

Cation	Anion	Results CBV		Results Brown and Altermatt				Results Gagné and Hawthorne					
		r0	b	r0	b	+/-% r0	+/-% b	r0	b	+/-% r0	+/-% b		
Ag	1+	As	3-	2.214	0.377								
Ag	1+	Br	1-	2.205	0.370								
Ag	1+	Cl	1-	2.100	0.368	2.090	0.370	.5	-.5				
Ag	1+	F	1-	1.809	0.368	1.800	0.370	.5	-.4				
Ag	1+	Ge	4-	2.206	0.373								
Ag	1+	I	1-	2.338	0.370								
Ag	1+	O	2-	1.843	0.369	1.805	0.370	2.1	-.2	1.875	0.359	-1.7	2.9
Ag	1+	O	2-	1.843	0.369	1.842	0.370	.0	-.2	1.875	0.359	-1.7	2.9
Ag	1+	P	3-	2.151	0.371								
Ag	1+	S	2-	2.086	0.369	2.119	0.370	-1.6	-.3				
Ag	1+	Sb	3-	2.361	0.369								
Ag	1+	Se	2-	2.186	0.368								
Ag	1+	Si	4-	2.190	0.369								
Ag	1+	Te	2-	2.331	0.369								
Ag	2+	F	1-	1.784	0.369	1.790	0.370	-.3	-.3				
Ag	2+	O	2-	1.802	0.372								
Ag	3+	F	1-	1.779	0.369	1.830	0.370	-2.8	-.4				
Ag	3+	O	2-	1.921	0.371								
Al	3+	As	3-	2.392	0.369	2.300	0.370	4.0	-.2				
Al	3+	Br	1-	2.188	0.368	2.200	0.370	-.5	-.4				
Al	3+	C	4-	1.940	0.370								
Al	3+	Cl	1-	2.025	0.370	2.032	0.370	-.3	-.1				
Al	3+	F	1-	1.547	0.369	1.545	0.370	.2	-.4				
Al	3+	I	1-	2.414	0.368	2.410	0.370	.2	-.5				
Al	3+	O	2-	1.691	0.376	1.620	0.370	4.4	1.7	1.634	0.390	3.5	-3.5
Al	3+	O	2-	1.691	0.376	1.644	0.380	2.8	-.9	1.634	0.390	3.5	-3.5
Al	3+	P	3-	2.299	0.371	2.240	0.370	2.6	.2				
Al	3+	S	2-	2.111	0.369	2.130	0.370	-.9	-.2				
Al	3+	S	2-	2.111	0.369	2.210	0.370	-4.5	-.2				
Al	3+	Sb	3-	2.607	0.368								
Al	3+	Se	2-	2.272	0.370	2.270	0.370	.1	-.1				
Al	3+	Si	4-	2.424	0.378								
Al	3+	Te	2-	2.460	0.375	2.480	0.370	-.8	1.3				
Am	3+	O	2-	2.103	0.363	2.130	0.350	-1.3	3.8	2.068	0.392	1.7	-7.3
Am	3+	O	2-	2.103	0.363	2.110	0.370	-.3	-1.8	2.068	0.392	1.7	-7.3
Am	4+	O	2-	2.062	0.370	2.080	0.370	-.9	.1				
Am	4+	O	2-	2.062	0.370	2.120	0.370	-2.8	.1				
As	3+	F	1-	1.705	0.369	1.700	0.370	.3	-.4				
As	3+	S	2-	2.265	0.370	2.272	0.370	-.3	-.1				
As	3+	Se	2-	2.384	0.374	2.400	0.370	-.7	1.0				
As	3+	Te	2-	2.656	0.370	2.650	0.370	.2	.1				
As	5+	F	1-	1.635	0.370	1.620	0.370	.9	.1				
As	5+	S	2-	2.264	0.369	2.280	0.370	-.7	-.2				
As	5+	Se	2-	2.322	0.370								
Au	1+	As	3-	2.161	0.370								
Au	1+	Br	1-	2.030	0.366								
Au	1+	Cl	1-	1.932	0.369	2.020	0.370	-4.3	-.2				
Au	1+	Ge	4-	2.178	0.371								

Au	1+	I	1-	2.197	0.363	2.350	0.370	-6.5	-2.0				
Au	1+	P	3-	2.085	0.370								
Au	1+	Sb	3-	2.254	0.370								
Au	1+	Sn	4-	2.300	0.368								
Au	1+	Te	2-	2.276	0.368								
Au	3+	Br	1-	2.315	0.369	2.320	0.370	-2	-3				
Au	3+	Cl	1-	2.172	0.370	2.170	0.370	.1	.0				
Au	3+	F	1-	1.820	0.371	1.810	0.370	.5	.4				
Au	3+	F	1-	1.820	0.371	1.890	0.370	-3.7	.4				
Au	3+	I	1-	2.524	0.370	2.540	0.370	-6	-1				
Au	3+	O	2-	1.895	0.369	1.833	0.370	3.4	-2	1.890	0.375	.2	-1.5
Au	3+	O	2-	1.895	0.369	1.890	0.370	.2	-2	1.890	0.375	.2	-1.5
Au	3+	Se	2-	2.375	0.370								
Au	5+	F	1-	1.798	0.370	1.800	0.370	-1	.0				
B	3+	N	3-	2.594	0.369	1.482	0.370	75.0	-2				
B	3+	N	3-	2.594	0.369	1.470	0.370	76.4	-2				
B	3+	S	2-	1.820	0.369	1.815	0.370	.3	-3				
B	3+	S	2-	1.820	0.369	1.820	0.370	.0	-3				
Ba	2+	As	3-	2.927	0.367	2.960	0.370	-1.1	-8				
Ba	2+	Cl	1-	2.654	0.368	2.690	0.370	-1.3	-6				
Ba	2+	F	1-	2.179	0.369	2.188	0.370	-4	-2				
Ba	2+	Ge	4-	3.022	0.385								
Ba	2+	H	1-	2.181	0.367	2.220	0.370	-1.7	-8				
Ba	2+	N	3-	2.451	0.368	2.470	0.370	-8	-5				
Ba	2+	O	2-	2.271	0.370	2.285	0.370	-6	.0	2.223	0.406	2.2	-8.8
Ba	2+	P	3-	2.920	0.370	2.880	0.370	1.4	-1				
Ba	2+	S	2-	2.743	0.371	2.769	0.370	-9	.3				
Ba	2+	Sb	3-	2.964	0.399								
Ba	2+	Se	2-	2.853	0.369	2.880	0.370	-9	-2				
Ba	2+	Te	2-	3.007	0.377	3.080	0.370	-2.4	2.0				
Be	2+	As	3-	2.053	0.368	2.000	0.370	2.6	-5				
Be	2+	F	1-	1.291	0.370	1.281	0.370	.8	.0				
Be	2+	P	3-	1.944	0.370	1.950	0.370	-3	.1				
Be	2+	S	2-	1.858	0.368	1.830	0.370	1.5	-7				
Be	2+	Sb	3-	2.215	0.368								
Bi	3+	Br	1-	2.592	0.368	2.567	0.421	1.0	-12.5				
Bi	3+	Br	1-	2.592	0.368	2.597	0.370	-2	-4				
Bi	3+	Cl	1-	2.446	0.370	2.480	0.370	-1.4	-1				
Bi	3+	Cl	1-	2.446	0.370	2.400	0.370	1.9	-1				
Bi	3+	F	1-	2.000	0.372	1.990	0.370	.5	.5				
Bi	3+	I	1-	2.803	0.370	2.820	0.370	-6	.1				
Bi	3+	O	2-	2.093	0.370	2.094	0.370	-1	-0	2.068	0.389	1.2	-4.9
Bi	3+	O	2-	2.093	0.370	1.990	0.480	5.2	-22.9	2.068	0.389	1.2	-4.9
Bi	3+	S	2-	2.560	0.370	2.570	0.370	-4	.1				
Bi	3+	Se	2-	2.675	0.371	2.700	0.350	-9	5.9				
Bi	3+	Te	2-	2.892	0.370								
Bi	5+	F	1-	1.884	0.372	1.970	0.370	-4.4	.6				
Bi	5+	O	2-	2.037	0.370	2.060	0.370	-1.1	.1	2.050	0.318	-6	16.4
Br	3+	F	1-	1.762	0.369	1.750	0.370	.7	-3				
Br	7+	O	2-	1.815	0.369	1.810	0.370	.3	-3	1.850	0.428	-1.9	-13.8
C	2+	N	3-	2.414	0.372								
Ca	2+	As	3-	2.641	0.369	2.620	0.370	.8	-4				
Ca	2+	Br	1-	2.490	0.371	2.490	0.370	.0	.3				

Ca 2+	Br 1-	2.490	0.371	2.507	0.370	-7	.3				
Ca 2+	C 1-	2.163	0.369								
Ca 2+	Cl 1-	2.348	0.371	2.370	0.370	-9	.4				
Ca 2+	F 1-	1.854	0.371	1.842	0.370	.6	.2				
Ca 2+	Ge 4-	2.757	0.357								
Ca 2+	H 1-	1.798	0.371	1.830	0.370	-1.8	.2				
Ca 2+	N 3-	2.139	0.370	2.140	0.370	-.1	-.1				
Ca 2+	O 2-	1.960	0.370	1.967	0.370	-.3	-.1	1.907	0.409	2.8	-9.7
Ca 2+	O 2-	1.960	0.370	1.896	0.410	3.4	-9.9	1.907	0.409	2.8	-9.7
Ca 2+	P 2-	2.509	0.382								
Ca 2+	P 3-	2.559	0.368	2.550	0.370	.3	-.6				
Ca 2+	S 2-	2.447	0.368	2.450	0.370	-.1	-.6				
Ca 2+	Sb 3-	2.869	0.370								
Ca 2+	Se 2-	2.542	0.368	2.560	0.370	-.7	-.5				
Ca 2+	Si 4-	2.748	0.367								
Cd 2+	As 3-	2.453	0.368	2.430	0.370	1.0	-.5				
Cd 2+	Br 1-	2.370	0.370	2.350	0.370	.8	-.1				
Cd 2+	Br 1-	2.370	0.370	2.334	0.370	1.5	-.1				
Cd 2+	Cl 1-	2.223	0.368	2.212	0.370	.5	-.6				
Cd 2+	Cl 1-	2.223	0.368	2.220	0.370	.1	-.6				
Cd 2+	Cl 1-	2.223	0.368	2.230	0.370	-.3	-.6				
Cd 2+	F 1-	1.809	0.368	1.811	0.370	-.1	-.6				
Cd 2+	I 1-	2.545	0.371	2.525	0.370	.8	.4				
Cd 2+	I 1-	2.545	0.371	2.600	0.370	-2.1	.4				
Cd 2+	I 1-	2.545	0.371	2.570	0.370	-1.0	.4				
Cd 2+	O 2-	1.896	0.369	1.904	0.370	-.4	-.3	1.827	0.430	3.8	-14.2
Cd 2+	O 2-	1.896	0.369	1.875	0.370	1.1	-.3	1.827	0.430	3.8	-14.2
Cd 2+	P 3-	2.327	0.369	2.340	0.370	-.6	-.2				
Cd 2+	S 2-	2.274	0.369	2.304	0.370	-1.3	-.3				
Cd 2+	S 2-	2.274	0.369	2.279	0.370	-.2	-.3				
Cd 2+	Sb 3-	2.634	0.370								
Cd 2+	Se 2-	2.376	0.368	2.400	0.370	-1.0	-.4				
Cd 2+	Te 2-	2.472	0.370	2.590	0.370	-4.6	.1				
Ce 2+	I 1-	2.804	0.370								
Ce 2+	S 2-	2.392	0.369								
Ce 3+	F 1-	2.038	0.368	2.036	0.370	.1	-.5				
Ce 3+	F 1-	2.038	0.368	2.000	0.400	1.9	-7.9				
Ce 3+	N 3-	2.250	0.369								
Ce 3+	O 2-	2.132	0.371	2.121	0.370	.5	.3	2.114	0.389	.9	-4.6
Ce 3+	O 2-	2.132	0.371	2.151	0.370	-.9	.3	2.114	0.389	.9	-4.6
Ce 3+	O 2-	2.132	0.371	2.116	0.370	.8	.3	2.114	0.389	.9	-4.6
Ce 3+	S 2-	2.478	0.450	2.650	0.370	-6.5	21.6				
Ce 3+	S 2-	2.478	0.450	2.602	0.370	-4.8	21.6				
Ce 3+	Se 2-	2.720	0.370								
Ce 3+	Te 2-	2.943	0.368								
Ce 4+	F 1-	1.997	0.368	1.995	0.370	.1	-.5				
Ce 4+	F 1-	1.997	0.368	1.970	0.400	1.4	-7.9				
Ce 4+	N 3-	2.302	0.376	2.179	0.370	5.7	1.5				
Ce 4+	O 2-	2.087	0.369	2.028	0.370	2.9	-.2	2.046	0.416	2.0	-11.2
Ce 4+	O 2-	2.087	0.369	2.068	0.370	.9	-.2	2.046	0.416	2.0	-11.2
Ce 4+	O 2-	2.087	0.369	2.074	0.370	.6	-.2	2.046	0.416	2.0	-11.2
Cf 3+	O 2-	2.056	0.369	2.070	0.370	-.7	-.4				
Cl 7+	O 2-	1.633	0.378	1.632	0.370	.1	2.3	1.669	0.428	-2.1	-11.6

Cm	3+	O	2-	2.102	0.370	2.120	0.350	-9	5.6	2.034	0.412	3.3	-10.3
Cm	3+	O	2-	2.102	0.370	2.230	0.370	-5.8	-1	2.034	0.412	3.3	-10.3
Co	2+	As	3-	2.105	0.375								
Co	2+	Cl	1-	2.016	0.369	2.010	0.370	.3	-.3				
Co	2+	Cl	1-	2.016	0.369	2.033	0.370	-.9	-.3				
Co	2+	F	1-	1.632	0.370	1.640	0.370	-.5	.1				
Co	2+	I	1-	2.343	0.370								
Co	2+	O	2-	1.702	0.367	1.692	0.370	.6	-.7	1.698	0.376	.2	-2.3
Co	2+	O	2-	1.702	0.367	1.685	0.370	1.0	-.7	1.698	0.376	.2	-2.3
Co	2+	P	3-	1.957	0.368								
Co	2+	S	2-	2.072	0.370	1.940	0.370	6.8	-.0				
Co	2+	Se	2-	2.158	0.369								
Co	2+	Si	4-	2.069	0.370								
Co	3+	As	3-	2.155	0.370								
Co	3+	F	1-	1.638	0.370	1.620	0.370	1.1	.1				
Co	3+	Ge	4-	2.245	0.363								
Co	3+	N	3-	1.710	0.370	1.750	0.370	-2.3	-.1				
Co	3+	O	2-	1.678	0.371	1.637	0.370	2.5	.4	1.655	0.364	1.4	2.0
Co	3+	O	2-	1.678	0.371	1.700	0.370	-1.3	.4	1.655	0.364	1.4	2.0
Co	3+	S	2-	2.039	0.379	2.020	0.370	.9	2.3				
Co	4+	O	2-	1.767	0.369	1.720	0.370	2.7	-.2	1.729	0.358	2.2	3.2
Cr	2+	As	3-	2.257	0.372								
Cr	2+	Cl	1-	2.109	0.368	2.090	0.370	.9	-.4				
Cr	2+	F	1-	1.684	0.368	1.670	0.370	.9	-.5				
Cr	2+	F	1-	1.684	0.368	1.740	0.370	-3.2	-.5				
Cr	2+	I	1-	2.381	0.392	2.480	0.370	-4.0	5.9				
Cr	2+	O	2-	1.771	0.370	1.730	0.370	2.4	-.1	1.761	0.350	.6	5.6
Cr	2+	S	2-	2.111	0.368								
Cr	2+	Se	2-	2.132	0.369								
Cr	2+	Te	2-	2.392	0.370								
Cr	3+	As	3-	2.246	0.369								
Cr	3+	C	4-	1.871	0.368								
Cr	3+	Cl	1-	2.096	0.368	2.080	0.370	.8	-.7				
Cr	3+	F	1-	1.645	0.368	1.657	0.370	-.7	-.5				
Cr	3+	F	1-	1.645	0.368	1.640	0.370	.3	-.5				
Cr	3+	N	3-	1.829	0.371	1.810	0.370	1.0	.3				
Cr	3+	O	2-	1.728	0.372	1.708	0.370	1.2	.6	1.725	0.361	.2	3.2
Cr	3+	O	2-	1.728	0.372	1.724	0.370	.2	.6	1.725	0.361	.2	3.2
Cr	3+	P	3-	2.203	0.365								
Cr	3+	S	2-	2.152	0.371	2.162	0.370	-.4	.3				
Cr	3+	Se	2-	2.280	0.369								
Cr	3+	Te	2-	2.492	0.370								
Cr	4+	F	1-	1.699	0.371	1.560	0.370	8.9	.2				
Cr	4+	O	2-	1.775	0.373	1.810	0.370	-1.9	.8	1.783	0.410	-.5	-9.0
Cr	5+	C	4-	1.985	0.372								
Cr	5+	O	2-	1.880	0.368	1.760	0.370	6.8	-.5	1.777	0.375	5.8	-1.8
Cr	5+	O	2-	1.880	0.368	1.780	0.370	5.6	-.5	1.777	0.375	5.8	-1.8
Cs	1+	Br	1-	2.841	0.366	2.503	0.543	13.5	-32.5				
Cs	1+	Br	1-	2.841	0.366	2.950	0.370	-3.7	-1.0				
Cs	1+	C	1-	2.666	0.368								
Cs	1+	Cl	1-	2.753	0.367	2.471	0.495	11.4	-25.9				
Cs	1+	Cl	1-	2.753	0.367	2.791	0.370	-1.3	-.8				
Cs	1+	F	1-	2.266	0.367	2.380	0.370	-4.8	-.7				

Cs	1+	F	1-	2.266	0.367	2.198	0.410	3.1	-10.4				
Cs	1+	F	1-	2.266	0.367	2.330	0.370	-2.7	-.7				
Cs	1+	H	1-	2.339	0.366	2.440	0.370	-4.1	-1.2				
Cs	1+	N	3-	2.576	0.368	2.830	0.370	-9.0	-.6				
Cs	1+	N	3-	2.576	0.368	2.530	0.370	1.8	-.6				
Cs	1+	O	2-	2.405	0.369	2.286	0.408	5.2	-9.6	2.296	0.411	4.8	-10.3
Cs	1+	O	2-	2.405	0.369	2.417	0.370	-.5	-.3	2.296	0.411	4.8	-10.3
Cs	1+	S	2-	2.795	0.370	2.525	0.517	10.7	-28.5				
Cs	1+	S	2-	2.795	0.370	2.890	0.370	-3.3	-.1				
Cs	1+	S	2-	2.795	0.370	2.930	0.370	-4.6	-.1				
Cs	1+	Se	2-	2.955	0.363	2.642	0.553	11.8	-34.4				
Cs	1+	Se	2-	2.955	0.363	2.980	0.370	-.8	-2.0				
Cu	1+	As	3-	2.048	0.369	1.856	0.370	10.4	-.4				
Cu	1+	Br	1-	1.975	0.370	2.030	0.370	-2.7	-.0				
Cu	1+	Cl	1-	1.853	0.370	1.858	0.370	-.3	-.0				
Cu	1+	Cl	1-	1.853	0.370	1.890	0.370	-1.9	-.0				
Cu	1+	I	1-	2.122	0.369	2.155	0.370	-1.5	-.3				
Cu	1+	I	1-	2.122	0.369	2.108	0.370	.7	-.3				
Cu	1+	N	3-	1.620	0.371	1.520	0.370	6.5	.2				
Cu	1+	N	3-	1.620	0.371	1.480	0.370	9.4	.2				
Cu	1+	N	3-	1.620	0.371	1.630	0.370	-.6	.2				
Cu	1+	O	2-	1.594	0.370	1.610	0.370	-1.0	-.1	1.601	0.335	-.5	10.3
Cu	1+	O	2-	1.594	0.370	1.504	0.370	6.0	-.1	1.601	0.335	-.5	10.3
Cu	1+	P	3-	1.923	0.369	1.774	0.370	8.4	-.3				
Cu	1+	S	2-	1.839	0.369	1.898	0.370	-3.1	-.3				
Cu	1+	S	2-	1.839	0.369	1.811	0.370	1.5	-.3				
Cu	1+	Sb	3-	2.162	0.369								
Cu	1+	Se	2-	1.945	0.368	1.900	0.370	2.4	-.4				
Cu	1+	Te	2-	2.095	0.368								
Cu	2+	As	3-	2.261	0.374	2.080	0.370	8.7	1.1				
Cu	2+	Cl	1-	2.006	0.369	2.000	0.370	.3	-.2				
Cu	2+	F	1-	1.605	0.369	1.594	0.370	.7	-.2				
Cu	2+	N	3-	1.676	0.368	1.709	0.370	-1.9	-.5				
Cu	2+	N	3-	1.676	0.368	1.751	0.370	-4.3	-.5				
Cu	2+	N	3-	1.676	0.368	1.713	0.370	-2.2	-.5				
Cu	2+	N	3-	1.676	0.368	1.610	0.370	4.1	-.5				
Cu	2+	N	3-	1.676	0.368	1.704	0.370	-1.6	-.5				
Cu	2+	N	3-	1.676	0.368	1.763	0.370	-4.9	-.5				
Cu	2+	O	2-	1.678	0.369	1.679	0.370	-.1	-.2	1.687	0.355	-.5	4.0
Cu	2+	O	2-	1.678	0.369	1.649	0.370	1.7	-.2	1.687	0.355	-.5	4.0
Cu	2+	O	2-	1.678	0.369	1.679	0.360	-.1	2.5	1.687	0.355	-.5	4.0
Cu	2+	O	2-	1.678	0.369	1.655	0.370	1.4	-.2	1.687	0.355	-.5	4.0
Cu	2+	P	3-	2.155	0.367	1.970	0.370	9.4	-.9				
Cu	2+	P	3-	2.155	0.367	2.050	0.370	5.1	-.9				
Cu	2+	S	2-	2.042	0.370	2.060	0.370	-.9	.0				
Cu	2+	S	2-	2.042	0.370	2.054	0.370	-.6	.0				
Cu	2+	S	2-	2.042	0.370	2.024	0.370	.9	.0				
Cu	2+	S	2-	2.042	0.370	1.860	0.370	9.8	.0				
Cu	2+	Sb	3-	2.375	0.370								
Cu	2+	Se	2-	2.162	0.370	2.124	0.370	1.8	-.1				
Cu	2+	Se	2-	2.162	0.370	2.020	0.370	7.0	-.1				
Cu	2+	Te	2-	2.418	0.370	2.270	0.370	6.5	.1				
Cu	3+	O	2-	1.779	0.368	1.739	0.370	2.3	-.4	1.737	0.375	2.4	-1.8

Cu	3+	O	2-	1.779	0.368	1.735	0.370	2.6	-.4	1.737	0.375	2.4	-1.8
Dy	3+	C	4-	2.175	0.378								
Dy	3+	Cl	1-	2.404	0.367	2.410	0.370	-.2	-.7				
Dy	3+	Cl	1-	2.404	0.367	2.380	0.400	1.0	-8.2				
Dy	3+	Cl	1-	2.404	0.367	2.407	0.370	-.1	-.7				
Dy	3+	O	2-	2.020	0.369	2.005	0.370	.8	-.3	2.002	0.389	.9	-5.2
Dy	3+	O	2-	2.020	0.369	2.001	0.370	1.0	-.3	2.002	0.389	.9	-5.2
Dy	3+	S	2-	2.486	0.371								
Dy	3+	Se	2-	2.605	0.371								
Dy	3+	Te	2-	2.816	0.372								
Er	3+	C	4-	2.152	0.376								
Er	3+	F	1-	1.895	0.371	1.904	0.370	-.5	.2				
Er	3+	F	1-	1.895	0.371	1.870	0.400	1.4	-7.3				
Er	3+	O	2-	1.994	0.370	1.988	0.370	.3	-.0	1.991	0.373	.2	-.8
Er	3+	O	2-	1.994	0.370	2.010	0.370	-.8	-.0	1.991	0.373	.2	-.8
Er	3+	O	2-	1.994	0.370	1.979	0.370	.8	-.0	1.991	0.373	.2	-.8
Er	3+	S	2-	2.457	0.372	2.475	0.370	-.7	.5				
Er	3+	Se	2-	2.585	0.370	2.580	0.370	.2	-.1				
Er	3+	Te	2-	2.793	0.375								
Eu	2+	As	3-	2.698	0.371								
Eu	2+	Br	1-	2.631	0.371	2.670	0.370	-1.5	.2				
Eu	2+	Cl	1-	2.482	0.364	2.530	0.370	-1.9	-1.5				
Eu	2+	F	1-	2.034	0.370	2.040	0.370	-.3	.1				
Eu	2+	H	1-	2.018	0.368								
Eu	2+	I	1-	2.886	0.371	2.900	0.370	-.5	.2				
Eu	2+	N	3-	2.327	0.371	2.160	0.370	7.7	.3				
Eu	2+	O	2-	2.103	0.370	2.147	0.370	-2.1	-.1	1.943	0.490	8.2	-24.6
Eu	2+	O	2-	2.103	0.370	2.102	0.370	.0	-.1	1.943	0.490	8.2	-24.6
Eu	2+	P	3-	2.662	0.369								
Eu	2+	S	2-	2.569	0.368	2.584	0.370	-.6	-.4				
Eu	2+	Sb	3-	2.906	0.369								
Eu	2+	Se	2-	2.698	0.369								
Eu	3+	Cl	1-	2.456	0.370	2.468	0.370	-.5	-.1				
Eu	3+	Cl	1-	2.456	0.370	2.455	0.370	.0	-.1				
Eu	3+	Cl	1-	2.456	0.370	2.420	0.400	1.5	-7.6				
Eu	3+	O	2-	2.063	0.370	2.038	0.370	1.2	-.1	2.068	0.359	-.2	3.0
Eu	3+	O	2-	2.063	0.370	2.074	0.370	-.5	-.1	2.068	0.359	-.2	3.0
Eu	3+	S	2-	2.544	0.371	2.509	0.370	1.4	.3				
Eu	3+	Se	2-	2.792	0.370								
Fe	1+	P	3-	1.842	0.368								
Fe	2+	As	3-	2.143	0.369								
Fe	2+	Br	1-	2.242	0.371	2.210	0.350	1.4	6.0				
Fe	2+	Cl	1-	2.057	0.369	2.150	0.370	-4.3	-.2				
Fe	2+	Cl	1-	2.057	0.369	2.060	0.370	-.2	-.2				
Fe	2+	F	1-	1.664	0.370	1.650	0.370	.8	.1				
Fe	2+	Ge	4-	2.136	0.370								
Fe	2+	N	3-	1.772	0.370	1.769	0.370	.2	.1				
Fe	2+	O	2-	1.730	0.370	1.734	0.370	-.2	-.1	1.658	0.447	4.4	-17.3
Fe	2+	O	2-	1.730	0.370	1.700	0.370	1.8	-.1	1.658	0.447	4.4	-17.3
Fe	2+	O	2-	1.730	0.370	1.713	0.370	1.0	-.1	1.658	0.447	4.4	-17.3
Fe	2+	P	1-	1.840	0.370								
Fe	2+	P	2-	1.902	0.368								
Fe	2+	P	3-	2.009	0.371								

Fe 2+	S 1-	1.858	0.369										
Fe 2+	S 2-	2.065	0.371	2.120	0.370	-2.6	.2						
Fe 2+	S 2-	2.065	0.371	2.125	0.370	-2.8	.2						
Fe 2+	Se 2-	2.159	0.371										
Fe 2+	Si 4-	2.075	0.368										
Fe 2+	Te 2-	2.350	0.370										
Fe 3+	As 3-	2.178	0.371										
Fe 3+	Br 1-	2.233	0.373	2.220	0.370	.6	.8						
Fe 3+	Cl 1-	2.077	0.370	2.090	0.370	-.6	.1						
Fe 3+	Cl 1-	2.077	0.370	2.150	0.370	-3.4	.1						
Fe 3+	F 1-	1.670	0.370	1.679	0.370	-.5	-.1						
Fe 3+	N 3-	1.906	0.371	1.815	0.370	5.0	.2						
Fe 3+	O 2-	1.755	0.370	1.765	0.370	-.6	-.1	1.766	0.360	-.6	2.7		
Fe 3+	O 2-	1.755	0.370	1.759	0.370	-.2	-.1	1.766	0.360	-.6	2.7		
Fe 3+	O 2-	1.755	0.370	1.751	0.370	.2	-.1	1.766	0.360	-.6	2.7		
Fe 3+	P 3-	2.049	0.368										
Fe 3+	S 2-	2.168	0.371	2.134	0.370	1.6	.2						
Fe 3+	S 2-	2.168	0.371	2.149	0.370	.9	.2						
Fe 3+	Se 2-	2.275	0.369										
Fe 4+	O 2-	1.780	0.370										
Ga 2+	S 2-	2.184	0.369										
Ga 3+	As 3-	2.418	0.370										
Ga 3+	Br 1-	2.214	0.369	2.200	0.350	.6	5.4						
Ga 3+	Cl 1-	2.067	0.369	2.070	0.370	-.1	-.3						
Ga 3+	F 1-	1.636	0.370	1.620	0.370	1.0	.0						
Ga 3+	F 1-	1.636	0.370	1.690	0.370	-3.2	.0						
Ga 3+	H 1-	1.496	0.370										
Ga 3+	I 1-	2.442	0.369	2.460	0.370	-.7	-.2						
Ga 3+	O 2-	1.735	0.371	1.730	0.370	.3	.4	1.736	0.345	-.0	7.7		
Ga 3+	P 3-	2.268	0.375										
Ga 3+	S 2-	2.171	0.370	2.163	0.370	.4	-.1						
Ga 3+	Sb 3-	2.615	0.369										
Ga 3+	Se 2-	2.292	0.370										
Ga 3+	Te 2-	2.516	0.370										
Gd 3+	Cl 1-	2.435	0.373	2.445	0.370	-.4	.8						
Gd 3+	Cl 1-	2.435	0.373	2.457	0.370	-.9	.8						
Gd 3+	Cl 1-	2.435	0.373	2.410	0.400	1.0	-6.7						
Gd 3+	F 1-	1.954	0.370	1.920	0.400	1.8	-7.6						
Gd 3+	F 1-	1.954	0.370	1.950	0.370	.2	-.1						
Gd 3+	H 1-	1.828	0.370										
Gd 3+	N 3-	2.170	0.371										
Gd 3+	O 2-	2.048	0.371	2.031	0.370	.9	.2	1.988	0.433	3.0	-14.4		
Gd 3+	O 2-	2.048	0.371	2.065	0.370	-.8	.2	1.988	0.433	3.0	-14.4		
Gd 3+	S 2-	2.458	0.415	2.530	0.370	-2.9	12.1						
Gd 3+	Se 2-	2.622	0.370										
Gd 3+	Te 2-	2.856	0.368										
Ge 2+	Br 1-	2.336	0.373										
Ge 2+	Cl 1-	2.135	0.366										
Ge 2+	F 1-	1.742	0.372										
Ge 2+	I 1-	2.519	0.371										
Ge 2+	Te 2-	2.536	0.373										
Ge 3+	As 3-	2.443	0.369										
Ge 3+	P 3-	2.363	0.369										

Ge	3+	Se	2-	2.365	0.371								
Ge	3+	Te	2-	2.578	0.370								
Ge	4+	As	3-	2.424	0.371								
Ge	4+	F	1-	1.646	0.371	1.660	0.370	-8	.3				
Ge	4+	O	2-	1.805	0.372	1.748	0.370	3.3	.4	1.750	0.363	3.2	2.4
Ge	4+	P	3-	2.317	0.368								
Ge	4+	S	2-	2.208	0.370	2.217	0.370	-4	-0				
Ge	4+	Se	2-	2.348	0.370	2.350	0.370	-1	-1				
Ge	4+	Te	2-	2.589	0.369								
H	1+	Br	1-	2.238	0.369								
H	1+	Cl	1-	1.982	0.371	1.336	0.530	48.4	-30.1				
H	1+	N	3-	1.804	0.369	1.014	0.413	77.9	-10.6				
H	1+	O	2-	1.664	0.369	0.990	0.590	68.1	-37.5	0.918	0.427	81.3	-13.6
H	1+	O	2-	1.664	0.369	0.569	0.940	192.4	-60.8	0.918	0.427	81.3	-13.6
H	1+	O	2-	1.664	0.369	0.907	0.280	83.5	31.7	0.918	0.427	81.3	-13.6
H	1+	O	2-	1.664	0.369	0.925	0.400	79.9	-7.8	0.918	0.427	81.3	-13.6
H	1+	O	2-	1.664	0.369	0.957	0.350	73.9	5.4	0.918	0.427	81.3	-13.6
H	1+	O	2-	1.664	0.369	0.870	0.457	91.3	-19.3	0.918	0.427	81.3	-13.6
H	1+	O	2-	1.664	0.369	0.790	0.370	110.6	-3	0.918	0.427	81.3	-13.6
H	1+	O	2-	1.664	0.369	1.409	0.370	18.1	-3	0.918	0.427	81.3	-13.6
Hf	4+	Cl	1-	2.296	0.370	2.300	0.370	-2	-1				
Hf	4+	Cl	1-	2.296	0.370	2.240	0.370	2.5	-1				
Hf	4+	F	1-	1.846	0.369	1.820	0.400	1.4	-7.6				
Hf	4+	F	1-	1.846	0.369	1.850	0.370	-2	-2				
Hf	4+	N	3-	2.082	0.369								
Hf	4+	O	2-	1.921	0.372	1.923	0.370	-1	.5	1.923	0.375	-1	-9
Hf	4+	S	2-	2.393	0.369								
Hf	4+	Se	2-	2.533	0.370								
Hf	4+	Te	2-	2.749	0.369								
Hg	1+	O	2-	1.958	0.370	1.900	0.370	3.0	-1				
Hg	2+	Br	1-	2.347	0.369	2.380	0.370	-1.4	-2				
Hg	2+	Cl	1-	2.226	0.369	2.250	0.370	-1.1	-3				
Hg	2+	Cl	1-	2.226	0.369	2.280	0.370	-2.4	-3				
Hg	2+	F	1-	1.848	0.370	1.900	0.370	-2.7	-1				
Hg	2+	F	1-	1.848	0.370	2.170	0.370	-14.8	-1				
Hg	2+	I	1-	2.521	0.367	2.620	0.370	-3.8	-9				
Hg	2+	N	3-	1.959	0.371								
Hg	2+	O	2-	1.947	0.370	1.930	0.370	.9	-1	1.947	0.370	-0	-1
Hg	2+	O	2-	1.947	0.370	1.972	0.370	-1.3	-1	1.947	0.370	-0	-1
Hg	2+	O	2-	1.947	0.370	1.924	0.380	1.2	-2.8	1.947	0.370	-0	-1
Hg	2+	S	2-	2.290	0.369	2.308	0.370	-8	-4				
Hg	2+	Se	2-	2.387	0.369								
Hg	2+	Te	2-	2.498	0.368								
Ho	3+	C	4-	2.162	0.375								
Ho	3+	F	1-	1.916	0.368	1.880	0.400	1.9	-7.9				
Ho	3+	F	1-	1.916	0.368	1.908	0.370	.4	-4				
Ho	3+	N	3-	2.199	0.370								
Ho	3+	O	2-	2.012	0.370	1.992	0.370	1.0	.1	1.993	0.387	1.0	-4.3
Ho	3+	O	2-	2.012	0.370	2.025	0.370	-6	.1	1.993	0.387	1.0	-4.3
Ho	3+	S	2-	2.464	0.370	2.490	0.370	-1.0	.1				
Ho	3+	Se	2-	2.578	0.369								
Ho	3+	Te	2-	2.807	0.373								
I	3+	Cl	1-	2.387	0.370	2.390	0.370	-1	.1				

I	5+	O	2-	2.090	0.387	2.003	0.370	4.3	4.6	1.992	0.474	4.9	-18.4
I	5+	O	2-	2.090	0.387	1.990	0.440	5.0	-12.0	1.992	0.474	4.9	-18.4
I	7+	O	2-	1.939	0.371	1.930	0.370	.5	.2	1.930	0.299	.5	24.0
In	1+	As	3-	2.437	0.369								
In	1+	Br	1-	2.679	0.368								
In	1+	Cl	1-	2.418	0.372	2.560	0.370	-5.5	.5				
In	1+	I	1-	2.203	0.371								
In	1+	S	2-	2.150	0.371								
In	1+	Se	2-	2.333	0.382								
In	1+	Te	2-	2.628	0.371								
In	2+	S	2-	2.368	0.368								
In	3+	As	3-	2.592	0.368								
In	3+	Br	1-	2.392	0.370	2.510	0.350	-4.7	5.7				
In	3+	Cl	1-	2.261	0.368	2.280	0.370	-.8	-.4				
In	3+	F	1-	1.806	0.370	1.792	0.370	.8	.1				
In	3+	I	1-	2.612	0.370	2.630	0.370	-.7	.1				
In	3+	O	2-	1.894	0.370	1.902	0.370	-.4	.1	1.823	0.459	3.9	-19.3
In	3+	P	3-	2.502	0.369								
In	3+	S	2-	2.358	0.369	2.370	0.370	-.5	-.3				
In	3+	Se	2-	2.470	0.370								
In	3+	Te	2-	2.640	0.371								
Ir	3+	Te	2-	2.409	0.369								
Ir	4+	F	1-	1.783	0.368	1.800	0.370	-1.0	-.6				
Ir	4+	O	2-	1.867	0.369	1.870	0.370	-.2	-.3	1.909	0.258	-2.2	43.0
Ir	4+	Te	2-	2.507	0.371								
Ir	5+	F	1-	1.809	0.369	1.820	0.370	-.6	-.4				
Ir	5+	O	2-	1.911	0.371	2.010	0.370	-4.9	.2	1.909	0.449	.1	-17.5
Ir	5+	O	2-	1.911	0.371	1.916	0.370	-.3	.2	1.909	0.449	.1	-17.5
Ir	6+	O	2-	1.939	0.372								
K	1+	As	3-	2.825	0.369	2.830	0.370	-.2	-.2				
K	1+	Br	1-	2.628	0.369	2.153	0.603	22.1	-38.8				
K	1+	Br	1-	2.628	0.369	2.660	0.370	-1.2	-.3				
K	1+	C	1-	2.284	0.370								
K	1+	Cl	1-	2.487	0.369	2.071	0.559	20.1	-34.0				
K	1+	Cl	1-	2.487	0.369	2.519	0.370	-1.3	-.3				
K	1+	F	1-	1.972	0.370	1.831	0.429	7.7	-13.9				
K	1+	F	1-	1.972	0.370	1.992	0.370	-1.0	-.1				
K	1+	H	1-	1.916	0.368	2.100	0.370	-8.8	-.4				
K	1+	I	1-	2.879	0.369	2.880	0.370	-.0	-.3				
K	1+	I	1-	2.879	0.369	2.920	0.370	-1.4	-.3				
K	1+	I	1-	2.879	0.369	2.282	0.658	26.1	-44.0				
K	1+	N	3-	2.247	0.369	2.300	0.370	-2.3	-.2				
K	1+	N	3-	2.247	0.369	2.260	0.370	-.6	-.2				
K	1+	O	2-	2.100	0.369	2.132	0.370	-1.5	-.2	2.047	0.398	2.6	-7.2
K	1+	O	2-	2.100	0.369	1.840	0.480	14.2	-23.1	2.047	0.398	2.6	-7.2
K	1+	O	2-	2.100	0.369	1.955	0.430	7.4	-14.1	2.047	0.398	2.6	-7.2
K	1+	O	2-	2.100	0.369	2.113	0.370	-.6	-.2	2.047	0.398	2.6	-7.2
K	1+	P	3-	2.777	0.370	2.640	0.370	5.2	-.0				
K	1+	S	2-	2.566	0.368	2.590	0.370	-.9	-.6				
K	1+	S	2-	2.566	0.368	2.630	0.370	-2.4	-.6				
K	1+	S	2-	2.566	0.368	2.152	0.580	19.3	-36.6				
K	1+	Sb	3-	3.024	0.396								
K	1+	Se	2-	2.684	0.369	2.281	0.612	17.6	-39.7				

K	1+	Se	2-	2.684	0.369	2.720	0.370	-1.3	-.2				
K	1+	Te	2-	2.894	0.369	2.930	0.370	-1.2	-.4				
K	1+	Te	2-	2.894	0.369	2.410	0.653	20.1	-43.5				
La	2+	I	1-	2.829	0.369								
La	3+	Br	1-	2.720	0.371	2.660	0.400	2.3	-7.2				
La	3+	Br	1-	2.720	0.371	2.720	0.370	.0	.4				
La	3+	F	1-	2.062	0.367	2.080	0.370	-.9	-.8				
La	3+	F	1-	2.062	0.367	2.020	0.400	2.1	-8.2				
La	3+	N	3-	2.307	0.373	2.340	0.370	-1.4	.8				
La	3+	N	3-	2.307	0.373	2.261	0.370	2.0	.8				
La	3+	O	2-	2.171	0.371	2.172	0.370	-.1	.2	2.179	0.359	-.4	3.2
La	3+	O	2-	2.171	0.371	2.086	0.450	4.1	-17.6	2.179	0.359	-.4	3.2
La	3+	O	2-	2.171	0.371	2.172	0.330	-.1	12.3	2.179	0.359	-.4	3.2
La	3+	O	2-	2.171	0.371	2.148	0.370	1.1	.2	2.179	0.359	-.4	3.2
La	3+	S	2-	2.538	0.427	2.632	0.370	-3.6	15.4				
La	3+	S	2-	2.538	0.427	2.643	0.370	-4.0	15.4				
La	3+	Sb	3-	3.032	0.398								
La	3+	Se	2-	2.742	0.369	2.740	0.370	.1	-.4				
Li	1+	As	3-	2.141	0.371								
Li	1+	Bi	3-	2.313	0.370								
Li	1+	Br	1-	2.064	0.369	2.020	0.370	2.2	-.3				
Li	1+	Br	1-	2.064	0.369	1.515	0.674	36.2	-45.3				
Li	1+	Cl	1-	1.901	0.370	1.387	0.640	37.0	-42.3				
Li	1+	Cl	1-	1.901	0.370	1.910	0.370	-.5	-.1				
Li	1+	Cl	1-	1.901	0.370	1.940	0.370	-2.0	-.1				
Li	1+	F	1-	1.371	0.369	1.360	0.370	.8	-.2				
Li	1+	F	1-	1.371	0.369	1.097	0.503	25.0	-26.6				
Li	1+	Ge	4-	2.257	0.368								
Li	1+	H	1-	1.376	0.370								
Li	1+	I	1-	2.333	0.368	2.220	0.370	5.1	-.5				
Li	1+	I	1-	2.333	0.368	1.675	0.722	39.2	-49.0				
Li	1+	N	1-	1.475	0.364								
Li	1+	N	3-	1.608	0.368	1.610	0.370	-.1	-.5				
Li	1+	N	3-	1.608	0.368	1.150	0.631	39.8	-41.7				
Li	1+	O	2-	1.485	0.370	1.174	0.514	26.5	-28.1	1.062	0.642	39.9	-42.4
Li	1+	O	2-	1.485	0.370	1.466	0.370	1.3	-.1	1.062	0.642	39.9	-42.4
Li	1+	O	2-	1.485	0.370	1.174	0.590	26.5	-37.4	1.062	0.642	39.9	-42.4
Li	1+	O	2-	1.485	0.370	1.290	0.480	15.1	-23.0	1.062	0.642	39.9	-42.4
Li	1+	P	3-	2.091	0.368								
Li	1+	S	2-	1.950	0.369	1.461	0.656	33.5	-43.7				
Li	1+	S	2-	1.950	0.369	1.940	0.370	.5	-.2				
Li	1+	Sb	3-	2.267	0.372								
Li	1+	Se	2-	2.110	0.369	1.627	0.681	29.7	-45.9				
Li	1+	Se	2-	2.110	0.369	2.090	0.370	.9	-.4				
Li	1+	Si	4-	2.201	0.370								
Li	1+	Sn	4-	2.272	0.373								
Li	1+	Te	2-	2.220	0.370	2.300	0.370	-3.5	.1				
Li	1+	Te	2-	2.220	0.370	1.734	0.717	28.0	-48.4				
Lu	3+	O	2-	1.968	0.369	1.971	0.370	-.2	-.2	1.939	0.403	1.5	-8.4
Lu	3+	O	2-	1.968	0.369	1.947	0.370	1.1	-.2	1.939	0.403	1.5	-8.4
Lu	3+	S	2-	2.431	0.369	2.430	0.370	.0	-.2				
Lu	3+	Se	2-	2.557	0.369	2.560	0.370	-.1	-.2				
Lu	3+	Sn	4-	2.962	0.369								

Lu	3+	Te	2-	2.773	0.376	2.750	0.370	.8	1.7				
Mg	2+	As	3-	2.385	0.370	2.380	0.370	.2	.0				
Mg	2+	B	1-	1.841	0.367								
Mg	2+	Bi	3-	2.641	0.365								
Mg	2+	Br	1-	2.267	0.369	2.280	0.370	-.6	-.2				
Mg	2+	Cl	1-	2.086	0.369	2.080	0.370	.3	-.2				
Mg	2+	F	1-	1.581	0.373	1.578	0.370	.2	.7				
Mg	2+	Ge	4-	2.507	0.371								
Mg	2+	H	1-	1.554	0.369	1.530	0.370	1.6	-.3				
Mg	2+	N	3-	1.858	0.369	1.850	0.370	.4	-.2				
Mg	2+	O	2-	1.683	0.370	1.693	0.370	-.6	-.1	1.608	0.443	4.7	-16.6
Mg	2+	O	2-	1.683	0.370	1.636	0.420	2.9	-12.0	1.608	0.443	4.7	-16.6
Mg	2+	P	3-	2.311	0.371	2.290	0.370	.9	.3				
Mg	2+	S	2-	2.187	0.368	2.180	0.370	.3	-.6				
Mg	2+	Sb	3-	2.592	0.372								
Mg	2+	Se	2-	2.285	0.368	2.320	0.370	-1.5	-.5				
Mg	2+	Si	4-	2.494	0.369								
Mn	2+	As	3-	2.315	0.371								
Mn	2+	Bi	3-	2.649	0.369								
Mn	2+	Br	1-	2.272	0.369	2.340	0.370	-2.9	-.2				
Mn	2+	Cl	1-	2.141	0.368	2.133	0.370	.4	-.7				
Mn	2+	F	1-	1.708	0.369	1.698	0.370	.6	-.2				
Mn	2+	Ge	4-	2.302	0.368								
Mn	2+	I	1-	2.496	0.368								
Mn	2+	N	3-	1.835	0.369	1.849	0.370	-.8	-.2				
Mn	2+	N	3-	1.835	0.369	1.650	0.350	11.2	5.5				
Mn	2+	O	2-	1.784	0.370	1.790	0.370	-.3	-.1	1.740	0.417	2.5	-11.4
Mn	2+	O	2-	1.784	0.370	1.765	0.370	1.1	-.1	1.740	0.417	2.5	-11.4
Mn	2+	O	2-	1.784	0.370	1.762	0.400	1.3	-7.6	1.740	0.417	2.5	-11.4
Mn	2+	P	2-	1.946	0.369								
Mn	2+	P	3-	2.239	0.369								
Mn	2+	S	2-	2.178	0.368	2.220	0.370	-1.9	-.6				
Mn	2+	Sb	3-	2.522	0.370								
Mn	2+	Se	2-	2.301	0.366								
Mn	2+	Si	4-	2.162	0.375								
Mn	2+	Te	2-	2.493	0.368								
Mn	3+	F	1-	1.655	0.369	1.660	0.370	-.3	-.2				
Mn	3+	F	1-	1.655	0.369	1.666	0.360	-.7	2.6				
Mn	3+	Ge	4-	2.467	0.369								
Mn	3+	N	3-	1.745	0.370	1.837	0.370	-5.0	.1				
Mn	3+	O	2-	1.751	0.370	1.732	0.370	1.1	.0	1.823	0.247	-4.0	49.8
Mn	3+	O	2-	1.751	0.370	1.760	0.370	-.5	.0	1.823	0.247	-4.0	49.8
Mn	3+	O	2-	1.751	0.370	1.762	0.350	-.6	5.7	1.823	0.247	-4.0	49.8
Mn	3+	P	3-	2.115	0.376								
Mn	3+	S	2-	2.223	0.365								
Mn	3+	Sb	3-	2.565	0.370								
Mn	3+	Se	2-	2.461	0.369								
Mn	3+	Te	2-	2.656	0.370								
Mn	4+	F	1-	1.604	0.370	1.630	0.370	-1.6	-.0				
Mn	4+	F	1-	1.604	0.370	1.710	0.370	-6.2	-.0				
Mn	4+	N	3-	1.843	0.370	1.822	0.370	1.2	-.1				
Mn	4+	O	2-	1.757	0.370	1.750	0.370	.4	.1	1.750	0.374	.4	-.9
Mn	4+	O	2-	1.757	0.370	1.753	0.370	.2	.1	1.750	0.374	.4	-.9

Mn	4+	O	2-	1.757	0.370	1.762	0.340	-3	9.0	1.750	0.374	.4	-9
Mn	5+	N	3-	1.912	0.371								
Mn	5+	O	2-	1.758	0.375	1.762	0.300	-2	25.1	1.781	0.375	-1.3	.1
Mn	6+	O	2-	1.791	0.375	1.790	0.370	.1	1.4	1.814	0.375	-1.2	.1
Mn	6+	O	2-	1.791	0.375	1.762	0.270	1.7	39.0	1.814	0.375	-1.2	.1
Mn	7+	O	2-	1.813	0.371	1.827	0.370	-.7	.4	1.819	0.375	-.3	-1.0
Mn	7+	O	2-	1.813	0.371	1.790	0.370	1.3	.4	1.819	0.375	-.3	-1.0
Mn	7+	O	2-	1.813	0.371	1.762	0.260	2.9	42.8	1.819	0.375	-.3	-1.0
Mo	2+	Br	1-	2.257	0.369								
Mo	2+	Cl	1-	2.127	0.370	2.052	0.441	3.6	-16.1				
Mo	2+	S	2-	2.135	0.373	2.072	0.422	3.0	-11.7				
Mo	2+	Se	2-	2.248	0.369								
Mo	3+	Br	1-	2.328	0.370	2.191	0.541	6.2	-31.6				
Mo	3+	Br	1-	2.328	0.370	2.340	0.370	-.5	-.1				
Mo	3+	C	4-	1.982	0.370								
Mo	3+	Cl	1-	2.178	0.369	2.220	0.370	-1.9	-.2				
Mo	3+	Cl	1-	2.178	0.369	2.089	0.501	4.3	-26.3				
Mo	3+	N	3-	1.922	0.370	1.960	0.370	-2.0	-.1				
Mo	3+	O	2-	1.838	0.369	1.789	0.418	2.8	-11.7	1.792	0.436	2.6	-15.4
Mo	3+	O	2-	1.838	0.369	1.834	0.370	.2	-.3	1.792	0.436	2.6	-15.4
Mo	3+	S	2-	2.206	0.370	2.062	0.519	7.0	-28.7				
Mo	4+	Cl	1-	2.222	0.368	2.128	0.558	4.4	-34.0				
Mo	4+	F	1-	1.792	0.371	1.800	0.370	-.4	.2				
Mo	4+	O	2-	1.853	0.369	1.886	0.370	-1.7	-.3	1.834	0.404	1.0	-8.7
Mo	4+	O	2-	1.853	0.369	1.724	0.562	7.5	-34.4	1.834	0.404	1.0	-8.7
Mo	4+	O	2-	1.853	0.369	1.856	0.370	-.2	-.3	1.834	0.404	1.0	-8.7
Mo	4+	P	3-	2.307	0.368								
Mo	4+	S	2-	2.264	0.368	2.235	0.370	1.3	-.6				
Mo	4+	Se	2-	2.366	0.370								
Mo	5+	C	4-	2.173	0.370								
Mo	5+	O	2-	1.915	0.370	1.848	0.482	3.6	-23.2	1.888	0.314	1.5	18.0
Mo	5+	O	2-	1.915	0.370	1.907	0.370	.4	.1	1.888	0.314	1.5	18.0
Mo	5+	O	2-	1.915	0.370	1.878	0.370	2.0	.1	1.888	0.314	1.5	18.0
Mo	6+	N	3-	2.009	0.370	2.009	0.370	.0	-.1				
Mo	6+	O	2-	1.926	0.370	1.907	0.370	1.0	-.0	1.903	0.349	1.2	6.0
Mo	6+	O	2-	1.926	0.370	1.915	0.410	.5	-9.8	1.903	0.349	1.2	6.0
Mo	6+	O	2-	1.926	0.370	1.870	0.260	3.0	42.3	1.903	0.349	1.2	6.0
Mo	6+	O	2-	1.926	0.370	1.900	0.370	1.3	-.0	1.903	0.349	1.2	6.0
Mo	6+	O	2-	1.926	0.370	1.912	0.405	.7	-8.7	1.903	0.349	1.2	6.0
Mo	6+	S	2-	2.349	0.367	2.331	0.370	.8	-.8				
Na	1+	As	3-	2.496	0.370	2.530	0.370	-1.4	.1				
Na	1+	Br	1-	2.291	0.373	1.772	0.646	29.3	-42.2				
Na	1+	Br	1-	2.291	0.373	2.330	0.370	-1.7	.9				
Na	1+	Cl	1-	2.165	0.369	1.683	0.608	28.6	-39.3				
Na	1+	Cl	1-	2.165	0.369	2.220	0.370	-2.5	-.3				
Na	1+	Cl	1-	2.165	0.369	2.150	0.370	.7	-.3				
Na	1+	F	1-	1.674	0.370	1.677	0.370	-.2	.0				
Na	1+	F	1-	1.674	0.370	1.449	0.465	15.6	-20.4				
Na	1+	H	1-	1.663	0.368	1.680	0.370	-1.0	-.4				
Na	1+	I	1-	2.526	0.363	2.560	0.370	-1.3	-1.9				
Na	1+	I	1-	2.526	0.363	1.956	0.695	29.2	-47.8				
Na	1+	N	3-	1.884	0.370	2.010	0.370	-6.3	-.0				
Na	1+	N	3-	1.884	0.370	1.930	0.370	-2.4	-.0				

Na	1+	O	2-	1.779	0.368	1.577	0.475	12.8	-22.4	1.695	0.420	5.0	-12.3
Na	1+	O	2-	1.779	0.368	1.803	0.370	-1.3	-.4	1.695	0.420	5.0	-12.3
Na	1+	O	2-	1.779	0.368	1.756	0.370	1.3	-.4	1.695	0.420	5.0	-12.3
Na	1+	O	2-	1.779	0.368	1.661	0.440	7.1	-16.3	1.695	0.420	5.0	-12.3
Na	1+	P	3-	2.431	0.370	2.360	0.370	3.0	-.1				
Na	1+	S	2-	2.274	0.368	2.300	0.370	-1.1	-.4				
Na	1+	S	2-	2.274	0.368	2.280	0.370	-.2	-.4				
Na	1+	S	2-	2.274	0.368	1.821	0.626	24.9	-41.2				
Na	1+	Sb	3-	2.703	0.370								
Na	1+	Se	2-	2.406	0.369	2.410	0.370	-.2	-.2				
Na	1+	Se	2-	2.406	0.369	1.891	0.654	27.2	-43.5				
Na	1+	Te	2-	2.634	0.369	2.640	0.370	-.2	-.3				
Na	1+	Te	2-	2.634	0.369	2.040	0.690	29.1	-46.6				
Nb	2+	C	4-	2.002	0.462								
Nb	2+	S	2-	2.103	0.371								
Nb	2+	Se	2-	2.074	0.368								
Nb	2+	Te	2-	2.481	0.366								
Nb	3+	As	3-	2.331	0.415								
Nb	3+	F	1-	1.686	0.367	1.710	0.370	-1.4	-.8				
Nb	3+	N	3-	1.974	0.371								
Nb	3+	O	2-	1.880	0.370	1.910	0.350	-1.6	5.7				
Nb	3+	S	2-	2.247	0.374								
Nb	3+	Se	2-	2.317	0.370								
Nb	4+	F	1-	1.794	0.373	1.900	0.370	-5.6	.7				
Nb	4+	O	2-	1.874	0.370	1.880	0.370	-.3	.1	1.853	0.479	1.1	-22.7
Nb	4+	S	2-	2.291	0.370								
Nb	4+	Se	2-	2.424	0.371								
Nb	5+	As	3-	2.588	0.370								
Nb	5+	Cl	1-	2.284	0.370	2.270	0.370	.6	.1				
Nb	5+	F	1-	1.818	0.370	1.870	0.370	-2.8	.1				
Nb	5+	N	3-	2.031	0.372	2.010	0.350	1.0	6.3				
Nb	5+	O	2-	1.912	0.369	1.916	0.370	-.2	-.2	1.909	0.369	.2	.1
Nb	5+	O	2-	1.912	0.369	1.911	0.370	.1	-.2	1.909	0.369	.2	.1
Nb	5+	Se	2-	2.494	0.369								
Nb	5+	Te	2-	2.718	0.372								
Nd	2+	Br	1-	2.633	0.364								
Nd	2+	I	1-	2.913	0.363								
Nd	3+	Br	1-	2.739	0.360	2.610	0.400	4.9	-10.1				
Nd	3+	Br	1-	2.739	0.360	2.660	0.370	3.0	-2.8				
Nd	3+	F	1-	2.009	0.374	1.980	0.400	1.5	-6.5				
Nd	3+	F	1-	2.009	0.374	2.008	0.370	.1	1.0				
Nd	3+	N	3-	2.241	0.369	2.300	0.370	-2.6	-.2				
Nd	3+	N	3-	2.241	0.369	2.201	0.370	1.8	-.2				
Nd	3+	O	2-	2.104	0.370	2.105	0.370	-.0	.0	2.103	0.371	.0	-.2
Nd	3+	O	2-	2.104	0.370	2.086	0.370	.9	.0	2.103	0.371	.0	-.2
Nd	3+	O	2-	2.104	0.370	2.117	0.370	-.6	.0	2.103	0.371	.0	-.2
Nd	3+	O	2-	2.104	0.370	2.021	0.460	4.1	-19.5	2.103	0.371	.0	-.2
Nd	3+	S	2-	2.524	0.398	2.559	0.370	-1.4	7.7				
Nd	3+	S	2-	2.524	0.398	2.590	0.370	-2.5	7.7				
Nd	3+	Se	2-	2.693	0.369	2.710	0.370	-.6	-.2				
Nd	3+	Te	2-	2.899	0.366	2.890	0.370	.3	-1.1				
Ni	1+	O	2-	1.467	0.366								
Ni	2+	As	3-	2.106	0.370								

Ni 2+	Cl 1-	2.013	0.367	2.020	0.370	-3	-8				
Ni 2+	F 1-	1.603	0.370	1.596	0.370	.4	.1				
Ni 2+	N 3-	1.677	0.370	1.700	0.370	-1.3	.1				
Ni 2+	N 3-	1.677	0.370	1.647	0.370	1.8	.1				
Ni 2+	O 2-	1.657	0.370	1.675	0.370	-1.1	-1	1.689	0.347	-1.9	6.5
Ni 2+	O 2-	1.657	0.370	1.654	0.370	.2	-1	1.689	0.347	-1.9	6.5
Ni 2+	O 2-	1.657	0.370	1.670	0.370	-.8	-1	1.689	0.347	-1.9	6.5
Ni 2+	P 2-	1.939	0.371								
Ni 2+	P 3-	1.983	0.368								
Ni 2+	S 2-	2.039	0.371	1.980	0.370	3.0	.4				
Ni 2+	S 2-	2.039	0.371	1.937	0.370	5.3	.4				
Ni 2+	Se 2-	2.102	0.370								
Ni 2+	Si 4-	2.034	0.370								
Ni 2+	Te 2-	2.262	0.375								
Ni 3+	As 3-	2.183	0.369								
Ni 3+	F 1-	1.604	0.371	1.580	0.370	1.5	.2				
Ni 3+	O 2-	1.702	0.371	1.750	0.370	-2.7	.3				
Ni 4+	F 1-	1.629	0.369	1.610	0.370	1.2	-.2				
Ni 4+	O 2-	1.787	0.371	1.780	0.350	.4	6.0	1.734	0.335	3.0	10.7
Ni 4+	Te 2-	2.443	0.369								
Np 4+	O 2-	2.064	0.371	2.180	0.370	-5.3	.3				
Np 4+	O 2-	2.064	0.371	2.110	0.350	-2.2	6.0				
Np 5+	O 2-	2.040	0.372	2.090	0.350	-2.4	6.3	2.036	0.411	.2	-9.5
Np 6+	O 2-	2.030	0.371	2.070	0.350	-1.9	5.9	2.022	0.523	.4	-29.1
Os 3+	Te 2-	2.428	0.372								
Os 4+	Br 1-	2.337	0.369	2.370	0.370	-1.4	-.4				
Os 4+	Cl 1-	2.186	0.370	2.190	0.370	-.2	-.0				
Os 4+	O 2-	1.859	0.369	1.811	0.370	2.7	-.4				
Os 5+	O 2-	1.900	0.371					1.870	0.485	1.6	-23.5
Os 6+	O 2-	1.925	0.371	2.030	0.370	-5.2	.2	1.904	0.375	1.1	-1.2
Os 7+	O 2-	1.946	0.369					1.937	0.349	.5	5.8
Os 8+	O 2-	1.948	0.373	1.920	0.370	1.4	.8	1.966	0.405	-.9	-7.9
P 3+	O 2-	1.533	0.371	1.630	0.370	-5.9	.2	1.655	0.399	-7.4	-7.1
P 3+	S 2-	2.026	0.371	2.120	0.370	-4.4	.2				
P 4+	O 2-	1.544	0.369	1.640	0.370	-5.8	-.2				
P 4+	S 2-	2.133	0.369	2.130	0.350	.1	5.5				
P 4+	Se 2-	2.291	0.371								
P 5+	Cl 1-	2.019	0.373	2.020	0.370	-.1	.8				
P 5+	S 2-	2.125	0.369	2.145	0.370	-.9	-.4				
P 5+	Se 2-	2.278	0.373								
Pa 5+	F 1-	2.042	0.370	2.040	0.370	.1	.1				
Pa 5+	F 1-	2.042	0.370	2.010	0.400	1.6	-7.4				
Pb 2+	Br 1-	2.604	0.368	2.680	0.370	-2.8	-.5				
Pb 2+	Br 1-	2.604	0.368	2.598	0.400	.2	-8.0				
Pb 2+	Cl 1-	2.486	0.370	2.530	0.370	-1.7	.0				
Pb 2+	Cl 1-	2.486	0.370	2.447	0.400	1.6	-7.5				
Pb 2+	F 1-	2.056	0.370	2.036	0.382	1.0	-3.2				
Pb 2+	F 1-	2.056	0.370	2.030	0.370	1.3	-.0				
Pb 2+	I 1-	2.805	0.365	2.830	0.370	-.9	-1.4				
Pb 2+	I 1-	2.805	0.365	2.804	0.386	.0	-5.5				
Pb 2+	O 2-	2.119	0.370	2.112	0.370	.3	-.1	2.032	0.442	4.3	-16.4
Pb 2+	O 2-	2.119	0.370	1.963	0.490	8.0	-24.6	2.032	0.442	4.3	-16.4
Pb 2+	S 2-	2.531	0.369	2.541	0.370	-.4	-.2				

Pb	2+	Se	2-	2.690	0.369	2.690	0.370	-0	-2				
Pb	2+	Te	2-	2.794	0.370								
Pb	4+	F	1-	1.969	0.369	1.940	0.370	1.5	-.4				
Pb	4+	O	2-	2.016	0.371	2.042	0.370	-1.3	.2	2.056	0.280	-1.9	32.4
Pd	1+	As	3-	2.116	0.370								
Pd	1+	P	3-	2.016	0.369								
Pd	2+	As	3-	2.266	0.370								
Pd	2+	Bi	3-	2.460	0.372								
Pd	2+	Br	1-	2.174	0.371	2.200	0.370	-1.2	.3				
Pd	2+	Cl	1-	2.048	0.367	2.050	0.370	-.1	-.9				
Pd	2+	F	1-	1.719	0.372	1.740	0.370	-1.2	.4				
Pd	2+	N	3-	1.789	0.369	1.820	0.350	-1.7	5.5				
Pd	2+	O	2-	1.772	0.370	1.792	0.370	-1.1	-.1	1.749	0.375	1.3	-1.4
Pd	2+	P	3-	2.209	0.370								
Pd	2+	S	2-	2.095	0.370	2.090	0.370	.2	.1				
Pd	2+	Sb	3-	2.415	0.368								
Pd	2+	Se	2-	2.205	0.370								
Pd	2+	Si	4-	2.190	0.379								
Pd	2+	Te	2-	2.414	0.370								
Pd	4+	F	1-	1.744	0.372	1.660	0.370	5.1	.5				
Pd	4+	O	2-	1.892	0.369					1.856	0.352	1.9	4.9
Pd	4+	Te	2-	2.522	0.373								
Pm	3+	O	2-	2.114	0.369								
Pr	3+	Br	1-	2.664	0.370	2.630	0.400	1.3	-7.4				
Pr	3+	Br	1-	2.664	0.370	2.670	0.370	-.2	.1				
Pr	3+	C	4-	2.500	0.372								
Pr	3+	Cl	1-	2.506	0.370	2.521	0.370	-.6	-.1				
Pr	3+	Cl	1-	2.506	0.370	2.500	0.370	.2	-.1				
Pr	3+	Cl	1-	2.506	0.370	2.470	0.400	1.4	-7.6				
Pr	3+	F	1-	2.021	0.369	2.022	0.370	-.1	-.2				
Pr	3+	F	1-	2.021	0.369	1.990	0.400	1.5	-7.7				
Pr	3+	N	3-	2.312	0.376	2.300	0.370	.5	1.6				
Pr	3+	N	3-	2.312	0.376	2.215	0.370	4.4	1.6				
Pr	3+	O	2-	2.114	0.370	2.098	0.370	.8	.1	2.071	0.411	2.1	-9.9
Pr	3+	O	2-	2.114	0.370	2.138	0.370	-1.1	.1	2.071	0.411	2.1	-9.9
Pr	3+	S	2-	2.499	0.432	2.600	0.370	-3.9	16.8				
Pr	3+	S	2-	2.499	0.432	2.594	0.370	-3.7	16.8				
Pr	3+	Se	2-	2.592	0.425								
Pr	3+	Te	2-	2.918	0.369	2.900	0.370	.6	-.2				
Pr	4+	O	2-	2.093	0.370								
Pt	2+	Cl	1-	2.048	0.370	2.050	0.370	-.1	-.1				
Pt	2+	N	3-	1.782	0.370	1.810	0.370	-1.5	.1				
Pt	2+	O	2-	1.731	0.368	1.800	0.370	-3.8	-.6	1.742	0.375	-.6	-1.9
Pt	2+	O	2-	1.731	0.368	1.768	0.370	-2.1	-.6	1.742	0.375	-.6	-1.9
Pt	2+	S	2-	2.086	0.364	2.160	0.370	-3.4	-1.6				
Pt	2+	Sb	3-	2.444	0.368								
Pt	2+	Se	2-	2.197	0.372								
Pt	2+	Te	2-	2.397	0.370								
Pt	4+	Cl	1-	2.190	0.369	2.170	0.370	.9	-.2				
Pt	4+	Cl	1-	2.190	0.369	2.320	0.370	-5.6	-.2				
Pt	4+	F	1-	1.767	0.370	2.190	0.370	-19.3	-.1				
Pt	4+	F	1-	1.767	0.370	1.759	0.370	.5	-.1				
Pt	4+	O	2-	1.872	0.370	1.879	0.370	-.4	.0	1.856	0.407	.9	-9.1

Pt	4+	S	2-	2.209	0.371								
Pt	4+	Se	2-	2.361	0.368								
Pt	4+	Te	2-	2.519	0.369								
Pt	5+	F	1-	1.807	0.370								
Pu	3+	Cl	1-	2.452	0.371	2.460	0.400	-3	-7.3				
Pu	3+	Cl	1-	2.452	0.371	2.480	0.370	-1.1	.2				
Pu	4+	Cl	1-	2.437	0.375	2.440	0.400	-.1	-6.2				
Pu	4+	O	2-	2.078	0.371	2.068	0.385	.5	-3.5				
Pu	4+	O	2-	2.078	0.371	2.090	0.350	-.6	6.1				
Rb	1+	As	3-	2.955	0.370	2.870	0.370	3.0	.1				
Rb	1+	Br	1-	2.765	0.369	2.330	0.578	18.7	-36.1				
Rb	1+	Br	1-	2.765	0.369	2.780	0.370	-.5	-.2				
Rb	1+	Br	1-	2.765	0.369	2.860	0.370	-3.3	-.2				
Rb	1+	C	1-	2.504	0.367								
Rb	1+	Cl	1-	2.632	0.369	2.652	0.370	-.8	-.2				
Rb	1+	Cl	1-	2.632	0.369	2.265	0.531	16.2	-30.5				
Rb	1+	F	1-	2.086	0.368	2.160	0.370	-3.4	-.5				
Rb	1+	F	1-	2.086	0.368	1.972	0.412	5.8	-10.6				
Rb	1+	F	1-	2.086	0.368	2.200	0.370	-5.2	-.5				
Rb	1+	H	1-	2.138	0.370	2.260	0.370	-5.4	-.1				
Rb	1+	I	1-	2.953	0.371	2.451	0.638	20.5	-41.8				
Rb	1+	I	1-	2.953	0.371	3.010	0.370	-1.9	.4				
Rb	1+	I	1-	2.953	0.371	3.120	0.370	-5.4	.4				
Rb	1+	N	3-	2.427	0.369	2.620	0.370	-7.4	-.2				
Rb	1+	N	3-	2.427	0.369	2.370	0.370	2.4	-.2				
Rb	1+	O	2-	2.235	0.370	2.263	0.370	-1.2	-.1	1.993	0.478	12.1	-22.7
Rb	1+	O	2-	2.235	0.370	2.081	0.415	7.4	-11.0	1.993	0.478	12.1	-22.7
Rb	1+	S	2-	2.668	0.370	2.800	0.370	-4.7	-.0				
Rb	1+	S	2-	2.668	0.370	2.299	0.553	16.1	-33.1				
Rb	1+	S	2-	2.668	0.370	2.700	0.370	-1.2	-.0				
Rb	1+	Se	2-	2.807	0.370	2.810	0.370	-.1	-.1				
Rb	1+	Se	2-	2.807	0.370	2.389	0.587	17.5	-37.0				
Rb	1+	Te	2-	2.985	0.370	3.000	0.370	-.5	-.1				
Rb	1+	Te	2-	2.985	0.370	2.418	0.633	23.5	-41.6				
Re	3+	Br	1-	2.356	0.370								
Re	3+	I	1-	2.562	0.369								
Re	3+	S	2-	2.230	0.369								
Re	4+	Cl	1-	2.202	0.369	2.230	0.370	-1.3	-.4				
Re	4+	O	2-	1.837	0.370								
Re	4+	P	3-	2.257	0.370								
Re	4+	S	2-	2.242	0.368								
Re	4+	Se	2-	2.361	0.375								
Re	5+	F	1-	1.792	0.370								
Re	5+	O	2-	1.894	0.371	1.860	0.370	1.8	.2	1.834	0.557	3.3	-33.5
Re	6+	O	2-	1.914	0.376								
Re	7+	N	3-	2.041	0.368								
Re	7+	O	2-	1.939	0.370	1.970	0.370	-1.6	-.1	1.943	0.406	-.2	-8.9
Rh	2+	P	3-	2.091	0.370								
Rh	3+	Cl	1-	2.089	0.371	2.080	0.370	.5	.2				
Rh	3+	Cl	1-	2.089	0.371	2.170	0.370	-3.7	.2				
Rh	3+	F	1-	1.716	0.370	1.710	0.370	.4	.1				
Rh	3+	N	3-	1.877	0.368	1.820	0.350	3.1	5.0				
Rh	3+	O	2-	1.793	0.370	1.793	0.370	.0	.0	1.769	0.369	1.4	.3

Rh	3+	S	2-	0.604	0.696								
Rh	3+	Sb	3-	2.417	0.370								
Rh	3+	Se	2-	2.236	0.370								
Rh	3+	Te	2-	2.410	0.369								
Rh	4+	F	1-	1.733	0.376	1.590	0.370	9.0	1.7				
Rh	4+	O	2-	1.852	0.370					1.836	0.422	.8	-12.3
Ru	2+	As	3-	2.176	0.375								
Ru	2+	P	3-	2.060	0.365								
Ru	3+	N	3-	1.845	0.372	1.820	0.350	1.4	6.2				
Ru	3+	O	2-	1.784	0.369	1.770	0.370	.8	-.3	1.745	0.401	2.3	-8.0
Ru	4+	F	1-	1.781	0.369	1.740	0.370	2.4	-.2				
Ru	4+	O	2-	1.840	0.370	1.834	0.370	.3	-.1	1.833	0.366	.4	1.0
Ru	5+	F	1-	1.802	0.374	1.820	0.370	-1.0	1.1				
Ru	5+	O	2-	1.894	0.370	1.900	0.370	-.3	.1	1.894	0.346	.0	7.1
Ru	6+	O	2-	1.919	0.379	1.870	0.350	2.6	8.3				
S	4+	Cl	1-	2.068	0.369	2.020	0.370	2.4	-.2				
Sb	3+	Br	1-	2.509	0.375	2.510	0.370	-.0	1.4				
Sb	3+	Cl	1-	2.362	0.387	2.350	0.370	.5	4.5				
Sb	3+	F	1-	1.895	0.368	1.900	0.370	-.3	-.4				
Sb	3+	F	1-	1.895	0.368	1.883	0.370	.6	-.4				
Sb	3+	I	1-	2.745	0.368	2.760	0.370	-.5	-.4				
Sb	3+	O	2-	1.965	0.369	1.924	0.470	2.2	-21.5	1.932	0.435	1.7	-15.2
Sb	3+	O	2-	1.965	0.369	1.885	0.530	4.3	-30.4	1.932	0.435	1.7	-15.2
Sb	3+	O	2-	1.965	0.369	1.927	0.446	2.0	-17.3	1.932	0.435	1.7	-15.2
Sb	3+	O	2-	1.965	0.369	1.925	0.455	2.1	-18.9	1.932	0.435	1.7	-15.2
Sb	3+	O	2-	1.965	0.369	1.955	0.370	.5	-.3	1.932	0.435	1.7	-15.2
Sb	3+	S	2-	2.457	0.371	2.474	0.370	-.7	.2				
Sb	3+	Se	2-	2.543	0.369	2.600	0.370	-2.2	-.3				
Sb	3+	Te	2-	2.847	0.370								
Sb	5+	Cl	1-	2.289	0.371	2.300	0.370	-.5	.3				
Sb	5+	F	1-	1.783	0.373	1.797	0.370	-.8	.7				
Sb	5+	O	2-	1.915	0.370	1.908	0.409	.4	-9.4	1.892	0.475	1.2	-22.0
Sb	5+	O	2-	1.915	0.370	1.912	0.370	.1	.1	1.892	0.475	1.2	-22.0
Sb	5+	O	2-	1.915	0.370	1.942	0.370	-1.4	.1	1.892	0.475	1.2	-22.0
Sb	5+	O	2-	1.915	0.370	1.904	0.430	.6	-13.9	1.892	0.475	1.2	-22.0
Sb	5+	S	2-	2.427	0.369								
Sc	3+	C	3-	2.033	0.379								
Sc	3+	Cl	1-	2.244	0.375	2.230	0.370	.7	1.4				
Sc	3+	Cl	1-	2.244	0.375	2.360	0.370	-4.9	1.4				
Sc	3+	F	1-	1.755	0.368	1.760	0.370	-.3	-.5				
Sc	3+	N	3-	2.011	0.405	1.980	0.370	1.6	9.3				
Sc	3+	O	2-	1.844	0.370	1.849	0.370	-.2	.0	1.780	0.452	3.6	-18.1
Sc	3+	O	2-	1.844	0.370	1.877	0.350	-1.7	5.7	1.780	0.452	3.6	-18.1
Sc	3+	S	2-	2.323	0.370	2.321	0.370	.1	.1				
Sc	3+	Se	2-	2.448	0.371	2.440	0.370	.3	.3				
Sc	3+	Te	2-	2.666	0.369	2.640	0.370	1.0	-.3				
Se	4+	Br	1-	2.393	0.372	2.430	0.370	-1.5	.6				
Si	4+	As	3-	2.358	0.370	2.310	0.370	2.1	.0				
Si	4+	F	1-	1.730	0.368	1.580	0.370	9.5	-.5				
Si	4+	P	3-	2.252	0.369	2.230	0.370	1.0	-.2				
Si	4+	S	2-	2.113	0.371	2.126	0.370	-.6	.2				
Si	4+	Sb	3-	2.444	0.405								
Si	4+	Se	2-	2.270	0.370	2.260	0.370	.4	-.1				

Si	4+	Te	2-	2.578	0.371	2.490	0.370	3.5	.4				
Sm	2+	Cl	1-	2.495	0.362								
Sm	2+	I	1-	2.893	0.365								
Sm	2+	S	2-	2.378	0.372								
Sm	2+	Se	2-	2.296	0.373								
Sm	2+	Si	4-	2.726	0.370								
Sm	3+	F	1-	1.976	0.371	1.940	0.400	1.9	-7.3				
Sm	3+	F	1-	1.976	0.371	2.000	0.370	-1.2	.2				
Sm	3+	O	2-	2.078	0.370	2.055	0.370	1.1	.1	2.049	0.404	1.4	-8.3
Sm	3+	O	2-	2.078	0.370	2.063	0.370	.7	.1	2.049	0.404	1.4	-8.3
Sm	3+	O	2-	2.078	0.370	2.088	0.370	-.5	.1	2.049	0.404	1.4	-8.3
Sm	3+	P	3-	2.595	0.363	2.630	0.370	-1.3	-1.8				
Sm	3+	S	2-	2.476	0.417	2.538	0.370	-2.5	12.8				
Sm	3+	S	2-	2.476	0.417	2.550	0.370	-2.9	12.8				
Sm	3+	Se	2-	2.664	0.368	2.670	0.370	-.2	-.5				
Sm	3+	Sn	4-	2.997	0.369								
Sm	3+	Te	2-	2.868	0.368	2.860	0.370	.3	-.5				
Sn	2+	As	3-	2.605	0.369								
Sn	2+	Br	1-	2.561	0.367	2.530	0.350	1.2	4.8				
Sn	2+	Cl	1-	2.368	0.376	2.335	0.430	1.4	-12.6				
Sn	2+	Cl	1-	2.368	0.376	2.360	0.370	.3	1.6				
Sn	2+	F	1-	1.894	0.369	1.925	0.370	-1.6	-.3				
Sn	2+	I	1-	2.772	0.368	2.810	0.370	-1.3	-.5				
Sn	2+	O	2-	1.984	0.371	1.984	0.370	-.0	.3	1.910	0.451	3.9	-17.7
Sn	2+	O	2-	1.984	0.371	1.859	0.550	6.7	-32.5	1.910	0.451	3.9	-17.7
Sn	2+	O	2-	1.984	0.371	1.849	0.500	7.3	-25.8	1.910	0.451	3.9	-17.7
Sn	2+	S	2-	2.430	0.369	2.440	0.370	-.4	-.3				
Sn	2+	Se	2-	2.574	0.370								
Sn	2+	Te	2-	2.673	0.371								
Sn	4+	As	3-	2.611	0.370								
Sn	4+	Cl	1-	2.280	0.369	2.276	0.370	.2	-.2				
Sn	4+	F	1-	1.811	0.371	1.843	0.370	-1.8	.2				
Sn	4+	N	3-	2.026	0.372	2.030	0.350	-.2	6.2				
Sn	4+	O	2-	1.902	0.370	1.905	0.370	-.1	-.1	1.946	0.274	-2.2	34.9
Sn	4+	P	3-	2.528	0.372								
Sn	4+	S	2-	2.376	0.379	2.399	0.370	-1.0	2.3				
Sn	4+	Sb	3-	2.835	0.370								
Sn	4+	Se	2-	2.523	0.370	2.510	0.370	.5	.1				
Sn	4+	Te	2-	2.668	0.371								
Sr	2+	As	3-	2.761	0.373	2.760	0.370	.0	.8				
Sr	2+	Br	1-	2.632	0.373	2.680	0.370	-1.8	.8				
Sr	2+	Cl	1-	2.510	0.371	2.510	0.370	-.0	.2				
Sr	2+	F	1-	2.015	0.371	2.019	0.370	-.2	.2				
Sr	2+	Ge	4-	2.819	0.368								
Sr	2+	H	1-	1.512	0.372	2.010	0.370	-24.8	.6				
Sr	2+	I	1-	2.891	0.376	2.880	0.370	.4	1.5				
Sr	2+	N	3-	2.317	0.367	2.230	0.370	3.9	-.7				
Sr	2+	O	2-	2.108	0.368	2.118	0.370	-.5	-.4	1.958	0.479	7.6	-23.1
Sr	2+	P	3-	2.699	0.370	2.670	0.370	1.1	.1				
Sr	2+	S	2-	2.610	0.370	2.650	0.370	-1.5	.0				
Sr	2+	S	2-	2.610	0.370	2.590	0.370	.8	.0				
Sr	2+	Sb	3-	2.602	0.372								
Sr	2+	Se	2-	2.728	0.369	2.720	0.370	.3	-.3				

Sr	2+	Si	4-	2.884	0.368														
Sr	2+	Te	2-	2.919	0.369	2.060	0.370	41.7	-.2										
Sr	2+	Te	2-	2.919	0.369	2.870	0.370	1.7	-.2										
Ta	2+	S	2-	2.060	0.374														
Ta	2+	Te	2-	2.477	0.369														
Ta	3+	F	1-	1.673	0.370														
Ta	3+	N	3-	1.905	0.372														
Ta	3+	S	2-	2.219	0.370														
Ta	3+	Se	2-	2.333	0.368														
Ta	4+	O	2-	1.890	0.371	2.290	0.370	-17.4	.3										
Ta	4+	S	2-	2.311	0.368														
Ta	4+	Se	2-	2.412	0.372														
Ta	4+	Te	2-	2.667	0.369														
Ta	5+	Cl	1-	2.276	0.368	2.300	0.370	-1.0	-.4										
Ta	5+	F	1-	1.789	0.374	1.880	0.370	-4.9	1.0										
Ta	5+	N	3-	1.993	0.375														
Ta	5+	O	2-	1.918	0.370	1.920	0.370	-.1	-.1	1.916	0.343	.1	7.7						
Ta	5+	S	2-	2.383	0.369	2.470	0.370	-3.5	-.3										
Ta	5+	Se	2-	2.516	0.363														
Ta	5+	Te	2-	2.724	0.372														
Tb	3+	Cl	1-	2.425	0.370	2.427	0.370	-.1	.1										
Tb	3+	Cl	1-	2.425	0.370	2.390	0.400	1.5	-7.4										
Tb	3+	Cl	1-	2.425	0.370	2.437	0.370	-.5	.1										
Tb	3+	F	1-	1.935	0.371	1.900	0.400	1.8	-7.3										
Tb	3+	F	1-	1.935	0.371	1.936	0.370	-.1	.2										
Tb	3+	O	2-	2.029	0.369	2.049	0.370	-1.0	-.2	2.020	0.379	.4	-2.5						
Tb	3+	O	2-	2.029	0.369	2.013	0.370	.8	-.2	2.020	0.379	.4	-2.5						
Tb	3+	O	2-	2.029	0.369	2.032	0.370	-.2	-.2	2.020	0.379	.4	-2.5						
Tb	3+	S	2-	2.506	0.371	2.510	0.370	-.2	.3										
Tb	3+	S	2-	2.506	0.371	2.498	0.370	.3	.3										
Tb	3+	Se	2-	2.612	0.369	2.630	0.370	-.7	-.4										
Tb	3+	Te	2-	2.833	0.373	2.820	0.370	.5	.7										
Tb	4+	F	1-	1.881	0.377														
Tb	4+	O	2-	2.005	0.370					2.018	0.395	-.6	-6.4						
Tb	4+	S	2-	2.559	0.370														
Tc	4+	O	2-	1.840	0.369	1.841	0.370	-.0	-.2										
Tc	7+	O	2-	1.922	0.370	1.909	0.370	.7	-.1	1.915	0.375	.3	-1.4						
Te	4+	Br	1-	2.506	0.373	2.550	0.370	-1.7	.8										
Te	4+	Cl	1-	2.357	0.369	2.312	0.560	2.0	-34.2										
Te	4+	Cl	1-	2.357	0.369	2.370	0.370	-.5	-.4										
Te	4+	F	1-	1.871	0.372	1.870	0.370	.0	.5										
Te	4+	I	1-	2.777	0.371	2.787	0.370	-.3	.3										
Te	4+	O	2-	1.991	0.369	1.977	0.370	.7	-.2	1.960	0.389	1.6	-5.0						
Te	4+	O	2-	1.991	0.369	1.955	0.440	1.8	-16.0	1.960	0.389	1.6	-5.0						
Te	4+	O	2-	1.991	0.369	1.960	0.410	1.6	-9.9	1.960	0.389	1.6	-5.0						
Te	4+	S	2-	2.450	0.368	2.440	0.370	.4	-.5										
Te	4+	Se	2-	2.588	0.366														
Te	5+	O	2-	1.908	0.375														
Te	6+	O	2-	1.931	0.371	1.917	0.370	.7	.4	1.922	0.387	.5	-4.0						
Te	6+	O	2-	1.931	0.371	1.921	0.560	.5	-33.7	1.922	0.387	.5	-4.0						
Th	2+	H	1-	1.864	0.369														
Th	4+	Cl	1-	2.569	0.378	2.520	0.400	1.9	-5.6										
Th	4+	Cl	1-	2.569	0.378	2.550	0.370	.7	2.1										

Th	4+	F	1-	2.074	0.370	2.050	0.400	1.2	-7.6				
Th	4+	F	1-	2.074	0.370	2.068	0.370	.3	-.1				
Th	4+	I	1-	2.921	0.375	2.920	0.400	.0	-6.2				
Th	4+	I	1-	2.921	0.375	2.930	0.370	-.3	1.4				
Th	4+	I	1-	2.921	0.375	2.960	0.370	-1.3	1.4				
Th	4+	N	3-	2.355	0.369	2.340	0.370	.6	-.2				
Th	4+	O	2-	2.159	0.369	2.167	0.370	-.3	-.2	2.117	0.420	2.0	-12.1
Th	4+	O	2-	2.159	0.369	2.180	0.350	-.9	5.5	2.117	0.420	2.0	-12.1
Th	4+	S	2-	2.608	0.369	2.640	0.370	-1.2	-.3				
Ti	2+	Br	1-	2.263	0.367	2.490	0.370	-9.1	-.8				
Ti	2+	Cl	1-	2.102	0.369	2.310	0.370	-9.0	-.4				
Ti	2+	I	1-	2.420	0.377								
Ti	2+	S	2-	2.080	0.370								
Ti	2+	Se	2-	2.136	0.358								
Ti	2+	Te	2-	2.338	0.372								
Ti	3+	Cl	1-	2.178	0.375	2.220	0.370	-1.9	1.5				
Ti	3+	Cl	1-	2.178	0.375	2.170	0.370	.4	1.5				
Ti	3+	F	1-	1.691	0.366	1.723	0.370	-1.9	-1.2				
Ti	3+	O	2-	1.774	0.369	1.791	0.370	-1.0	-.4	1.654	0.545	7.2	-32.4
Ti	3+	P	3-	2.236	0.369								
Ti	3+	S	2-	2.168	0.370	2.110	0.370	2.8	-.1				
Ti	3+	Se	2-	2.288	0.371								
Ti	4+	Cl	1-	2.186	0.375	2.190	0.370	-.2	1.2				
Ti	4+	F	1-	1.708	0.370	1.760	0.370	-3.0	-.0				
Ti	4+	O	2-	1.808	0.370	1.815	0.370	-.4	-.1	1.819	0.342	-.6	8.1
Ti	4+	O	2-	1.808	0.370	1.780	0.430	1.6	-14.0	1.819	0.342	-.6	8.1
Ti	4+	S	2-	2.276	0.369	2.290	0.370	-.6	-.3				
Ti	4+	Se	2-	2.400	0.372								
Tl	1+	Br	1-	2.682	0.368	2.690	0.370	-.3	-.4				
Tl	1+	Cl	1-	2.556	0.370	2.560	0.370	-.1	.1				
Tl	1+	Cl	1-	2.556	0.370	2.610	0.370	-2.1	.1				
Tl	1+	F	1-	2.109	0.369	2.150	0.370	-1.9	-.4				
Tl	1+	I	1-	2.839	0.373	2.822	0.370	.6	.8				
Tl	1+	N	3-	2.334	0.371								
Tl	1+	O	2-	2.161	0.369	1.927	0.500	12.1	-26.1	2.063	0.422	4.8	-12.5
Tl	1+	O	2-	2.161	0.369	2.124	0.370	1.7	-.2	2.063	0.422	4.8	-12.5
Tl	1+	O	2-	2.161	0.369	2.172	0.370	-.5	-.2	2.063	0.422	4.8	-12.5
Tl	1+	S	2-	2.519	0.369	2.545	0.370	-1.0	-.2				
Tl	1+	Se	2-	2.598	0.369								
Tl	1+	Te	2-	2.779	0.368								
Tl	3+	F	1-	1.741	0.384	1.880	0.370	-7.4	3.7				
Tl	3+	O	2-	2.025	0.371	2.003	0.370	1.1	.2	1.874	0.504	8.1	-26.5
Tl	3+	S	2-	2.439	0.371								
Tl	3+	Te	2-	3.052	0.403								
Tm	2+	As	3-	2.508	0.369								
Tm	2+	Cl	1-	2.333	0.380								
Tm	2+	I	1-	2.741	0.369								
Tm	3+	C	4-	2.145	0.375								
Tm	3+	F	1-	1.897	0.370	1.860	0.400	2.0	-7.6				
Tm	3+	F	1-	1.897	0.370	1.842	0.370	3.0	-.1				
Tm	3+	F	1-	1.897	0.370	1.910	0.370	-.7	-.1				
Tm	3+	O	2-	1.986	0.370	1.968	0.370	.9	-.0	1.977	0.381	.5	-2.9
Tm	3+	O	2-	1.986	0.370	1.930	0.370	2.9	-.0	1.977	0.381	.5	-2.9

Tm	3+	O	2-	1.986	0.370	2.000	0.370	-7	-0	1.977	0.381	.5	-2.9
Tm	3+	S	2-	2.448	0.371	2.450	0.370	-1	.3				
Tm	3+	Se	2-	2.572	0.370	2.580	0.370	-3	.1				
Tm	3+	Te	2-	2.784	0.373	2.770	0.370	.5	.8				
U	3+	C	4-	2.104	0.372								
U	3+	H	1-	1.807	0.366								
U	3+	N	2-	2.038	0.368								
U	3+	S	2-	2.509	0.368	2.540	0.370	-1.2	-.5				
U	3+	Se	2-	2.575	0.381								
U	3+	Te	2-	2.767	0.375								
U	4+	As	3-	2.716	0.368								
U	4+	Cl	1-	2.546	0.365	2.470	0.400	3.1	-8.7				
U	4+	F	1-	2.030	0.368	2.034	0.370	-.2	-.4				
U	4+	F	1-	2.030	0.368	2.038	0.370	-.4	-.4				
U	4+	F	1-	2.030	0.368	2.000	0.400	1.5	-7.9				
U	4+	Ge	4-	2.828	0.374								
U	4+	I	1-	2.909	0.385	2.880	0.370	1.0	4.2				
U	4+	O	2-	2.080	0.370	2.130	0.350	-2.3	5.7	2.100	0.373	-.9	-.9
U	4+	O	2-	2.080	0.370	2.112	0.370	-1.5	-.1	2.100	0.373	-.9	-.9
U	4+	S	2-	2.556	0.368	2.550	0.370	.2	-.4				
U	4+	Sb	3-	2.902	0.372								
U	4+	Se	2-	2.668	0.370								
U	5+	F	1-	2.000	0.369	1.966	0.370	1.7	-.2				
U	5+	F	1-	2.000	0.369	1.990	0.400	.5	-7.7				
U	5+	O	2-	2.081	0.370	2.100	0.350	-.9	5.9	2.009	0.660	3.6	-43.9
U	5+	O	2-	2.081	0.370	2.075	0.370	.3	.1	2.009	0.660	3.6	-43.9
U	6+	O	2-	2.042	0.371	2.080	0.350	-1.8	6.1	2.046	0.473	-.2	-21.5
U	6+	O	2-	2.042	0.371	2.051	0.519	-.5	-28.5	2.046	0.473	-.2	-21.5
U	6+	O	2-	2.042	0.371	2.075	0.370	-1.6	.3	2.046	0.473	-.2	-21.5
V	2+	Cl	1-	2.096	0.370	2.440	0.370	-14.1	.1				
V	2+	F	1-	1.661	0.367	2.160	0.370	-23.1	-.9				
V	2+	O	2-	1.700	0.362	1.700	0.370	.0	-2.2				
V	2+	S	2-	2.060	0.370	2.110	0.370	-2.4	.1				
V	2+	Se	2-	2.169	0.369								
V	2+	Te	2-	2.309	0.370								
V	3+	F	1-	1.668	0.366	1.702	0.370	-2.0	-1.0				
V	3+	N	3-	1.849	0.375	1.840	0.350	.5	7.0				
V	3+	N	3-	1.849	0.375	1.813	0.370	2.0	1.2				
V	3+	O	2-	1.749	0.369	1.743	0.370	.4	-.3	1.718	0.412	1.8	-10.5
V	3+	O	2-	1.749	0.369	1.749	0.370	.0	-.3	1.718	0.412	1.8	-10.5
V	3+	P	3-	2.147	0.374								
V	3+	S	2-	2.143	0.371	2.170	0.370	-1.3	.4				
V	3+	S	2-	2.143	0.371	2.185	0.370	-1.9	.4				
V	3+	Se	2-	2.261	0.370								
V	4+	O	2-	1.785	0.370	1.780	0.370	.3	-.1	1.776	0.364	.5	1.6
V	4+	O	2-	1.785	0.370	1.735	0.370	2.9	-.1	1.776	0.364	.5	1.6
V	4+	O	2-	1.785	0.370	1.784	0.370	.1	-.1	1.776	0.364	.5	1.6
V	4+	S	2-	2.192	0.371	2.240	0.370	-2.2	.4				
V	4+	S	2-	2.192	0.371	2.226	0.370	-1.5	.4				
V	4+	S	2-	2.192	0.371	2.181	0.370	.5	.4				
V	4+	Se	2-	2.365	0.372								
V	5+	N	3-	1.916	0.371								
V	5+	Se	2-	2.444	0.369								

W	2+	Br	1-	2.278	0.369													
W	2+	C	4-	1.845	0.367													
W	2+	Cl	1-	2.153	0.373													
W	3+	Cl	1-	2.200	0.369													
W	3+	N	3-	1.873	0.364													
W	3+	P	3-	2.201	0.374													
W	4+	N	2-	1.899	0.372													
W	4+	N	3-	2.007	0.372													
W	4+	O	2-	1.821	0.370	1.851	0.370	-1.6	.0									
W	4+	S	2-	2.282	0.375													
W	4+	Se	2-	2.386	0.369													
W	4+	Te	2-	2.601	0.369													
W	5+	Br	1-	2.424	0.370													
W	5+	C	4-	2.170	0.370													
W	5+	Cl	1-	2.253	0.370													
W	5+	O	2-	1.862	0.370	1.881	0.370	-1.0	.1	1.848	0.553	.8	-33.0					
W	6+	N	3-	2.029	0.369													
W	6+	O	2-	1.924	0.370	1.917	0.370	.3	.1	1.909	0.339	.8	9.3					
W	6+	O	2-	1.924	0.370	1.916	0.410	.4	-9.6	1.909	0.339	.8	9.3					
W	6+	O	2-	1.924	0.370	1.921	0.370	.1	.1	1.909	0.339	.8	9.3					
W	6+	O	2-	1.924	0.370	1.906	0.370	.9	.1	1.909	0.339	.8	9.3					
W	6+	P	3-	2.437	0.305													
W	6+	S	2-	2.332	0.368													
Xe	4+	F	1-	1.955	0.370	1.930	0.370	1.3	-.1									
Xe	6+	F	1-	1.886	0.369	1.890	0.370	-.2	-.3									
Xe	8+	O	2-	1.965	0.370	1.940	0.370	1.3	.1									
Y	3+	C	4-	2.175	0.374													
Y	3+	Cl	1-	2.382	0.373	2.400	0.370	-.7	.9									
Y	3+	F	1-	1.878	0.371	1.904	0.370	-1.3	.2									
Y	3+	F	1-	1.878	0.371	1.870	0.370	.4	.2									
Y	3+	H	1-	1.799	0.370	1.860	0.370	-3.3	.1									
Y	3+	N	3-	2.141	0.370	2.170	0.370	-1.3	-.1									
Y	3+	O	2-	2.005	0.371	2.028	0.350	-1.1	5.9									
Y	3+	O	2-	2.005	0.371	2.019	0.370	-.7	.2									
Y	3+	O	2-	2.005	0.371	2.014	0.370	-.4	.2									
Y	3+	S	2-	2.477	0.370	2.480	0.370	-.1	-.1									
Y	3+	Se	2-	2.597	0.369	2.610	0.370	-.5	-.3									
Y	3+	Te	2-	2.801	0.370	2.800	0.370	.0	-.0									
Yb	2+	As	3-	2.592	0.369													
Yb	2+	Br	1-	2.489	0.370													
Yb	2+	Cl	1-	2.372	0.366													
Yb	2+	F	1-	1.919	0.366													
Yb	2+	S	2-	2.460	0.371													
Yb	2+	Sb	3-	2.844	0.367													
Yb	2+	Se	2-	2.544	0.369													
Yb	3+	F	1-	1.879	0.369	1.875	0.370	.2	-.2									
Yb	3+	F	1-	1.879	0.369	1.850	0.400	1.6	-7.7									
Yb	3+	F	1-	1.879	0.369	1.900	0.370	-1.1	-.2									
Yb	3+	N	3-	2.058	0.372	2.064	0.370	-.3	.4									
Yb	3+	N	3-	2.058	0.372	2.120	0.370	-2.9	.4									
Yb	3+	O	2-	1.973	0.370	1.985	0.370	-.6	-.1	1.969	0.373	.2	-.9					
Yb	3+	O	2-	1.973	0.370	1.954	0.370	1.0	-.1	1.969	0.373	.2	-.9					
Yb	3+	O	2-	1.973	0.370	1.965	0.370	.4	-.1	1.969	0.373	.2	-.9					

Yb 3+	S 2-	2.388	0.416	2.430	0.370	-1.7	12.4				
Yb 3+	Se 2-	2.567	0.370	2.560	0.370	.3	.1				
Zn 2+	As 3-	2.282	0.370	2.240	0.370	1.9	-1				
Zn 2+	Br 1-	2.151	0.368	2.150	0.370	.1	-.5				
Zn 2+	Cl 1-	2.020	0.369	2.010	0.370	.5	-.3				
Zn 2+	F 1-	1.622	0.370	1.620	0.370	.1	-.1				
Zn 2+	F 1-	1.622	0.370	1.670	0.370	-2.9	-.1				
Zn 2+	I 1-	2.365	0.371	2.360	0.370	.2	.3				
Zn 2+	O 2-	1.706	0.369	1.704	0.370	.1	-.2	1.684	0.383	1.3	-3.6
Zn 2+	O 2-	1.706	0.369	1.675	0.390	1.9	-5.3	1.684	0.383	1.3	-3.6
Zn 2+	P 3-	2.200	0.370	2.150	0.370	2.3	-.1				
Zn 2+	S 2-	2.093	0.370	2.090	0.370	.1	.1				
Zn 2+	Sb 3-	2.470	0.370								
Zn 2+	Se 2-	2.197	0.372	2.220	0.370	-1.0	.5				
Zn 2+	Si 4-	2.309	0.371								
Zn 2+	Te 2-	2.344	0.371	2.450	0.370	-4.3	.4				
Zr 2+	As 3-	2.409	0.371								
Zr 2+	Cl 1-	2.233	0.361	2.580	0.370	-13.5	-2.5				
Zr 2+	H 1-	1.543	0.361								
Zr 2+	Te 2-	2.430	0.380								
Zr 3+	Br 1-	2.412	0.368								
Zr 3+	N 3-	1.916	0.373								
Zr 4+	C 4-	2.195	0.370								
Zr 4+	Cl 1-	2.326	0.374	2.330	0.370	-.2	1.0				
Zr 4+	F 1-	1.849	0.370	1.846	0.370	.2	-.1				
Zr 4+	F 1-	1.849	0.370	1.854	0.370	-.3	-.1				
Zr 4+	N 3-	2.094	0.369	2.110	0.370	-.8	-.2				
Zr 4+	N 3-	2.094	0.369	2.150	0.370	-2.6	-.2				
Zr 4+	O 2-	1.928	0.371	1.928	0.370	-.0	.2	1.913	0.406	.8	-8.7
Zr 4+	O 2-	1.928	0.371	1.937	0.370	-.5	.2	1.913	0.406	.8	-8.7
Zr 4+	S 2-	2.409	0.370	2.410	0.370	-.0	-.1				
Zr 4+	Se 2-	2.523	0.370	2.530	0.370	-.3	-.1				
Zr 4+	Te 2-	2.687	0.371	2.670	0.370	.6	.2				