3-IM2

-1 1

Si	-0.59224500	0.29433000	-0.06966300
O	-1.68682500	-1.09783100	-0.09690600
O	0.64188300	1.55391100	-0.00645500
O	3.11260500	-1.20275700	0.05469800
O	-0.86201000	0.51836100	1.59154400
C	-3.00792600	-0.98313500	0.33174800
H	-3.58000900	-0.24268700	-0.25533800
H	-3.52160700	-1.95388700	0.21997000
H	-3.08179600	-0.68826200	1.39112900
C	3.66549100	0.08068600	0.23355000
H	4.44425400	0.02996400	1.00913300
H	4.15452200	0.46788800	-0.68289500
H	2.91053900	0.81521900	0.54117700
O	0.54459700	-0.74757500	-0.85827700
H	0.06007700	-1.57351800	-0.99567100
H	2.19221800	-1.06679100	-0.26800800
F	-1.56164300	1.16496400	-1.09421500
H	1.10004700	1.58480000	-0.85350200
H	-0.27941900	1.24379700	1.84860600

F3-P

-1 1

Si	0.36073100	0.01735900	-0.00977100
O	-1.29512200	0.63392500	-0.27898300
O	2.04895600	-0.48656500	0.12199700
O	0.04325900	-1.33068800	-1.00605000
C	-2.40728500	-0.14214400	0.02641800
H	-2.45806600	-0.41195700	1.09747500
H	-3.33337200	0.41414500	-0.21028700
H	-2.43612400	-1.08542900	-0.54551400
O	0.89557500	1.57894300	-0.48046800
H	0.08011400	2.07469400	-0.63002200
F	0.05837800	-0.23381400	1.60133700
H	2.56955700	0.32186800	0.06626300
H	0.90462500	-1.76408800	-1.06363600

F4-IM1

-1 1

Si	-0.57611600	-0.10852900	-0.05590900
O	0.92739600	0.77354900	-0.28303700
O	-2.07868100	-1.08651400	0.20516300
O	0.20571900	-1.51564200	-0.61881500
O	-1.43299600	0.94270700	-1.07772300
C	0.99345300	2.12855500	0.05640700
H	0.82531900	2.30177400	1.13309400
H	1.99413100	2.51893700	-0.18913200

H	0.25420300	2.72969400	-0.49549200
O	2.96689000	-1.16758700	0.07081800
H	2.49927900	-0.31074400	0.02477900
H	2.21514600	-1.71571400	-0.20759500
F	-0.59009200	0.25160700	1.57794100
H	-2.27153800	-1.01985100	1.14671200
H	-2.33659600	0.60332500	-1.03572500
H	-0.47083900	-2.19590100	-0.50507900

F4-TS

-1 1

Si	-0.45556000	-0.15574500	-0.02582800
O	-0.92614000	0.66924900	-1.48681400
O	0.21397900	-0.64494300	1.50759100
O	1.40265000	0.47462400	-0.58594500
O	-0.30354500	-1.72712800	-0.69145900
C	2.52999800	-0.20760100	-0.09982600
H	2.46159600	-1.26667300	-0.38063900
H	3.44911100	0.20921400	-0.54599400
H	2.61208200	-0.16462000	0.99462000
O	-0.05008500	1.74576900	0.67770100
H	-0.52063400	2.22874300	-0.01725800
H	0.95524700	1.33702300	0.08112100
F	-2.05106800	-0.14999000	0.53298800
H	0.01936100	0.07292300	2.12081100
H	-0.13610700	-2.29948800	0.06731600
H	-1.87806200	0.51827000	-1.52491100

F4-IM2

-1 1

Si	0.93585100	-0.05054500	-0.02507800
O	1.71000900	1.43666200	0.49794200
O	-0.08085000	-1.45383800	-0.37132400
O	-2.86362600	0.89032100	0.11848800
O	1.12821400	-0.67047600	1.56370200
C	-3.24658900	-0.46575100	0.13335000
H	-3.97886700	-0.62499200	0.93931500
H	-3.73825900	-0.78095600	-0.80893900
H	-2.39046500	-1.13161400	0.29919600
O	-0.26653200	0.94560600	-0.80813800
H	0.04449600	1.84604200	-0.64001800
H	-1.94000100	0.91690300	-0.22532500
F	2.12811300	-0.48270300	-1.08292500
H	-0.51993300	-1.31102300	-1.21707600
H	0.66013000	-1.51436400	1.57115500
H	2.06977900	1.26025700	1.37364100

F4-P

-1 1

Si	0.00036100	0.00011400	0.01592300
O	1.76621200	-0.02838400	-0.11784300
O	-1.76648000	0.03249400	-0.11675400
O	0.02263100	1.57991300	-0.67745300
O	-0.02356000	-1.57229000	-0.69359100
H	0.91203500	-1.75860900	-0.84433000
F	0.00078500	-0.01196800	1.66987500
H	-2.02133900	-0.86162800	-0.36825700
H	-0.91296600	1.76516200	-0.82947800
H	2.01973200	0.86732500	-0.36460800

C1-1-P

0 1

Si	-0.00144500	-0.00383200	0.31054300
O	-0.70484900	0.14317600	1.79484900
H	-0.16429500	-0.16871000	2.52921300
O	0.91633100	-1.36658200	0.37164900
O	1.00460500	1.22408000	-0.10955400
O	-1.21313600	-0.01338800	-0.79910200
C	1.90341800	-1.70592800	-0.59802500
H	2.56404900	-0.85796900	-0.80653800
H	2.49803300	-2.53260600	-0.19969500
H	1.43792500	-2.03178600	-1.53617900
C	0.56473800	2.52198700	-0.49584600
H	0.14389600	3.06630400	0.35836300
H	1.43122300	3.07541100	-0.86792200
H	-0.19060300	2.46683700	-1.28694800
C	-2.39763100	-0.79461000	-0.67745500
H	-2.85406600	-0.67668000	0.31118600
H	-3.10597300	-0.45625100	-1.43866600
H	-2.18670600	-1.85788300	-0.84520700

dF1-IM1

-1 1

Si	2.22134400	0.05751000	-0.03905000
O	-4.69388000	-0.65038300	-0.03094200
H	-4.98647000	-0.90933500	0.85050900
O	0.62420600	0.74179600	-0.33647000
O	1.71161500	-1.28889400	-1.01468200
O	1.88096500	0.20998600	1.63376300
O	3.10448700	1.30935500	-0.79164800
C	2.52721800	2.46884100	-1.32982600
H	1.84635400	2.26071400	-2.16883300
H	1.95227200	3.04387400	-0.59095200

H	3.33718600	3.11189000	-1.70832100
C	2.82356300	-0.05526800	2.64073200
H	2.36373600	0.17966000	3.61289600
H	3.14185300	-1.10676400	2.65852300
H	3.73464600	0.55274300	2.54430100
C	2.56021900	-2.34454200	-1.39467700
H	2.93815200	-2.91151100	-0.53395500
H	1.98912500	-3.03258600	-2.03666900
H	3.43538000	-1.99911300	-1.96244300
Si	-3.13621400	-0.07618200	0.02874100
O	-2.59758100	-0.64969200	1.47427200
O	-3.20458900	1.55995800	-0.07673700
O	-2.27003100	-0.61820100	-1.25863400
C	-1.34496100	-0.29037900	2.08652000
H	-0.56077800	-0.07521400	1.35502000
H	-1.48637200	0.58928700	2.72630800
H	-1.03022600	-1.12985100	2.71394500
C	-2.17741600	2.41172000	-0.59107400
H	-2.28839300	2.51681600	-1.67773500
H	-2.30737100	3.39926300	-0.13438000
H	-1.17117300	2.03920700	-0.37190000
C	-1.64995200	-1.90668200	-1.30121200
H	-0.57235300	-1.80273300	-1.13678100
H	-2.06186200	-2.58834700	-0.54712100
H	-1.82741500	-2.34097500	-2.29162800
F	3.69141300	-0.71894600	0.27949200
H	0.26561300	0.32135500	-1.12604400

dF1-TS

-1 1

Si	-1.68266700	-0.16781800	0.22129500
O	1.97356600	-0.34103700	-1.94181100
H	1.81368100	0.36859300	-2.57765600
O	0.16390600	-0.06892800	0.43745200
H	0.69317600	-1.07922900	0.58696000
O	-1.32837300	-1.11055500	-1.14845000
O	-1.68252800	1.52261300	0.19644800
O	-1.84747200	-0.93663700	1.71768900
C	-0.92406300	-0.95667200	2.77711300
H	-0.06760600	-1.61838200	2.58281300
H	-0.52224000	0.03902000	3.00539700
H	-1.44098900	-1.33267400	3.67168800
C	-2.84684200	2.29626100	0.03095500
H	-2.55162500	3.35449000	0.04189100
H	-3.35658200	2.09351300	-0.91985900

H	-3.57864400	2.13478600	0.83396400
C	-2.31138400	-1.69443400	-1.97163100
H	-2.99656800	-0.95250600	-2.40103800
H	-1.79806700	-2.20814000	-2.79548000
H	-2.92465500	-2.43188500	-1.43590200
Si	1.60089000	0.31681100	-0.44475300
O	1.20839200	1.83640200	-1.09563900
O	2.85087300	0.85225800	0.53818500
O	1.82662500	-1.58050600	0.30695800
C	1.02950100	2.99348000	-0.31344900
H	0.18319300	2.88390100	0.37371400
H	1.93482800	3.23508300	0.26247200
H	0.81677500	3.83928700	-0.98397500
C	3.68112900	0.10556500	1.39320200
H	4.22393100	-0.68620800	0.86241900
H	4.41438500	0.79543000	1.83515500
H	3.12067800	-0.37414500	2.20481900
C	1.79659500	-2.72211900	-0.52140900
H	0.89742400	-2.75158500	-1.15042200
H	2.66880900	-2.74319600	-1.18685700
H	1.81622900	-3.63147000	0.10156700
F	-3.34119900	-0.28244000	-0.02651100

dF1-IM2

-1 1

Si	-1.42062200	-0.09152700	0.27583800
O	1.49265500	-0.10228000	-1.92887400
H	0.61539400	-0.54005900	-1.95715800
O	0.33877400	0.15129000	0.47226700
H	0.85865400	-1.84364900	0.38108000
O	-1.01514200	-1.00756600	-1.15373200
O	-1.60945500	1.59967200	0.18732300
O	-1.58459200	-0.86035000	1.77048200
C	-0.60651200	-0.97823300	2.77661200
H	0.14239200	-1.74304000	2.53468300
H	-0.07668300	-0.03605600	2.96296500
H	-1.11253700	-1.28022400	3.70536900
C	-2.85419700	2.23994500	0.03252700
H	-2.67520300	3.32364500	-0.00622500
H	-3.36890000	1.94455600	-0.89059100
H	-3.53905000	2.03539500	0.86686200
C	-1.97936900	-1.66020100	-1.95778600
H	-2.66673600	-0.95321300	-2.43837300
H	-1.44620500	-2.21319800	-2.74298300
H	-2.58440800	-2.36841600	-1.38127500

Si	1.45805200	0.77996100	-0.53058700
O	1.24278500	2.36143500	-0.97844400
O	2.93975800	0.78008800	0.22562800
O	1.31519900	-2.69960100	0.48387800
C	1.05147400	3.37438300	-0.00764700
H	0.12617400	3.20189200	0.55223500
H	1.89778900	3.42706900	0.69290900
H	0.98124600	4.33867600	-0.52670800
C	3.31936800	-0.14895800	1.22637500
H	3.11239800	-1.18543500	0.93897400
H	4.39658600	-0.03651500	1.40406700
H	2.79280000	0.04764600	2.17015500
C	1.22772900	-3.39548700	-0.74406400
H	1.62610900	-2.80836100	-1.58201200
H	1.82624800	-4.30934500	-0.64658000
H	0.19624900	-3.68840800	-0.98912400
F	-3.05968200	-0.36902600	-0.00734500

dF1-P

-1 1

Si	1.33457600	-0.19071500	-0.19525400
O	-1.58792800	-0.38696300	1.94704900
H	-0.64384900	-0.65454000	2.01767400
O	-0.40461200	-0.13249000	-0.45859200
O	1.01944000	-0.90622400	1.36143100
O	1.37179200	1.51299300	-0.35650500
O	1.61144000	-1.18110700	-1.54625400
C	0.63381700	-1.65054100	-2.43722000
H	-0.01484500	-2.41405200	-1.98178300
H	-0.01978700	-0.85418900	-2.81273600
H	1.14640900	-2.11522500	-3.29339900
C	2.55273800	2.27689500	-0.30971700
H	2.27848100	3.33481000	-0.43192900
H	3.08957600	2.17007500	0.64192000
H	3.25856700	2.01345200	-1.10972800
C	2.03413400	-1.35458800	2.23544400
H	2.67333800	-0.53574200	2.58871600
H	1.55125800	-1.81780600	3.10723900
H	2.68557600	-2.09893300	1.76311500
Si	-1.72197200	0.20424900	0.41186800
O	-2.08455000	1.82109800	0.49019300
O	-3.07459300	-0.46507600	-0.31015500
C	-1.71673100	2.71588200	-0.54649000
H	-0.67418900	2.56760800	-0.84575200
H	-2.36701700	2.60055600	-1.42733900

H	-1.84181700	3.74060700	-0.17301100
C	-3.15482300	-1.85981600	-0.50890200
H	-3.04791600	-2.41368700	0.43472900
H	-4.13810700	-2.09763300	-0.93552200
H	-2.38202800	-2.21793000	-1.20330300
F	2.99635500	-0.25130100	0.11250000

C1-2-P

0 1

Si	0.00237300	0.40008200	-0.00197900
O	-0.38290800	0.73521500	1.56555900
O	1.58968300	0.09417800	-0.29519600
O	-0.81506200	-0.96361600	-0.41038200
C	2.24235500	-1.12074900	0.06392200
H	1.67498300	-1.99203000	-0.27933100
H	3.22801600	-1.12652600	-0.40907200
H	2.37579000	-1.18866500	1.15032200
C	-2.18889200	-1.19192400	-0.11210200
H	-2.83623400	-0.57204300	-0.74419500
H	-2.40854800	-2.24369700	-0.31476000
H	-2.40974900	-0.97773200	0.93900900
O	-0.37254900	1.74643100	-0.87840500
H	0.10895300	1.82758100	-1.70957800
H	-0.24052300	1.65034300	1.83178400

dF2-IM1

-1 1

Si	1.74033300	-0.02151000	0.23194100
O	-3.40292100	-0.61176400	-0.41531800
H	-3.37294100	-1.35565300	-1.02701700
O	0.00847100	0.61318800	-0.09895700
O	2.12775900	1.64057300	0.19197200
O	1.55432600	-0.86297300	-1.25187100
O	1.24735100	-0.76871800	1.63430000
C	2.47978500	-1.83407200	-1.69312300
H	2.10654000	-2.25394500	-2.63636100
H	3.47243900	-1.40374000	-1.86927400
H	2.59705700	-2.65542200	-0.97405400
C	3.41669400	2.13758400	0.46083200
H	4.16608800	1.76801600	-0.25098500
H	3.38189900	3.23355100	0.38708900
H	3.76625700	1.87478500	1.46849000
Si	-1.76913500	-0.06981100	-0.24591000
O	-1.23375900	-1.07134000	-1.48204400
O	-1.54097100	-0.58710600	1.37496000
O	-2.12314900	1.58862300	-0.43264400

C	-2.41879800	-1.47619300	2.03312900
H	-2.39275300	-2.48430000	1.59378600
H	-2.09578700	-1.55747300	3.07952600
H	-3.45653100	-1.12962300	2.00185300
C	-3.41051800	2.09892000	-0.68244100
H	-3.86915500	1.66203000	-1.57783500
H	-4.10146500	1.92084100	0.15288600
H	-3.32195300	3.18518000	-0.82847300
F	3.33472600	-0.49878500	0.41927600
H	-0.00356200	1.57744300	-0.11419700
H	-0.26329000	-1.01282300	-1.58467100
H	0.27802300	-0.68258800	1.72776000

dF2-TS

-1 1

Si	-1.79456000	0.21162600	-0.44053200
O	2.09203500	0.90725600	1.67254400
H	1.83104300	0.58093100	2.54391000
O	0.04102600	0.18266900	-0.36332800
H	0.74935200	0.84562300	-0.96423100
O	-1.59479100	1.65111100	-1.31330900
O	-1.76937100	0.15346200	1.27286200
O	-1.92269800	-1.26367800	-1.23548000
C	-0.87316300	-2.17940700	-1.46632000
H	-0.11337400	-1.77873300	-2.14926000
H	-0.36462000	-2.47189900	-0.54070200
H	-1.30803400	-3.07827100	-1.92531900
C	-2.94546400	0.10574700	2.05436700
H	-2.64690400	0.00996000	3.10651900
H	-3.54629800	1.01629400	1.94484400
H	-3.58607300	-0.74608300	1.79517800
Si	1.42074200	-0.21336500	0.60422500
O	0.62154800	-1.19233900	1.72801900
O	2.46240200	-1.38731500	0.02442400
O	2.00921700	1.06755800	-0.90490100
C	3.66200600	-1.15538600	-0.67552900
H	4.32916000	-0.46485500	-0.13949400
H	4.18293800	-2.11757200	-0.77860200
H	3.48360400	-0.73384400	-1.67020000
C	2.37666500	2.40312800	-0.66760100
H	1.61607900	2.95708600	-0.09693300
H	3.31308300	2.45981000	-0.09650500
H	2.52730200	2.92632800	-1.62629600
F	-3.47529300	0.39812600	-0.49131200
H	-2.48609700	1.93285100	-1.55140500

H	-0.30528600	-0.89070600	1.76244600
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dF2-IM2

-1 1

Si	1.43367600	0.37194500	-0.14636900
O	-1.53948600	-1.03210100	-1.59025400
H	-0.85900300	-0.43327000	-1.95804900
O	-0.18521700	-0.02030100	0.47997400
H	-1.23256900	1.52312500	0.33118500
O	0.68755800	0.66672800	-1.67782700
O	1.95374000	-1.22558900	0.24831100
O	1.72864700	1.58712600	0.97813900
C	0.95263200	1.89177700	2.11685500
H	0.07734700	2.50091300	1.85912300
H	0.59557800	0.99395800	2.63385800
H	1.58185500	2.46849700	2.80978200
C	3.28735500	-1.66590500	0.08670600
H	3.35366800	-2.69268500	0.47003200
H	3.60191500	-1.66478400	-0.96374800
H	3.99456300	-1.04108300	0.64485100
Si	-1.13698000	-1.27462400	0.00389100
O	-0.36276200	-2.69999500	0.29794200
O	-2.55021800	-1.37393600	0.86254700
O	-1.84914800	2.28233600	0.25049000
C	-3.67562900	-0.55147200	0.60452600
H	-4.05795300	-0.70268600	-0.41365600
H	-4.46567400	-0.82533500	1.31512800
H	-3.43835800	0.51177100	0.73055400
C	-1.98938000	2.57535000	-1.12687600
H	-2.40948600	1.73070200	-1.69205000
H	-2.67642000	3.42599000	-1.21655400
H	-1.03438800	2.84474800	-1.59742200
F	2.92387900	0.73076000	-0.88287300
H	1.40244600	0.90814400	-2.27951500
H	0.58305300	-2.45997800	0.38517200

dF2-P

-1 1

Si	-1.29047400	0.27549000	0.27202000
O	1.84071200	-0.88096400	1.55347400
H	1.01111700	-0.61751900	2.00224900
O	0.37341700	0.48860100	-0.22709200
O	-0.75285400	0.05650000	1.90038500
O	-1.39336300	-1.10165900	-0.77541300
O	-1.79540600	1.78623700	-0.29871700
C	-0.96272700	2.71598000	-0.94669600

H	-0.16245400	3.08860900	-0.29285200
H	-0.48008000	2.29986700	-1.83986700
H	-1.58296300	3.57191400	-1.25222700
C	-2.57775700	-1.84306600	-0.97414400
H	-2.37043500	-2.62338300	-1.71956300
H	-2.92888900	-2.32847600	-0.05464500
H	-3.39840600	-1.21885000	-1.34878000
Si	1.59401000	-0.57389600	-0.05952200
O	1.29116700	-1.93057900	-0.95416400
O	3.02655700	0.02608500	-0.66461200
C	3.64122100	1.13800800	-0.05097800
H	3.80046300	0.97672600	1.02399000
H	4.61735100	1.30519500	-0.52480700
H	3.04070900	2.05138400	-0.17294400
F	-2.87833300	0.00758700	0.83018100
H	-1.54575700	-0.12298300	2.41986700
H	0.32856900	-1.89240400	-1.12700800

C1-3-P

0 1

Si	-0.39651200	0.00325200	-0.02714500
O	-1.48047700	1.19558600	-0.37378300
O	1.06569000	0.74433900	0.07448300
C	2.30525600	0.04382100	0.14129900
H	2.41718700	-0.46526600	1.10618000
H	2.38757200	-0.69587300	-0.66194100
H	3.11142800	0.77486800	0.03757600
O	-0.93206500	-0.73297900	1.34802000
H	-1.37061400	-0.14466000	1.97312500
H	-1.12896300	1.90915500	-0.91836500
O	-0.25152200	-1.18233000	-1.16118500
H	-0.90999200	-1.88360900	-1.10461900

dF3-IM1

-1 1

Si	-1.77924300	-0.47439700	0.09540500
O	3.12689600	1.10836100	0.61088100
H	3.00890400	2.01170900	0.29584300
O	0.04781400	-0.62666100	-0.28401000
O	-1.89813000	-1.95412300	-0.73666700
O	-1.70387800	0.98727600	-0.79769700
O	-1.50085100	-0.38918500	1.73253600
C	-2.77592200	1.90546700	-0.82467900
H	-2.45175700	2.78956700	-1.38923400
H	-3.66355800	1.48500000	-1.31224000
H	-3.07265000	2.23011100	0.18125000

Si	1.65461500	0.28020800	0.18411500
O	1.00100200	1.68081600	-0.47509600
O	1.30818300	-0.16384900	1.79493100
O	2.36302100	-0.92794000	-0.78611200
C	3.74162000	-1.00703900	-1.05411500
H	4.13944900	-0.08242200	-1.49084200
H	4.33353700	-1.21735400	-0.15256600
H	3.90284100	-1.82720300	-1.76855700
F	-3.45434500	-0.40189900	0.27742900
H	0.24178900	-1.44265100	-0.75975700
H	0.07412500	1.54221300	-0.75096000
H	-0.54412000	-0.38621100	1.92522500
H	1.95148400	0.31414900	2.33349800
H	-2.83280600	-2.18929200	-0.71916200

dF3-TS

-1 1

Si	-1.54271600	-0.58075700	0.06437200
O	2.79947100	1.04495800	-0.89268800
H	2.57849700	1.91919800	-1.23984400
O	0.24240900	-0.40399500	-0.40008500
H	1.06416600	-1.24073700	-0.22116000
O	-1.50225100	-2.02039700	-0.82549700
O	-1.77011800	0.93527000	-0.71168900
O	-1.20035900	-0.56292600	1.71010700
Si	1.49883400	0.66029800	0.10507700
O	0.66804400	2.13718800	-0.10029000
O	1.70290700	0.72145800	1.78139800
O	2.22962800	-1.20586900	0.19263700
H	-0.24042200	1.93432100	-0.39884700
H	-0.25801000	-0.44692500	1.89588800
H	1.28818400	1.55455600	2.04478800
H	-2.38073000	-2.40649900	-0.72732800
F	-3.19348700	-0.76885300	0.37238300
C	3.24853800	-1.69238900	-0.64725100
H	3.37242700	-2.77468000	-0.48811000
H	3.03983200	-1.52247300	-1.71383600
H	4.20120600	-1.19910000	-0.41999000
C	-3.01615100	1.59920700	-0.72894500
H	-3.77751500	1.02938100	-1.27517400
H	-3.40612100	1.78767500	0.27931900
H	-2.87795800	2.56498100	-1.23340000

dF3-IM2

-1 1

Si	-1.35313200	0.23792400	-0.46956200
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O	2.97503600	-0.41352200	0.12590200
H	2.90900800	0.56028700	0.04552600
O	0.42817600	0.05560600	-0.45667300
H	1.29955200	1.65834500	-0.54251300
O	-1.09444900	1.90870700	-0.66853300
O	-1.39398000	-0.42530300	1.13174000
O	-1.51169300	-0.82942800	-1.77106400
Si	1.47677000	-1.09275800	0.02800700
O	0.95698400	-1.76642900	1.45045100
O	1.59554900	-2.34955600	-1.07445800
O	2.07184100	2.22611000	-0.31166700
H	0.07790700	-1.35321200	1.60860500
H	-0.62413200	-1.11389700	-2.02388200
H	1.12590500	-3.12068800	-0.73673500
H	-1.96983500	2.30346300	-0.75563000
F	-3.03074100	0.48895100	-0.46057000
C	1.68329000	2.99261600	0.81376900
H	0.75202700	3.53916800	0.62205200
H	1.53144500	2.37514400	1.71199700
H	2.48341500	3.71216000	1.02504400
C	-2.59854300	-0.66518700	1.83009400
H	-3.14892500	0.26174300	2.03131300
H	-3.27152200	-1.33505700	1.28129100
H	-2.34727400	-1.13438500	2.79105200

dF3-P

-1 1

Si	1.15387900	-0.47118900	-0.16494400
O	-2.05680700	-0.72288200	1.44532100
H	-1.18739200	-1.11315800	1.66699000
O	-0.51497700	-0.51868300	-0.74585700
O	0.66722000	-1.31125200	1.26019900
O	1.06708800	1.25919700	-0.14369000
O	1.69043200	-1.27317600	-1.55111000
Si	-1.83696900	0.06059500	0.00640600
O	-1.68177500	1.71297600	0.14365100
O	-3.24171100	-0.17525000	-0.86376100
H	-0.72165100	1.87784600	0.03993600
H	0.89320700	-1.42765500	-2.07337900
H	-3.39666400	0.59762000	-1.41857600
H	1.46236100	-1.41364900	1.79651900
F	2.74287000	-0.44540800	0.44366800
C	2.16669500	2.08273100	0.17788600
H	2.51198400	1.93951400	1.21009300
H	3.02450700	1.90250300	-0.48152300

H	1.85515800	3.13014000	0.06113000
Si(OH)₄			
0 1			
Si	-0.45212500	-0.14725100	0.00808300
O	-0.89019700	-0.32285200	1.60881800
O	1.19927100	0.53103900	-0.40780500
O	0.07634600	-1.74283400	-0.20625700
C	2.47838100	0.01928500	-0.00951200
H	2.44553100	-1.06114600	-0.14602500
H	3.24421200	0.46377000	-0.64876900
H	2.68222800	0.25862000	1.03880800
O	-1.54408900	-0.04371800	-1.24717000
H	-1.64387100	-0.91181300	-1.65806700
H	-1.20455700	0.51612200	1.96828600
O	-0.54364000	1.74381600	0.18674000
H	-1.07596600	2.11564400	-0.53002300
H	0.72096200	1.50669200	-0.14108100
H	-0.09059900	-2.26568700	0.58617800
dF4-IM1			
-1 1			
Si	1.74381300	0.02668000	0.03133300
O	-3.39735100	-0.52084700	0.21144000
H	-3.44241000	-1.36576700	-0.25094900
O	0.01706500	0.65844600	-0.32370100
H	0.03056600	1.58365400	-0.59492300
O	2.24727100	1.57935000	-0.43928200
O	1.42182400	-1.16304000	-1.15195600
O	1.38358000	-0.31244400	1.61822500
Si	-1.75191200	0.04104800	-0.03604400
O	-1.37776200	-1.34114300	-0.91525800
O	-1.40352200	0.09647200	1.63365600
O	-2.22047500	1.49828200	-0.76595500
H	-0.43732500	-1.37627700	-1.17196700
H	2.16971200	-1.77172400	-1.13306400
H	0.44384500	-0.13477200	1.81245700
H	-2.16139400	-0.32120300	2.06201900
H	3.20869800	1.57394500	-0.36898100
H	-3.18396700	1.45610300	-0.80015800
F	3.34673600	-0.50586300	0.17490900
dF4-TS			
-1 1			
Si	1.69624200	0.05442900	0.03937700
O	-2.48112100	0.02719400	-1.49552400
H	-2.43269700	-0.86118200	-1.87171800

O	-0.08547200	0.47698800	0.17638900
H	-0.63004400	1.52166100	0.11041200
O	1.91072200	1.52904600	-0.76047800
O	1.24718800	-1.35653300	-0.81495700
O	1.84519900	-0.01726600	1.71557400
Si	-1.71494000	-0.10811300	0.01354600
O	-1.36655400	-1.77813700	-0.08223200
O	-2.66313200	-0.19570100	1.39972700
O	-1.84096100	1.84281300	0.08663300
H	-0.43658100	-1.89585800	-0.35328400
H	2.06530100	-1.84996400	-0.94731300
H	0.97960600	0.19258700	2.08578000
H	-2.62139600	-1.12591500	1.65885000
H	2.85948900	1.59009800	-0.92495100
H	-2.09034300	2.10174100	-0.81066700
F	3.33794200	-0.34986900	-0.16545400

dF4-IM2

-1 1

Si	1.46374700	-0.16882900	0.11781900
O	-2.41925200	0.96918200	-0.67352700
H	-1.85848600	1.77111500	-0.59900000
O	-0.22580500	0.02964000	0.59218100
H	0.16239700	2.47969900	-0.42557600
O	1.37988800	1.28016500	-0.80707000
O	1.11274200	-1.67205900	-0.63829600
O	1.97109700	-0.11701100	1.72686500
Si	-1.69045900	-0.35415300	-0.02076300
O	-1.55692400	-1.61006900	-1.09283900
O	-2.72978400	-0.87447300	1.18575300
O	-0.58749700	2.97618000	-0.01795300
H	-0.60332900	-1.82715000	-1.16154400
H	1.94439600	-1.97500900	-1.02147900
H	1.16088300	-0.05375600	2.24780200
H	-2.63801800	-1.82710600	1.30022800
H	2.27333300	1.43726300	-1.13557000
H	-0.63271000	2.53007700	0.83977500
F	3.08997400	-0.34064700	-0.40048200

dF4-P

-1 1

Si	1.35581400	-0.02414900	0.15283400
O	-1.77013400	1.52530500	-0.68267300
H	-0.85286700	1.86085000	-0.73131400
O	-0.26633200	-0.09023200	0.84816800
O	1.02570200	1.54187200	-0.48339100

O	0.99897200	-1.40273300	-0.81992100
O	2.07263500	-0.20369100	1.66937200
Si	-1.66380500	0.03278600	0.02208500
O	-1.76872400	-1.23436400	-1.05234700
O	-3.01247200	-0.10983400	0.99509500
H	-0.85020000	-1.54943900	-1.17952600
H	1.78688800	-1.55805700	-1.35437200
H	1.33403200	-0.25563200	2.28888500
H	-3.27641000	-1.03637000	1.02603700
H	1.81922500	1.80390100	-0.96529600
F	2.90156000	0.04480600	-0.59196700