# **Electronic Supplementary Information**

# DFT study on the interaction between monomeric aluminum and

# chloride ion in aqueous solution

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#### 1. Optimized geometries using GP, PCM and SM models for all aqueous Al-Cl

complexes.



**Fig. S1** Optimized geometries of hexa-aqua-aluminum  $Al(H_2O)_6^{3+}$  in the presence of chloride ions using GP model. (a) only one Cl<sup>-</sup> locates in the inner-coordination shell; (b) only one Cl<sup>-</sup> locates in the outer-coordination shell; (c) two Cl<sup>-</sup> locate in the inner-coordination shell; (d) one Cl<sup>-</sup> locates in the inner-coordination shell; (e) two Cl<sup>-</sup> locates in the outer-coordination shell; (e) two Cl<sup>-</sup> locate in the inner-coordination shell; (g) two Cl<sup>-</sup> locate in the inner-coordination shell; (f) three Cl<sup>-</sup> locate in the inner-coordination shell; (g) two Cl<sup>-</sup> locate in the inner-coordination shell; (h) two Cl<sup>-</sup> locate in the inner-coordination shell; (h) two Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the outer-coordination shell; (h) two Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the inner-coordination shell; (i) three Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the inner-coordination shell; (i) two Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the inner-coordination shell; (i) two Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the inner-coordination shell; (i) three Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the inner-coordination shell; (i) three Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the inner-coordination shell; (i) three Cl<sup>-</sup> locate in the outer-coordination shell.



**Fig. S2** Optimized geometries of the first hydrolysis product  $Al(H_2O)_4(OH)^{2+}$  in the presence of chloride ions using GP model. (a) Only one Cl<sup>-</sup> locates in the inner-coordination shell; (b) only one Cl<sup>-</sup> locates in the outer-coordination shell; (c) two Cl<sup>-</sup> locate in the inner-coordination shell; (d) one Cl<sup>-</sup> locates in the inner-coordination shell; (e) two Cl<sup>-</sup> locate in the outer-coordination shell.



**Fig. S3** Optimized geometries of the second hydrolysis product  $Al(H_2O)_4(OH)_2^+$  in the presence of chloride ions using GP model. (a) One Cl<sup>-</sup> locates in the inner-coordination shell of *trans* structure; (b) one Cl<sup>-</sup> locates in the outer-coordination shell of *trans* structure; (c) one Cl<sup>-</sup> locates in the inner-coordination shell of *cis* structure; (d) one Cl<sup>-</sup> locates in the outer-coordination shell of *cis* structure.



**Fig. S4** Optimized geometries of the third hydrolysis product  $Al(H_2O)_2(OH)_3^0$  in the presence of chloride ions using GP model. (a) One inner-sphere Cl<sup>-</sup> in the structure with two equatorial and one axial OH<sup>-</sup> moves to the outer sphere; (b) one Cl<sup>-</sup> locates in the outer-coordination shell of the structure with two equatorial and one axial OH<sup>-</sup>; (c) one inner-sphere Cl<sup>-</sup> in the structure with three equatorial OH<sup>-</sup>; (d) one Cl<sup>-</sup> locates in the outer-coordination shell of H<sup>-</sup>; (d) one Cl<sup>-</sup> locates in the outer-coordination of the structure with three equatorial OH<sup>-</sup>; (d) one Cl<sup>-</sup> locates in the outer-coordination of the structure with three equatorial OH<sup>-</sup>; (d) one Cl<sup>-</sup> locates in the outer-coordination of the structure with three equatorial OH<sup>-</sup>.



**Fig. S5** Optimized geometries of hexa-aqua-aluminum  $Al(H_2O)_6^{3+}$  in the presence of chloride ions using PCM model. (a) only one Cl<sup>-</sup> locates in the inner-coordination shell; (b) only one Cl<sup>-</sup> locates in the outer-coordination shell; (c) two Cl<sup>-</sup> locate in the inner-coordination shell; (d) one Cl<sup>-</sup> locates in the inner-coordination shell; (e) two Cl<sup>-</sup> locates in the outer-coordination shell; (f) three Cl<sup>-</sup> locate in the inner-coordination shell; (g) two Cl<sup>-</sup> locate in the inner-coordination shell; (f) three Cl<sup>-</sup> locate in the inner-coordination shell; (g) two Cl<sup>-</sup> locate in the inner-coordination shell; (h) two Cl<sup>-</sup> locate in the outer-coordination shell; (h) two Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the outer-coordination shell; (h) two Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the inner-coordination shell; (i) three Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the inner-coordination shell; (i) two Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the inner-coordination shell; (i) two Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the inner-coordination shell; (i) three Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the inner-coordination shell; (i) three Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the inner-coordination shell; (i) three Cl<sup>-</sup> locate in the outer-coordination shell.



**Fig. S6** Optimized geometries of the first hydrolysis product  $Al(H_2O)_4(OH)^{2+}$  in the presence of chloride ions using PCM model. (a) Only one Cl<sup>-</sup> locates in the inner-coordination shell; (b) only one Cl<sup>-</sup> locates in the outer-coordination shell; (c) two Cl<sup>-</sup> locate in the inner-coordination shell; (d) one Cl<sup>-</sup> locates in the inner-coordination shell; (e) two Cl<sup>-</sup> locate in the outer-coordination shell; (f) locate in the outer-coordination shell.



**Fig. S7** Optimized geometries of the second hydrolysis product  $Al(H_2O)_4(OH)_2^+$  in the presence of chloride ions using PCM model. (a) One Cl<sup>-</sup> locates in the inner-coordination shell of *trans* structure; (b) one Cl<sup>-</sup> locates in the outer-coordination shell of *trans* structure; (c) one Cl<sup>-</sup> locates in the inner-coordination shell of *cis* structure; (d) one Cl<sup>-</sup> locates in the outer-coordination shell of *cis* structure.



**Fig. S8** Optimized geometries of the third hydrolysis product  $Al(H_2O)_2(OH)_3^0$  in the presence of chloride ions using PCM model. (a) One inner-sphere Cl<sup>-</sup> in the structure with two equatorial and one axial OH<sup>-</sup> moves to the outer sphere; (b) one inner-sphere Cl<sup>-</sup> in the structure with three equatorial OH<sup>-</sup> (c) one Cl<sup>-</sup> locates in the outer-coordination shell of the structure with two equatorial and one axial OH<sup>-</sup>; (d) one Cl<sup>-</sup> locates in the outer-coordination shell of the structure with three equatorial OH<sup>-</sup>.









(d)

(e)



(f)



**Fig. S10** Optimized geometries of hexa-aqua-aluminum  $Al(H_2O)_6^{3+}$  in the presence of chloride ions using SM model. (a) only one Cl<sup>-</sup> locates in the inner-coordination shell; (b) only one Cl<sup>-</sup> locates in the outer-coordination shell; (c) two Cl<sup>-</sup> locate in the inner-coordination shell; (d) one Cl<sup>-</sup> locates in the inner-coordination shell and one Cl<sup>-</sup> locates in the outer-coordination shell; (e) two Cl<sup>-</sup> locate in the outer-coordination shell; (f) three Cl<sup>-</sup> locate in the inner-coordination shell; (g) two Cl<sup>-</sup> locate in the inner-coordination shell and one Cl<sup>-</sup> locates in the outer-coordination shell; (h) two Cl<sup>-</sup> locate in the outer-coordination shell and one Cl<sup>-</sup> locates in the inner-coordination shell; (i) three Cl<sup>-</sup> locate in the outer-coordination shell.



**Fig. S11** Optimized geometries of the first hydrolysis product  $Al(H_2O)_4(OH)^{2+}$  in the presence of chloride ions using SM model. (a) Only one Cl<sup>-</sup> locates in the inner-coordination shell; (b) only one Cl<sup>-</sup> locates in the outer-coordination shell; (c) two Cl<sup>-</sup> locate in the inner-coordination shell; (d) one Cl<sup>-</sup> locates in the inner-coordination shell and one Cl<sup>-</sup> locates in the outer-coordination shell; (e) two Cl<sup>-</sup> locate in the outer-coordination shell.



**Fig. S12** Optimized geometries of the second hydrolysis product  $Al(H_2O)_4(OH)_2^+$  in the presence of chloride ions using SM model. (a) One Cl<sup>-</sup> locates in the inner-coordination shell of *trans* structure; (b) one Cl<sup>-</sup> locates in the outer-coordination shell of *trans* structure; (c) one Cl<sup>-</sup> locates in the inner-coordination shell of *cis* structure; (d) one Cl<sup>-</sup> locates in the outer-coordination shell of *cis* structure.



**Fig. S13** Optimized geometries of the third hydrolysis product  $Al(H_2O)_2(OH)_3^0$  in the presence of chloride ions using SM model. (a) One inner-sphere Cl<sup>-</sup> in the structure with two equatorial and one axial OH<sup>-</sup> moves to the outer sphere; (b) one Cl<sup>-</sup> locates in the outer-coordination shell of the structure with two equatorial and one axial OH<sup>-</sup>; (c) one inner-sphere Cl<sup>-</sup> in the structure with three equatorial OH<sup>-</sup> move to the outer-coordination shell; (d) one Cl<sup>-</sup> locates in the outer-coordination shell of the structure with three equatorial OH<sup>-</sup>.



Fig. S14 Optimized geometry of Al(OH)<sub>4</sub><sup>-</sup> in the presence of chloride ion using SM-PCM model.

#### 2. The change in the atomic natural charge.



**Fig. S15** (A). Natural charge of hexa-aqua-aluminum as a function of the number of chloride ions. (B). Natural charge of various hydrolysis products in the presence one chloride ion. Note: all atomic charge is average.

#### 3. The computational energies (a.u.) of all the clusters.

Table S1 The absolute energies (a. u.) of various aqueous aluminum clusters in the presence of chloride ions							
Cluster <sup>a</sup>	I/O <sup>b</sup>	E(GP) <sup>c</sup>	E(PCM) <sup>d</sup>	E(SM) <sup>e</sup>	E(SM-PCM) <sup>f</sup>		
[Al (H <sub>2</sub> O) <sub>5</sub> Cl](H <sub>2</sub> O) <sup>2+</sup>	Ι	-1160.935016	-1161.275368	-2078.484213	-2078.742702		
[Al (H <sub>2</sub> O) <sub>6</sub> ]Cl <sup>2+</sup>	0	-1160.902032	-1161.269686	-2078.478142	-2078.748240		
$[Al (H_2O)_4Cl_2](H_2O)_2^+$	2I	-1621.582706	-1621.699508	-2539.023078	-2539.143127		
$[Al (H_2O)_5Cl](H_2O)Cl^+$	1I+1O	-1621.569788	-1621.701147	-2539.033886	-2539.164064		
$[Al (H_2O)_6]Cl_2^+$	20	-1621.555496	-1621.697824	-2539.036018	-2539.173032		
[Al (H <sub>2</sub> O) <sub>3</sub> Cl <sub>3</sub> ](H <sub>2</sub> O) <sub>3</sub> <sup>0</sup>	3I	-2082.058182	-2082.114860	-2999.479681	-2999.545506		
[Al (H <sub>2</sub> O) <sub>4</sub> Cl <sub>2</sub> ](H <sub>2</sub> O) <sub>2</sub> Cl <sup>0</sup>	2I+1O	-2082.063171	-2082.125791	-2999.484412	-2999.565378		
[Al (H <sub>2</sub> O) <sub>5</sub> Cl](H <sub>2</sub> O)Cl <sub>2</sub> <sup>0</sup>	1I+2O	-2082.073276	-2082.123889	-2999.505074	-2999.581245		
$[Al (H_2O)_6]Cl_3^0$	30	-2082.066054	-2082.124457	-2999.486781	-2999.587848		
$[Al(OH)(H_2O)_4Cl](H_2O)^+$	Ι	-1160.727199	-1160.850743	-2078.183168	-2078.302372		
$[Al(OH)(H_2O)_5]Cl^+$	0	-1160.710956	-1160.848981	-2078.174413	-2078.310757		
[Al(OH)(H <sub>2</sub> O) <sub>3</sub> Cl <sub>2</sub> ](H <sub>2</sub> O) <sub>2</sub> <sup>0</sup>	2I	-1621.218249	-1621.264796	-2538.609011	-2538.708454		
[Al(OH)(H <sub>2</sub> O) <sub>4</sub> Cl](H <sub>2</sub> O)Cl <sup>0</sup>	1I+1O	-1621.222749	-1621.271992	-2538.637594	-2538.717361		
[Al(OH)(H <sub>2</sub> O) <sub>5</sub> ]Cl <sub>2</sub> <sup>0</sup>	20	-1621.220072	-1621.271722	-2538.633789	-2538.726076		
cis-[Al(OH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl](H <sub>2</sub> O) <sup>0</sup>	Ι	-1160.359414	-1160.409093	-2077.768717	-2077.846037		
cis-[Al(OH) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> ]Cl <sup>0</sup>	0	-1160.362266	-1160.412322	-2077.785583	-2077.863235		
trans- $[Al(OH)_2(H_2O)_3Cl](H_2O)^0$	Ι	-1160.360776	-1160.408860	-2077.777301	-2077.845671		
trans-[Al(OH) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> ]Cl <sup>0</sup>	0	-1160.355496	-1160.415154	-2077.790928	-2077.861319		
trans-[Al(OH) <sub>3</sub> (H <sub>2</sub> O)Cl](H <sub>2</sub> O) <sub>2</sub>	Ι	-1159.884264	-1159.985224	-2077.285021	-2077.418191		
trans-[Al(OH) <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub> ](H <sub>2</sub> O)Cl <sup>-</sup>	0	-1159.876246	-1159.984030	-2077.295468	-2077.421097		
cis-[Al(OH) <sub>3</sub> (H <sub>2</sub> O)Cl](H <sub>2</sub> O) <sub>2</sub>	Ι	-1159.879216	-1159.983615	-2077.298551	-2077.420969		
cis-[Al(OH) <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub> ](H <sub>2</sub> O)Cl <sup>-</sup>	0	-1159.878368	-1159.980210	-2077.294241	-2077.412070		

<sup>a</sup> Twelve water molecules in the second solvation sphere for SM and SM-PCM models were omitted for simplicity.

 $^{\rm b}$  I/O denotes Cl  $^{\rm \cdot}$  in inter-coordination shell or in outer-coordination shell.

<sup>c</sup> The energy for gas phase cluster only involving first solvation sphere.

<sup>d</sup> The energy using PCM method only involving first solvation sphere.

<sup>e</sup> The energy for gas phase cluster in supermolecular model.

<sup>f</sup> The energy using PCM method in supermolecular model.

<sup>g</sup> tetra=tetracoordinate.

# 4. The free energy (a. u.) of the related species for the $pK_a$ computation.

<b>Table 52</b> The file chergy (a. u.) of the related species for the pr <sub>a</sub> computation	Table	S2 The	free energy	(a. u	.) of	the r	elated	species	for	the	pK <sub>a</sub>	com	putation.
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	GP		PCM		SM		SM-PCM	
	With Cl <sup>-</sup>	Without Cl <sup>-</sup>						
Hexa-aqua-aluminum	-1160.939903	-700.155711	-1161.309394	-700.900582	-2078.552792	-1617.891459	-2078.822577	-1618.394544
The first hydrolysis product	-1160.749267	-700.107726	-1160.888762	-700.461618	-2078.246403	-1617.701128	-2078.382676	-1617.959907
The second hydrolysis product	-1160.394666	-699.908885	-1160.455531	-700.034998	-2077.863676	-1617.403406	-2077.936570	-1617.517758
The third hydrolysis product	-1159.927763	-699.531151	-1160.027546	-699.581986	-2077.372126	-1617.008087	-2077.493792	-1617.077978
The forth hydrolysis product	-	-699.062024	-	-699.165789	-2076.806914	-1616.528135	-2077.053240	-1616.635099
H <sub>2</sub> O	-76.	454816	-76.	467652		-		-
$H_3O^+$	-76.	714912	-76.	895985		-		-

## 5. The computed $pK_a$ using GP, PCM and SM models.

	GP		Р	СМ	SM		
	With Cl <sup>-</sup>	Without Cl <sup>-</sup>	With Cl <sup>-</sup>	Without Cl <sup>-</sup>	With Cl <sup>-</sup>	Without Cl <sup>-</sup>	
pK <sub>a1</sub>	-33.7	-99.3	-5.3	3.1	19.5	-33.8	
pK <sub>a2</sub>	8.0	-129.2	-4.8	0.6	74.2	18.2	
pK <sub>a3</sub>	101.4	-76.8	-6.7	10.2	178.9	78.6	
pK <sub>a4</sub>	-	17.6	-	2.9	317.5	178.0	

#### Table S3 The computed pK<sub>a</sub> using GP, PCM and SM models.

### 6. Cartesian coordinates of all the optimized geometries using SM-PCM model.

{[Al(H <sub>2</sub> O) <sub>5</sub>	${}_{5}Cl] \cdot (H_{2}O)_{13}$ <sup>2+</sup> (I)		
A1	0.16033400	-0.08641600	0.03287100
0	0.99794500	1.10253300	1.27828900
0	0.89861100	-1.58999300	0.96401500
0	-1.34325500	-0.14363100	1.27648200
0	-0.77098000	-1.29999400	-1.09005000
0	-0.73664000	1.39017500	-0.82419400
0	3. 27147300	0.49534900	2.42234300
0	0.14501900	3.64690600	1.49106400
0	-0.88264500	-3.60481900	1.32351100
0	3. 48681300	-2.05834000	1.32953700
0	-2.17859100	2.27462700	2.22149400
0	-3.23521000	-2.01957000	1.26718400
0	-4.55798700	-0.59344700	-0.70045400
0	-0.06275100	-3.82587300	-1.34974500
0	0.36412300	3.78216600	-1.24540100
0	-3.35367700	1.89457000	-0.24775300
0	4. 47342500	-2.02831400	-1.16711400
0	2.90649000	3.17421000	-1.83745600
Н	1.86021000	0.88993900	1.74685600
Н	0.78121000	2.06178400	1.37586200
Н	0.31936400	-2.35499100	1.20417400
Н	1.85903100	-1.83589000	1.05059300
Н	-1.61239000	0.65012700	1.79296400
Н	-2.05445600	-0.83361100	1.31678100
Н	-1.45963600	-1.06095100	-1.77652600
Н	-0. 46333400	-2.23549300	-1.25817800
Н	-0. 30602100	2.23976100	-1.10971700
Н	-1.70447200	1.55656600	-0.70073700
Н	3. 51185000	-0.41608800	2.15798200
Н	3. 31439700	0.51905200	3.39322100
Н	-1.78921900	-3.23900200	1.30502500
Н	-0.84715000	-4.21319500	2.08286400
Н	-1.44913900	2.92011300	2.11422800
Н	-2.57941000	2.44129300	3.09309200
Н	0. 21232900	3.98781900	0.57303500
Н	0.59642600	4.29023800	2.06698900
Н	3.97242800	-2.09413800	0.46639100
Н	3. 74999800	-2.84453900	1.83971900
Н	-3.82541000	-1.68249700	0.55579100
Н	-3. 79211900	-2.10837000	2.06212500

Н	-4.32573900	0.33326500	-0.47946000
Н	-5.52685400	-0.62347300	-0.79015000
Н	1. 30296100	3.69420400	-1.55174500
Н	-0.07856100	4.40680300	-1.84705400
Н	5. 34531200	-1.64877600	-1.37066800
Н	3.82337700	-1.40670200	-1.53395100
Н	-0.38291700	-4.19143800	-0.50647300
Н	-0. 44930200	-4.37237700	-2.05476100
Н	-3. 21345200	2.19321100	0.67531900
Н	-3. 77130100	2.63950200	-0.71873600
Н	3. 32037500	3.38261600	-2.69217500
Н	2.86376000	2.20378800	-1.79126000
C1	1.96462500	0.07212800	-1.42223200
Н	-2.84900700	-1.33424300	-3.52520400
0	-2.71141300	-0.74878900	-2.76169800
Н	-3.52211000	-0.79921200	-2.21601700
{[Al(H <sub>2</sub> O)	$_{6}] \cdot (H_{2}O)_{12}Cl \}^{2+}(O)$		
A1	-0.33228600	-0.25467400	-0.41758200
0	-0.97718200	1.28812200	0.52668200
0	1.46398600	0.35265700	-0.23093500
0	-0. 20230200	-1.24273000	1.21724300
0	0.25515800	-1.77657300	-1.40262900
0	-2.14741200	-0.80541300	-0.61619600
0	-0.43901800	0.72026000	-2.09186200
0	-0. 40330400	3.82846000	0.08334500
0	-3.30668800	1.09461800	1.84606400
0	3. 94934200	-2.57043400	0.20075600
0	2.24860900	4.04498300	0.32604300
0	-2.45327400	-1.45809700	2.66272800
0	2.23795500	-1.58667900	2.26981000
0	-0.88352600	-4.09437100	-0.91115500
0	2.77774600	-2.08706200	-2.16104300
0	-3.87123600	1.20300000	-0.93883700
0	-3.10288200	-3.02449500	0.46535800
0	2.28099200	0.55546100	-2.73386900
0	-1.90566200	2.93090500	-2.06285400
Н	-0.69067800	2.23793900	0.42040000
Н	-1.77644700	1.26161500	1.11047100
Н	1.89770700	0.75461200	0.57765000
Н	1.97131000	0.58511800	-1.04700900
Н	-0.94466400	-1.32195700	1.86830700
Н	0.67179700	-1.43380700	1.65231400
Н	-0.18671500	-2.66422400	-1.25914200
Н	1.19822900	-1.93759300	-1.68052800
Н	-2.85563900	-0.14220200	-0.83036200
Н	-2.56065200	-1.65395900	-0.30130200
Н	0.35636700	0.73736700	-2.66069400
Н	-0.94622000	1.57071800	-2.19433500
Н	0.57318200	4.00540000	0.14901800
Н	-0.83147800	4.44236300	0.70774600
Н	3. 41026200	-2.24935900	0.94956400
Н	4.86033600	-2.28704900	0.38427800

Ц	-2 92460700	-0 60540600	2 57025200
11	2. 52400100	1 67022000	2.61206200
	-2.40040100	-1.07928900	1.07262600
Н	-3. 88889800	1. 22430300	1.07302000
H	-3.57810600	1. 75368300	2.51226600
H	2.54728000	3.35865900	0.95466900
H	2.67643200	4.87169500	0.60589600
H	2.30458600	-2.08063700	3. 10839200
H	2. 53743500	-0.67010900	2.46313300
H	-1.70545200	-3.96934800	-0. 40071200
H	-1.11910600	-4.66112600	-1.66626600
Н	-3.38583100	1.93647400	-1.36783900
Н	-4.71332500	1.10901300	-1.42048800
Н	2.68998300	-0.32846300	-2.83081000
Н	2.84497300	1.19519000	-3.20406900
Н	3. 30300700	-2.27305700	-1.33924200
Н	2.96294800	-2.81060600	-2.78580400
Н	-3.07217600	-2.74808900	1.40308400
Н	-4.00394400	-3.35525500	0.29409000
Н	-1.42673300	3. 52449200	-1.44720900
Н	-2.08224900	3. 44280500	-2.87391200
C1	2.85234400	1.48175900	2.16069900
$\{[Al(H_2O)_4Cl_2]$	$(H_2O)_{14}^+(2I)$		
A1	0.04624600	-0.07844200	-0.01173400
0	0.80366900	-1.30735800	1.25133600
0	-1.27424000	0.52346900	1.22613900
0	-0.68262000	1.13384000	-1.29381600
0	1.40280500	-0.58094200	-1.27740100
0	-0.53209400	-1.63124300	3.49346100
0	3. 50693600	-1.65053300	1.10911200
0	-2.06916600	3.04851300	1.10068300
0	-3.25691800	-0.83434500	2.33990100
0	4.81227400	0.66749900	-0.00725200
0	0.10598300	4.37050200	-0.02264700
0	0.95121600	2.90449300	-2.45658500
0	-3.27530100	0.91421700	-1.93879600
0	2.61132100	-2.98165900	-1.12754600
0	3. 19768900	1.19598800	-2.12552800
0	-4.76174400	-0.52647500	0.09592900
0	0.44350200	-4.51888400	-0.72636600
Н	0.32275100	-1.51676200	2.10578400
Н	1.78288400	-1.36307200	1.36603800
Н	-1.55215800	1.48508900	1.20343100
Н	-2.00256600	-0.01149700	1.64117700
Н	-0.15669700	1.80517800	-1.79945400
Н	-1.64490200	1.13257900	-1.54338100
Н	1.80824400	-1.48521800	-1.29943100
Н	2.06616100	0.07157800	-1.63085700
Н	-1.48176800	-1.61882800	3.29993900
Н	-0.31135500	-0.74417500	3.85400900
Н	-1.38356900	3.61573400	0.68297900
Н	-2 30976600	3.48709700	1.93331600
	2.00010000		
Н	4. 39843900	-0. 10179200	0. 43152400

Н	3. 42065700	-2. 30683100	0.38568700
Н	3.99774100	-2.09086900	1.82552800
Н	-3.88211300	-0.78493200	1.57422700
Н	-3.70872600	-0.38932700	3.07801700
Н	0.23166100	4.24815200	-0.97709800
Н	0.69050900	3.68781400	0.35297400
Н	1.83428900	2.49527900	-2.35311400
Н	0.86479100	3.12783900	-3.39993300
Н	1.90307100	-3.65670600	-0.96981100
Н	3.14613100	-3.30061700	-1.87555700
Н	-4.24785300	-0.02635900	-0.56852100
Н	-5.01228300	-1.35595000	-0.34298300
Н	-3.73756700	1.69983100	-2.28107100
Н	-3.23610800	0.25834300	-2.67584500
Н	3.86388200	1.09649900	-1.39796600
Н	3.66407700	0.99698900	-2.95711400
Н	0.35519200	-5.08083400	0.06187600
Н	-0.21899300	-3.81108100	-0.62501300
C1	-1.34398500	-1.81807000	-0.76225700
Н	-3.37678100	-1.72820600	-4.02523900
0	-2.72957800	-1.11006200	-3.64593800
Н	-2.25734100	-1.60898700	-2.95794800
C1	1.47391100	1.62157800	0.86004400
0	0.34937400	0.93343100	4.00268500
Н	1.07825300	1.13510700	4.61308200
Н	0.65778700	1.21929800	3.12544600
11			
{[Al(H <sub>2</sub> O) <sub>5</sub> Cl]	$(H_2O)_{13}Cl^+(1I+1O)$		
	]•(H <sub>2</sub> O) <sub>13</sub> Cl} <sup>+</sup> (1I+1O) −0. 24755400	0.35293300	-0. 41409600
<b>{[Al(H₂O)₅Cl</b> ] Al 0	<b>]·(H<sub>2</sub>O)<sub>13</sub>Cl}<sup>+</sup> (1I+1O)</b> −0. 24755400 −1. 31637000	0. 35293300 -0. 36236000	-0. 41409600 0. 99253700
A1 0 0	<b>]·(H<sub>2</sub>O)<sub>13</sub>Cl}<sup>+</sup> (1I+1O)</b> −0. 24755400 −1. 31637000 −0. 35607800	0. 35293300 -0. 36236000 2. 12693300	-0. 41409600 0. 99253700 0. 31707200
{ <b>[Al(H<sub>2</sub>O)<sub>5</sub>Cl</b> ] A1 0 0 0	<b>['(H<sub>2</sub>O)<sub>13</sub>Cl]<sup>+</sup> (1I+1O)</b> -0. 24755400 -1. 31637000 -0. 35607800 1. 31674100	0. 35293300 -0. 36236000 2. 12693300 0. 02544800	-0. 41409600 0. 99253700 0. 31707200 0. 70587900
<b>[[Al(H₂O)₅Cl</b> ] A1 0 0 0 0	<b>['(H<sub>2</sub>O)<sub>13</sub>Cl]<sup>+</sup> (1I+1O)</b> -0. 24755400 -1. 31637000 -0. 35607800 1. 31674100 0. 91370500	0.35293300 -0.36236000 2.12693300 0.02544800 1.05808900	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500
<b>{[Al(H₂O)₅Cl</b> ] A1 0 0 0 0 0 0	<b>['(H<sub>2</sub>O)<sub>13</sub>Cl]<sup>+</sup> (1I+1O)</b> -0. 24755400 -1. 31637000 -0. 35607800 1. 31674100 0. 91370500 0. 03835000	0.35293300 -0.36236000 2.12693300 0.02544800 1.05808900 -1.40113900	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500
<b>{[Al(H<sub>2</sub>O)<sub>5</sub>Cl]</b> A1 0 0 0 0 0 0 0 0	$\begin{array}{l} \textbf{(H_2O)_{13}Cl}^+ \textbf{(1I+1O)} \\ & -0.\ 24755400 \\ & -1.\ 31637000 \\ & -0.\ 35607800 \\ & 1.\ 31674100 \\ & 0.\ 91370500 \\ & 0.\ 03835000 \\ & -1.\ 61065500 \end{array}$	0.35293300 -0.36236000 2.12693300 0.02544800 1.05808900 -1.40113900 0.66430500	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000
<b>[[Al(H₂O)₅Cl</b> ] A1 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \textbf{(H_2O)_{13}Cl}^+ \textbf{(1I+1O)} \\ & -0.\ 24755400 \\ & -1.\ 31637000 \\ & -0.\ 35607800 \\ & 1.\ 31674100 \\ & 0.\ 91370500 \\ & 0.\ 03835000 \\ & -1.\ 61065500 \\ & -1.\ 73003400 \end{array}$	0.35293300 -0.36236000 2.12693300 0.02544800 1.05808900 -1.40113900 0.66430500 -3.03237800	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000 1. 13999900
<b>[</b> [ <b>A</b> ]( <b>H</b> <sub>2</sub> <b>O</b> )₅ <b>C</b> ] A1 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \textbf{(H_2O)_{13}Cl}^+ \textbf{(1I+1O)} \\ & -0.\ 24755400 \\ & -1.\ 31637000 \\ & -0.\ 35607800 \\ & 1.\ 31674100 \\ & 0.\ 91370500 \\ & 0.\ 03835000 \\ & -1.\ 61065500 \\ & -1.\ 73003400 \\ & 2.\ 03558700 \end{array}$	0.35293300 -0.36236000 2.12693300 0.02544800 1.05808900 -1.40113900 0.66430500 -3.03237800 3.44492500	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000 1. 13999900 0. 24658400
<b>{[Al(H₂O)₅Cl</b> ] A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \textbf{(H_2O)_{13}Cl}^+ \textbf{(1I+1O)} \\ & -0.\ 24755400 \\ & -1.\ 31637000 \\ & -0.\ 35607800 \\ & 1.\ 31674100 \\ & 0.\ 91370500 \\ & 0.\ 03835000 \\ & -1.\ 61065500 \\ & -1.\ 61065500 \\ & -1.\ 73003400 \\ & 2.\ 03558700 \\ & -2.\ 30156500 \end{array}$	$\begin{array}{c} 0.\ 35293300\\ -0.\ 36236000\\ 2.\ 12693300\\ 0.\ 02544800\\ 1.\ 05808900\\ -1.\ 40113900\\ 0.\ 66430500\\ -3.\ 03237800\\ 3.\ 44492500\\ 2.\ 98986100 \end{array}$	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000 1. 13999900 0. 24658400 1. 88228600
<b>[</b> [ <b>A</b> ]( <b>H</b> <sub>2</sub> <b>O</b> )₅ <b>C</b> ] A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \textbf{(H_2O)_{13}Cl}^+ \textbf{(1I+1O)} \\ & -0.\ 24755400 \\ & -1.\ 31637000 \\ & -0.\ 35607800 \\ & 1.\ 31674100 \\ & 0.\ 91370500 \\ & 0.\ 03835000 \\ & -1.\ 61065500 \\ & -1.\ 73003400 \\ & 2.\ 03558700 \\ & -2.\ 30156500 \\ & 0.\ 99351200 \end{array}$	0.35293300 -0.36236000 2.12693300 0.02544800 1.05808900 -1.40113900 0.66430500 -3.03237800 3.44492500 2.98986100 -3.29240900	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000 1. 13999900 0. 24658400 1. 88228600 2. 10034100
<b>[</b> [ <b>A</b> ]( <b>H</b> <sub>2</sub> <b>O</b> )₅ <b>C</b> ] A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \textbf{(H_2O)_{13}Cl}^+ \textbf{(1I+1O)} \\ & -0.\ 24755400 \\ & -1.\ 31637000 \\ & -0.\ 35607800 \\ & 1.\ 31674100 \\ & 0.\ 91370500 \\ & 0.\ 03835000 \\ & -1.\ 61065500 \\ & -1.\ 61065500 \\ & -1.\ 73003400 \\ & 2.\ 03558700 \\ & -2.\ 30156500 \\ & 0.\ 99351200 \\ & 3.\ 72726000 \end{array}$	0. 35293300 -0. 36236000 2. 12693300 0. 02544800 1. 05808900 -1. 40113900 0. 66430500 -3. 03237800 3. 44492500 2. 98986100 -3. 29240900 1. 13881200	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000 1. 13999900 0. 24658400 1. 88228600 2. 10034100 0. 30384500
<b>[AI</b> ( <b>H</b> <sub>2</sub> <b>O</b> ) <sub>5</sub> <b>CI</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \textbf{(H_2O)_{13}Cl}^+ \textbf{(1I+1O)} \\ & -0.\ 24755400 \\ & -1.\ 31637000 \\ & -0.\ 35607800 \\ & 1.\ 31674100 \\ & 0.\ 91370500 \\ & 0.\ 03835000 \\ & -1.\ 61065500 \\ & -1.\ 61065500 \\ & -1.\ 61065500 \\ & -2.\ 30156500 \\ & 0.\ 99351200 \\ & 3.\ 72726000 \\ & 4.\ 13053200 \end{array}$	$\begin{array}{c} 0.\ 35293300\\ -0.\ 36236000\\ 2.\ 12693300\\ 0.\ 02544800\\ 1.\ 05808900\\ -1.\ 40113900\\ 0.\ 66430500\\ -3.\ 03237800\\ 3.\ 44492500\\ 2.\ 98986100\\ -3.\ 29240900\\ 1.\ 13881200\\ -1.\ 15056800 \end{array}$	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000 1. 13999900 0. 24658400 1. 88228600 2. 10034100 0. 30384500 -1. 21979900
<b>[</b> [ <b>A</b> ]( <b>H</b> <sub>2</sub> <b>O</b> )₅ <b>C</b> ] A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \textbf{(H_2O)_{13}Cl}^+ \textbf{(1I+1O)} \\ & -0.\ 24755400 \\ & -1.\ 31637000 \\ & -0.\ 35607800 \\ & 1.\ 31674100 \\ & 0.\ 91370500 \\ & 0.\ 03835000 \\ & -1.\ 61065500 \\ & -1.\ 61065500 \\ & -1.\ 73003400 \\ & 2.\ 03558700 \\ & -2.\ 30156500 \\ & 0.\ 99351200 \\ & 3.\ 72726000 \\ & 4.\ 13053200 \\ & 1.\ 09644900 \end{array}$	$\begin{array}{c} 0.\ 35293300\\ -0.\ 36236000\\ 2.\ 12693300\\ 0.\ 02544800\\ 1.\ 05808900\\ -1.\ 40113900\\ 0.\ 66430500\\ -3.\ 03237800\\ 3.\ 44492500\\ 2.\ 98986100\\ -3.\ 29240900\\ 1.\ 13881200\\ -1.\ 15056800\\ 3.\ 61670000\\ \end{array}$	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000 1. 13999900 0. 24658400 1. 88228600 2. 10034100 0. 30384500 -1. 21979900 -2. 38124000
<b>[AI</b> ( <b>H</b> <sub>2</sub> <b>O</b> ) <sub>5</sub> <b>CI</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \textbf{(H_2O)_{13}Cl}^+ \textbf{(1I+1O)} \\ & -0.\ 24755400 \\ & -1.\ 31637000 \\ & -0.\ 35607800 \\ & 1.\ 31674100 \\ & 0.\ 91370500 \\ & 0.\ 03835000 \\ & -1.\ 61065500 \\ & -1.\ 61065500 \\ & -1.\ 73003400 \\ & 2.\ 03558700 \\ & -2.\ 30156500 \\ & 0.\ 99351200 \\ & 3.\ 72726000 \\ & 4.\ 13053200 \\ & 1.\ 09644900 \\ & -1.\ 82841900 \end{array}$	$\begin{array}{c} 0.\ 35293300\\ -0.\ 36236000\\ 2.\ 12693300\\ 0.\ 02544800\\ 1.\ 05808900\\ -1.\ 40113900\\ 0.\ 66430500\\ -3.\ 03237800\\ 3.\ 44492500\\ 2.\ 98986100\\ -3.\ 29240900\\ 1.\ 13881200\\ -1.\ 15056800\\ 3.\ 61670000\\ -3.\ 27907100\end{array}$	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 3. 34831000 1. 13999900 0. 24658400 1. 88228600 2. 10034100 0. 30384500 -1. 21979900 -2. 38124000 -1. 60431700
<b>[AI</b> ( <b>H</b> <sub>2</sub> <b>O</b> ) <sub>5</sub> <b>CI</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \left(\mathbf{H_2O}\right)_{13} \mathbf{Cl} \right\}^+ \left(\mathbf{1I+1O}\right) \\ -0. \ 24755400 \\ -1. \ 31637000 \\ -0. \ 35607800 \\ 1. \ 31674100 \\ 0. \ 91370500 \\ 0. \ 91370500 \\ 0. \ 03835000 \\ -1. \ 61065500 \\ -1. \ 61065500 \\ -1. \ 73003400 \\ 2. \ 03558700 \\ -2. \ 30156500 \\ 0. \ 99351200 \\ 3. \ 72726000 \\ 4. \ 13053200 \\ 1. \ 09644900 \\ -1. \ 82841900 \\ 2. \ 11944700 \end{array}$	$\begin{array}{c} 0.\ 35293300\\ -0.\ 36236000\\ 2.\ 12693300\\ 0.\ 02544800\\ 1.\ 05808900\\ -1.\ 40113900\\ 0.\ 66430500\\ -3.\ 03237800\\ 3.\ 44492500\\ 2.\ 98986100\\ -3.\ 29240900\\ 1.\ 13881200\\ -1.\ 15056800\\ 3.\ 61670000\\ -3.\ 27907100\\ -2.\ 88178200 \end{array}$	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000 1. 13999900 0. 24658400 1. 88228600 2. 10034100 0. 30384500 -1. 21979900 -2. 38124000 -1. 60431700 -0. 31723000
<b>[AI</b> ( <b>H</b> <sub>2</sub> <b>O</b> ) <sub>5</sub> <b>CI</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \textbf{(H_2O)_{13}Cl}^+ \textbf{(1I+1O)} \\ & -0.\ 24755400 \\ & -1.\ 31637000 \\ & -0.\ 35607800 \\ & 1.\ 31674100 \\ & 0.\ 91370500 \\ & 0.\ 91370500 \\ & 0.\ 03835000 \\ & -1.\ 61065500 \\ & -1.\ 61065500 \\ & -1.\ 73003400 \\ & 2.\ 03558700 \\ & -2.\ 30156500 \\ & 0.\ 99351200 \\ & 3.\ 72726000 \\ & 4.\ 13053200 \\ & 1.\ 09644900 \\ & -1.\ 82841900 \\ & 2.\ 11944700 \\ & -4.\ 29370700 \end{array}$	$\begin{array}{c} 0.\ 35293300\\ -0.\ 36236000\\ 2.\ 12693300\\ 0.\ 02544800\\ 1.\ 05808900\\ -1.\ 40113900\\ 0.\ 66430500\\ -3.\ 03237800\\ 3.\ 44492500\\ 2.\ 98986100\\ -3.\ 29240900\\ 1.\ 13881200\\ -1.\ 15056800\\ 3.\ 61670000\\ -3.\ 27907100\\ -2.\ 88178200\\ 2.\ 06065900\\ \end{array}$	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000 1. 13999900 0. 24658400 1. 88228600 2. 10034100 0. 30384500 -1. 21979900 -2. 38124000 -1. 60431700 -0. 31723000 0. 31490500
<b>[AI(H<sub>2</sub>O)<sub>5</sub>CI</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \textbf{(H_2O)_{13}Cl}^+ \textbf{(1I+1O)} \\ & -0.\ 24755400 \\ & -1.\ 31637000 \\ & -0.\ 35607800 \\ & 1.\ 31674100 \\ & 0.\ 91370500 \\ & 0.\ 91370500 \\ & 0.\ 0.\ 93835000 \\ & -1.\ 61065500 \\ & -1.\ 61065500 \\ & -1.\ 73003400 \\ & 2.\ 03558700 \\ & -2.\ 30156500 \\ & 0.\ 99351200 \\ & 3.\ 72726000 \\ & 4.\ 13053200 \\ & 1.\ 09644900 \\ & -1.\ 82841900 \\ & 2.\ 11944700 \\ & -4.\ 29370700 \\ & -3.\ 94208600 \end{array}$	$\begin{array}{c} 0.\ 35293300\\ -0.\ 36236000\\ 2.\ 12693300\\ 0.\ 02544800\\ 1.\ 05808900\\ -1.\ 40113900\\ 0.\ 66430500\\ -3.\ 03237800\\ 3.\ 44492500\\ 2.\ 98986100\\ -3.\ 29240900\\ 1.\ 13881200\\ -1.\ 15056800\\ 3.\ 61670000\\ -3.\ 27907100\\ -2.\ 88178200\\ 2.\ 06065900\\ -1.\ 93298200\end{array}$	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 3. 34831000 1. 13999900 0. 24658400 1. 88228600 2. 10034100 0. 30384500 -1. 21979900 -2. 38124000 -1. 60431700 -0. 31723000 0. 31490500 -2. 56296900
<b>{</b> [ <b>A</b> ]( <b>H</b> <sub>2</sub> <b>O</b> )₅ <b>C</b> ] A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \left(\mathbf{H_2O}\right)_{13} \mathbf{Cl} \right\}^+ \left(\mathbf{1I+1O}\right) \\ \begin{array}{r} -0.\ 24755400 \\ -1.\ 31637000 \\ -0.\ 35607800 \\ 1.\ 31674100 \\ 0.\ 91370500 \\ 0.\ 91370500 \\ 0.\ 03835000 \\ -1.\ 61065500 \\ -1.\ 73003400 \\ 2.\ 03558700 \\ -2.\ 30156500 \\ 0.\ 99351200 \\ 3.\ 72726000 \\ 4.\ 13053200 \\ 1.\ 09644900 \\ -1.\ 82841900 \\ 2.\ 11944700 \\ -4.\ 29370700 \\ -3.\ 94208600 \\ -1.\ 44988500 \end{array}$	$\begin{array}{c} 0.\ 35293300\\ -0.\ 36236000\\ 2.\ 12693300\\ 0.\ 02544800\\ 1.\ 05808900\\ -1.\ 40113900\\ 0.\ 66430500\\ -3.\ 03237800\\ 3.\ 44492500\\ 2.\ 98986100\\ -3.\ 29240900\\ 1.\ 13881200\\ -1.\ 15056800\\ 3.\ 61670000\\ -3.\ 27907100\\ -2.\ 88178200\\ 2.\ 06065900\\ -1.\ 93298200\\ 0.\ 04611100\end{array}$	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 3. 34831000 1. 13999900 0. 24658400 1. 88228600 2. 10034100 0. 30384500 -1. 21979900 -2. 38124000 -1. 60431700 -0. 31723000 0. 31490500 -2. 56296900 1. 90691100
<b>[AI</b> ( <b>H</b> <sub>2</sub> <b>O</b> ) <sub>5</sub> <b>CI</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \mathbf{(H_2O)_{13}Cl}^+ (\mathbf{1I+1O}) \\ & -0.\ 24755400 \\ & -1.\ 31637000 \\ & -0.\ 35607800 \\ & 1.\ 31674100 \\ & 0.\ 91370500 \\ & 0.\ 91370500 \\ & 0.\ 91370500 \\ & 0.\ 91370500 \\ & 0.\ 91370500 \\ & -1.\ 61065500 \\ & -1.\ 61065500 \\ & -1.\ 73003400 \\ & 2.\ 03558700 \\ & -2.\ 30156500 \\ & 0.\ 99351200 \\ & 3.\ 72726000 \\ & 4.\ 13053200 \\ & 1.\ 09644900 \\ & -1.\ 82841900 \\ & 2.\ 11944700 \\ & -4.\ 29370700 \\ & -3.\ 94208600 \\ & -1.\ 44988500 \\ & -1.\ 53306600 \end{array}$	$\begin{array}{c} 0.\ 35293300\\ -0.\ 36236000\\ 2.\ 12693300\\ 0.\ 02544800\\ 1.\ 05808900\\ -1.\ 40113900\\ 0.\ 66430500\\ -3.\ 03237800\\ 3.\ 44492500\\ 2.\ 98986100\\ -3.\ 29240900\\ 1.\ 13881200\\ -1.\ 15056800\\ 3.\ 61670000\\ -3.\ 27907100\\ -2.\ 88178200\\ 2.\ 06065900\\ -1.\ 93298200\\ 0.\ 04611100\\ -1.\ 32648100\end{array}$	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000 1. 13999900 0. 24658400 1. 88228600 2. 10034100 0. 30384500 -1. 21979900 -2. 38124000 -1. 60431700 -0. 31723000 0. 31490500 -2. 56296900 1. 90691100 1. 03868500
<b>[AI</b> ( <b>H</b> <sub>2</sub> <b>O</b> ) <sub>5</sub> <b>CI</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \left(\mathbf{H_2O}\right)_{13} \mathbf{Cl} \right\}^+ \left(\mathbf{1I+1O}\right) \\ \begin{array}{l} -0.\ 24755400 \\ -1.\ 31637000 \\ -0.\ 35607800 \\ 1.\ 31674100 \\ 0.\ 91370500 \\ 0.\ 91370500 \\ 0.\ 91370500 \\ 0.\ 91370500 \\ -1.\ 61065500 \\ -1.\ 61065500 \\ -1.\ 73003400 \\ 2.\ 03558700 \\ -2.\ 30156500 \\ 0.\ 99351200 \\ 3.\ 72726000 \\ 4.\ 13053200 \\ 1.\ 09644900 \\ -1.\ 82841900 \\ 2.\ 11944700 \\ -4.\ 29370700 \\ -3.\ 94208600 \\ -1.\ 44988500 \\ -1.\ 53306600 \\ 0.\ 47510200 \end{array}$	$\begin{array}{c} 0.\ 35293300\\ -0.\ 36236000\\ 2.\ 12693300\\ 0.\ 02544800\\ 1.\ 05808900\\ -1.\ 40113900\\ 0.\ 66430500\\ -3.\ 03237800\\ 3.\ 44492500\\ 2.\ 98986100\\ -3.\ 29240900\\ 1.\ 13881200\\ -1.\ 15056800\\ 3.\ 61670000\\ -3.\ 27907100\\ -2.\ 88178200\\ 2.\ 06065900\\ -1.\ 93298200\\ 0.\ 04611100\\ -1.\ 32648100\\ 2.\ 65046700\\ \end{array}$	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000 1. 13999900 0. 24658400 1. 88228600 2. 10034100 0. 30384500 -1. 21979900 -2. 38124000 -1. 60431700 -0. 31723000 0. 31490500 -2. 56296900 1. 90691100 1. 03868500 0. 41728900
<b>{[Al(H<sub>2</sub>O)<sub>5</sub>Cl]</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \left(\mathbf{H_2O}\right)_{13} \mathbf{Cl} \right\}^+ \left(\mathbf{1I+1O}\right) \\ \begin{array}{l} -0.\ 24755400 \\ -1.\ 31637000 \\ -0.\ 35607800 \\ 1.\ 31674100 \\ 0.\ 91370500 \\ 0.\ 0.\ 91370500 \\ 0.\ 0.\ 91370500 \\ 0.\ 0.\ 0.\ 935500 \\ -1.\ 61065500 \\ -1.\ 73003400 \\ 2.\ 03558700 \\ -2.\ 30156500 \\ 0.\ 99351200 \\ 3.\ 72726000 \\ 4.\ 13053200 \\ 1.\ 09644900 \\ -1.\ 82841900 \\ 2.\ 11944700 \\ -4.\ 29370700 \\ -3.\ 94208600 \\ -1.\ 44988500 \\ -1.\ 53306600 \\ 0.\ 47510200 \\ -1.\ 08090900 \end{array}$	0.35293300 - $0.36236000$ 2.12693300 0.02544800 1.05808900 - $1.40113900$ 0.66430500 - $3.03237800$ 3.44492500 2.98986100 - $3.29240900$ 1.13881200 - $1.15056800$ 3.61670000 - $3.27907100$ - $2.88178200$ 2.06065900 - $1.93298200$ 0.04611100 - $1.32648100$ 2.65046700 2.51433700	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000 1. 13999900 0. 24658400 1. 88228600 2. 10034100 0. 30384500 -1. 21979900 -2. 38124000 -1. 60431700 -0. 31723000 0. 31490500 -2. 56296900 1. 90691100 1. 03868500 0. 41728900 0. 88313600
<b>[</b> [ <b>A</b> ]( <b>H</b> <sub>2</sub> <b>O</b> )₅ <b>C</b> ] A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \left(\mathbf{H_2O}\right)_{13} \mathbf{Cl} \right\}^+ \left(\mathbf{1I+1O}\right) \\ \begin{array}{c} -0.\ 24755400 \\ -1.\ 31637000 \\ -0.\ 35607800 \\ 1.\ 31674100 \\ 0.\ 91370500 \\ 0.\ 91370500 \\ 0.\ 91370500 \\ 0.\ 91370500 \\ -1.\ 61065500 \\ -1.\ 73003400 \\ 2.\ 03558700 \\ -2.\ 30156500 \\ 0.\ 99351200 \\ 3.\ 72726000 \\ 4.\ 13053200 \\ 1.\ 09644900 \\ -1.\ 82841900 \\ 2.\ 11944700 \\ -4.\ 29370700 \\ -3.\ 94208600 \\ -1.\ 44988500 \\ -1.\ 53306600 \\ 0.\ 47510200 \\ -1.\ 08090900 \\ 1.\ 24254800 \end{array}$	$\begin{array}{c} 0.\ 35293300\\ -0.\ 36236000\\ 2.\ 12693300\\ 0.\ 02544800\\ 1.\ 05808900\\ -1.\ 40113900\\ 0.\ 66430500\\ -3.\ 03237800\\ 3.\ 44492500\\ 2.\ 98986100\\ -3.\ 29240900\\ 1.\ 13881200\\ -1.\ 15056800\\ 3.\ 61670000\\ -3.\ 27907100\\ -2.\ 88178200\\ 2.\ 06065900\\ -1.\ 93298200\\ 0.\ 04611100\\ -1.\ 32648100\\ 2.\ 65046700\\ 2.\ 51433700\\ -0.\ 18305700\\ \end{array}$	$\begin{array}{c} -0.\ 41409600\\ 0.\ 99253700\\ 0.\ 31707200\\ 0.\ 70587900\\ -1.\ 73805500\\ -1.\ 73805500\\ 3.\ 34831000\\ 1.\ 13999900\\ 0.\ 24658400\\ 1.\ 88228600\\ 2.\ 10034100\\ 0.\ 30384500\\ -1.\ 21979900\\ -2.\ 38124000\\ -1.\ 60431700\\ -0.\ 31723000\\ 0.\ 31490500\\ -2.\ 56296900\\ 1.\ 90691100\\ 1.\ 03868500\\ 0.\ 41728900\\ 0.\ 88313600\\ 1.\ 67474000\\ \end{array}$
<b>[Al(H<sub>2</sub>O)<sub>5</sub>Cl)</b> Al 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \left(\mathbf{H_2O}\right)_{13}\mathbf{Cl}\right)^+ \left(\mathbf{1I+1O}\right) \\ & -0.\ 24755400 \\ & -1.\ 31637000 \\ & -0.\ 35607800 \\ & 1.\ 31674100 \\ & 0.\ 91370500 \\ & 0.\ 91370500 \\ & 0.\ 91370500 \\ & 0.\ 91370500 \\ & -1.\ 61065500 \\ & -1.\ 73003400 \\ & 2.\ 03558700 \\ & -2.\ 30156500 \\ & 0.\ 99351200 \\ & 3.\ 72726000 \\ & 4.\ 13053200 \\ & 1.\ 09644900 \\ & -1.\ 82841900 \\ & 2.\ 11944700 \\ & -4.\ 29370700 \\ & -3.\ 94208600 \\ & -1.\ 53306600 \\ & 0.\ 47510200 \\ & -1.\ 08090900 \\ & 1.\ 24254800 \\ & 2.\ 19423500 \end{array}$	0.35293300 - $0.36236000$ 2.12693300 0.02544800 1.05808900 - $1.40113900$ 0.66430500 - $3.03237800$ 3.44492500 2.98986100 - $3.29240900$ 1.13881200 - $1.15056800$ 3.61670000 - $3.27907100$ - $2.88178200$ 2.06065900 - $1.93298200$ 0.04611100 - $1.32648100$ 2.65046700 2.51433700 - $0.18305700$ 0.46393800	$\begin{array}{c} -0.\ 41409600\\ 0.\ 99253700\\ 0.\ 31707200\\ 0.\ 70587900\\ -1.\ 73805500\\ -1.\ 73805500\\ 3.\ 34831000\\ 1.\ 13999900\\ 0.\ 24658400\\ 1.\ 88228600\\ 2.\ 10034100\\ 0.\ 30384500\\ -1.\ 21979900\\ -2.\ 38124000\\ -1.\ 60431700\\ -0.\ 31723000\\ 0.\ 31490500\\ -2.\ 56296900\\ 1.\ 90691100\\ 1.\ 03868500\\ 0.\ 41728900\\ 0.\ 88313600\\ 1.\ 67474000\\ 0.\ 57364800\\ \end{array}$
<b>[AI(H<sub>2</sub>O)<sub>5</sub>CI)</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{l} \left(\mathbf{H_2O}\right)_{13} \mathbf{Cl} \right)^+ \left(\mathbf{1I+1O}\right) \\ \begin{array}{l} -0.\ 24755400 \\ -1.\ 31637000 \\ -0.\ 35607800 \\ 1.\ 31674100 \\ 0.\ 91370500 \\ 0.\ 91370500 \\ 0.\ 91370500 \\ 0.\ 91370500 \\ -1.\ 61065500 \\ -1.\ 73003400 \\ 2.\ 03558700 \\ -2.\ 30156500 \\ 0.\ 99351200 \\ 3.\ 72726000 \\ 4.\ 13053200 \\ 1.\ 09644900 \\ -1.\ 82841900 \\ 2.\ 11944700 \\ -4.\ 29370700 \\ -3.\ 94208600 \\ -1.\ 44988500 \\ -1.\ 44988500 \\ -1.\ 53306600 \\ 0.\ 47510200 \\ -1.\ 08090900 \\ 1.\ 24254800 \\ 2.\ 19423500 \\ 1.\ 46504900 \end{array}$	0.35293300 - $0.36236000$ 2.12693300 0.02544800 1.05808900 - $1.40113900$ 0.66430500 - $3.03237800$ 3.44492500 2.98986100 - $3.29240900$ 1.13881200 - $1.15056800$ 3.61670000 - $2.88178200$ 2.06065900 - $1.93298200$ 0.04611100 - $1.32648100$ 2.65046700 2.51433700 - $0.18305700$ 0.46393800 0.50414800	-0. 41409600 0. 99253700 0. 31707200 0. 70587900 -1. 73805500 -1. 14965500 3. 34831000 1. 13999900 0. 24658400 1. 88228600 2. 10034100 0. 30384500 -1. 21979900 -2. 38124000 -1. 60431700 -0. 31723000 0. 31490500 -2. 56296900 1. 90691100 1. 03868500 0. 41728900 0. 88313600 1. 67474000 0. 57364800 -2. 36349800

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Н	-0.67029900	-2. 02791000	-1.44403600
Н	0.82613300	-1.93913100	-0.86465600
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Н	-0.71854700	0.53253700	3.72527800
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Н	0.04376700	-3.31032700	1.88216100
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Н	-2.36750400	3.94109600	2.07637100
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Н	4.33248800	1.15364400	1.06769900
Н	3.55401700	-1.82032500	-0.79226600
Н	5.00194200	-1.56890300	-1.33511600
Н	-2.64194100	-2.91848600	-2.03918800
Н	-1.56227100	-4.07060500	-2.10495200
Н	-4.96023500	1.45347800	0.67872800
Н	-3.78712000	1.54076400	-0.33416200
Н	1.56475200	3.91097700	-1.57898800
Н	1.64688800	3.88627100	-3.13583000
Н	1.82682100	-3.07137300	0.61381600
Н	2,21230800	-3.74805900	-0.75374600
Н	-4.26626700	-1.99955400	-3.47728300
Н	-3.57911000	-1.03564100	-2.47408700
C1	-2.14408100	0.67383600	-1.73473000
Н	2.25416700	-0.92900300	-3.91105500
0	2,55977300	-0.23007800	-3.30897900
Н	3.22548800	-0.64055000	-2.71877700
C1	1.30004400	-0.53350000	3.71187500
${[Al(H_2O)_6]} \cdot (H_2O)_6$	$H_2O)_{12}Cl_2\}^+(2O)$		
A1	-0.00096300	-0.00149300	0.00125900
0	-1.86530600	0.28454300	0.27430100
0	-0. 30203500	-0.64537400	-1.79061200
0	0.15912600	1.76520200	-0.69348500
0	1.86485600	-0.29252600	-0.26921500
0	0.30388200	0.64987700	1.79119300
0	-0.15743200	-1.76637600	0.70135400
0	-4.49339800	-2.73937000	0.04229900
0	-4.15290400	3.01409300	-0.15916900
0	2.14333500	0.26978300	-2.86462600
0	0.18389800	-3.15521100	-2.28348900
0	-1.55338500	3.69871700	-0.09015000
0	2.39151100	2.76327100	-1.70981400
0	4.50290200	2.72638700	-0.04961400
0	4.15119900	-2.99493200	0.12910700
0	-2.14660100	-0.26982400	2.86801900
0	-0.19024500	3.16327700	2.28804100
0	1.55650000	-3.69555500	0.08346100
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		0	0.00010.00

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Н	-0.52746100	2.47424500	-0.55517600
Н	1.00144000	2.18347600	-1.02598500
Н	2.20042600	-0.22808800	-1.19586400
Н	2.62268000	-0.18370600	0.37467200
Н	-0.20501200	0.20018500	2.49345200
Н	0.21582600	1.63649700	1.97158900
Н	0.52733700	-2.47573700	0.55572500
Н	-0.99898400	-2.18620100	1.03354600
Н	-5.38473300	-2.88559800	0.40043800
Н	-4.53768500	-1.88889500	-0.44245800
Н	2.39000900	1.21547100	-2.82130800
Н	2.65643400	-0.13268500	-3.58708900
Н	-2.52035900	3.47720900	-0.13520900
Н	-1.44169000	4.53868000	-0.56985800
Н	-4.80324700	3.63461500	-0.52789900
Н	-4. 32574400	2.15200500	-0.58924100
Н	0.68133600	-3.56798100	-1.54892700
Н	-0. 48047800	-3.80188300	-2.57493600
Н	3.19844000	2.78595700	-1.13118600
Н	2.32482500	3.63652600	-2.13481100
Н	5.39324600	2.86066300	-0.41480600
Н	4.54216600	1.87919200	0.44167000
Н	-2.39568600	-1.21475900	2.82635800
Н	-2.66461500	0.13601700	3.58494100
Н	2.52258100	-3.46865700	0.12062800
Н	1.45257100	-4.53656100	0.56319400
Н	4.82151400	-3.61704300	0.45680300
Н	4.32974400	-2.14084600	0.57286800
Н	-0.68308100	3.57197600	1.54829200
Н	0.47414200	3.81096500	2.57770800
Н	-3.19389000	-2.79674700	1.13234000
Н	-2.32488400	-3.63980900	2.14527700
C1	-4.34448400	0.08565600	-1.39134900
C1	4.34027300	-0.08732800	1.40287900
${[AI(H_2O)_3CI_3]}$	$H_2O_{15}^{(31)}$	0 02742400	0 04749000
0	-1 68055200	-0.03743400	-0.10275000
0	-0.54113800	-1 04914600	1 56384100
0	1 85559000	-0.68423300	0 41779500
0	2 2/922100	<i>4</i> 04773100	-1 97470400
0	3 55257600	-0.65870300	-2 67864100
0	-3 89473200	-0.89723500	0.37555600
0	-3.06096300	2 73514100	-0.35694700
0	2 55952400	-3 21655300	-2 00679000
0	-3 19688900	-3 37937100	-0 48304300
0 0	1, 09380600	-2,49971200	3, 00945400
0	-2.85020100	-0.22414400	2,80937100
0	4. 11070300	0. 60863100	-0.16235400
0	2. 79448700	-3. 16790700	0.69796600
0	-2.57648400	2.60625200	2.40450100
0	3. 38664400	3. 14182900	0.38135000

II	9 46907700	0 07555200	0 00005700
H	-2. 46297700	-0.07555300	-0.00095700
H	-2.04807500	1. 44390600	-0.33417100
H	0.04682900	-1.64772500	2.11345300
H	-1.31440700	-0.75227200	2.09893600
H	2.67491600	-0. 14912500	0.22889700
Н	2.14565800	-1.62757200	0.53354700
Н	1.68680400	4.83944700	-2.00408300
Н	1.64093000	3. 29104000	-2.02973400
Н	-3.79421700	-1.83424900	0.08361300
Н	-4.50759500	-0.44579300	-0.23951400
Н	2.98985400	-2.37909700	-2.28600000
Н	1.61168800	-3.00289900	-2.02869600
Н	3. 90815000	-0.22186200	-1.88248800
Н	2.73081400	-0.17223900	-2.84749600
Н	-3.15470200	2.83020800	0.61325600
Н	-3.87553000	2.32108200	-0.69602200
Н	-3.15629700	-4.11906300	0.14610400
Н	-2.27231900	-3.16839300	-0.70484600
Н	1.68541400	-2.98026000	2.40815400
Н	1.61549000	-1.75334100	3.37941700
Н	3.94842200	1.57838400	-0.01508400
Н	4.89110800	0.37417600	0.36940600
Н	-2.75386500	1.68309500	2.66593100
Н	-1.61511900	2.61588000	2.26912100
Н	-3. 48412500	-0.52856700	2.12647200
Н	-3.13509800	-0.61426900	3.65425000
Н	2.78611400	-3.37521400	-0.27029200
Н	3.72482900	-3.22882600	0.97820600
Н	3.06979400	3. 58593000	-0.43447100
Н	2,56865700	2.92175600	0.85834800
C1	0.56386600	1.81654400	1.51164800
Н	2,06921500	0.27460300	4.65508400
0	2,20335300	-0.09001100	3.76452500
Н	1.77002700	0.53658300	3.15976800
C1	-0.39655500	-1.95878800	-1.33810700
0	-2.84303400	-0.31347700	-3.23766200
Н	-2.10213700	-0.66761900	-2.71960200
Н	-2.43091300	0.24485200	-3.91791700
C1	0.78608200	1.13899900	-1.82201300
Н	-4.17973700	0.45396000	-2.28383000
0	-4.79228500	0.81867500	-1.60638500
Ĥ	-5.65581700	0. 92075700	-2.03998300
{[Al(H <sub>2</sub> O) <sub>4</sub> Cl <sub>2</sub> ]	·(H <sub>2</sub> O) <sub>14</sub> Cl} <sup>0</sup> (2I+1O)		
A1	-0.09681300	-0.31477800	-0.47584800
0	1.62344400	0.51128200	-0.37694200
0	-0.74862600	0.89265100	0.94663200
0	-1.80283900	-1.14166200	-0.69698200
0	0.66218400	-1.53990300	-1.78242300
0	4.67433900	-1.08730200	0.04962400
0	2.06966600	3.87062700	0.03998100
0	-3.71055600	-2.62304700	2.34861700
0	3.35585900	-3.08920000	1.43154500
0	-0.61725400	3. 59703600	0.64418800

0	-3 44784600	0 09473600	2 02250600
0	-4 69684000	1 50833800	-0.02120300
0	-257847200	-3 55636700	0.02120300
0	2.87786600	1 63785400	-2 $41866700$
0	-3, 27714200	3 80308500	-0.36625700
0	-0.18627200	-4 06587600	-1 46042200
0	-0.18037200	-4.00387000 -1.13402500	-1.40942300 -2.21027700
U	3.32099400 2.17066200	-1.13402500	-2. 31937700
п	2.17000300	1.051694100	1 12007200
п	1. 97071300	1.05102500	-1.13907200
п	-0.79004600	1.00009700	1 20007200
п	-0.23711000	0.07121200	1.00907000
п	-2. 50852600		-1.27138900
H	-2.07677700	-2.04703400	-0.38700800
H	0.39574800	-2. 49511400	-1.71546300
H	1. 62889600	-1.47854500	-1.97389000
H	4. 28581700	-1.82608800	0.56773200
H	4. 45908600	-0.28528000	0.55674600
H	-3.65411300	-1.64294500	2.25087700
H	-3. 33777200	-2.82631500	3. 22128900
H 	0.30095400	3.74331400	0. 32023100
H	-0.65340000	4. 02856600	1.51663100
H	2.41861200	3.71921600	-0.85042700
Н	2.55951400	3. 25343500	0.61853400
Н	3. 34647300	-3.98817200	1.06317600
Н	2.43169600	-2.78142200	1.39478300
Н	-3.99434900	0.57020100	1.35736000
Н	-2.54105400	0.25050300	1.71433900
Н	-4.21008100	2.35220600	-0.12908400
Н	-4.48739500	0.99432200	-0.81959100
Н	3. 20030100	0.75215300	-2.67906200
Н	2.40148700	1.98449300	-3. 19125200
Н	-0.90256800	-4.06156900	-0.80980400
Н	-0.54116900	-4.54471800	-2.23770500
Н	-2.94959400	-3.33823800	0.99099500
Н	-3.31937300	-3.92624500	-0.41521600
Н	-2.33197500	3.84784200	-0.13229200
Н	-3.61217400	4.70255900	0.05356400
Н	3.86001200	-1.15041100	-1.48112100
Н	3. 79341900	-1.70585000	-2.95421200
C1	-0.70032100	1.22387800	-2.08661700
C1	0.38656300	-1.80763100	1.24995400
C1	3. 48935500	1.52294300	1.79809500
0	0.65158600	1.14219200	3. 19470100
Н	0.63073100	0.40237700	3.82488100
Н	1.59103900	1.23864700	2.93342800
Н	-3. 27020000	0.49585800	-2.92432200
0	-3. 72994500	-0.06350200	-2.27212100
Н	-4.33183300	-0.63368100	-2.78466500
$[AI(H_2O)_5CI] \cdot (H_2O)_5CI] \cdot (H_2O)_5CI]$	$_{2}O)_{13}Cl_{2}\}^{v}(1I+2O)$	0.05000000	0 15100100
AL	0.20460300	-0.05092900	0.15166400
0	-1.53930500	-0.58863500	-0.40547500
0	-0. 49860700	0.86175300	1.66936500
0	1.93213700	0.65640900	0.57077100

0	0 90458600	-0 92619400	-1 41873000
0	-0.01693900	1 54220300	-0.94710400
0	-2 52827500	2 80204400	0.00815000
0	-3. 52637500	2.09394400	1 15454000
0	-4. 18344800	-2.40802700	-1.15454600
0	3. 20425000	0.25947300	2.81143600
0	-1.08609300	3. 43455800	1.48746800
0	-1.75965000	-3.83123400	-0. 41676200
0	3. 70949900	-2.32036100	2.09020900
0	5.04384300	-2.16111700	-0.33734000
0	3.67286800	3.51160900	-0.89711900
0	-2.59665400	-0.72074400	-2.76242500
0	0.35006100	-3.37573100	-2.10875400
0	1.02169000	3.96237500	-0.47739600
0	-2.32609300	2.09307700	-2.26418600
Н	-2.33498000	-0.39976800	0.14515500
Н	-1.85408100	-0.67141700	-1.36172700
Н	-1.04402100	0.43428700	2.38689900
Н	-0.70567900	1.83884500	1.63131800
Н	2.37518300	0.55119900	1.46976100
Н	2,63232800	0.61254700	-0.12382000
Н	1,75064300	-0.61236600	-1.80082700
Н	0.75134100	-1.89291900	-1.66300300
Н	0 42489800	2 41602400	-0 78620700
Н	-0.83676900	1 70985900	-1 47532600
н	-4.28037000	3 51153600	0 12477400
П Ц	-3 86264100	2.04687200	0. 12411400
П Ц	3.60204100 3.51971100	-0.66645400	2 67613600
	3.31071100	-0.00043400	2.07013000
п	5.99100700	0.00141000	2.90092000
п	-2.39071000	-3. 39013300	-0.07173800
Н		-3. 28441600	0.29277800
Н	-4. 90950900	-3. 01560500	-1. 32163800
H	-4. 43910600	-1.84176800	-0. 44976100
H	-0. 41229900	3.85126400	0.92334100
Н	-1.92621000	3. 45584100	0.98923300
Н	4. 21014700	-2.29522200	1.24536500
Н	2.79165400	-2.51122200	1.84020700
Н	6.01415400	-2.12791900	-0.34211100
Н	4.75202900	-1.37922900	-0.84354100
Н	-2.87550800	0.20354100	-2.87856600
Н	-3.39182800	-1.24933000	-2.56723300
Н	2.00315800	3.86034900	-0.53481700
Н	0.79098000	4.63699300	-1.13988000
Н	4.32509400	3.60717000	-0.18354800
Н	3.79374400	2.60899100	-1.24776600
Н	-0. 43802900	-3.63636500	-1.57564300
Н	1.01728300	-4.06543800	-1.95779400
Н	-2.87350100	2.48440200	-1.54795600
Н	-2.27851100	2.76184500	-2.96943600
C1	-4.25679700	-0.07120800	1.01041800
C1	3.75840800	0.39112100	-1.86482200
C1	0.43786300	-1.97567600	1.43322500
Н	-2.04459000	-0.97937900	3.84356500
0	-2.20809700	-0.11406800	3. 43240600

Н	-2.98671600	-0.23227200	2.85271600
	$(\mathbf{I}, \mathbf{O}) = \mathbf{C} \mathbf{U}^{0} (2 \mathbf{O})$		
$\{[\mathbf{A}\mathbf{I}(\mathbf{H}_2\mathbf{O})_6]^{\bullet}(\mathbf{J}_2\mathbf{O})\}$	$(30)_{12}(13) = (30)_{12}(13$	-0.03743400	0 04742900
0	-1 68955200	0.51849600	-0.19275000
0	-0.54113800	-1 04914600	1 56384100
0	1 85559000	-0.68423300	0 41779500
0	2 24922100	4 04773100	-1 97470400
0	3 55257600	-0.65870300	-2.67864100
0	-3,89473200	-0.89723500	0.37555600
0	-3, 06096300	2,73514100	-0.35694700
0	2, 55952400	-3.21655300	-2.00679000
0	-3.19688900	-3.37937100	-0. 48304300
0	1.09380600	-2.49971200	3.00945400
0	-2.85020100	-0. 22414400	2.80937100
0	4.11070300	0.60863100	-0.16235400
0	2.79448700	-3. 16790700	0.69796600
0	-2.57648400	2.60625200	2.40450100
0	3.38664400	3.14182900	0.38135000
Н	-2.46297700	-0.07555300	-0.00095700
Н	-2.04807500	1.44390600	-0.33417100
Н	0.04682900	-1.64772500	2.11345300
Н	-1.31440700	-0.75227200	2.09893600
Н	2.67491600	-0.14912500	0.22889700
Н	2.14565800	-1.62757200	0.53354700
Н	1.68680400	4.83944700	-2.00408300
Н	1.64093000	3.29104000	-2.02973400
Н	-3.79421700	-1.83424900	0.08361300
Н	-4.50759500	-0.44579300	-0.23951400
Н	2.98985400	-2.37909700	-2.28600000
Н	1.61168800	-3.00289900	-2.02869600
Н	3.90815000	-0.22186200	-1.88248800
Н	2.73081400	-0.17223900	-2.84749600
Н	-3.15470200	2.83020800	0.61325600
Н	-3.87553000	2.32108200	-0.69602200
Н	-3.15629700	-4.11906300	0.14610400
Н	-2.27231900	-3.16839300	-0.70484600
Н	1.68541400	-2. 98026000	2.40815400
Н	1.61549000	-1.75334100	3. 37941700
H	3.94842200	1.57838400	-0.01508400
H	4.89110800	0. 37417600	0.36940600
H	-2.75386500	1.68309500	2.66593100
H	-1.61511900	2.61588000	2.26912100
H	-3. 48412500	-0.52856700	2. 12647200
H	-3.13509800	-0.61426900	3.65425000
H	2. 78011400	-3. 37521400	-0.27029200
П	3. 72482900	-3. 22882600	0.97820600
П U	3.009/9400 2.ECOCE700	J. DODYJUUU	-0.43447100
п С1	2. 00000/UU	2. 921/0000 1. 91654400	U. 000040UU
UI UI	0.00000000	1.01004400	1.01104800
0	2.00921300		3 76/59500
Н	2.2033300 1 77009700	0.53658300	3 15976200
C1	-0.39655500	-1.95878800	-1,33810700
		2.0000000	2. 00010100

0	-2.84303400	-0.31347700	-3.23766200
Н	-2.10213700	-0.66761900	-2.71960200
Н	-2.43091300	0.24485200	-3.91791700
C1	0.78608200	1.13899900	-1.82201300
Н	-4.17973700	0.45396000	-2.28383000
0	-4.79228500	0.81867500	-1.60638500
Н	-5.65581700	0.92075700	-2.03998300
{[Al(OH)(H <sub>2</sub> O) <sub>4</sub> Cl]·(	$H_2O)_{13}^+(I)$		
A1	-0.34449500	0.16421200	-0.14682200
0	-0.96908400	1.51501500	-1.19561600
0	-1.42355700	-1.17007700	-1.06933100
0	1.10914100	-0.25903800	-1.37852800
0	0.80969200	1.38487000	0.80931400
0	-1.79507100	0.50976000	1.12792000
0	-3.50007400	2.21193300	-1.45702900
0	2.02139300	3.96292100	-1.09510500
0	-0.67222100	-3.75622500	-1.18997800
0	-4.08706500	-0.67180000	-1.27218000
0	3.16182000	1.52004400	-1.48244400
0	1.96868000	-2.81763900	-1.58038200
0	4.14066100	-2.61319900	0.02298300
0	-2.01695100	-3.60827700	1.40662800
0	-0.09164700	3.93356400	0.85594100
0	4.54315100	0.14999500	0.49932800
0	-3.69632300	-1.44945100	1.35838400
0	-2.75889100	3.05638700	0.95847400
Н	-2.54016300	1.92988800	-1.46677200
Н	-0.47773200	1.66757000	-2.01546200
Н	-1.23849800	-2.14046200	-1.11090600
Н	-2.36041500	-0.98428800	-1.31357300
Н	1.87821000	0.35972200	-1.42723600
Н	1.42507000	-1.19039100	-1.49411600
Н	0.52541700	2.32561700	0.89362400
Н	1.48103600	1.15383900	1.50727100
Н	-2.48555500	-0.16876700	1.31422400
Н	-2.19215500	1.41277500	1.16621000
Н	-3.98254000	1.36982700	-1.44633100
Н	0.29555600	-3.60479200	-1.22756900
Н	-0.89673300	-4.27576500	-1.98121100
Н	2.78061300	2.41644700	-1.30700500
Н	3.60982900	1.58098600	-2.34470500
Н	1.25384400	4.06358900	-0.50326300
Н	2.54278500	4.77721200	-1.00902900
Н	-4.24527900	-1.00264200	-0.36388700
Н	-4.70005800	-1.15048300	-1.85574900
Н	2.72604600	-2.81957500	-0.94100000
Н	2.34080500	-3.08810100	-2.43813900
Н	4.29967000	-1.66967300	0.22977600
Н	4.10843200	-3.06832300	0.88011300
Н	-1.05826500	3.76894700	0.80730900
Н	0.05053700	4. 49908600	1.63488400
Н	-3.19655400	-2.30301600	1.38209700
Н	-4.32976600	-1.47331600	2.09624300

Н	-1.79597100	-3.98312500	0.53769100
Н	-1.21587200	-3.08969300	1.61010000
Н	4. 14751000	0.71247400	-0.20266800
Н	5.47467300	0.42091700	0.57213900
Н	-3.21982200	2.88492600	0.09457100
Н	-3.40705500	3.45054400	1.56637500
C1	0.42233800	-1.54898400	1.30942800
0	2.72472100	0.72826800	2.53915500
Н	2.48825800	-0.09206700	3.00051200
Н	3.46583200	0. 49169300	1.94361700
	$(\mathbf{H},\mathbf{O})$ $\mathbf{L}(\mathbf{H},\mathbf{O})$ $(\mathbf{C}\mathbf{I})^+$ $(\mathbf{O})$		
AI	$(\mathbf{H}_{2}\mathbf{O})_{5}$ $(\mathbf{H}_{2}\mathbf{O})_{12}$ $(\mathbf{O})$ 0 44777300	0 12219200	-0 34699200
0	2 00975200	0.77091300	-0.93334100
0	-0 60964300	1 16881900	-1 59961900
0	0.39089100	-1 41249100	-1 63318100
0	-1 18085500	-0 60279500	0.28931300
0	1 38196000	-1 05056300	0.92815300
0	0 30945500	1 49956100	1 00951300
0	2 62865300	3 35693900	-0.74001800
0	4 24215200	-1 61705800	-0.70587300
0	-3, 16600200	0.36953900	-2.13543400
0	-0.30038600	3 86804000	-1 45988000
0	2, 20415900	-3,39750400	-1.05130100
0	-2, 24580100	-2.34890600	-2.15712400
0	-2.24269000	-3.05986800	0. 47626500
0	-3.75741100	1. 74220700	0. 44652700
0	3.80332000	-0.06527000	1.64369200
0	0.59496200	-3.67373400	1.28891800
0	-1.69969000	3.29109800	0.85157600
0	2.77087800	2.50273600	1.70330600
Н	2.43840600	2.42021800	-1.00043000
Н	2.55152700	0.23376700	-1.51629500
Н	-1.55576700	0.98076500	-1.79567900
Н	-0.42187000	2.12464700	-1.74322400
Н	1.01670400	-2.16488000	-1.52199200
Н	-0.45509000	-1.75239100	-1.99061700
Н	-1.39335900	-1.55868700	0.20258400
Н	-1.76006100	-0.36237200	1.09689000
Н	2.25564600	-0.79321500	1.29994100
Н	1.03809100	-1.86941500	1.33686100
Н	-0.42431400	2.16471600	1.05351100
Н	1.13270200	1.88923300	1.38397200
Н	1.83831800	3.84853700	-1.00409900
Н	-3.04504900	-0. 59999100	-2.16585900
Н	-3.67947600	0.60887500	-2.91537700
Н	3.01039300	-2.84537700	-0.89939300
Н	2.45841300	-4.08178400	-1.68127100
Н	4.24709400	-1.01392000	0.06161800
Н	5.14970300	-1.67794800	-1.02110800
Н	-0.87564500	3.93120700	-0.66748400
Н	-0.58692900	4. 54881400	-2.07861300
Н	-2.43095700	-2.79059900	-1.29817500

Н	-2.53264800	-2.95456600	-2.85040600
Н	-1.56966500	-3.59419500	0.92375300
Н	-2.78021500	-2.61267400	1.17326500
Н	3. 57786700	0.89572300	1.63516200
Н	4.29360500	-0.22590000	2.45789300
Н	-2.52701100	2.73039800	0.69634400
Н	-1.91131200	3.88400000	1.58191900
Н	-3.77823700	1.26798700	-0.39839800
Н	-3.80111500	1.03813700	1. 13104500
Н	1, 19242400	-3.87355000	0. 54306800
Н	0.82035800	-4 28417600	2 00034700
Н	2 81939900	2 99088900	0.82198500
Н	2 98740900	3 13075100	2 40123100
$\Gamma$	-3 18764800	-0.70322500	2.32270600
01	5. 10101000	0.10322300	2. 52210000
{[Al(OH)(H <sub>2</sub> )	$O_{3}Cl_{2}\cdot(H_{2}O)_{14}^{0}(2I)$		
Al	0. 45438100	-0.65148500	0.16428100
0	0.87834700	1.30310900	0.37536200
0	-1.05226800	-0.34127300	-0.83364700
0	1.65903400	-0.57304600	-1.40881900
0	-4.27156100	1.93363200	-0.68419900
0	-1.32719000	4.54661900	-1.28663900
0	-1.88265000	-2.48221900	-2.28289000
0	-3.58482900	-0.60186400	0. 11604200
0	2, 68491200	1.88550100	-1.57624600
0	3. 78932000	-2.14667800	-1.87163700
0	4. 61810200	-0. 83818000	0. 37533900
0	-3.59558200	-3.01340900	-0.45272300
0	-0.90125500	3 67189000	1 17777100
0	4, 53450300	1.62669300	0. 11146700
0	-2 12323500	-3 62066000	1 58460200
0	-2,98968000	2.07892200	2.00615300
Н	-4 99517000	2 52347300	-0.91488100
Н	1 31254300	1 71987700	-0 40246400
Н	-1 53506200	-1.64730200	-1 86555800
Н	-1 11847600	0 49902700	-1 31073700
Н	2 09024400	0.27792900	-1 66080900
Н	2 28750000	-1 29860200	-1 64272800
Н	3 05191600	-0.97385100	0.95585700
Н	-4 10165600	0.14673400	-0 23036900
Н	-1 11701200	-3 07139800	-2 24747800
Н	-0.76926100	5 29868300	-1 49966000
н	2 82157300	2 51961800	-2 28487600
Н	-1 16908700	4 32023400	-0.32860600
н	-1 66636900	3 07357300	-2 04042100
н	-2 02869500	-2 80500500	2.01012100
Н	-2 63592500	-0.42092100	-0 12181300
н	4 30555700	-1 76062600	-1 13154000
Н	4 34651300	-2 12648400	-2 65431700
Н	1. 54051500 1. 60268000	0 22011200	0 26031000
Н	5 3005000	-1 19/00000	0. 20031000
н	-1 68/63000	3 21025500	1 56368600
Н		2. 21933300 2. 05680400	1.07700100
H	-0.20140000 -3 A68373AA	-3 35000400	0 35691900
11	0.00001000	0.00000400	0.00041400

Н	-1.23593800	-3.70926400	1.18576900
Н	-2.93421300	-2.94160600	-1.23911800
Н	-3.77363200	-2.00717900	-0.22701600
Н	3. 52681800	1.86687400	-0.95887400
Н	5.35418400	2.11892400	0.01136100
Н	-3.53029600	1.96908500	1.20822600
Н	-2.59291200	1.21091400	2.17062200
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C1	-0.65618500	-0.67187400	2.19779000
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Н	2.93077800	1.93432000	2.82810300
	$\mathbf{I} \mathbf{O} \mathbf{C} \mathbf{U} \mathbf{U} \mathbf{O} \mathbf{C} \mathbf{U}^{0} (\mathbf{I} \mathbf{U})$		
	0 27365300	0 23664500	-0 13559000
0	-0.01889700	1 76558100	-1 32157100
0	-0.82035100	-0. 86826000	-1.32153100
0	1. 79677500	-0.27204600	-1.02358400
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0	-1.34433700	0.87974400	0.70890200
0	-2.45785100	2.37453500	-1.98661900
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0	-0.39937600	-3. 57403700	-1.51753500
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0	-2.39125600	-3. 37939100	0.64929900
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H	-0. 71244400	-1.84326800	-1.37494000
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H	3. 04786400	0.39936200	-1.15690200
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H	1. 28545000	2. 43294900	0.91434900
H	1.83666400	1. 14928300	1. (4935300
H	-2.06862100	0.42132600	1.22222000
H U	-1.62896700	1.81237200	0.08498500
п u	-2.90921000	1. 01010200	-2.10088000
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н Н	2 00160000	-4.07202000	-2.20007000 -1 68888100
H	J. U9100000 A A27A2200	2.41019000 0 58035300	-1 06594400
H	1 90289700	4 03651400	-0 35491400
**	1.00200100	1. 00001100	J. JO 101 100

Н	2 72210400	3 53965600	-2 72104600
11 11	2. 12210400	0.01001000	1 44991400
		-0.81921900	-1.44021400
П	-3.04710800	-0.02279700	-3.01004700
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H	2. 40251900	-2. 48521900	1.23438600
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H	-1.68554200	-3. 62194700	0.03062100
H	-1.93445800	-2.86601700	1.32936800
Н	4. 57123000	0.21404600	0.29427600
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C1	0.38567100	-1.45311800	1.48160600
0	2.78337800	0.51898500	2.94236700
Н	2.25807300	-0.24199100	3.22184400
Н	3.54827600	0.15938200	2.45447000
C1	-3.96944200	0.39566400	2.02470500
	0		
{[Al(OH)(H <sub>2</sub> O)	$_{5}] \cdot (H_{2}O)_{12}Cl_{2}^{0}(2O)$		
Al	0. 20124800	0.39011100	-0.27846100
0	-0.24298600	2.17137300	-0.89539200
	-0.92715700	0 20520000	-1 73159000
0	-0.83713700	-0. 36526900	1.10100000
0 0	1. 72173300	-0. 38328900 0. 29184100	-1.25863500
0 0 0	$\begin{array}{c} -0.83713700\\ 1.72173300\\ 0.25193200\end{array}$	-0. 38328900 0. 29184100 -1. 38231200	$-1.25863500 \\ 0.50808800$
0 0 0 0	1. 72173300 0. 25193200 1. 19213900	-0. 38528900 0. 29184100 -1. 38231200 1. 07349400	$\begin{array}{c} -1.\ 25863500\\ 0.\ 50808800\\ 1.\ 25157600 \end{array}$
0 0 0 0 0	1. 72173300 0. 25193200 1. 19213900 -1. 43379000	-0. 38328900 0. 29184100 -1. 38231200 1. 07349400 0. 62568300	-1. 25863500 0. 50808800 1. 25157600 0. 76638200
0 0 0 0 0 0	-0. 83713700 1. 72173300 0. 25193200 1. 19213900 -1. 43379000 -2. 81007600	-0. 38328900 0. 29184100 -1. 38231200 1. 07349400 0. 62568300 2. 56061100	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100
0 0 0 0 0 0	-0. 83713700 1. 72173300 0. 25193200 1. 19213900 -1. 43379000 -2. 81007600 1. 68323700	-0. 38328900 0. 29184100 -1. 38231200 1. 07349400 0. 62568300 2. 56061100 4. 04948700	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200
0 0 0 0 0 0 0	-0. 83713700 1. 72173300 0. 25193200 1. 19213900 -1. 43379000 -2. 81007600 1. 68323700 0. 30467900	-0. 38328900 0. 29184100 -1. 38231200 1. 07349400 0. 62568300 2. 56061100 4. 04948700 -2. 67525000	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400
0 0 0 0 0 0 0 0 0	-0. 83713700 1. 72173300 0. 25193200 1. 19213900 -1. 43379000 -2. 81007600 1. 68323700 0. 30467900 -3. 43099700	-0. 38328900 0. 29184100 -1. 38231200 1. 07349400 0. 62568300 2. 56061100 4. 04948700 -2. 67525000 -0. 12652500	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900
0 0 0 0 0 0 0 0 0 0 0	-0. 83713700 1. 72173300 0. 25193200 1. 19213900 -1. 43379000 -2. 81007600 1. 68323700 0. 30467900 -3. 43099700 3. 52127200	<ul> <li>-0. 38328900</li> <li>0. 29184100</li> <li>-1. 38231200</li> <li>1. 07349400</li> <li>0. 62568300</li> <li>2. 56061100</li> <li>4. 04948700</li> <li>-2. 67525000</li> <li>-0. 12652500</li> <li>2. 13708600</li> </ul>	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500
0 0 0 0 0 0 0 0 0 0 0 0	-0. 83713700 1. 72173300 0. 25193200 1. 19213900 -1. 43379000 -2. 81007600 1. 68323700 0. 30467900 -3. 43099700 3. 52127200 2. 90502100	-0. 38328900 0. 29184100 -1. 38231200 1. 07349400 0. 62568300 2. 56061100 4. 04948700 -2. 67525000 -0. 12652500 2. 13708600 -2. 33194500	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 88137300
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1. 72173300 0. 25193200 1. 19213900 -1. 43379000 -2. 81007600 1. 68323700 0. 30467900 -3. 43099700 3. 52127200 2. 90502100 4. 03250000	-0. 38328900 0. 29184100 -1. 38231200 1. 07349400 0. 62568300 2. 56061100 4. 04948700 -2. 67525000 -0. 12652500 2. 13708600 -2. 33194500 -1. 98815800	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 88137300 0. 56240400
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ \end{array}$	<ul> <li>-0. 38328900</li> <li>0. 29184100</li> <li>-1. 38231200</li> <li>1. 07349400</li> <li>0. 62568300</li> <li>2. 56061100</li> <li>4. 04948700</li> <li>-2. 67525000</li> <li>-0. 12652500</li> <li>2. 13708600</li> <li>-2. 33194500</li> <li>-1. 98815800</li> <li>-3. 37235300</li> </ul>	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ 0.\ 97403100\\ \end{array}$	-0. 38328900 0. 29184100 -1. 38231200 1. 07349400 0. 62568300 2. 56061100 4. 04948700 -2. 67525000 -0. 12652500 2. 13708600 -2. 33194500 -1. 98815800 -3. 37235300 3. 65131900	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100 1. 90533700
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ \end{array}$	<ul> <li>-0. 38328900</li> <li>0. 29184100</li> <li>-1. 38231200</li> <li>1. 07349400</li> <li>0. 62568300</li> <li>2. 56061100</li> <li>4. 04948700</li> <li>-2. 67525000</li> <li>-0. 12652500</li> <li>2. 13708600</li> <li>-2. 33194500</li> <li>-1. 98815800</li> <li>-3. 37235300</li> <li>3. 65131900</li> <li>0. 84756600</li> </ul>	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100 1. 90533700 1. 07258000
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ -3.\ 91429700 \end{array}$	<ul> <li>-0. 38328900</li> <li>0. 29184100</li> <li>-1. 38231200</li> <li>1. 07349400</li> <li>0. 62568300</li> <li>2. 56061100</li> <li>4. 04948700</li> <li>-2. 67525000</li> <li>-0. 12652500</li> <li>2. 13708600</li> <li>-2. 33194500</li> <li>-1. 98815800</li> <li>-3. 37235300</li> <li>3. 65131900</li> <li>0. 84756600</li> <li>-2. 13306100</li> </ul>	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100 1. 90533700 1. 07258000 -0. 55087300
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ -3.\ 91429700\\ -3.\ 46364500\\ \end{array}$	$\begin{array}{c} -0.33323900\\ 0.29184100\\ -1.38231200\\ 1.07349400\\ 0.62568300\\ 2.56061100\\ 4.04948700\\ -2.67525000\\ -0.12652500\\ 2.13708600\\ -2.33194500\\ -1.98815800\\ -3.37235300\\ 3.65131900\\ 0.84756600\\ -2.13306100\\ 2.38594300 \end{array}$	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100 1. 90533700 1. 07258000 -0. 55087300 1. 21851400
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ -3.\ 91429700\\ -3.\ 46364500\\ -1.\ 15330100\\ \end{array}$	<ul> <li>-0. 38328900</li> <li>0. 29184100</li> <li>-1. 38231200</li> <li>1. 07349400</li> <li>0. 62568300</li> <li>2. 56061100</li> <li>4. 04948700</li> <li>-2. 67525000</li> <li>-0. 12652500</li> <li>2. 13708600</li> <li>-2. 33194500</li> <li>-1. 98815800</li> <li>-3. 37235300</li> <li>3. 65131900</li> <li>0. 84756600</li> <li>-2. 13306100</li> <li>2. 38594300</li> <li>2. 41208100</li> </ul>	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100 1. 90533700 1. 07258000 -0. 55087300 1. 21851400 -1. 21906200
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ -3.\ 91429700\\ -3.\ 46364500\\ -1.\ 15330100\\ 0.\ 38637600\end{array}$	$\begin{array}{c} -0.33323900\\ 0.29184100\\ -1.38231200\\ 1.07349400\\ 0.62568300\\ 2.56061100\\ 4.04948700\\ -2.67525000\\ -0.12652500\\ 2.13708600\\ -2.33194500\\ -1.98815800\\ -3.37235300\\ 3.65131900\\ 0.84756600\\ -2.13306100\\ 2.38594300\\ 2.41208100\\ 2.92937200\\ \end{array}$	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100 1. 90533700 1. 07258000 -0. 55087300 1. 21851400 -1. 21906200 -0. 96566900
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ -3.\ 91429700\\ -3.\ 46364500\\ -1.\ 15330100\\ 0.\ 38637600\\ -0.\ 43073200\end{array}$	-0. 38328900 0. 29184100 -1. 38231200 1. 07349400 0. 62568300 2. 56061100 4. 04948700 -2. 67525000 -0. 12652500 2. 13708600 -2. 33194500 -1. 98815800 -3. 37235300 3. 65131900 0. 84756600 -2. 13306100 2. 38594300 2. 41208100 2. 92937200 -1. 10837000	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100 1. 90533700 1. 07258000 -0. 55087300 1. 21851400 -1. 21906200 -0. 96566900 -2. 25991500
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0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ -3.\ 91429700\\ -3.\ 46364500\\ -1.\ 15330100\\ 0.\ 38637600\\ -0.\ 43073200\\ -1.\ 79748100\\ 2.\ 83745100\end{array}$	<ul> <li>-0. 38328900</li> <li>0. 29184100</li> <li>-1. 38231200</li> <li>1. 07349400</li> <li>0. 62568300</li> <li>2. 56061100</li> <li>4. 04948700</li> <li>-2. 67525000</li> <li>-0. 12652500</li> <li>2. 13708600</li> <li>-2. 33194500</li> <li>-1. 98815800</li> <li>-3. 37235300</li> <li>3. 65131900</li> <li>0. 84756600</li> <li>-2. 13306100</li> <li>2. 38594300</li> <li>2. 41208100</li> <li>2. 92937200</li> <li>-1. 10837000</li> <li>-0. 29315100</li> <li>1. 39417300</li> </ul>	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100 1. 90533700 1. 07258000 -0. 55087300 1. 21851400 -1. 21906200 -0. 96566900 -2. 25991500 -1. 96407000 -1. 40559700
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ -3.\ 91429700\\ -3.\ 46364500\\ -1.\ 15330100\\ 0.\ 38637600\\ -0.\ 43073200\\ -1.\ 79748100\\ 2.\ 83745100\\ 2.\ 08332700\\ \end{array}$	-0. 38328900 0. 29184100 -1. 38231200 1. 07349400 0. 62568300 2. 56061100 4. 04948700 -2. 67525000 -0. 12652500 2. 13708600 -2. 33194500 -1. 98815800 -3. 37235300 3. 65131900 0. 84756600 -2. 13306100 2. 38594300 2. 41208100 2. 92937200 -1. 10837000 -0. 29315100 1. 39417300 -0. 57723600	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100 1. 90533700 1. 07258000 -0. 55087300 1. 21851400 -1. 21906200 -0. 96566900 -2. 25991500 -1. 96407000 -1. 40559700 -1. 48062700
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ -3.\ 91429700\\ -3.\ 46364500\\ -1.\ 15330100\\ 0.\ 38637600\\ -0.\ 43073200\\ -1.\ 79748100\\ 2.\ 83745100\\ 2.\ 08332700\\ 0.\ 79998000\\ \end{array}$	$\begin{array}{c} -0.33323900\\ 0.29184100\\ -1.38231200\\ 1.07349400\\ 0.62568300\\ 2.56061100\\ 4.04948700\\ -2.67525000\\ -0.12652500\\ 2.13708600\\ -2.33194500\\ -1.98815800\\ -3.37235300\\ 3.65131900\\ 0.84756600\\ -2.13306100\\ 2.38594300\\ 2.41208100\\ 2.92937200\\ -1.10837000\\ -0.29315100\\ 1.39417300\\ -0.57723600\\ -1.70550800\\ \end{array}$	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100 1. 90533700 1. 07258000 -0. 55087300 1. 21851400 -1. 21906200 -0. 96566900 -2. 25991500 -1. 96407000 -1. 40559700 -1. 48062700 1. 27543700
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ -3.\ 91429700\\ -3.\ 46364500\\ -1.\ 15330100\\ 0.\ 38637600\\ -0.\ 43073200\\ -1.\ 79748100\\ 2.\ 83745100\\ 2.\ 08332700\\ 0.\ 79998000\\ -0.\ 29156300\\ \end{array}$	$\begin{array}{c} -0.33323900\\ 0.29184100\\ -1.38231200\\ 1.07349400\\ 0.62568300\\ 2.56061100\\ 4.04948700\\ -2.67525000\\ -0.12652500\\ 2.13708600\\ -2.33194500\\ -1.98815800\\ -3.37235300\\ 3.65131900\\ 0.84756600\\ -2.13306100\\ 2.38594300\\ 2.41208100\\ 2.92937200\\ -1.10837000\\ -0.29315100\\ 1.39417300\\ -0.57723600\\ -1.70550800\\ -2.13782400\\ \end{array}$	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100 1. 90533700 1. 07258000 -0. 55087300 1. 21851400 -1. 21906200 -0. 96566900 -2. 25991500 -1. 96407000 -1. 48062700 1. 27543700 0. 18114800
0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ -3.\ 91429700\\ -3.\ 46364500\\ -1.\ 15330100\\ 0.\ 38637600\\ -0.\ 43073200\\ -1.\ 79748100\\ 2.\ 83745100\\ 2.\ 83745100\\ 2.\ 08332700\\ 0.\ 79998000\\ -0.\ 29156300\\ 1.\ 03945600\\ \end{array}$	$\begin{array}{c} -0.33323900\\ 0.29184100\\ -1.38231200\\ 1.07349400\\ 0.62568300\\ 2.56061100\\ 4.04948700\\ -2.67525000\\ -0.12652500\\ 2.13708600\\ -2.33194500\\ -1.98815800\\ -2.33194500\\ -1.98815800\\ -3.37235300\\ 3.65131900\\ 0.84756600\\ -2.13306100\\ 2.38594300\\ 2.41208100\\ 2.92937200\\ -1.10837000\\ -0.29315100\\ 1.39417300\\ -0.57723600\\ -1.70550800\\ -2.13782400\\ 1.99425800\\ \end{array}$	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100 1. 90533700 1. 07258000 -0. 55087300 1. 21851400 -1. 21906200 -0. 96566900 -2. 25991500 -1. 96407000 -1. 48062700 1. 27543700 0. 18114800 1. 59456700
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} -0.\ 83713700\\ 1.\ 72173300\\ 0.\ 25193200\\ 1.\ 19213900\\ -1.\ 43379000\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -2.\ 81007600\\ 1.\ 68323700\\ 0.\ 30467900\\ -3.\ 43099700\\ 3.\ 52127200\\ 2.\ 90502100\\ 4.\ 03250000\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ -1.\ 29176500\\ 0.\ 97403100\\ 3.\ 92799300\\ -3.\ 91429700\\ -3.\ 46364500\\ -1.\ 15330100\\ 0.\ 38637600\\ -0.\ 43073200\\ -1.\ 79748100\\ 2.\ 83745100\\ 2.\ 08332700\\ 0.\ 79998000\\ -0.\ 29156300\\ 1.\ 03945600\\ 2.\ 17058800\\ \end{array}$	$\begin{array}{c} -0.33323900\\ 0.29184100\\ -1.38231200\\ 1.07349400\\ 0.62568300\\ 2.56061100\\ 4.04948700\\ -2.67525000\\ -0.12652500\\ 2.13708600\\ -2.33194500\\ -1.98815800\\ -2.33194500\\ -1.98815800\\ -3.37235300\\ 3.65131900\\ 0.84756600\\ -2.13306100\\ 2.38594300\\ 2.41208100\\ 2.92937200\\ -1.10837000\\ -0.29315100\\ 1.39417300\\ -0.57723600\\ -1.70550800\\ -2.13782400\\ 1.99425800\\ 0.94306400\\ \end{array}$	-1. 25863500 0. 50808800 1. 25157600 0. 76638200 -1. 54061100 -0. 77775200 -2. 70254400 -2. 25615900 -1. 29408500 -1. 29408500 -1. 88137300 0. 56240400 -0. 55974100 1. 90533700 1. 07258000 -0. 55087300 1. 21851400 -1. 21906200 -0. 96566900 -2. 25991500 -1. 96407000 -1. 48062700 1. 27543700 0. 18114800 1. 59456700 1. 20997000

Н	-1.94685000	1.45401700	0.88345500
Н	-3.16181100	1.70883100	-1.86270600
Н	1.25237700	-2.66770700	-2.43366100
Н	0.27769400	-2.98590500	-3.62410200
Н	2. 47670600	3. 51987600	-1.03822200
Н	4. 09334500	2.13506000	-2.07874900
Н	$1.\ 30526600$	4.04368800	1.07451700
H	1.69304100	4.86617100	-1.30586000
H	-3. 75360000	-0.84939500	-1.65306500
H	-3. 76348000	-0.33010600	-3. 14751500
H	3. 36311000	-2.28773300	-1.00323800
H	3.60070700	-2.39767500	-2.55570800
H	4. 08076100	-1.02693400	0.72417800
H	3. 41784100	-2.31251500	1.25504800
H II		3. 10728700	1.80940000
п	1. 52506000	4.01333400	2.62013900
п		-2.03318000	-0.33174900
п ц	-0. 81657800	-1.74220000 -3.41062800	-1 41584500
и П	-1 23568300	-4 26436500	-0 17303000
н	4 05811000	4.20430300 1 39720800	0.26769200
Н	4. 48192100	1.23185800	1 77369600
Н	-3 25115700	2 69510500	-0 68196400
Н	-3 89806900	1 60944300	1 62768400
C1	-3.85670400	-0.62090400	2. 22261200
C1	1. 84168700	-2.72797500	2, 70681500
{[cis-A	$l(OH)_2(H_2O)_3Cl]\cdot(H_2O)_{13}^0(I)$		
<b>{[cis-A</b> A1	$I(OH)_{2}(H_{2}O)_{3}CI] \cdot (H_{2}O)_{13}^{0}(I)$ 0. 09494900	0.14751900	-0.04599500
<b>{[cis-A</b> A1 0	<b>l(OH)</b> <sub>2</sub> ( <b>H</b> <sub>2</sub> <b>O</b> ) <sub>3</sub> <b>C</b> l]·( <b>H</b> <sub>2</sub> <b>O</b> ) <sub>13</sub> <sup>9</sup> ( <b>I</b> ) 0. 09494900 −0. 56080800	0. 14751900 1. 57091400	-0.04599500 0.89254400
<b>{[<i>cis-</i>A</b> A1 0 0	<b>l(OH)<sub>2</sub>(H<sub>2</sub>O)<sub>3</sub>Cl]·(H<sub>2</sub>O)<sub>13</sub>}<sup>0</sup>(I)</b> 0. 09494900 −0. 56080800 1. 70873000	0. 14751900 1. 57091400 -0. 10128800	-0. 04599500 0. 89254400 0. 77598800
<b>{[<i>cis</i>-A</b> A1 0 0 0	<b>l(OH)<sub>2</sub>(H<sub>2</sub>O)<sub>3</sub>Cl]·(H<sub>2</sub>O)<sub>13</sub>}<sup>0</sup>(I)</b> 0. 09494900 -0. 56080800 1. 70873000 0. 59612700	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700	-0.04599500 0.89254400 0.77598800 -1.36901600
<b>{[<i>cis</i>-A</b> A1 0 0 0 0	<b>I(OH)<sub>2</sub>(H<sub>2</sub>O)<sub>3</sub>CI]·(H<sub>2</sub>O)<sub>13</sub>}<sup>0</sup>(I)</b> 0.09494900 −0.56080800 1.70873000 0.59612700 −1.52745900	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800
{[ <i>cis</i> - <b>A</b> A1 0 0 0 0 0	<b>I(OH)<sub>2</sub>(H<sub>2</sub>O)<sub>3</sub>CI]·(H<sub>2</sub>O)<sub>13</sub>}<sup>0</sup>(I)</b> 0. 09494900 −0. 56080800 1. 70873000 0. 59612700 −1. 52745900 0. 87487100	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800
<b>{[</b> <i>cis</i> <b>-A</b> A1 0 0 0 0 0 0 0	<b>l(OH)₂(H₂O)₃Cl]·(H₂O)₁₃)<sup>0</sup>(I)</b> 0. 09494900 −0. 56080800 1. 70873000 0. 59612700 −1. 52745900 0. 87487100 0. 84792000	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600	-0.04599500 0.89254400 0.77598800 -1.36901600 -1.24507800 -1.39336800 1.14670500
<b>{[</b> <i>cis</i> <b>-A</b> A1 0 0 0 0 0 0 0 0	<b>I(OH)<sub>2</sub>(H<sub>2</sub>O)<sub>3</sub>CI]·(H<sub>2</sub>O)<sub>13</sub>}<sup>0</sup>(I)</b> 0.09494900 −0.56080800 1.70873000 0.59612700 −1.52745900 0.87487100 0.84792000 −4.55771800	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500
<b>{[</b> <i>cis</i> <b>-A</b> A1 0 0 0 0 0 0 0 0 0	<b>I(OH)<sub>2</sub>(H<sub>2</sub>O)<sub>3</sub>CI]·(H<sub>2</sub>O)<sub>13</sub>}<sup>0</sup>(I)</b> 0. 09494900 −0. 56080800 1. 70873000 0. 59612700 −1. 52745900 0. 87487100 0. 84792000 −4. 55771800 3. 15726300	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000
<b>{[cis-A</b> A1 0 0 0 0 0 0 0 0 0 0 0	<b>I(OH)<sub>2</sub>(H<sub>2</sub>O)<sub>3</sub>CI]·(H<sub>2</sub>O)<sub>13</sub>}<sup>0</sup>(I)</b> 0. 09494900 −0. 56080800 1. 70873000 0. 59612700 −1. 52745900 0. 87487100 0. 84792000 −4. 55771800 3. 15726300 3. 42287300 4. 10000700	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700 2. 41430500 1. 25504400	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 98908300
<b>{[cis-A</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0	<b>I(OH)<sub>2</sub>(H<sub>2</sub>O)<sub>3</sub>CI]·(H<sub>2</sub>O)<sub>13</sub>}<sup>0</sup>(I)</b> 0.09494900 −0.56080800 1.70873000 0.59612700 −1.52745900 0.87487100 0.84792000 −4.55771800 3.15726300 3.42287300 −4.19382700 0.07061600	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700 2. 41430500 -1. 22594400 4. 00166200	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 98908300 0. 81190600
<b>{</b> [ <i>cis</i> - <b>A</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$I(OH)_{2}(H_{2}O)_{3}CI] \cdot (H_{2}O)_{13} I^{0}(I)$ 0. 09494900 -0. 56080800 1. 70873000 0. 59612700 -1. 52745900 0. 87487100 0. 87487100 0. 84792000 -4. 55771800 3. 15726300 3. 42287300 -4. 19382700 0. 87861600 0. 019362900	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700 2. 41430500 -1. 22594400 -4. 09166200 2. 56401200	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 98908300 0. 81190600 0. 83319500
<b>{</b> [ <i>cis</i> - <b>A</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$I(OH)_{2}(H_{2}O)_{3}CI] \cdot (H_{2}O)_{13} I^{0}(I)$ 0. 09494900 -0. 56080800 1. 70873000 0. 59612700 -1. 52745900 0. 87487100 0. 87487100 0. 84792000 -4. 55771800 3. 15726300 3. 42287300 -4. 19382700 0. 87861600 -0. 91236200 2. 26106500	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700 2. 41430500 -1. 22594400 -4. 09166200 -3. 56401200 1. 51140800	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 98908300 0. 81190600 0. 83319500 -1. 57386100
<b>{</b> [ <i>cis</i> - <b>A</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$I(OH)_2(H_2O)_3CI] \cdot (H_2O)_{13} ^0 (I)$ 0. 09494900 -0. 56080800 1. 70873000 0. 59612700 -1. 52745900 0. 87487100 0. 87487100 0. 84792000 -4. 55771800 3. 15726300 3. 42287300 -4. 19382700 0. 87861600 -0. 91236200 3. 36196500 2. 78881700	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700 2. 41430500 -1. 22594400 -4. 09166200 -3. 56401200 -1. 51140800 2. 75254000	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 98908300 0. 81190600 0. 83319500 -1. 57386100 -1. 73031200
{[cis-A A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$I(OH)_2(H_2O)_3CI] \cdot (H_2O)_{13} I^0(I)$ 0.09494900 -0.56080800 1.70873000 0.59612700 -1.52745900 0.87487100 0.87487100 0.84792000 -4.55771800 3.15726300 3.42287300 -4.19382700 0.87861600 -0.91236200 3.36196500 -2.78881700 -3.22401100	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700 2. 41430500 -1. 22594400 -4. 09166200 -3. 56401200 -1. 51140800 2. 75354900 -1. 95294800	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 98908300 0. 81190600 0. 83319500 -1. 57386100 -1. 73031200 -0. 97792000
<b>{</b> [ <i>cis</i> - <b>A</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{split} \mathbf{l}(\mathbf{OH})_2(\mathbf{H}_2\mathbf{O})_3\mathbf{Cl}]\cdot(\mathbf{H}_2\mathbf{O})_{13}\}^0(\mathbf{I}) \\ & 0.\ 09494900 \\ -0.\ 56080800 \\ 1.\ 70873000 \\ 0.\ 59612700 \\ -1.\ 52745900 \\ 0.\ 87487100 \\ 0.\ 87487100 \\ 0.\ 874872000 \\ -4.\ 55771800 \\ 3.\ 15726300 \\ 3.\ 42287300 \\ -4.\ 19382700 \\ 0.\ 87861600 \\ -0.\ 91236200 \\ 3.\ 36196500 \\ -2.\ 78881700 \\ -3.\ 22491100 \\ 2.\ 66881100 \end{split}$	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700 2. 41430500 -1. 22594400 -4. 09166200 -3. 56401200 -1. 51140800 2. 75354900 -1. 95294800 1. 19809100	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 88308300 0. 81190600 0. 83319500 -1. 57386100 -1. 73031200 -0. 97792000 -1. 51684600 -1. 55985200
<b>{</b> [ <i>cis</i> - <b>A</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{aligned} \mathbf{l}(\mathbf{OH})_{2}(\mathbf{H}_{2}\mathbf{O})_{3}\mathbf{Cl}]\cdot(\mathbf{H}_{2}\mathbf{O})_{13}\}^{0}(\mathbf{I}) \\ & 0. \ 09494900 \\ -0. \ 56080800 \\ 1. \ 70873000 \\ 0. \ 59612700 \\ -1. \ 52745900 \\ 0. \ 87487100 \\ 0. \ 87487100 \\ 0. \ 87487100 \\ 0. \ 87487100 \\ 0. \ 87487100 \\ 0. \ 87487100 \\ 0. \ 87487100 \\ 0. \ 87487100 \\ 0. \ 87487100 \\ -4. \ 55771800 \\ 3. \ 15726300 \\ 3. \ 42287300 \\ -4. \ 19382700 \\ 0. \ 87861600 \\ -0. \ 91236200 \\ 3. \ 36196500 \\ -2. \ 78881700 \\ -3. \ 22491100 \\ 3. \ 66881100 \\ -0. \ 925653400 \end{aligned}$	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700 2. 41430500 -1. 22594400 -4. 09166200 -3. 56401200 -1. 51140800 2. 75354900 -1. 95294800 1. 19809100 3. 97032100	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 88308300 0. 81190600 0. 83319500 -1. 57386100 -1. 73031200 -0. 97792000 -1. 51684600 -1. 55985200 -1. 17071000
<b>{</b> [ <i>cis</i> - <b>A</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{aligned} \mathbf{l(OH)_2(H_2O)_3Cl]}\cdot(\mathbf{H_2O})_{13}}^0(\mathbf{I}) \\ & 0. \ 09494900 \\ -0. \ 56080800 \\ 1. \ 70873000 \\ 0. \ 59612700 \\ -1. \ 52745900 \\ 0. \ 87487100 \\ 0. \ 87487100 \\ 0. \ 84792000 \\ -4. \ 55771800 \\ 3. \ 15726300 \\ 3. \ 42287300 \\ -4. \ 19382700 \\ 0. \ 87861600 \\ -0. \ 91236200 \\ 3. \ 36196500 \\ -2. \ 78881700 \\ -3. \ 22491100 \\ 3. \ 66881100 \\ -0. \ 25653400 \\ 0. \ 34415000 \end{aligned}$	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700 2. 41430500 -1. 22594400 -4. 09166200 -3. 56401200 -1. 51140800 2. 75354900 -1. 95294800 1. 19809100 3. 97032100 2. 93800900	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 88300 0. 81190600 0. 83319500 -1. 57386100 -1. 73031200 -0. 97792000 -1. 51684600 -1. 55985200 -1. 17071000 1. 23402100
<b>{</b> [ <i>cis</i> - <b>A</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$I(OH)_2(H_2O)_3CI] \cdot (H_2O)_{13}^0 (I)$ 0. 09494900 -0. 56080800 1. 70873000 0. 59612700 -1. 52745900 0. 87487100 0. 87487100 0. 84792000 -4. 55771800 3. 15726300 3. 42287300 -4. 19382700 0. 87861600 -0. 91236200 3. 36196500 -2. 78881700 -3. 22491100 3. 66881100 -0. 25653400 0. 34415000 -1. 02195600	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700 2. 41430500 -1. 22594400 -4. 09166200 -3. 56401200 -1. 51140800 2. 75354900 -1. 95294800 1. 19809100 3. 97032100 2. 93800900 1. 30225700	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 88308300 0. 81190600 0. 83319500 -1. 57386100 -1. 73031200 -0. 97792000 -1. 51684600 -1. 55985200 -1. 17071000 1. 23402100 1. 69139700
<b>{</b> [ <i>cis</i> - <b>A</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$I(OH)_2(H_2O)_3CI] \cdot (H_2O)_{13}^0 (I)$ 0. 09494900 -0. 56080800 1. 70873000 0. 59612700 -1. 52745900 0. 87487100 0. 87487100 0. 84792000 -4. 55771800 3. 15726300 3. 42287300 -4. 19382700 0. 87861600 -0. 91236200 3. 36196500 -2. 78881700 -3. 22491100 3. 66881100 -0. 25653400 0. 34415000 -1. 02195600 2. 65641600	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700 2. 41430500 -1. 22594400 -4. 09166200 -3. 56401200 -1. 51140800 2. 75354900 -1. 95294800 1. 19809100 3. 97032100 2. 93800900 1. 30225700 -1. 55264400	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 98908300 0. 81190600 0. 83319500 -1. 57386100 -1. 73031200 -0. 97792000 -1. 51684600 -1. 55985200 -1. 17071000 1. 23402100 1. 69139700 0. 88971200
<b>{</b> [ <i>cis</i> - <b>A</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$I(OH)_2(H_2O)_3CI] \cdot (H_2O)_{13} ^0 (I)$ $0.09494900$ $-0.56080800$ $1.70873000$ $0.59612700$ $-1.52745900$ $0.87487100$ $0.84792000$ $-4.55771800$ $3.15726300$ $3.42287300$ $-4.19382700$ $0.87861600$ $-0.91236200$ $3.36196500$ $-2.78881700$ $-3.22491100$ $3.66881100$ $-0.25653400$ $0.34415000$ $-1.02195600$ $2.65641600$ $-2.13420600$	0.14751900 1.57091400 -0.10128800 -1.25829700 0.25667700 1.43463700 3.79497600 1.56857100 -2.37223700 2.41430500 -1.22594400 -4.09166200 -3.56401200 -1.51140800 2.75354900 -1.95294800 1.19809100 3.97032100 2.93800900 1.30225700 -1.55264400 0.71640700	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 98908300 0. 81190600 0. 83319500 -1. 57386100 -1. 57386100 -1. 57386100 -1. 51684600 -1. 55985200 -1. 17071000 1. 23402100 1. 69139700 0. 88971200 1. 06385700
<b>{</b> [ <i>cis</i> - <b>A</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{aligned} \mathbf{l(OH)_2(H_2O)_3Cl]}\cdot(\mathbf{H_2O})_{13}}^0(\mathbf{I}) \\ & 0. \ 09494900 \\ -0. \ 56080800 \\ 1. \ 70873000 \\ 0. \ 59612700 \\ -1. \ 52745900 \\ 0. \ 87487100 \\ 0. \ 87487100 \\ 0. \ 87487100 \\ 0. \ 87487100 \\ 0. \ 8748700 \\ -4. \ 55771800 \\ 3. \ 15726300 \\ 3. \ 42287300 \\ -4. \ 19382700 \\ 0. \ 87861600 \\ -0. \ 91236200 \\ 3. \ 36196500 \\ -2. \ 78881700 \\ -3. \ 22491100 \\ 3. \ 66881100 \\ -0. \ 25653400 \\ 0. \ 34415000 \\ -1. \ 02195600 \\ 2. \ 65641600 \\ 2. \ 13420600 \\ 0. \ 13332800 \end{aligned}$	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700 2. 41430500 -1. 22594400 -4. 09166200 -3. 56401200 -1. 51140800 2. 75354900 -1. 95294800 1. 19809100 3. 97032100 2. 93800900 1. 30225700 -1. 55264400 0. 71640700 -2. 12057700	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 98908300 0. 81190600 0. 83319500 -1. 57386100 -1. 57386100 -1. 57386100 -1. 51684600 -1. 55985200 -1. 17071000 1. 23402100 1. 69139700 0. 88971200 1. 06385700 -1. 43218700
<b>{</b> [ <i>cis</i> - <b>A</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{aligned} \mathbf{l}(\mathbf{OH})_{2}(\mathbf{H}_{2}\mathbf{O})_{3}\mathbf{Cl}]\cdot(\mathbf{H}_{2}\mathbf{O})_{13}\}^{0}(\mathbf{I}) \\ & 0. \ 09494900 \\ & -0. \ 56080800 \\ & 1. \ 70873000 \\ & 0. \ 59612700 \\ & -1. \ 52745900 \\ & 0. \ 87487100 \\ & 0. \ 87487100 \\ & 0. \ 87487100 \\ & 0. \ 87487100 \\ & 0. \ 87487100 \\ & 0. \ 87487100 \\ & -4. \ 55771800 \\ & 3. \ 15726300 \\ & 3. \ 42287300 \\ & -4. \ 19382700 \\ & 0. \ 87861600 \\ & -0. \ 91236200 \\ & 3. \ 36196500 \\ & -2. \ 78881700 \\ & -3. \ 22491100 \\ & 3. \ 66881100 \\ & -0. \ 25653400 \\ & 0. \ 34415000 \\ & -1. \ 02195600 \\ & 2. \ 65641600 \\ & 2. \ 13420600 \\ & 0. \ 13332800 \\ & 1. \ 54846200 \end{aligned}$	0. 14751900 1. 57091400 -0. 10128800 -1. 25829700 0. 25667700 1. 43463700 3. 79497600 1. 56857100 -2. 37223700 2. 41430500 -1. 22594400 -4. 09166200 -3. 56401200 -1. 51140800 2. 75354900 -1. 95294800 1. 19809100 3. 97032100 2. 93800900 1. 30225700 -1. 55264400 0. 71640700 -2. 12057700 -1. 38818100	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 98908300 0. 81190600 0. 83319500 -1. 57386100 -1. 57386100 -1. 57386100 -1. 55985200 -1. 51684600 -1. 55985200 -1. 17071000 1. 23402100 1. 69139700 0. 88971200 1. 06385700 -1. 43218700 -1. 55915000
<b>{</b> [ <i>cis</i> - <b>A</b> A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$I(OH)_2(H_2O)_3CI] \cdot (H_2O)_{13}^0 (I)$ 0. 09494900 -0. 56080800 1. 70873000 0. 59612700 -1. 52745900 0. 87487100 0. 87487100 0. 84792000 -4. 55771800 3. 15726300 3. 42287300 -4. 19382700 0. 87861600 -0. 91236200 3. 36196500 -2. 78881700 -3. 22491100 3. 66881100 -0. 25653400 0. 34415000 -1. 02195600 2. 65641600 2. 13420600 0. 13332800 1. 54846200 -2. 07639400	0.14751900 1.57091400 -0.10128800 -1.25829700 0.25667700 1.43463700 3.79497600 1.56857100 -2.37223700 2.41430500 -1.22594400 -4.09166200 -3.56401200 -1.51140800 2.75354900 -1.95294800 1.19809100 3.97032100 2.93800900 1.30225700 -1.55264400 0.71640700 -2.12057700 -1.38818100 1.04957900	-0. 04599500 0. 89254400 0. 77598800 -1. 36901600 -1. 24507800 -1. 39336800 1. 14670500 0. 87846500 0. 64487000 0. 98908300 0. 81190600 0. 83319500 -1. 57386100 -1. 57386100 -1. 57386100 -1. 57386100 -1. 55985200 -1. 17071000 1. 23402100 1. 69139700 0. 88971200 1. 06385700 -1. 43218700 -1. 55915000 -1. 08423300

Н	1.84823500	1.47754100	-1.47160400
Н	0.50720100	2.34228900	-1.43812900
Н	1.78181600	3. 53211900	1.17631700
Н	2.50739400	-3.09624700	0.74133800
Н	-4.39706900	-0.27037500	0.86413100
Н	-3. 34455200	-1.32521500	1.27717000
Н	-3.90250600	2.08420400	0.37297500
Н	-4.68627700	2.03409400	1.70997600
Н	3.74587900	2.02274000	0.15781700
Н	4. 11019300	2.28584900	1.65011600
Н	0.34605600	-4.21254400	0.03423100
Н	0.34986700	-3.45073300	1.33526100
Н	-1.79393400	-3.15188800	-1.44848900
Н	-0.96970300	-4.06829700	-2.39175000
Н	-1.93937400	3.24300900	-0.90671200
Н	-3.24961400	3.13044400	-1.73473400
Н	3.67549500	0.21046500	-1.61892600
Н	4. 19200300	1.52032900	-2.30063900
Н	3. 40038100	-1.95459300	-0.80430500
Н	3.81650000	-2.08735600	-2.35254300
Н	-3.69847000	-1.74247900	-0.65514900
Н	-3.90536500	-2.04124500	-2.19187800
Н	0.21349400	4.07367200	-0.27805000
Н	-0.09038500	4.76816800	-1.68178300
C1	-1.04098000	-1.49268400	1.28531300
Н	0.47066500	-0.95378400	3.77219000
0	1.31248500	-0.49889900	3.66996200
Н	1. 41117000	-0.43203600	2.70439300
H	1. 41117000	-0. 43203600	2.70439300
H {[cis-Al(OH) <sub>2</sub> (	1. 41117000 H₂O)₄]·(H₂O)₁₂Cl} <sup>0</sup> (O) 0. 38536700	-0. 43203600	2.70439300
H {[cis-Al(OH) <sub>2</sub> ( A1	1. 41117000 <b>H₂O)₄]·(H₂O)₁₂Cl}<sup>0</sup>(O) 0. 38536700 0. 74729800</b>	-0. 43203600 0. 18807300 -1. 10568900	2.70439300 0.34081700 -0.87455000
H {[ <i>cis</i> -Al(OH) <sub>2</sub> ( A1 0 0	1. 41117000 <b>H₂O)₄]·(H₂O)₁₂Cl}<sup>0</sup>(O)</b> 0. 38536700 0. 74729800 1. 08250100	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100
H {[ <i>cis</i> -Al(OH) <sub>2</sub> ( A1 0 0	1. 41117000 <b>H₂O)₄]·(H₂O)₁₂Cl}<sup>0</sup>(O) 0. 38536700 0. 74729800 1. 08250100 −1. 47917500</b>	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100 -0. 18870800
H {[ <i>cis</i> -Al(OH) <sub>2</sub> ( A1 0 0 0	1. 41117000 <b>H₂O)₄]·(H₂O)₁₂Cl}<sup>0</sup>(O)</b> 0. 38536700 0. 74729800 1. 08250100 −1. 47917500 0. 00181500	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100 -0. 18870800 1. 74532400
H {[ <i>cis</i> -Al(OH) <sub>2</sub> ( A1 0 0 0 0 0	1. 41117000 <b>H₂O)₄]·(H₂O)₁₂Cl}<sup>0</sup>(O)</b> 0. 38536700 0. 74729800 1. 08250100 −1. 47917500 0. 00181500 −0. 31326200	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100 -0. 18870800 1. 74532400 1. 66557300
H {[ <i>cis</i> -Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0	1. 41117000 <b>H₂O)₄]·(H₂O)₁₂Cl}<sup>0</sup>(O)</b> 0. 38536700 0. 74729800 1. 08250100 −1. 47917500 0. 00181500 −0. 31326200 2. 14440900	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100 -0. 18870800 1. 74532400 1. 66557300 1. 26417500
H {[cis-Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0	1. 41117000 <b>H₂O)₄]·(H₂O)₁₂Cl}<sup>0</sup>(O)</b> 0. 38536700 0. 74729800 1. 08250100 −1. 47917500 0. 00181500 −0. 31326200 2. 14440900 3. 18937000	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100 -0. 18870800 1. 74532400 1. 66557300 1. 26417500 -1 66404900
H {[cis-Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0 0	1. 41117000 <b>H<sub>2</sub>O)<sub>4</sub>]·(H<sub>2</sub>O)<sub>12</sub>Cl}<sup>0</sup>(O) 0. 38536700 0. 74729800 1. 08250100 -1. 47917500 0. 00181500 -0. 31326200 2. 14440900 3. 18937000 -0. 97678400</b>	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100 -0. 18870800 1. 74532400 1. 66557300 1. 26417500 -1. 66404900 -0. 93451400
H {[ <i>cis</i> -Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0 0 0 0 0	1. $41117000$ $H_2O)_4] \cdot (H_2O)_{12}Cl\}^0 (O)$ 0. $38536700$ 0. $74729800$ 1. $08250100$ -1. $47917500$ 0. $00181500$ -0. $31326200$ 2. $14440900$ 3. $18937000$ -0. $97678400$ -0. $27127000$	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100 -0. 18870800 1. 74532400 1. 66557300 1. 26417500 -1. 66404900 -0. 93451400 -1. 08221900
H {[ <i>cis</i> -Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1. 41117000 <b>H<sub>2</sub>O)<sub>4</sub>]·(H<sub>2</sub>O)<sub>12</sub>Cl}<sup>0</sup>(O) 0. 38536700 0. 74729800 1. 08250100 -1. 47917500 0. 00181500 -0. 31326200 2. 14440900 3. 18937000 -0. 97678400 -0. 27127000 4. 81629700</b>	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900 0. 49912500	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100 -0. 18870800 1. 74532400 1. 66557300 1. 26417500 -1. 66404900 -0. 93451400 -1. 08221900 -1. 68243200
H {[cis-Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1. $41117000$ $H_2O)_4] \cdot (H_2O)_{12}Cl\}^0(O)$ 0. $38536700$ 0. $74729800$ 1. $08250100$ -1. $47917500$ 0. $00181500$ -0. $31326200$ 2. $14440900$ 3. $18937000$ -0. $97678400$ -0. $27127000$ 4. $81629700$ -3. $49576800$	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900 0. 49912500 -2. 37045500	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100 -0. 18870800 1. 74532400 1. 66557300 1. 26417500 -1. 66404900 -0. 93451400 -1. 08221900 -1. 68243200 -0. 41364600
H {[ <i>cis</i> -Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1. 41117000 <b>H<sub>2</sub>O)<sub>4</sub>]·(H<sub>2</sub>O)<sub>12</sub>Cl}<sup>0</sup>(O) 0. 38536700 0. 74729800 1. 08250100 -1. 47917500 0. 00181500 -0. 31326200 2. 14440900 3. 18937000 -0. 97678400 -0. 27127000 4. 81629700 -3. 49576800 -2. 86155600</b>	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900 0. 49912500 -2. 37045500 2. 63999600	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100 -0. 18870800 1. 74532400 1. 66557300 1. 26417500 -1. 66404900 -0. 93451400 -1. 08221900 -1. 68243200 -0. 41364600 -1. 23445900
H {[ <i>cis</i> -Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1. $41117000$ <b>H<sub>2</sub>O)<sub>4</sub>]·(H<sub>2</sub>O)<sub>12</sub>Cl}<sup>0</sup>(O) 0. <math>38536700</math> 0. <math>74729800</math> 1. <math>08250100</math> -1. <math>47917500</math> 0. <math>00181500</math> -0. <math>31326200</math> 2. <math>14440900</math> 3. <math>18937000</math> -0. <math>97678400</math> -0. <math>27127000</math> 4. <math>81629700</math> -3. <math>49576800</math> -2. <math>86155600</math> -2. <math>51261400</math></b>	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900 0. 49912500 -2. 37045500 2. 63999600 1. 22859700	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100 -0. 18870800 1. 74532400 1. 66557300 1. 26417500 -1. 66404900 -0. 93451400 -1. 08221900 -1. 68243200 -0. 41364600 -1. 23445900 2. 74902400
H {[ <i>cis</i> -Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1. $41117000$ $H_2O)_4] \cdot (H_2O)_{12}Cl\}^0(O)$ 0. $38536700$ 0. $74729800$ 1. $08250100$ -1. $47917500$ 0. $00181500$ -0. $31326200$ 2. $14440900$ 3. $18937000$ -0. $97678400$ -0. $27127000$ 4. $81629700$ -3. $49576800$ -2. $86155600$ -2. $51261400$ 0. $62980600$	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900 0. 49912500 -2. 37045500 2. 63999600 1. 22859700 4. 08117300	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100 -0. 18870800 1. 74532400 1. 66557300 1. 26417500 -1. 66404900 -0. 93451400 -1. 08221900 -1. 68243200 -0. 41364600 -1. 23445900 2. 74902400 1. 39663200
H {[cis-Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1. $41117000$ <b>H<sub>2</sub>O)<sub>4</sub>]·(<b>H<sub>2</sub>O)<sub>12</sub>Cl</b><sup>9</sup>(<b>O</b>) 0. <math>38536700</math> 0. <math>74729800</math> 1. <math>08250100</math> -1. <math>47917500</math> 0. <math>00181500</math> -0. <math>31326200</math> 2. <math>14440900</math> 3. <math>18937000</math> -0. <math>97678400</math> -0. <math>27127000</math> 4. <math>81629700</math> -3. <math>49576800</math> -2. <math>86155600</math> -2. <math>51261400</math> 0. <math>62980600</math> 0. <math>83990800</math></b>	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900 0. 49912500 -2. 37045500 2. 63999600 1. 22859700 4. 08117300 -3. 67548500	2. 70439300 0. 34081700 -0. 87455000 -0. 71135100 -0. 18870800 1. 74532400 1. 66557300 1. 26417500 -1. 66404900 -0. 93451400 -1. 08221900 -1. 68243200 -0. 41364600 -1. 23445900 2. 74902400 1. 39663200 1. 25268200
H {[cis-Al(OH) <sub>2</sub> ( Al 0 0 0 0 0 0 0 0 0 0 0 0 0	1. $41117000$ <b>H<sub>2</sub>O)<sub>4</sub>]·(<b>H<sub>2</sub>O)<sub>12</sub>Cl</b><sup>9</sup>(<b>O</b>) 0. <math>38536700</math> 0. <math>74729800</math> 1. <math>08250100</math> -1. <math>47917500</math> 0. <math>00181500</math> -0. <math>31326200</math> 2. <math>14440900</math> 3. <math>18937000</math> -0. <math>97678400</math> -0. <math>27127000</math> 4. <math>81629700</math> -3. <math>49576800</math> -2. <math>86155600</math> -2. <math>51261400</math> 0. <math>62980600</math> 0. <math>83990800</math> -3. <math>02380500</math></b>	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900 0. 49912500 -2. 37045500 2. 63999600 1. 22859700 4. 08117300 -3. 67548500 -1. 39426500	$\begin{array}{c} 2.\ 70439300\\ 0.\ 34081700\\ -0.\ 87455000\\ -0.\ 71135100\\ -0.\ 18870800\\ 1.\ 74532400\\ 1.\ 66557300\\ 1.\ 26417500\\ -1.\ 66404900\\ -0.\ 93451400\\ -1.\ 08221900\\ -1.\ 68243200\\ -0.\ 41364600\\ -1.\ 23445900\\ 2.\ 74902400\\ 1.\ 39663200\\ 1.\ 25268200\\ 1.\ 94656200\\ \end{array}$
H {[cis-Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1. $41117000$ H <sub>2</sub> O) <sub>4</sub> ]·(H <sub>2</sub> O) <sub>12</sub> Cl} <sup>0</sup> (O) 0. $38536700$ 0. $74729800$ 1. $08250100$ -1. $47917500$ 0. $00181500$ -0. $31326200$ 2. $14440900$ 3. $18937000$ -0. $97678400$ -0. $27127000$ 4. $81629700$ -3. $49576800$ -2. $86155600$ -2. $51261400$ 0. $62980600$ 0. $83990800$ -3. $02380500$ 3. $45651100$	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900 0. 49912500 -2. 37045500 2. 63999600 1. 22859700 4. 08117300 -3. 67548500 -1. 39426500 2. 06840500	2. $70439300$ 0. $34081700$ -0. $87455000$ -0. $71135100$ -0. $18870800$ 1. $74532400$ 1. $66557300$ 1. $26417500$ -1. $66404900$ -0. $93451400$ -1. $08221900$ -1. $68243200$ -0. $41364600$ -1. $23445900$ 2. $74902400$ 1. $39663200$ 1. $25268200$ 1. $94656200$ 0. $18270800$
H {[cis-Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1. $41117000$ <b>H<sub>2</sub>O)<sub>4</sub>]·(H<sub>2</sub>O)<sub>12</sub>Cl}<sup>0</sup>(O) 0. <math>38536700</math> 0. <math>74729800</math> 1. <math>08250100</math> -1. <math>47917500</math> 0. <math>00181500</math> -0. <math>31326200</math> 2. <math>14440900</math> 3. <math>18937000</math> -0. <math>97678400</math> -0. <math>27127000</math> 4. <math>81629700</math> -3. <math>49576800</math> -2. <math>86155600</math> -2. <math>51261400</math> 0. <math>62980600</math> 0. <math>83990800</math> -3. <math>02380500</math> 3. <math>45651100</math> 3. <math>26926400</math></b>	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900 0. 49912500 -2. 37045500 2. 63999600 1. 22859700 4. 08117300 -3. 67548500 -1. 39426500 2. 06840500 -2. 58537600	$\begin{array}{c} 2.\ 70439300\\ 0.\ 34081700\\ -0.\ 87455000\\ -0.\ 71135100\\ -0.\ 18870800\\ 1.\ 74532400\\ 1.\ 66557300\\ 1.\ 26417500\\ -1.\ 66404900\\ -0.\ 93451400\\ -1.\ 08221900\\ -1.\ 68243200\\ -0.\ 41364600\\ -1.\ 23445900\\ 2.\ 74902400\\ 1.\ 39663200\\ 1.\ 25268200\\ 1.\ 94656200\\ 0.\ 18270800\\ 0.\ 75864500\\ \end{array}$
H {[cis-Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0 0 0 0 0	1. $41117000$ <b>H<sub>2</sub>O)<sub>4</sub>]·(<b>H<sub>2</sub>O)<sub>12</sub>Cl</b><sup>9</sup>(<b>O</b>) 0. <math>38536700</math> 0. <math>74729800</math> 1. <math>08250100</math> -1. <math>47917500</math> 0. <math>00181500</math> -0. <math>31326200</math> 2. <math>14440900</math> 3. <math>18937000</math> -0. <math>97678400</math> -0. <math>27127000</math> 4. <math>81629700</math> -3. <math>49576800</math> -2. <math>86155600</math> -2. <math>51261400</math> 0. <math>62980600</math> 0. <math>83990800</math> -3. <math>02380500</math> 3. <math>45651100</math> 3. <math>26926400</math> 2. <math>25436300</math></b>	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900 0. 49912500 -2. 37045500 2. 63999600 1. 22859700 4. 08117300 -3. 67548500 -1. 39426500 2. 06840500 -2. 58537600 -1. 49960500	$\begin{array}{c} 2.\ 70439300\\ \hline 0.\ 34081700\\ \hline -0.\ 87455000\\ \hline -0.\ 71135100\\ \hline -0.\ 18870800\\ \hline 1.\ 74532400\\ \hline 1.\ 66557300\\ \hline 1.\ 26417500\\ \hline -1.\ 66404900\\ \hline -0.\ 93451400\\ \hline -1.\ 08221900\\ \hline -1.\ 68243200\\ \hline -0.\ 41364600\\ \hline -1.\ 23445900\\ \hline 2.\ 74902400\\ \hline 1.\ 39663200\\ \hline 1.\ 25268200\\ \hline 1.\ 94656200\\ \hline 0.\ 18270800\\ \hline 0.\ 75864500\\ \hline -1.\ 54792200\\ \end{array}$
Н {[cis-Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0 0 0 0 0	1. $41117000$ $H_2O)_4] \cdot (H_2O)_{12}Cl\}^0(O)$ 0. $38536700$ 0. $74729800$ 1. $08250100$ -1. $47917500$ 0. $00181500$ -0. $31326200$ 2. $14440900$ 3. $18937000$ -0. $97678400$ -0. $97678400$ -0. $27127000$ 4. $81629700$ -3. $49576800$ -2. $86155600$ -2. $51261400$ 0. $62980600$ 0. $83990800$ -3. $02380500$ 3. $45651100$ 3. $26926400$ 2. $25436300$ 0. $06038300$	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900 0. 49912500 -2. 37045500 2. 63999600 1. 22859700 4. 08117300 -3. 67548500 -1. 39426500 2. 06840500 -2. 58537600 -1. 49960500 -1. 71777200	2. $70439300$ 0. $34081700$ -0. $87455000$ -0. $71135100$ -0. $18870800$ 1. $74532400$ 1. $66557300$ 1. $26417500$ -1. $66404900$ -0. $93451400$ -1. $08221900$ -1. $68243200$ -0. $41364600$ -1. $23445900$ 2. $74902400$ 1. $39663200$ 1. $25268200$ 1. $94656200$ 0. $18270800$ 0. $75864500$ -1. $54792200$ -1. $16065600$
Н {[cis-Al(OH) <sub>2</sub> ( A1 0 0 0 0 0 0 0 0 0 0 0 0 0	1. $41117000$ $H_2O)_4] \cdot (H_2O)_{12}Cl\}^0$ (O) 0. $38536700$ 0. $74729800$ 1. $08250100$ -1. $47917500$ 0. $00181500$ -0. $31326200$ 2. $14440900$ 3. $18937000$ -0. $97678400$ -0. $27127000$ 4. $81629700$ -3. $49576800$ -2. $86155600$ -2. $51261400$ 0. $62980600$ 0. $83990800$ -3. $02380500$ 3. $45651100$ 3. $26926400$ 2. $25436300$ 0. $06038300$ 0. $20542600$	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900 0. 49912500 -2. 37045500 2. 63999600 1. 22859700 4. 08117300 -3. 67548500 -1. 39426500 2. 06840500 -2. 58537600 -1. 49960500 -1. 71777200 3. 07180800	2. $70439300$ 0. $34081700$ -0. $87455000$ -0. $71135100$ -0. $18870800$ 1. $74532400$ 1. $66557300$ 1. $26417500$ -1. $66404900$ -0. $93451400$ -1. $08221900$ -1. $68243200$ -0. $41364600$ -1. $23445900$ 2. $74902400$ 1. $39663200$ 1. $25268200$ 1. $94656200$ 0. $18270800$ 0. $75864500$ -1. $54792200$ -1. $16065600$ -1. $10529100$
Н {[cis-Al(OH) <sub>2</sub> ( Al 0 0 0 0 0 0 0 0 0 0 0 0 0	1. $41117000$ $H_2O)_4] \cdot (H_2O)_{12}Cl\}^0$ (O) 0. $38536700$ 0. $74729800$ 1. $08250100$ -1. $47917500$ 0. $00181500$ -0. $31326200$ 2. $14440900$ 3. $18937000$ -0. $97678400$ -0. $27127000$ 4. $81629700$ -3. $49576800$ -2. $86155600$ -2. $51261400$ 0. $62980600$ 0. $83990800$ -3. $02380500$ 3. $45651100$ 3. $26926400$ 2. $25436300$ 0. $06038300$ 0. $20542600$ 1. $19866400$	-0. 43203600 0. 18807300 -1. 10568900 1. 56604100 0. 45501800 1. 50090900 -1. 15080300 -0. 09109300 -1. 82063100 -3. 64146700 3. 93240900 0. 49912500 -2. 37045500 2. 63999600 1. 22859700 4. 08117300 -3. 67548500 -1. 39426500 2. 06840500 -2. 58537600 -1. 49960500 -1. 71777200 3. 07180800 1. 18362200	$\begin{array}{c} 2.\ 70439300\\ \\ 0.\ 34081700\\ \\ -0.\ 87455000\\ \\ -0.\ 71135100\\ \\ -0.\ 18870800\\ \\ 1.\ 74532400\\ \\ 1.\ 66557300\\ \\ 1.\ 26417500\\ \\ -1.\ 66404900\\ \\ -0.\ 93451400\\ \\ -1.\ 08221900\\ \\ -1.\ 68243200\\ \\ -0.\ 41364600\\ \\ -1.\ 23445900\\ \\ 2.\ 74902400\\ \\ 1.\ 39663200\\ \\ 1.\ 25268200\\ \\ 1.\ 94656200\\ \\ 0.\ 18270800\\ \\ 0.\ 75864500\\ \\ -1.\ 54792200\\ \\ -1.\ 16065600\\ \\ -1.\ 10529100\\ \\ -1.\ 58922200\\ \end{array}$

	-1 86129100	1 35393900	-0 17976900
н	-0.85266000	1 42716200	2 22786300
н	0.00200000	2 46217600	1 65738200
11	0.25205400	2.40217000	1.57609900
11	1 29529600	-2.0477200	1. 57090000
п	-1.28038000	-1.25878900	1. 78831500
H	2. 79156000	0.62554200	1.09205900
H	2.60208500	-0.95232000	1.15035300
H	3. 74497300	-1.03125000	-1.80829900
Н	-1.19899600	3. 70101000	-1.25605100
Н	-2.71060500	-2.89352100	-0.65560900
Н	-3.58383800	-1.70884300	-1.13534400
Н	-0.31333300	-3.83891200	-0.24859200
Н	-0.78661500	-4.21202400	-1.68547900
Н	4. 48547400	1.17639700	-1.05988900
Н	5.16465800	0.97313300	-2.44270500
Н	-3.71628200	2.98883600	-0.96219500
Н	-3.06264600	1.90411500	-1.86335000
Н	-2.86231600	0.36019200	2.46006500
Н	-2.83643200	1.37293000	3.64261400
Н	1.77240300	-3. 40348500	1.06215800
Н	0.88316000	-4.34964300	1.93843100
Н	2.53575800	2.05327200	-0.23069600
Н	3.56435700	2.92902200	0.60060500
Н	0.23188500	4.23337800	0.49651900
Н	0.35934000	4.81156800	1.95987600
Н	-3.27586100	-1.71338400	1.01790900
Н	-3,43642600	-2.01197100	2.55876000
Н	3, 35689500	-2.36224000	-0.23956400
Н	4, 12862600	-2.88405300	1.07189500
	112002000	0.10707700	0.50400000
CI	-3.11382600	-0.13787700	-2.58466600
CI	-3.11382600	-0.13787700	-2.58466600
(] {[ <i>trans</i> -Al(O	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> } <sup>0</sup> (J	-0. 13787700	-2.58466600
CI {[ <i>trans</i> -Al(O Al	-3. 11382600 9 <b>H)<sub>2</sub>(H<sub>2</sub>O)<sub>3</sub>Cl]·(H<sub>2</sub>O)<sub>13</sub>}⁰(</b> 1 −0. 12381800	-0. 13787700 <b>I)</b> 0. 06009000	-2. 58466600
C1 {[ <i>trans</i> -Al(O A1 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> } <sup>0</sup> (J −0. 12381800 0. 49877300	-0. 13787700 <b>D</b> 0. 06009000 -1. 38089700	-2. 58466600 -0. 18389900 -1. 36804200
C1 {[ <i>trans</i> -Al(O A1 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]∙(H <sub>2</sub> O) <sub>13</sub> } <sup>0</sup> (1 −0. 12381800 0. 49877300 0. 76257400	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900	-2. 58466600 -0. 18389900 -1. 36804200 -1. 14814000
C1 {[ <i>trans</i> -Al(O A1 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> } <sup>0</sup> (J −0. 12381800 0. 49877300 0. 76257400 −1. 71857900	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500	-2. 58466600 -0. 18389900 -1. 36804200 -1. 14814000 -1. 30924900
C1 { <b>[trans-Al(O</b> A1 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> } <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400	-2. 58466600 -0. 18389900 -1. 36804200 -1. 14814000 -1. 30924900 1. 03085800
C1 {[ <i>trans</i> -Al(O A1 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> } <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500	-2. 58466600 -0. 18389900 -1. 36804200 -1. 14814000 -1. 30924900 1. 03085800 0. 93670100
C1 {[ <i>trans</i> -Al(O A1 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> <sup>9</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600	-2. 58466600 -0. 18389900 -1. 36804200 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400
C1 {[ <i>trans</i> -Al(O A1 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100	-2. 58466600 -0. 18389900 -1. 36804200 -1. 14814000 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600
C1 {[ <i>trans</i> -Al(O A1 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000	-2. 58466600 -0. 18389900 -1. 36804200 -1. 14814000 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1 67592800
C1 {[ <i>trans</i> -Al(O A1 0 0 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700 3. 72611100	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000 1. 15476500	-2. 58466600 -0. 18389900 -1. 36804200 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1. 67592800 -1 54967900
C1 {[ <i>trans</i> -Al(O A1 0 0 0 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700 3. 72611100 -3. 29040700	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000 1. 15476500 -1. 97481600	-2. 58466600 -0. 18389900 -1. 36804200 -1. 14814000 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1. 67592800 -1. 54967900 -1. 58836500
C1 {[ <i>trans</i> -Al(O A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700 3. 72611100 -3. 29040700 -3. 00961700	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000 1. 15476500 -1. 97481600 2. 59280400	-2. 58466600 -0. 18389900 -1. 36804200 -1. 14814000 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1. 67592800 -1. 54967900 -1. 58836500 -1. 29555100
C1 {[trans-Al(O A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700 3. 72611100 -3. 29040700 -3. 00961700 -3. 40899200	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000 1. 15476500 -1. 97481600 2. 59280400 1. 72144800	-2. 58466600 -0. 18389900 -1. 36804200 -1. 14814000 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1. 67592800 -1. 54967900 -1. 58836500 -1. 29555100 1. 29654100
C1 {[ <i>trans</i> -Al(O A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700 3. 72611100 -3. 29040700 -3. 00961700 -3. 40899200 0. 70858000	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000 1. 15476500 -1. 97481600 2. 59280400 1. 72144800 3. 89111000	-2. 58466600 -0. 18389900 -1. 36804200 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1. 67592800 -1. 54967900 -1. 58836500 -1. 29555100 1. 29654100 0. 82135100
C1 {[ <i>trans</i> -Al(O A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700 3. 72611100 -3. 29040700 -3. 00961700 -3. 40899200 0. 70858000 -0. 09856600	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000 1. 15476500 -1. 97481600 2. 59280400 1. 72144800 3. 89111000 -3. 78628200	-2. 58466600 -0. 18389900 -1. 36804200 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1. 67592800 -1. 54967900 -1. 58836500 -1. 29555100 1. 29654100 0. 82135100 0. 87502100
C1 {[ <i>trans</i> -Al(O A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700 3. 72611100 -3. 29040700 -3. 00961700 -3. 40899200 0. 70858000 -0. 09856600 2. 62582000	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000 1. 15476500 -1. 97481600 2. 59280400 1. 72144800 3. 89111000 -3. 78628200 -0. 95751800	-2. 58466600 -0. 18389900 -1. 36804200 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1. 67592800 -1. 54967900 -1. 58836500 -1. 29555100 1. 29654100 0. 82135100 0. 87502100 1. 14525000
C1 {[trans-Al(O A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700 3. 72611100 -3. 29040700 -3. 00961700 -3. 40899200 0. 70858000 -0. 09856600 -3. 62583900 2. 20202700	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000 1. 15476500 -1. 97481600 2. 59280400 1. 72144800 3. 89111000 -3. 78628200 -0. 95751800 2. 60261800	-2. 58466600 -0. 18389900 -1. 36804200 -1. 14814000 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1. 59026600 -1. 54967900 -1. 58836500 -1. 29555100 1. 29654100 0. 82135100 0. 87502100 1. 14525000 0. 78127600
C1 {[trans-Al(O A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700 3. 72611100 -3. 29040700 -3. 00961700 -3. 40899200 0. 70858000 -0. 09856600 -3. 62583900 3. 30302700 2. 72407600	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000 1. 15476500 -1. 97481600 2. 59280400 1. 72144800 3. 89111000 -3. 78628200 -0. 95751800 2. 60361800 2. 23842000	-2. 58466600 -0. 18389900 -1. 36804200 -1. 14814000 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1. 5792800 -1. 54967900 -1. 58836500 -1. 29555100 1. 29654100 0. 82135100 0. 87502100 1. 14525000 0. 78137600 0. 66572100
C1 {[trans-Al(O A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700 3. 72611100 -3. 29040700 -3. 00961700 -3. 40899200 0. 70858000 -0. 09856600 -3. 62583900 3. 30302700 2. 72407600 1. 45520400	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000 1. 15476500 -1. 97481600 2. 59280400 1. 72144800 3. 89111000 -3. 78628200 -0. 95751800 2. 60361800 -3. 22842000 1. 50700000	-2. 58466600 -0. 18389900 -1. 36804200 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1. 67592800 -1. 54967900 -1. 54967900 -1. 58836500 -1. 29555100 1. 29555100 1. 29654100 0. 82135100 0. 87502100 1. 14525000 0. 78137600 0. 66572100 1. 77025200
C1 {[trans-Al(O A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700 3. 72611100 -3. 29040700 -3. 00961700 -3. 40899200 0. 70858000 -0. 09856600 -3. 62583900 3. 30302700 2. 72407600 1. 45820400 0. 00710500	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000 1. 15476500 -1. 97481600 2. 59280400 1. 72144800 3. 89111000 -3. 78628200 -0. 95751800 2. 60361800 -3. 22842000 -1. 50700800 2. 920472020	-2. 58466600 -0. 18389900 -1. 36804200 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1. 67592800 -1. 54967900 -1. 54967900 -1. 58836500 -1. 29555100 1. 29654100 0. 82135100 0. 87502100 1. 14525000 0. 78137600 0. 66572100 -1. 57035200 1. 51007000
C1 {[trans-Al(O A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700 3. 72611100 -3. 29040700 -3. 00961700 -3. 40899200 0. 70858000 -0. 09856600 -3. 62583900 3. 30302700 2. 72407600 1. 45820400 0. 00719500 1. 60241000	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000 1. 15476500 -1. 97481600 2. 59280400 1. 72144800 3. 89111000 -3. 78628200 -0. 95751800 2. 60361800 -3. 22842000 -1. 50700800 -2. 22047000 1. 10722520	-2. 58466600 -0. 18389900 -1. 36804200 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1. 67592800 -1. 54967900 -1. 58836500 -1. 29555100 1. 29654100 0. 82135100 0. 87502100 1. 14525000 0. 78137600 0. 66572100 -1. 57035200 -1. 51607800 1. 27502700
C1 {[trans-Al(O A1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-3. 11382600 PH) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> Cl]·(H <sub>2</sub> O) <sub>13</sub> ) <sup>0</sup> (1 -0. 12381800 0. 49877300 0. 76257400 -1. 71857900 -0. 69427100 -0. 93235100 3. 15630600 -1. 06031300 -0. 27976700 3. 72611100 -3. 29040700 -3. 00961700 -3. 40899200 0. 70858000 -0. 09856600 -3. 62583900 3. 30302700 2. 72407600 1. 45820400 0. 00719500 1. 69341900 9. 25490100	-0. 13787700 0. 06009000 -1. 38089700 1. 29355900 0. 21139500 1. 51704400 -1. 14996500 -1. 57219600 -3. 62650100 3. 67936000 1. 15476500 -1. 97481600 2. 59280400 1. 72144800 3. 89111000 -3. 78628200 -0. 95751800 2. 60361800 -3. 22842000 -1. 50700800 -2. 22047000 1. 18733500 0. 52625200	-2. 58466600 -0. 18389900 -1. 36804200 -1. 30924900 1. 03085800 0. 93670100 -1. 79351400 -1. 59026600 -1. 5792800 -1. 54967900 -1. 54967900 -1. 58836500 -1. 29555100 1. 29654100 0. 82135100 0. 87502100 1. 14525000 0. 78137600 0. 66572100 -1. 57035200 -1. 37593700 1. 4920200

Н	-2.19570200	1.06679100	-1.42501700
Н	-1.63847500	1.66511600	1.26560400
Н	-0.20773500	2.37375100	1.02458400
Н	-0.39122700	-2.84563600	0.96503800
Н	-0.73170400	-0.99839800	1.87581400
Н	3. 47009000	-0.65341200	-1.64369200
H	3, 47164900	-1.82038200	-2.67889700
Н	-1, 23666100	3. 52618600	-1.62160100
Н	0 12074200	2 76771700	-1 60015100
Н	-2.62612500	-2.69524200	-1 64399800
Н	-3.85710400	-2 06060200	-2 37326700
Н	-0.75073100	-3 94344400	-0.70038500
Н	-0.89841100	-4 33998500	-2 23036800
н	3 70215200	1.75017800	-0.76571400
н	<i>4</i> 21183600	1.62826700	-2 24366700
Ц	-3 36862700	2 48598800	-0.38943500
н	-3 76633200	2.40390000	-1 87898700
	-3.70033200	2.77310300	-1.07090700
П Ц	-3.05217500	2 12262000	2 04241000
п	-3.00400400	2.12302900	2.04241000
п	0.0700000	-3. 12793100	0.80805100
Н	2.48772300	3. 13/42400	0.72377000
H	2.98833800	1. 76924400	1.17853200
H	0.34741100	4. 06223800	-0.08382100
H	0. 50929000	4. 67235000	1.30317700
H	-3.96011800	-1. 34327100	0.32171300
H	-2.64299000	-1.09637800	1.08128600
H	3. 00764700	-3. 00167200	-0.23415300
H	2.60139900	-2.34618100	1.06498200
CI	2.02503400	-0.21212600	1. 39290000
0	-0.07194800	-0.71174900	3.71755300
H	0. 12934600	-1. 49165200	4.25836100
Н	0.75538300	-0.50821300	3.24445900
{[trans_A](	$\mathbf{OH}$ , $(\mathbf{H}, \mathbf{O})$ , $\mathbf{b}$ , $(\mathbf{H}, \mathbf{O})$ , $\mathbf{C}$ $\mathbf{N}^0$	0)	
A1	-0.41576400	-0 18706500	-0 38477600
0	-1 69875500	-0.93965200	0.97169200
0	0 30074800	0.87421000	0.94889100
0	0.84000800	-1 61191200	-0.07385200
0	0.82692500	0.54658500	-1 77580600
0	-1 29986000	-1 19381800	-1 62332300
0	-1.65305200	1.31085200	-0.82541700
0	-3 43030000	0.95061100	2 08944900
0	-2 00180700	-3 37484500	2.00544500
0	2. 50105700	2 88585300	0. 40370300
0	_1 20018800	2.54003800	0.09199400 2.10216200
0		4 12226700	2.19210300
0	-0.20090900	-4.12220700 1 91451100	-0.00002100
0	4. 31010200	1.21401100	0.43243100 -1 01400000
0	J. 44207900	-0.30101100	-1.91480200 -1.64044700
0	1.14040100	J. JUJ/UDUU	-1.04944700
0	-3. 81119800	-1.90202000	-1.57994900
0	4. 23171900	-2.40034900	-0.03700000
0		J. 70004800	-0.42234400
U	-4. 39326500	0. 78273200	-0.49015100
П	-2.29107000	-0.35/9/400	1.48893100

Н	-2.13867400	-1.80761600	0.84733100
Н	0.84229900	0.37191900	1.57470900
Н	1.52889900	-1.54676400	0.65146000
Н	0.50056800	-2.53886700	-0.10976600
Н	1.74314000	0.18036000	-1.80670300
Н	0.90340200	1.52051900	-1.85654300
Н	-2.87016300	-1.65376900	-1.72964900
Н	-0.87539500	-1.21412900	-2.48378700
Н	-1.57470400	2.26278600	-0.59832000
Н	-2.59303800	1.10014200	-0.97854700
Н	-2.71566000	1.66066800	2.17201300
Н	-3.84371400	0.86706900	2.95453300
Н	3.07583200	2.40452500	0.60609700
Н	1.55334900	2.19765200	0.82695600
Н	-1.16884000	-4.00154700	0.05647300
Н	0.05141300	-4.62870800	0.77321700
Н	-3.39007800	-2.96315500	-0.37260900
Н	-3.53847400	-3.88509700	0.91508600
Н	-1.34224600	3.33323200	1.62812600
Н	-0.69535400	1.93808300	1.82142200
Н	4.23753700	0.78121000	-0.36511000
Н	4.12907400	0.52374800	1.13812400
Н	3.68757400	-1.16620200	-1.49053300
Н	3.90882500	-0.27603100	-2.75638000
Н	-4.27087100	-1.16285600	-1.28671300
Н	-0.34473400	3.96020100	-0.91705700
Н	-1.72080200	4.69683400	-0.79691800
Н	1.70074900	3.26187300	-0.79573900
Н	1.64985100	3.88211300	-2.27989300
Н	3.91208800	-3.35908200	-0.66411100
Н	3.95357100	-2.20518900	0.37366800
Н	-4.25817600	0.88161500	0.47753300
Н	-5.14267400	1.33769500	-0.72728900
C1	2.92294400	-1.28785800	2.02119700
{[cis-Al(OH) <sub>3</sub> (H <sub>2</sub> O)O	$[H_2O]_{14}^{-}(I)$		
A1	-0.72627900	-0.46080000	-0.56670800
0	-0.55630800	-2.19889600	0.03774200
0	0.74175200	0.04107200	-1.42395700
0	-2.17892100	-0.55821500	-1.57024300
0	-1.03845900	0.62097500	0.78497800
0	4.37424000	-0.38532900	-0.26011600
0	2.56059300	-4.29606000	-1.27083800
0	-0.27931900	2.66261100	-2.38708200
0	2.95608400	1.67064900	-0.79982000
0	-4.40759700	-2.06138800	-1.03301800
0	-3.06510200	2.24494300	-1.68213100
0	-3.24242600	1.77362800	1.01882200
0	0.59997300	4.74673900	-0.78786900
0	1.47030200	-3.20832000	1.13909500
0	-4.63250000	-0.57254000	1.52337000
0	2.34284600	3. 47267800	1.10727600
0	2.96311700	-1.23793500	2.16713600
Н	5.31342800	-0.19792700	-0.17715300

Н	-1.38422700	-2.57645300	0.45984400
Н	0.13463600	1.79950100	-2.20464100
Н	1.29321300	-0.60164300	-1.88828700
Н	-2.53716600	0.28468000	-1.87803800
Н	-2.30192600	1.31947400	0.98394000
Н	-0.35777900	0.81067700	1.47169000
Н	3.89773000	0.50283300	-0.41418900
Н	-1.22694000	2.54384100	-2.20349400
Н	1.74750300	-4.59359500	-1.69065600
Н	-3.62218200	-1.55285000	-1.34948400
Н	2.00308400	-3.65006300	0.45300900
Н	2.77713200	-3.44615900	-1.70530800
Н	2.78995700	2.34347400	-0.08839200
Н	2.09965500	1.21580000	-0.94053600
Н	-3.22274500	2.20249800	-0.70902200
Н	-3.82426500	2.68828400	-2.06974600
Н	-4.18010300	0.29500100	1.40832500
Н	-3.15704900	2.48964000	1.65666300
Н	2.04251500	-2.51773900	1.57269900
Н	0.28224600	-2.59061400	0.50472200
Н	1.61523600	3.94893400	0.66834400
Н	1.93500800	2.89776200	1.79068200
Н	0.29012700	3.99375300	-1.34132700
Н	1.25900100	5.18772800	-1.33188000
Н	-4.79419800	-1.48072100	-0.36048700
Н	-5.28788900	-0.43560600	2.21288500
Н	3.48793500	-0.87630200	1.43425100
Н	2.41500100	-0.48845000	2.49414600
0	-2.86781800	-3.00501200	1.03930400
Н	-3.20467400	-2.29389800	1.60526000
Н	-3.45139700	-2.92656300	0.24948300
Н	3.64247100	-1.29133300	-1.54150100
0	3.09662000	-1.73557900	-2.23793700
Н	3.50564300	-1.50545600	-3.07741500
C1	1.10388300	1.21763100	2.96794800
{[cis-Al(OH) <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub>	$[-1]{(H_2O)_{13}Cl}^{(O)}$		
A1	0.40230300	0.31484000	0.11573500
0	2.04958900	1.03101400	0.47382900
0	-0. 51555300	0.64443900	-1.40135300
0	1.52899500	-1.09558800	-0.80736900
0	-0.31844900	-1.16451400	1.00570600
0	-1.77107200	3.47635600	0.20719400
0	2.30164200	3. 58933600	-0.85763000
0	-1.51350500	-1.67566900	-2.75604600
0	-3.27099400	1.36891700	-1.04723700
0	4.03052200	-0.29409100	-1.83097700
0	0.47090900	-3.23908100	-1.90557200
0	0.76068300	-3.65981600	1.05364200
0	-3.87917300	-2.48688200	-1.49142700
0	1.48494300	3.38466700	2.06696700
0	3.46125600	-3.21489800	1.03072000
0	-4.37645300	-0.70655900	0.46456500
0	-0.46598000	1.50720400	1.26173700

Н	-1.86365100	4.16466700	0.87215200
Н	1.99853400	1.69775500	1.17986000
Н	-1.22062400	-0.82253800	-2.37561700
Н	-0.35443800	1.48606500	-1.84793700
Н	2.32510200	-0.79979200	-1.29256200
Н	0.05459000	-2.07566100	1.02176500
Н	-1.03056300	-1.05159900	1.72892000
Н	-3.09955900	2.19581300	-0.57111700
Н	-0.34022400	-2.79832600	-2.27806400
Н	2. 31056300	2.64581300	-0.61714600
Н	3.99341200	0.63273700	-2.09029800
Н	1.66182400	3.79071100	1.20360700
Н	1.51107400	3.69261500	-1.41281000
Н	-4.05484700	0.10139800	0.01208100
Н	-2.36849800	1.01850100	-1.19776900
Н	0.19440700	-3.71529800	-1.11170300
Н	1.15140100	-1.89184100	-1.28170700
Н	1.73983300	-3. 53355900	1.09674700
Н	0.51138300	-4.16861600	1.83134200
Н	0.67234000	2.85311600	1.94025200
Н	-4.05495000	-1.90683300	-0.70421100
Н	-3. 87652200	-0.74240800	1.30251100
H	-2. 37117800	-1.89450600	-2.33545500
H	-4.68505700	-2. 43861300	-2.01311300
H	3. 76767400	-3. 47961700	0. 15711300
Н	3. 64629100	-2.25002300	1.07222100
H	-1.28332700	2.70199100	0.65876900
H	-1.04678500	1. 10129200	1. 92848000
0	4. 08402500	-0. 49293900	0.94691300
H	4. 34397900	-0.28787900	-0.90634300
П	4.01017000	-0.09799400	1.04399000
П	-0.89252000	3.07991700 2.57512000	-1. 28233200
U U	-0. 30003300	3.07010900	-2.00994200 -2.82032700
	-2 33453500	-0.60370400	2.03032700
н	2.35433300	0.10361800	0.83223000
11	0.20011000	0.10001000	0.00220000
{[trans-Al(OH]	$_{3}(H_{2}O)Cl] \cdot (H_{2}O)_{14}^{-} (I)$		
A1	0. 05377100	-0.05458900	-0.09760800
0	-2.49895500	1.17109800	-2.61239800
0	1.43304700	-0.34198500	1.02119500
0	1.31883000	0.86717800	-1.39471400
0	-0.25518100	-1.34945100	-1.26617600
0	-0.96398300	1.42213600	-0.24941300
0	-4.42088800	0.61220700	0.95147100
0	-0.98203400	-4.04663900	0.80131400
0	3. 94916600	3. 19942200	0.91793200
0	-3.05299100	3.28750900	1.25535900
0	1.73254400	-3.24757700	0.65800300
0	3. 96237400	0.55397400	0.75171200
0	3.65827700	-0.56406500	-1.92431300
0	1.99550800	3.56005100	-0.89611700
0	-2.36083100	-3.10909700	-1.46047400
0	3. 44005200	-3.15849400	-1.34953900

0	-0.95097500	4.08844100	-0.42097300
0	-4.33583500	-0.88012300	-1.60234700
Н	-2.87474500	2.04976000	-2.72062100
Н	-1.91892000	1.24727500	-1.82474800
Н	1.24969600	-0.45754600	1.96691200
Н	2.15133300	0.39048000	-1.59927700
Н	1.52761800	1.81297200	-1.23812300
Н	-1.61919500	-2.46606200	-1.43500700
Н	-0.05672200	-1.12859200	-2.17887300
Н	-0.04026000	4.40488900	-0.38300400
Н	-1.67120400	1.45020800	0.40526000
Н	-4.10310100	1.52871400	0.94764800
Н	-3.67710800	0.09956200	1.30701200
Н	4.00721500	2.20174900	0.89702700
Н	3.80010400	3. 43240500	1.83883100
Н	0.81481900	-3.59683000	0.59336200
Н	1.63320800	-2.28423000	0.77838000
Н	-1.52339500	-3.94135500	-0.01074400
Н	-1.25020400	-3.26611200	1.30909100
Н	-2.36809000	3.76478100	0.74329100
Н	-2.79214400	3.37670700	2.17661000
Н	4. 18389400	0.22216400	-0.13086300
Н	3.03517900	0.22357700	0.90198300
Н	3. 58319100	-1.53928300	-1.71971400
Н	4.00999900	-0.50921600	-2.81762200
Н	-3.15107700	-2.54123600	-1.43182000
Н	-0.83649800	3.10757100	-0.47133800
Н	2.70180500	3. 51191200	-0.20147900
Н	2.38693100	4.03225900	-1.63722100
Н	2.71741800	-3. 26990800	-0.66316500
H	4. 21163600	-3. 57584400	-0.95531400
H	-4. 51564000	-0. 41729700	-0.76593400
H	-3.75013800	-0.26328100	-2.07474800
CI	-1.54044600	-0.87674000	1.64375000
0	0.69581400	-0.75557900	3.84998400
H	-0. 18276400	-0. 78153900	3. 42577700
Н	0.89421100	-1.67646900	4.04953400
{[trans-Al(	OH) <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub> ]·(H <sub>2</sub> O) <sub>13</sub> Cl } <sup>-</sup>	(0)	
A1	0.40761000	0.35070100	-0.00281500
0	1.62104100	1.65090900	0.25790400
0	-0.82928500	0.34301300	-1.32300400
0	1.75730800	-0.47702200	-1.25718600
0	0.37012500	-1.12366700	0.99368800
0	-3.01455300	2.61842900	-0.10231400
0	0.98992000	4.11396700	-1.10199100
0	-1.17867100	-2.26466200	-2.36254300
0	-3.63286300	0.30621900	-0.98794700
0	4. 47439900	-0.10951900	-1.36728200
0	1.48315600	-3.22635400	-1.61690000
0	1.90871200	-3. 11842900	1.01391700
0	-3.24467500	-3. 57474800	-1.10473100
0	0. 54658700	4. 02216600	1.74897100
0	4. 44737400	-1.85687300	1.25242000

0	-4.17626500	-1.65866200	0.78936300
0	-0.89945400	1.32032000	1.25650000
Н	-3.65962300	3.09784200	0.42525200
Н	1.38566200	2.29029600	0.94761600
Н	-1.06032100	-1.33727600	-2.06205800
Н	-0.79370600	1.06037300	-1.96736100
Н	2.71200300	-0.24810600	-1.31531300
Н	1.66830800	-1.41686100	-1.51055200
Н	1.27397100	-2.29904400	1.06899200
Н	-0.32862900	-1.18488700	1.67349100
Н	-3. 43159300	1.73794700	-0.39605900
Н	-0.33706900	-2.70158300	-2.16033100
Н	1.38418900	3.24543200	-0.90080000
Н	4.89348600	0.40737700	-2.06093400
Н	0.56386900	4.27899200	0.80826900
Н	0.19963800	3.90660900	-1.62774500
Н	-3.90574100	-0.38636100	-0.33154400
Н	-2.68062900	0.14018100	-1.15236300
Н	1.64453600	-3.39385500	-0.65191800
Н	2.09741900	-3.77610400	-2.11106500
Н	3. 59670500	-2.33772100	1.25292200
Н	1.59508500	-3.74501200	1.67344100
Н	-0.17238900	3.38267200	1.82997200
Н	-3.81726100	-2.43249800	0.31577400
Н	-3.58286700	-1.49746100	1.55109200
Н	-2.49425100	-3.10943500	-1.54430900
Н	-3.94012500	-3.59258800	-1.76851100
Н	4.67638900	-1.76386900	0.31954500
Н	4. 18869200	0.17769300	1.44377700
Н	-1.65343300	1.75409600	0.80437300
Н	-1.30506200	0.71069400	1.94800500
0	4.20834800	1.02283300	0.96273800
Н	4. 52674000	0.43296100	-0.52411500
Н	3.26590800	1.28031500	0.81741500
Н	-2.08338400	3.11817600	-1.55171800
0	-1.44991400	3. 18803700	-2.29887100
Н	-1.96473100	3. 45304000	-3.06589000
C1	-2.04770900	-0.77757800	3.04925800
	$(0)  (1)^2  (1)$		
{[ AI(OH) <sub>4</sub> ]•(H	$_{2}O)_{14}CI = (I)$	1 10047900	0 10010700
AI	-1.07021000	1.10947800	0. 10010700
0	-0.13632600	0.09293800	-0.30320800
0	-1.11540000	2.54008200	1.05804000
0	-2.21940900	1.00319300	-1. 48795900
0	-2. 79288300	0. 19138200	1. 01812600
0	1. 74585300	-1.20159900	1.40139500
0		-1.90309300	-2.05096400
0	2.4000000	1.14084200	2.48710300
0	-0.20244000	-2.02924000	2.34123400 -1.05172100
0	1. (4152/00	1.10009000	-1.901/3100
0	2. 80818300 - 1. 55907500	2.09040400 -2.65246700	-0.00017000
0	-1.00007000	-3.03240700	-0.00017200
0	2.29947900	-1. 20019900	-2.84301000
U	0.52642900	4.28334700	-0.23560700

0	-0.05639200	1.58377400	3.62354600
0	-2.91134000	-0.74836100	-2.73526100
0	0.01510800	3.06802100	-2.79596400
0	-1.68296500	-0.58562600	3.36439600
0	-3.85575700	-2.04467500	-0.52368900
Н	0.41370800	-0.33292900	0.37667200
Н	-0.76226200	2.36861700	1.94517600
Н	-1.61297000	2.12838000	-2.03312100
Н	-3.21897100	-0.56515300	0.58515000
Н	2.12703400	-0.45773200	1.82810700
Н	2.44879000	-1.66009800	0.84271600
Н	-0.31694700	-1.20524000	-1.41701800
Н	-0.69765700	-2.69675800	-1.47328000
Н	2.58150600	1.72894100	1.70507500
Н	1.64118400	1.38034200	2.91264300
Н	1.05095900	0.75970200	-1.32874100
Н	2.07766600	0.29619700	-2.38623400
Н	-1.14402300	-3.40149800	0.76831100
Н	-2.40914300	-3. 17519500	-0.11621000
Н	0.55232200	-2.33062700	2.05973800
Н	0.05978000	-3.53817000	2.92921900
Н	2.64709300	2.08610600	-0.57674100
Н	2.07415700	3.34311000	0.08430300
Н	1.39522800	-1.81670300	-2.63781500
Н	2.85426300	-1.86287900	-2.11912800
Н	-0.10095400	3.69983800	0.26170000
Н	0.34893100	4.07501300	-1.17039000
Н	-2.70602700	0.14998300	-2.37442900
Н	-2.05051600	-1.21033900	-2.72028500
Н	-2.16521400	-0.32789600	2.53644700
Н	-1.21503800	-1.40812400	3.12412800
Н	-0.61380900	0.76492400	3.63264000
Н	-0.18143600	2.01301900	4.48606000
Н	0.05350500	3. 40650200	-3.70573300
Н	0.70584100	2.37124000	-2.72458200
Н	-3.66861800	-1.61243000	-1.39290300
Н	-4. 78005600	-2.34284400	-0.54893300
C1	3.99607600	-2.63392900	-0.37035600