

rand	HPO42-	HC03	H+	LI(6)	LI (7)	OH 27	H30 19	Mg 24	Ca (40)
504.288	60.97698	74.6021	1.222649	7.335891	8.5585	20.785	23.23032	14.67178	14.1994
601.388	72.71802	88.96664	1.458068	8.748408	10.206	24.787	27.70329	17.49682	16.9335
758.079	91.66462	112.1468	1.837966	11.0278	12.866	31.245	34.92135	22.05559	21.3455
801.055	96.86114	118.5045	1.942161	11.65297	13.595	33.017	36.90107	23.30594	22.5556
1579.861	191.032	233.7175	3.83038	22.98228	26.813	65.116	72.77722	45.96456	44.4847
1686.129	203.8816	249.4383	4.088027	24.52816	28.616	69.496	77.67252	49.05633	47.4769
1732.231	209.4561	256.2585	4.199802	25.19881	29.399	71.397	79.79624	50.39762	48.775
1777.676	214.9512	262.9814	4.309983	25.8599	30.17	73.27	81.88969	51.7198	50.0546
1816.165	219.6052	268.6753	4.4033	26.4198	30.823	74.856	83.6627	52.8396	51.1384
1999.19	241.736	295.7512	4.847045	29.08227	33.929	82.4	92.09386	58.16454	56.2919
2060.824	249.1886	304.869	4.996477	29.97886	34.975	84.94	94.93306	59.95772	58.0273
2117.172	256.002	313.2049	5.133093	30.79856	35.932	87.263	97.52877	61.59712	59.6139
2118.13	256.1179	313.3466	5.135416	30.81249	35.948	87.302	97.5729	61.62499	59.6409
2126.078	257.0789	314.5224	5.154686	30.92811	36.083	87.63	97.93903	61.85623	59.8647
2172.715	262.7181	321.4217	5.267757	31.60654	36.874	89.552	100.0874	63.21309	61.1779
2177.378	263.282	322.1115	5.279063	31.67438	36.953	89.744	100.3022	63.34875	61.3092
2182.699	263.9254	322.8987	5.291964	31.75178	37.044	89.963	100.5473	63.50356	61.459
2230.497	269.7049	329.9697	5.40785	32.4471	37.855	91.933	102.7492	64.8942	62.8048
2270.095	274.493	335.8277	5.503856	33.02313	38.527	93.566	104.5733	66.04627	63.9198
2291.76	277.1127	339.0327	5.556382	33.33829	38.895	94.459	105.5713	66.67659	64.5298
2409.804	291.3862	356.4956	5.842581	35.05548	40.898	99.324	111.009	70.11097	67.8536
2443.455	295.4552	361.4738	5.924168	35.54501	41.469	100.71	112.5592	71.09001	68.8012
2573.901	311.2283	380.7713	6.240435	37.44261	43.683	106.09	118.5683	74.88521	72.4742
2586.187	312.7139	382.5889	6.270222	37.62133	43.892	106.59	119.1342	75.24266	72.8201
2588.825	313.0329	382.9791	6.276618	37.65971	43.936	106.7	119.2557	75.31941	72.8944
2661.239	321.789	393.6917	6.452186	38.71312	45.165	109.69	122.5915	77.42623	74.9334
2667.744	322.5755	394.6541	6.467957	38.80774	45.276	109.96	122.8912	77.61549	75.1166
2673.24	323.2401	395.4671	6.481282	38.88769	45.369	110.18	123.1444	77.77539	75.2713
2674.203	323.3565	395.6096	6.483617	38.9017	45.385	110.22	123.1887	77.80341	75.2984
2718.46	328.7079	402.1568	6.590919	39.54551	46.136	112.05	125.2275	79.09102	76.5446
2726.164	329.6395	403.2965	6.609597	39.65758	46.267	112.36	125.5823	79.31516	76.7615
2771.084	335.0711	409.9417	6.718506	40.31103	47.03	114.21	127.6516	80.62207	78.0263
2774.56	335.4914	410.4559	6.726933	40.3616	47.089	114.36	127.8117	80.7232	78.1242
2777.798	335.8829	410.935	6.734784	40.4087	47.143	114.49	127.9609	80.81741	78.2154
2814.508	340.3218	416.3657	6.823787	40.94272	47.767	116	129.652	81.88545	79.249
2940.689	355.5792	435.0323	7.129714	42.77828	49.908	121.21	135.4646	85.55656	82.802
2942.388	355.7846	435.2837	7.133833	42.803	49.937	121.28	135.5428	85.606	82.8498
3018.394	364.9751	446.5276	7.31811	43.90866	51.227	124.41	139.0441	87.81732	84.9899
3018.632	365.0038	446.5629	7.318687	43.91212	51.231	124.42	139.0551	87.82424	84.9966
3145.88	380.3903	465.3874	7.6272	45.7632	53.39	129.66	144.9168	91.5264	88.5796
3154.706	381.4575	466.693	7.648599	45.89159	53.54	130.03	145.3234	91.78319	88.8281
3174.855	383.8938	469.6738	7.69745	46.1847	53.882	130.86	146.2516	92.3694	89.3954
3177.169	384.1737	470.0161	7.703061	46.21836	53.921	130.95	146.3582	92.43673	89.4606
3178.166	384.2942	470.1636	7.705478	46.23287	53.938	130.99	146.4041	92.46573	89.4887
3191.69	385.9295	472.1643	7.738267	46.4296	54.168	131.55	147.0271	92.8592	89.8695
3214.895	388.7354	475.5971	7.794527	46.76716	54.562	132.51	148.096	93.53433	90.5229

3218.57	389.1797	476.1408	7.803437	46.82062	54.624	132.66	148.2653	93.64125	90.6263
3302.561	399.3357	488.566	8.007074	48.04244	56.05	136.12	152.1344	96.08489	92.9913
3346.213	404.6139	495.0237	8.112909	48.67745	56.79	137.92	154.1453	97.3549	94.2204
3386.881	409.5314	501.04	8.211508	49.26905	57.481	139.6	156.0187	98.5381	95.3655
3395.087	410.5236	502.2539	8.231404	49.38842	57.62	139.93	156.3967	98.77684	95.5966
3439.955	415.9489	508.8915	8.340186	50.04112	58.381	141.78	158.4635	100.0822	96.86
3477.036	420.4327	514.3771	8.430089	50.58054	59.011	143.31	160.1717	101.1611	97.9041
3477.464	420.4844	514.4404	8.431127	50.58676	59.018	143.33	160.1914	101.1735	97.9161
3526.946	426.4676	521.7605	8.551096	51.30658	59.858	145.37	162.4708	102.6132	99.3094
3534.597	427.3928	522.8924	8.569646	51.41788	59.988	145.68	162.8233	102.8358	99.5248
3612.538	436.8172	534.4226	8.758615	52.55169	61.31	148.9	166.4137	105.1034	101.719
3671.955	444.0017	543.2125	8.902671	53.41603	62.319	151.35	169.1508	106.8321	103.392
3800.538	459.5495	562.2345	9.214422	55.28653	64.501	156.65	175.074	110.5731	107.013
3803.02	459.8497	562.6017	9.220439	55.32263	64.543	156.75	175.1883	110.6453	107.083
3814.561	461.2452	564.309	9.24842	55.49052	64.739	157.22	175.72	110.981	107.408
3881.652	469.3576	574.2342	9.411083	56.4665	65.878	159.99	178.8106	112.933	109.297
3883.206	469.5455	574.464	9.41485	56.4891	65.904	160.05	178.8822	112.9782	109.341
3884.425	469.6929	574.6444	9.417806	56.50684	65.925	160.1	178.9383	113.0137	109.375
3900.955	471.6917	577.0898	9.457883	56.7473	66.205	160.78	179.6998	113.4946	109.84
4024.069	486.5782	595.3027	9.756373	58.53824	68.295	165.86	185.3711	117.0765	113.307
4035.5	487.9604	596.9937	9.784088	58.70453	68.489	166.33	185.8977	117.4091	113.629
4036.464	488.077	597.1363	9.786425	58.71855	68.505	166.37	185.9421	117.4371	113.656
4037.745	488.2319	597.3259	9.789531	58.73719	68.527	166.42	186.0011	117.4744	113.692
4166.946	503.8545	616.4393	10.10278	60.61668	70.719	171.75	191.9528	121.2334	117.33
4577.652	553.5158	677.1973	11.09854	66.59123	77.69	188.68	210.8722	133.1825	128.894
4611.675	557.6298	682.2305	11.18103	67.08616	78.267	190.08	212.4395	134.1723	129.852
4619.808	558.6132	683.4336	11.20075	67.20447	78.405	190.41	212.8142	134.4089	130.081
4645.103	561.6718	687.1757	11.26207	67.57244	78.835	191.46	213.9794	135.1449	130.794
4662.242	563.7442	689.7111	11.30363	67.82176	79.125	192.16	214.7689	135.6435	131.276
4681.953	566.1276	692.6271	11.35142	68.1085	79.46	192.97	215.6769	136.217	131.831
4718.225	570.5135	697.993	11.43936	68.63615	80.076	194.47	217.3478	137.2723	132.853
4722.427	571.0216	698.6146	11.44955	68.69727	80.147	194.64	217.5414	137.3945	132.971
4743.75	573.5999	701.7691	11.50124	69.00746	80.509	195.52	218.5236	138.0149	133.571
4744.241	573.6592	701.8417	11.50243	69.0146	80.517	195.54	218.5462	138.0292	133.585
4806.447	581.181	711.0442	11.65325	69.91951	81.573	198.11	221.4118	139.839	135.337
4918.306	594.7067	727.5921	11.92446	71.54673	83.471	202.72	226.5646	143.0935	138.486
4932.277	596.396	729.6589	11.95833	71.74997	83.708	203.29	227.2082	143.4999	138.88
4935.022	596.7279	730.065	11.96498	71.7899	83.755	203.4	227.3347	143.5798	138.957
5013.21	606.1822	741.6318	12.15455	72.9273	85.082	206.63	230.9365	145.8546	141.159
5092.935	615.8223	753.4259	12.34784	74.08706	86.435	209.91	234.609	148.1741	143.403
5205.432	629.4251	770.0682	12.62059	75.72356	88.344	214.55	239.7913	151.4471	146.571
5294.062	640.1419	783.1797	12.83548	77.01286	89.848	218.2	243.8741	154.0257	149.067
5333.86	644.9542	789.0673	12.93197	77.59181	90.524	219.84	245.7074	155.1836	150.187
5562.3	672.5765	822.8617	13.48582	80.91493	94.401	229.26	256.2306	161.8299	156.62
5594.909	676.5194	827.6857	13.56488	81.38929	94.954	230.6	257.7328	162.7786	157.538
5636.492	681.5475	833.8373	13.6657	81.9942	95.66	232.32	259.6483	163.9884	158.709
5646.433	682.7496	835.3079	13.6898	82.13881	95.829	232.73	260.1062	164.2776	158.988

5696.275	688.7763	842.6813	13.81064	82.86387	96.675	234.78	262.4022	165.7277	160.392
5725.188	692.2724	846.9586	13.88074	83.28446	97.165	235.97	263.7341	166.5689	161.206
5728.435	692.665	847.4389	13.88862	83.3317	97.22	236.11	263.8837	166.6634	161.297
5771.856	697.9153	853.8624	13.99389	83.96335	97.957	237.9	265.8839	167.9267	162.52
5797.917	701.0666	857.7178	14.05708	84.34246	98.4	238.97	267.0844	168.6849	163.254
5874.546	710.3323	869.0539	14.24286	85.45718	99.7	242.13	270.6144	170.9144	165.412
6059.997	732.7565	896.4887	14.69249	88.15494	102.85	249.77	279.1573	176.3099	170.633
6072.239	734.2367	898.2998	14.72217	88.33302	103.06	250.28	279.7212	176.666	170.978
6101.533	737.7789	902.6334	14.79319	88.75917	103.55	251.48	281.0707	177.5183	171.803
6127.257	740.8894	906.4389	14.85556	89.13337	103.99	252.54	282.2557	178.2667	172.527
6170.599	746.1301	912.8507	14.96065	89.76387	104.72	254.33	284.2523	179.5277	173.748
6189.464	748.4112	915.6415	15.00638	90.0383	105.04	255.11	285.1213	180.0766	174.279
6317.311	763.8701	934.5546	15.31635	91.89809	107.21	260.38	291.0106	183.7962	177.879
6338.888	766.4791	937.7466	15.36866	92.21198	107.58	261.27	292.0046	184.424	178.486
6417.29	775.9593	949.345	15.55875	93.35249	108.91	264.5	295.6162	186.705	180.694
6429.727	777.4631	951.1849	15.5889	93.53341	109.12	265.01	296.1891	187.0668	181.044
6470.521	782.3958	957.2198	15.68781	94.12684	109.81	266.69	298.0683	188.2537	182.193
6489.2	784.6544	959.9831	15.73309	94.39857	110.13	267.46	298.9288	188.7971	182.719
6519.163	788.2774	964.4157	15.80574	94.83444	110.64	268.7	300.3091	189.6689	183.562
6562.089	793.4679	970.766	15.90981	95.45889	111.37	270.47	302.2865	190.9178	184.771
6641.042	803.0147	982.4459	16.10124	96.60742	112.71	273.72	305.9235	193.2148	186.994
6794.29	821.545	1005.117	16.47279	98.83672	115.31	280.04	312.9829	197.6734	191.309
6798.367	822.0379	1005.72	16.48267	98.89603	115.38	280.21	313.1708	197.7921	191.424
6885.025	832.5164	1018.54	16.69277	100.1566	116.85	283.78	317.1627	200.3133	193.864
6923.269	837.1407	1024.197	16.7855	100.713	117.5	285.35	318.9244	201.426	194.941
6962.114	841.8377	1029.944	16.87968	101.2781	118.16	286.95	320.7139	202.5561	196.035
6997.453	846.1108	1035.172	16.96536	101.7921	118.76	288.41	322.3418	203.5843	197.03
7001.42	846.5905	1035.759	16.97497	101.8498	118.82	288.57	322.5245	203.6997	197.141
7075.988	855.607	1046.79	17.15576	102.9346	120.09	291.65	325.9595	205.8692	199.241
7107.292	859.3922	1051.421	17.23166	103.39	120.62	292.94	327.4016	206.7799	200.122
7181.377	868.3504	1062.381	17.41128	104.4677	121.88	295.99	330.8143	208.9354	202.208
7250.347	876.69	1072.584	17.5785	105.471	123.05	298.83	333.9915	210.942	204.15
7264.92	878.4521	1074.74	17.61383	105.683	123.3	299.44	334.6628	211.366	204.561
7327.056	885.9654	1083.932	17.76448	106.5869	124.35	302	337.5251	213.1738	206.31
7406.664	895.5914	1095.709	17.95749	107.7449	125.7	305.28	341.1923	215.4899	208.552
7434.055	898.9034	1099.761	18.0239	108.1434	126.17	306.41	342.4541	216.2868	209.323
7457.43	901.7298	1103.219	18.08057	108.4834	126.56	307.37	343.5309	216.9669	209.981
7502.744	907.2091	1109.922	18.19044	109.1426	127.33	309.24	345.6183	218.2852	211.257
7588.962	917.6343	1122.677	18.39947	110.3968	128.8	312.79	349.59	220.7937	213.685
7606.907	919.8041	1125.332	18.44298	110.6579	129.1	313.53	350.4166	221.3158	214.19
7614.849	920.7645	1126.507	18.46224	110.7734	129.24	313.86	350.7825	221.5468	214.414
7642.973	924.1651	1130.667	18.53042	111.1825	129.71	315.02	352.078	222.3651	215.206
7721.158	933.619	1142.233	18.71998	112.3199	131.04	318.24	355.6797	224.6398	217.407
7747.529	936.8077	1146.135	18.78392	112.7035	131.49	319.33	356.8945	225.407	218.15
7972.361	963.9937	1179.395	19.32903	115.9742	135.3	328.59	367.2515	231.9483	224.48
8045.29	972.8121	1190.184	19.50584	117.0351	136.54	331.6	370.611	234.0701	226.534
8262.012	999.0175	1222.245	20.03129	120.1877	140.22	340.53	380.5944	240.3754	232.636

8282.156	1001.453	1225.225	20.08012	120.4807	140.56	341.36	381.5224	240.9615	233.203
8304.133	1004.111	1228.476	20.13341	120.8004	140.93	342.27	382.5347	241.6009	233.822
8399.157	1015.601	1242.534	20.36379	122.1828	142.55	346.18	386.9121	244.3655	236.498
8415.03	1017.52	1244.882	20.40228	122.4137	142.82	346.84	387.6433	244.8273	236.945
8443.098	1020.914	1249.034	20.47033	122.822	143.29	348	388.9363	245.6439	237.735
8612.154	1041.356	1274.043	20.88021	125.2812	146.16	354.96	396.7239	250.5625	242.495
8648.429	1045.742	1279.41	20.96816	125.8089	146.78	356.46	398.3949	251.6179	243.517
8728.965	1055.48	1291.324	21.16341	126.9805	148.14	359.78	402.1049	253.961	245.784
8742.131	1057.072	1293.272	21.19534	127.172	148.37	360.32	402.7114	254.344	246.155
8791.497	1063.041	1300.575	21.31502	127.8901	149.21	362.36	404.9855	255.7803	247.545
8817.564	1066.193	1304.431	21.37822	128.2693	149.65	363.43	406.1862	256.5387	248.279
8831.172	1067.839	1306.444	21.41122	128.4673	149.88	363.99	406.8131	256.9346	248.662
8837.559	1068.611	1307.389	21.4267	128.5602	149.99	364.25	407.1073	257.1204	248.842
8879.347	1073.664	1313.571	21.52802	129.1681	150.7	365.98	409.0323	258.3362	250.019
8955.291	1082.847	1324.806	21.71214	130.2729	151.99	369.11	412.5307	260.5457	252.157
9170.021	1108.811	1356.572	22.23276	133.3965	155.63	377.96	422.4224	266.7931	258.203
9234.272	1116.58	1366.077	22.38853	134.3312	156.72	380.61	425.3821	268.6624	260.012
9285.749	1122.805	1373.692	22.51334	135.08	157.59	382.73	427.7535	270.1601	261.462
9297.33	1124.205	1375.405	22.54142	135.2485	157.79	383.2	428.287	270.497	261.788
9307.038	1125.379	1376.841	22.56496	135.3897	157.95	383.6	428.7342	270.7795	262.061
9322.743	1127.278	1379.165	22.60303	135.6182	158.22	384.25	429.4576	271.2364	262.504
9341.412	1129.535	1381.927	22.6483	135.8898	158.54	385.02	430.3176	271.7795	263.029
9410.744	1137.919	1392.183	22.81639	136.8983	159.71	387.88	433.5114	273.7967	264.981
9521.482	1151.309	1408.565	23.08488	138.5093	161.59	392.44	438.6126	277.0185	268.1
9699.914	1172.884	1434.962	23.51749	141.1049	164.62	399.8	446.8322	282.2098	273.124
z	#VALUE!	0.147936	0.002425	0.014547	0.017	0.0412	0.046066	0.029094	0.02816
9779.743	1182.537	1446.771	23.71103	142.2662	165.98	403.09	450.5096	284.5324	275.371
9833.133	1188.993	1454.67	23.84048	143.0429	166.88	405.29	452.969	286.0857	276.875
9960.676	1204.415	1473.538	24.1497	144.8982	169.05	410.54	458.8444	289.7964	280.466
10034.94	1213.395	1484.524	24.32976	145.9786	170.31	413.61	462.2654	291.9571	282.557
10047.51	1214.914	1486.383	24.36022	146.1613	170.52	414.12	462.8442	292.3227	282.911
10265.64	1241.29	1518.652	24.88908	149.3345	174.22	423.11	472.8925	298.669	289.053
10622.54	1284.445	1571.451	25.75439	154.5263	180.28	437.82	489.3334	309.0527	299.102
10714.24	1295.533	1585.017	25.97672	155.8603	181.84	441.6	493.5577	311.7207	301.684
10745.16	1299.273	1589.591	26.0517	156.3102	182.36	442.88	494.9823	312.6204	302.555
10758.08	1300.835	1591.502	26.08302	156.4981	182.58	443.41	495.5773	312.9962	302.919
10777.02	1303.125	1594.304	26.12894	156.7736	182.9	444.19	496.4499	313.5473	303.452
10801.46	1306.08	1597.92	26.18819	157.1292	183.32	445.2	497.5757	314.2583	304.14
11001	1330.207	1627.438	26.67196	160.0318	186.7	453.42	506.7673	320.0636	309.759
11038.77	1334.774	1633.025	26.76354	160.5812	187.34	454.98	508.5072	321.1624	310.822
11040.51	1334.985	1633.283	26.76776	160.6066	187.37	455.05	508.5875	321.2132	310.871
11349.25	1372.317	1678.957	27.5163	165.0978	192.61	467.78	522.8098	330.1956	319.565
11360.87	1373.722	1680.676	27.54448	165.2669	192.81	468.26	523.3452	330.5338	319.892
11416.71	1380.474	1688.936	27.67986	166.0791	193.76	470.56	525.9173	332.1583	321.464
11449.28	1384.412	1693.755	27.75883	166.553	194.31	471.9	527.4178	333.106	322.381
11487.64	1389.051	1699.43	27.85184	167.111	194.96	473.48	529.185	334.2221	323.461
11502.02	1390.79	1701.557	27.8867	167.3202	195.21	474.07	529.8473	334.6404	323.866

11506.81	1391.368	1702.265	27.89831	167.3898	195.29	474.27	530.0678	334.7797	324.001
11637.37	1407.155	1721.58	28.21485	169.2891	197.5	479.65	536.0821	338.5782	327.677
11953.02	1445.323	1768.276	28.98015	173.8809	202.86	492.66	550.6229	347.7618	336.565
12089.99	1461.885	1788.539	29.31224	175.8734	205.19	498.31	556.9325	351.7468	340.422
12174.16	1472.062	1800.99	29.5163	177.0978	206.61	501.78	560.8098	354.1956	342.792
12280.28	1484.895	1816.69	29.7736	178.6416	208.42	506.15	565.6985	357.2832	345.78
12676.7	1532.828	1875.334	30.73471	184.4083	215.14	522.49	583.9596	368.8166	356.942
12899.89	1559.815	1908.351	31.27584	187.655	218.93	531.69	594.2409	375.31	363.226
12983.1	1569.877	1920.662	31.47759	188.8656	220.34	535.12	598.0742	377.7311	365.57
13083.6	1582.029	1935.529	31.72124	190.3274	222.05	539.26	602.7036	380.6549	368.399
13088.19	1582.584	1936.208	31.73237	190.3942	222.13	539.45	602.915	380.7884	368.528
13148.77	1589.909	1945.169	31.87924	191.2755	223.15	541.95	605.7056	382.5509	370.234
13189.52	1594.837	1951.198	31.97805	191.8683	223.85	543.63	607.583	383.7366	371.382
13345.41	1613.687	1974.26	32.35601	194.136	226.49	550.05	614.7641	388.2721	375.771
13445.66	1625.809	1989.091	32.59907	195.5944	228.19	554.18	619.3822	391.1888	378.594
13491.82	1631.39	1995.92	32.71099	196.2659	228.98	556.09	621.5088	392.5319	379.894
13493.96	1631.648	1996.235	32.71616	196.2969	229.01	556.17	621.607	392.5939	379.954
13634.29	1648.617	2016.996	33.0564	198.3384	231.39	561.96	628.0716	396.6768	383.905
13713.74	1658.224	2028.749	33.24902	199.4941	232.74	565.23	631.7315	398.9883	386.142
13885.51	1678.994	2054.16	33.66548	201.9929	235.66	572.31	639.6442	403.9858	390.979
13953.75	1687.246	2064.256	33.83094	202.9856	236.82	575.13	642.7879	405.9713	392.9
14063.88	1700.561	2080.547	34.09793	204.5876	238.69	579.66	647.8607	409.1752	396.001
14145.5	1710.431	2092.621	34.29582	205.7749	240.07	583.03	651.6206	411.5499	398.299
14499.84	1753.276	2145.041	35.15492	210.9295	246.08	597.63	667.9435	421.8591	408.277
14529.91	1756.912	2149.489	35.22783	211.367	246.59	598.87	669.3287	422.7339	409.123
14776.66	1786.748	2185.992	35.82607	214.9564	250.78	609.04	680.6953	429.9128	416.071
15493.74	1873.457	2292.075	37.56465	225.3879	262.95	638.6	713.7284	450.7758	436.262
15766.53	1906.441	2332.429	38.22602	229.3561	267.58	649.84	726.2944	458.7122	443.943
15991.06	1933.591	2365.646	38.77041	232.6224	271.39	659.1	736.6377	465.2449	450.266
15996.68	1934.269	2366.476	38.78401	232.7041	271.49	659.33	736.8962	465.4081	450.424
16120.53	1949.246	2384.799	39.0843	234.5058	273.59	664.43	742.6018	469.0117	453.911
16311.06	1972.284	2412.984	39.54623	237.2774	276.82	672.29	751.3784	474.5548	459.276
16438.71	1987.719	2431.869	39.85574	239.1344	278.99	677.55	757.259	478.2688	462.87
16454.99	1989.688	2434.277	39.8952	239.3712	279.27	678.22	758.0088	478.7424	463.329
16664.13	2014.977	2465.217	40.40227	242.4136	282.82	686.84	767.6431	484.8272	469.218
16761.24	2026.718	2479.582	40.63769	243.8262	284.46	690.84	772.1162	487.6523	471.952
16976.96	2052.803	2511.495	41.16072	246.9643	288.13	699.73	782.0537	493.9287	478.026
17037.9	2060.171	2520.51	41.30845	247.8507	289.16	702.24	784.8606	495.7014	479.742
17288.94	2090.527	2557.649	41.91712	251.5027	293.42	712.59	796.4253	503.0055	486.811
17722.03	2142.894	2621.717	42.96713	257.8028	300.77	730.44	816.3755	515.6056	499.005
17758.78	2147.338	2627.154	43.05623	258.3374	301.39	731.96	818.0685	516.6748	500.04
18297.26	2212.45	2706.815	44.3618	266.1708	310.53	754.15	842.8742	532.3416	515.202
18328.76	2216.258	2711.474	44.43815	266.6289	311.07	755.45	844.3248	533.2578	516.089
20091.76	2429.435	2972.285	48.71257	292.2754	340.99	828.11	925.5387	584.5508	565.73
20111.66	2431.84	2975.228	48.7608	292.5648	341.33	828.93	926.4552	585.1296	566.291
20749.62	2508.981	3069.606	50.30755	301.8453	352.15	855.23	955.8434	603.6906	584.254
20824.09	2517.986	3080.623	50.48811	302.9287	353.42	858.3	959.2741	605.8573	586.351

21967.34	2656.224	3249.75	53.25992	319.5595	372.82	905.42	1011.938	639.119	618.542
22363.32	2704.105	3308.33	54.21998	325.3199	379.54	921.74	1030.18	650.6397	629.691
22401.81	2708.759	3314.023	54.31329	325.8798	380.19	923.33	1031.953	651.7595	630.775

HPO42-	HCO3 39	16H+	25 Li 6	30 Li 7	41 OH	47 H3 O	40 Mg	43 Ca 40
-41								
17.30%	16.46%	6.75%	10.55%	12.66%	15.18%	19.83%	16.88%	18.14%

CA42	ca(44)	CA(46)	Ca(48)	Na 23	Zn 64	Cl 35/Zn70	K39	K41
14.90937	15.61934	16.32931	17.03928	28.14678	38.88738	42.78991	47.680764	49.543116
17.78015	18.62683	19.4735	20.32018	33.5664	46.37509	51.02905	56.861633	59.082578
22.41276	23.48003	24.5473	25.61458	42.31209	58.45807	64.32462	71.676871	74.476481
23.68335	24.81113	25.93891	27.06668	44.71079	61.7721	67.97122	75.74028	78.698602
46.7089	48.93314	51.15737	53.3816	88.17976	121.8285	134.0546	149.3769	155.21138
49.85074	52.22458	54.59843	56.97227	94.11109	130.0232	143.0716	159.42461	165.65154
51.21375	53.6525	56.09125	58.53	96.68427	133.5783	146.9835	163.78359	170.18077
52.55734	55.06007	57.5628	60.06553	99.22078	137.0827	150.8396	168.08044	174.64546
53.69528	56.25219	58.80911	61.36603	101.369	140.0507	154.1055	171.7196	178.42676
59.10645	61.92104	64.73563	67.55022	111.5846	154.1644	169.6355	189.02474	196.40781
60.92867	63.83003	66.7314	69.63276	115.0247	158.9172	174.8653	194.85227	202.46296
62.59461	65.5753	68.556	71.53669	118.1697	163.2624	179.6465	200.18001	207.9988
62.62293	65.60498	68.58702	71.56906	118.2232	163.3363	179.7278	200.27059	208.09291
62.85792	65.85115	68.84438	71.83762	118.6668	163.9492	180.4022	201.02208	208.87376
64.23675	67.29564	70.35453	73.41343	121.2698	167.5455	184.3595	205.43164	213.45555
64.37461	67.44007	70.50553	73.57098	121.5301	167.9051	184.7552	205.87253	213.91366
64.53193	67.60488	70.67782	73.75077	121.8271	168.3154	185.2067	206.37564	214.43641
65.94508	69.08533	72.22557	75.36581	124.4949	172.0013	189.2624	210.89497	219.13226
67.11581	70.3118	73.50779	76.70378	126.7051	175.0548	192.6224	214.63898	223.02252
67.75634	70.98283	74.20932	77.43581	127.9143	176.7255	194.4607	216.68742	225.15097
71.24633	74.63901	78.0317	81.42438	134.5029	185.8282	204.477	227.84856	236.74805
72.24123	75.68129	79.12135	82.5614	136.3812	188.4232	207.3324	231.03029	240.05404
76.09789	79.7216	83.34531	86.96902	143.662	198.4823	218.401	243.36404	252.86954
76.46113	80.10214	83.74314	87.38415	144.3477	199.4297	219.4435	244.52569	254.07656
76.53912	80.18384	83.82856	87.47328	144.495	199.6332	219.6673	244.77512	254.33573
78.68006	82.42673	86.17339	89.92006	148.5367	205.2173	225.8118	251.62191	261.44995
78.87238	82.62821	86.38403	90.13986	148.8998	205.7189	226.3638	252.23696	262.08902
79.03487	82.79843	86.562	90.32556	149.2066	206.1427	226.8301	252.75661	262.62897
79.06334	82.82826	86.59318	90.3581	149.2603	206.217	226.9118	252.84766	262.72358
80.37181	84.19904	88.02626	91.85349	151.7305	209.6298	230.6671	257.03219	267.07155
80.59958	84.43765	88.27573	92.1138	152.1605	210.2239	231.3208	257.76061	267.82842
81.92765	85.82896	89.73028	93.63159	154.6677	213.6878	235.1324	262.00783	272.24153
82.03041	85.93662	89.84283	93.74904	154.8617	213.9558	235.4273	262.33648	272.58302
82.12615	86.03691	89.94768	93.85845	155.0425	214.2055	235.7021	262.64264	272.90114
83.21148	87.17394	91.13639	95.09884	157.0914	217.0364	238.817	266.11359	276.50766
86.94205	91.08215	95.22225	99.36234	164.1342	226.7666	249.5237	278.04409	288.90415
86.99228	91.13477	95.27726	99.41975	164.229	226.8976	249.6679	278.20473	289.07107
89.23941	93.48891	97.73841	101.9879	168.4713	232.7587	256.1172	285.39115	296.53818
89.24645	93.49628	97.74611	101.9959	168.4846	232.7771	256.1373	285.41365	296.56156
93.00856	97.43754	101.8665	106.2955	175.5869	242.5896	266.9346	297.44504	309.06287
93.26951	97.71091	102.1523	106.5937	176.0795	243.2702	267.6835	298.27954	309.92997
93.86521	98.33499	102.8048	107.2745	177.2042	244.824	269.3932	300.18464	311.90948
93.93363	98.40666	102.8797	107.3527	177.3333	245.0024	269.5896	300.40343	312.13682
93.9631	98.43754	102.912	107.3864	177.389	245.0793	269.6741	300.4977	312.23477
94.36294	98.85642	103.3499	107.8434	178.1438	246.1222	270.8217	301.7764	313.56341
95.04901	99.57515	104.1013	108.6274	179.439	247.9116	272.7907	303.97045	315.84316

95.15766	99.68897	104.2203	108.7516	179.6441	248.195	273.1025	304.31792	316.2042
97.64087	102.2904	106.94	111.5896	184.3321	254.6718	280.2293	312.25933	324.45579
98.93145	103.6425	108.3535	113.0645	186.7685	258.038	283.9333	316.38665	328.74432
100.1338	104.9021	109.6704	114.4386	189.0384	261.174	287.3841	320.23184	332.7397
100.3764	105.1562	109.9361	114.7159	189.4964	261.8068	288.0804	321.00772	333.54589
101.7029	106.5459	111.3889	116.2319	192.0007	265.2667	291.8875	325.25002	337.95388
102.7993	107.6945	112.5897	117.4849	194.0704	268.1262	295.0339	328.75606	341.59686
102.8119	107.7077	112.6035	117.4993	194.0942	268.1592	295.0702	328.79652	341.63891
104.2749	109.2403	114.2058	119.1713	196.8561	271.9749	299.2689	333.47508	346.5002
104.5011	109.4773	114.4535	119.4298	197.2831	272.5649	299.9181	334.19849	347.25186
106.8054	111.8914	116.9773	122.0633	201.6334	278.5752	306.5315	341.56786	354.90908
108.5621	113.7317	118.9013	124.0709	204.9497	283.157	311.5732	347.18578	360.74642
112.3637	117.7143	123.065	128.4156	212.1266	293.0725	322.4837	359.34338	373.37889
112.437	117.7912	123.1453	128.4995	212.2651	293.2639	322.6943	359.57806	373.62273
112.7782	118.1486	123.519	128.8894	212.9093	294.1539	323.6736	360.66927	374.75656
114.7618	120.2267	125.6915	131.1564	216.654	299.3275	329.3664	367.01277	381.34783
114.8078	120.2748	125.7418	131.2089	216.7407	299.4473	329.4983	367.1597	381.5005
114.8438	120.3125	125.7813	131.25	216.8087	299.5413	329.6017	367.27495	381.62026
115.3325	120.8245	126.3166	131.8086	217.7314	300.816	331.0043	368.83788	383.24423
118.9724	124.6377	130.3031	135.9685	224.6029	310.3098	341.4508	380.47839	395.3394
119.3104	124.9918	130.6732	136.3547	225.241	311.1912	342.4208	381.5592	396.46243
119.3389	125.0217	130.7045	136.3873	225.2948	311.2656	342.5026	381.65034	396.55713
119.3767	125.0613	130.7459	136.4305	225.3663	311.3644	342.6113	381.77146	396.68298
123.1966	129.0631	134.9296	140.7961	232.5776	321.3275	353.5742	393.9875	409.37617
135.3392	141.7839	148.2286	154.6734	255.5011	352.9984	388.4235	432.82003	449.72544
136.3451	142.8377	149.3303	155.823	257.4001	355.6221	391.3104	436.03692	453.06799
136.5855	143.0896	149.5937	156.0978	257.854	356.2492	392.0005	436.8059	453.867
137.3334	143.8731	150.4128	156.9524	259.2659	358.1998	394.1469	439.19756	456.35208
137.8401	144.4039	150.9677	157.5315	260.2225	359.5215	395.6012	440.81807	458.03587
138.4229	145.0144	151.606	158.1976	261.3227	361.0414	397.2737	442.68175	459.97236
139.4953	146.1379	152.7805	159.4231	263.3472	363.8385	400.3514	446.1113	463.53585
139.6195	146.268	152.9166	159.5651	263.5817	364.1625	400.708	446.5086	463.94867
140.2499	146.9285	153.607	160.2856	264.7719	365.8068	402.5173	448.5247	466.04352
140.2644	146.9437	153.6229	160.3022	264.7993	365.8447	402.5589	448.57113	466.09176
142.1036	148.8704	155.6372	162.4041	268.2713	370.6416	407.8373	454.45275	472.20311
145.4107	152.335	159.2593	166.1836	274.5147	379.2674	417.3287	465.02909	483.19255
145.8237	152.7677	159.7117	166.6557	275.2945	380.3448	418.5142	466.35005	484.56511
145.9049	152.8528	159.8006	166.7485	275.4477	380.5565	418.7471	466.6096	484.83479
148.2165	155.2745	162.3324	169.3903	279.8117	386.5858	425.3815	474.00232	492.51627
150.5736	157.7438	164.914	172.0841	284.2616	392.7337	432.1464	481.54038	500.34875
153.8996	161.2282	168.5567	175.8853	290.5406	401.4087	441.692	492.17704	511.40087
156.52	163.9733	171.4267	178.88	295.4875	408.2433	449.2124	500.55707	520.1082
157.6966	165.206	172.7153	180.2247	297.7088	411.3122	452.5894	504.31999	524.01811
164.4505	172.2815	180.1124	187.9434	310.4591	428.928	471.973	525.91915	546.4609
165.4146	173.2915	181.1684	189.0452	312.2792	431.4426	474.7399	529.00235	549.66453
166.644	174.5794	182.5149	190.4503	314.6001	434.6492	478.2683	532.93405	553.74979
166.9379	174.8873	182.8368	190.7862	315.155	435.4158	479.1119	533.87398	554.72643

168.4115	176.4311	184.4507	192.4703	317.9369	439.2593	483.3411	538.58657	559.6231
169.2663	177.3266	185.3869	193.4472	319.5507	441.4889	485.7944	541.32031	562.46362
169.3623	177.4272	185.4921	193.5569	319.7319	441.7393	486.0699	541.62732	562.78261
170.6461	178.7721	186.8981	195.0241	322.1555	445.0876	489.7543	545.7328	567.04845
171.4166	179.5793	187.7419	195.9046	323.6101	447.0973	491.9656	548.19689	569.60878
173.6821	181.9527	190.2233	198.4938	327.8871	453.0064	498.4677	555.44221	577.1371
179.165	187.6967	196.2283	204.76	338.238	467.3071	514.2036	572.97673	595.35649
179.5269	188.0758	196.6247	205.1737	338.9213	468.2512	515.2424	574.13422	596.55919
180.393	188.9832	197.5733	206.1635	340.5564	470.5101	517.7281	576.90398	599.43714
181.1536	189.7799	198.4063	207.0326	341.9921	472.4938	519.9108	579.3362	601.96436
182.435	191.1224	199.8097	208.4971	344.4113	475.836	523.5885	583.43422	606.22244
182.9927	191.7067	200.4206	209.1345	345.4642	477.2908	525.1892	585.21792	608.0758
186.7725	195.6665	204.5604	213.4543	352.6	487.1495	536.0373	597.30594	620.63597
187.4105	196.3348	205.2591	214.1834	353.8043	488.8134	537.8681	599.34606	622.75577
189.7284	198.7631	207.7978	216.8325	358.1803	494.8592	544.5207	606.75902	630.45827
190.0961	199.1483	208.2005	217.2527	358.8745	495.8183	545.576	607.93494	631.68013
191.3022	200.4119	209.5215	218.6311	361.1514	498.9641	549.0375	611.79204	635.68788
191.8545	200.9904	210.1263	219.2623	362.1939	500.4045	550.6224	613.55815	637.52298
192.7403	201.9185	211.0966	220.2747	363.8663	502.715	553.1649	616.39118	640.46665
194.0095	203.248	212.4865	221.7251	366.2622	506.0252	556.8072	620.44986	644.68386
196.3437	205.6934	215.0431	224.3928	370.669	512.1135	563.5065	627.91492	652.4405
200.8745	210.44	220.0054	229.5709	379.2225	523.931	576.51	642.40462	667.49614
200.9951	210.5663	220.1374	229.7086	379.4501	524.2454	576.8559	642.7901	667.89668
203.5571	213.2503	222.9435	232.6367	384.2869	530.9279	584.209	650.98367	676.41029
204.6878	214.4349	224.1819	233.9289	386.4215	533.877	587.4541	654.59967	680.16752
205.8363	215.638	225.4397	235.2415	388.5896	536.8725	590.7502	658.27249	683.98379
206.8811	216.7326	226.584	236.4355	390.562	539.5976	593.7488	661.61381	687.45563
206.9984	216.8554	226.7125	236.5696	390.7834	539.9035	594.0854	661.98889	687.84536
209.203	219.165	229.1271	239.0891	394.9454	545.6537	600.4126	669.03935	695.1712
210.1285	220.1346	230.1407	240.1468	396.6927	548.0676	603.0689	671.99916	698.24662
212.3188	222.4292	232.5397	242.6501	400.8277	553.7806	609.3551	679.00395	705.525
214.3579	224.5655	234.773	244.9805	404.6773	559.0991	615.2074	685.52511	712.30087
214.7888	225.0168	235.2449	245.4729	405.4907	560.2229	616.4439	686.90299	713.73257
216.6259	226.9414	237.2569	247.5724	408.9588	565.0144	621.7163	692.77799	719.83704
218.9795	229.4071	239.8347	250.2623	413.4021	571.1532	628.4712	700.30498	727.65803
219.7893	230.2555	240.7216	251.1878	414.9309	573.2655	630.7954	702.89482	730.34902
220.4804	230.9795	241.4785	251.9776	416.2356	575.068	632.7788	705.10494	732.64547
221.8201	232.383	242.9458	253.5087	418.7648	578.5623	636.6238	709.38941	737.09728
224.3692	235.0534	245.7377	256.4219	423.577	585.2109	643.9396	717.54138	745.56766
224.8997	235.6092	246.3187	257.0282	424.5786	586.5947	645.4622	719.23809	747.33064
225.1345	235.8552	246.5759	257.2966	425.0219	587.2071	646.1361	719.98901	748.11089
225.966	236.7263	247.4866	258.2469	426.5917	589.3758	648.5225	722.64816	750.8739
228.2776	239.1479	250.0183	260.8886	430.9555	595.405	655.1567	730.0406	758.55508
229.0572	239.9647	250.8722	261.7797	432.4274	597.4385	657.3943	732.53399	761.14586
235.7044	246.9284	258.1525	269.3765	444.9764	614.7761	676.4718	753.79201	783.23419
237.8606	249.1873	260.514	271.8407	449.0469	620.3999	682.66	760.68749	790.39901
244.268	255.8998	267.5316	279.1634	461.1432	637.1121	701.0493	781.1787	811.69058

244.8636	256.5237	268.1839	279.8441	462.2676	638.6654	702.7586	783.08333	813.6696
245.5133	257.2044	268.8956	280.5867	463.4942	640.3602	704.6234	785.16127	815.8287
248.3227	260.1476	271.9725	283.7974	468.798	647.6878	712.6863	794.14585	825.16421
248.792	260.6393	272.4865	284.3337	469.6839	648.9118	714.0332	795.64666	826.72363
249.6219	261.5086	273.3954	285.2821	471.2505	651.0762	716.4148	798.3005	829.48113
254.62	266.7448	278.8696	290.9943	480.6864	664.1127	730.7596	814.28486	846.08982
255.6925	267.8683	280.0442	292.22	482.7111	666.91	733.8376	817.71469	849.65361
258.0736	270.3628	282.652	294.9412	487.2062	673.1204	740.6713	825.32942	857.56576
258.4628	270.7706	283.0783	295.3861	487.941	674.1357	741.7884	826.57427	858.85924
259.9223	272.2996	284.6769	297.0541	490.6964	677.9425	745.9772	831.24186	863.70914
260.693	273.107	285.5209	297.9349	492.1513	679.9526	748.1891	833.70651	866.27006
261.0953	273.5285	285.9616	298.3947	492.9108	681.0019	749.3437	834.99316	867.60696
261.2842	273.7263	286.1684	298.6105	493.2673	681.4945	749.8857	835.59705	868.23444
262.5196	275.0206	287.5215	300.0225	495.5997	684.7169	753.4315	839.54814	872.33985
264.7649	277.3728	289.9807	302.5885	499.8385	690.5732	759.8755	846.72869	879.80086
271.1135	284.0236	296.9338	309.844	511.8237	707.1318	778.0958	867.03155	900.89673
273.0131	286.0137	299.0143	312.0149	515.4098	712.0864	783.5476	873.10653	907.20899
274.535	287.6081	300.6812	313.7543	518.283	716.0559	787.9156	877.97371	912.26628
274.8774	287.9668	301.0562	314.1456	518.9294	716.949	788.8982	879.06871	913.40404
275.1644	288.2675	301.3705	314.4736	519.4712	717.6976	789.722	879.9866	914.35779
275.6287	288.7539	301.8791	315.0043	520.3478	718.9087	791.0546	881.47152	915.90071
276.1807	289.3322	302.4836	315.6351	521.3898	720.3483	792.6387	883.23669	917.73482
278.2305	291.4796	304.7286	317.9777	525.2596	725.6947	798.5217	889.79207	924.54625
281.5045	294.9095	308.3144	321.7194	531.4404	734.2341	807.918	900.26242	935.42556
286.7799	300.4361	314.0922	327.7484	541.3996	747.9936	823.0583	917.13329	952.95538
0.029565	0.030973	0.032381	0.033789	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
289.14	302.9086	316.6772	330.4458	545.8552	754.1495	829.832	924.68117	960.79807
290.7185	304.5623	318.406	332.2497	548.8352	758.2666	834.3623	929.72923	966.04331
294.4894	308.5127	322.536	336.5593	555.954	768.1019	845.1846	941.78851	978.5736
296.685	310.8129	324.9407	339.0686	560.0991	773.8287	851.4861	948.81031	985.86967
297.0565	311.202	325.3476	339.4931	560.8003	774.7976	852.5522	949.99825	987.104
303.5056	317.9582	332.4108	346.8635	572.9753	791.6184	871.0611	970.62268	1008.534
314.0574	329.0125	343.9677	358.9228	592.8957	819.1403	901.345	1004.368	1043.5974
316.7686	331.8528	346.9371	362.0213	598.0141	826.2118	909.1261	1013.0385	1052.6065
317.6829	332.8107	347.9384	363.0662	599.7401	828.5964	911.75	1015.9624	1055.6446
318.0648	333.2107	348.3567	363.5026	600.461	829.5925	912.8461	1017.1837	1056.9136
318.6248	333.7974	348.97	364.1426	601.5183	831.0532	914.4533	1018.9747	1058.7745
319.3474	334.5544	349.7614	364.9684	602.8823	832.9378	916.527	1021.2854	1061.1755
325.2466	340.7346	356.2225	371.7104	614.0193	848.3245	933.4579	1040.1515	1080.7785
326.3633	341.9044	357.4455	372.9866	616.1274	851.237	936.6627	1043.7225	1084.489
326.4148	341.9584	357.502	373.0455	616.2247	851.3715	936.8107	1043.8874	1084.6604
335.5428	351.521	367.4992	383.4774	633.457	875.1794	963.0078	1073.0789	1114.992
335.8864	351.881	367.8756	383.8702	634.1057	876.0757	963.9941	1074.1779	1116.1339
337.5372	353.6104	369.6836	385.7568	637.2222	880.3814	968.7319	1079.4572	1121.6195
338.5002	354.6193	370.7383	386.8574	639.0402	882.8932	971.4958	1082.537	1124.8196
339.6344	355.8075	371.9805	388.1536	641.1814	885.8515	974.7509	1086.1642	1128.5884
340.0595	356.2528	372.4461	388.6395	641.984	886.9603	975.971	1087.5237	1130.001

340.201	356.4011	372.6011	388.8012	642.2511	887.3293	976.3771	1087.9762	1130.4712
344.0611	360.4449	376.8288	393.2126	649.5383	897.3973	987.4554	1100.3208	1143.2979
353.3934	370.2217	387.0499	403.8782	667.1564	921.7383	1014.239	1130.166	1174.3088
357.4429	374.464	391.4851	408.5062	674.8014	932.3006	1025.861	1143.1166	1187.7653
359.9314	377.071	394.2106	411.3502	679.4993	938.7911	1033.003	1151.0748	1196.0343
363.069	380.358	397.647	414.936	685.4226	946.9748	1042.008	1161.109	1206.4605
374.7891	392.6362	410.4833	428.3304	707.5485	977.5437	1075.645	1198.5903	1245.4057
381.3877	399.5491	417.7104	435.8717	720.0058	994.7546	1094.583	1219.6929	1267.3326
383.848	402.1265	420.405	438.6834	724.6504	1001.172	1101.644	1227.561	1275.508
386.8191	405.2391	423.659	442.079	730.2594	1008.921	1110.171	1237.0628	1285.3809
386.9549	405.3813	423.8077	442.2341	730.5157	1009.275	1110.561	1237.4968	1285.8319
388.7459	407.2576	425.7693	444.281	733.8968	1013.946	1115.701	1243.2245	1291.7833
389.9508	408.5198	427.0889	445.658	736.1715	1017.089	1119.159	1247.0778	1295.7872
394.5597	413.3482	432.1368	450.9253	744.8725	1029.11	1132.386	1261.8173	1311.1024
397.5236	416.4533	435.383	454.3127	750.468	1036.841	1140.893	1271.2961	1320.9514
398.8884	417.8831	436.8778	455.8725	753.0446	1040.401	1144.81	1275.6609	1325.4866
398.9515	417.9492	436.9468	455.9445	753.1636	1040.565	1144.991	1275.8625	1325.6961
403.1005	422.2958	441.491	460.6863	760.9964	1051.387	1156.899	1289.1312	1339.4831
405.4494	424.7565	444.0637	463.3708	765.4308	1057.513	1163.64	1296.6432	1347.2885
410.5278	430.0768	449.6257	469.1747	775.0181	1070.759	1178.215	1312.8842	1364.1638
412.5455	432.1905	451.8355	471.4806	778.8272	1076.022	1184.006	1319.3367	1370.8683
415.8013	435.6013	455.4014	475.2015	784.9736	1084.514	1193.35	1329.7488	1381.6871
418.2144	438.1294	458.0444	477.9594	789.5293	1090.808	1200.276	1337.4662	1389.706
428.6906	449.1044	469.5182	489.9321	809.3068	1118.132	1230.342	1370.9693	1424.5176
429.5796	450.0358	470.4919	490.9481	810.9851	1120.451	1232.894	1373.8124	1427.4718
436.8747	457.6783	478.4818	499.2854	824.7573	1139.479	1253.831	1397.1425	1451.7132
458.0756	479.8887	501.7018	523.515	864.7815	1194.776	1314.677	1464.9437	1522.1626
466.1405	488.3377	510.5349	532.732	880.007	1215.811	1337.824	1490.7358	1548.962
472.779	495.2922	517.8055	540.3188	892.5394	1233.126	1356.876	1511.9657	1571.0212
472.9449	495.466	517.9872	540.5084	892.8526	1233.558	1357.352	1512.4962	1571.5724
476.6067	499.3023	521.9979	544.6934	899.7657	1243.11	1367.862	1524.2071	1583.7407
482.2396	505.2034	528.1672	551.131	910.3998	1257.802	1384.028	1542.2212	1602.4585
486.0138	509.1573	532.3009	555.4444	917.5249	1267.646	1394.86	1554.2913	1615
486.495	509.6615	532.8279	555.9943	918.4334	1268.901	1396.241	1555.8302	1616.599
492.6784	516.1393	539.6002	563.061	930.1067	1285.028	1413.987	1575.6049	1637.1461
495.5493	519.1469	542.7444	566.342	935.5265	1292.516	1422.227	1584.7861	1646.6858
501.9272	525.8285	549.7298	573.6311	947.5672	1309.152	1440.531	1605.183	1667.8795
503.7287	527.7158	551.7029	575.69	950.9681	1313.85	1445.702	1610.9442	1673.8657
511.151	535.4916	559.8321	584.1726	964.9804	1333.21	1467.004	1634.6811	1698.5297
523.9552	548.9054	573.8557	598.8059	989.1528	1366.606	1503.752	1675.6292	1741.0772
525.0417	550.0437	575.0457	600.0477	991.2041	1369.44	1506.87	1679.1041	1744.6878
540.9622	566.7223	592.4824	618.2425	1021.26	1410.965	1552.562	1730.0184	1797.5908
541.8933	567.6977	593.5021	619.3066	1023.017	1413.393	1555.234	1732.9959	1800.6846
594.0169	622.3034	650.5899	678.8764	1121.419	1549.345	1704.829	1899.6893	1973.8888
594.605	622.9196	651.2341	679.5486	1122.53	1550.879	1706.517	1901.5703	1975.8433
613.4666	642.6793	671.892	701.1047	1158.138	1600.074	1760.649	1961.8904	2038.5194
615.6684	644.986	674.3035	703.6211	1162.294	1605.817	1766.969	1968.9319	2045.8359

649.4688	680.3959	711.323	742.2501	1226.105	1693.977	1863.976	2077.0267	2158.1528
661.1761	692.6606	724.1452	755.6298	1248.206	1724.512	1897.576	2114.467	2197.0555
662.314	693.8528	725.3915	756.9303	1250.355	1727.481	1900.841	2118.1062	2200.8368

42/42	42/44	39/46	46/48	35 Na 23	52 Zn 64	39 ZN/CL	48 K39	41/41
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17.72%	17.72%	16.46%	16.88%	14.76%	21.94%	16.40%	20.25%	17.30%
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ARG	AsnN	Glu	Tyr	ser	HIST
94.82527	140.099	180.90452	198.2252	114.9706	164.531266
113.0838	167.0749	215.73745	236.3932	137.108	196.211547
142.5476	210.606	271.94762	297.9852	172.8314	247.334256
150.6287	222.5454	287.36451	314.8781	182.6293	261.355799
297.0738	438.9098	566.74757	621.0106	360.1861	515.452539
317.0562	468.4327	604.86936	662.7824	384.4137	550.124013
325.7251	481.2405	621.40765	680.9041	394.9243	565.165459
334.2705	493.8658	637.71025	698.7676	405.2851	579.992548
341.5079	504.5587	651.51751	713.8968	414.0601	592.550142
375.9235	555.4058	717.17454	785.8402	455.7872	652.2647
387.5131	572.5287	739.28466	810.0672	469.8389	672.373685
398.1086	588.1831	759.49852	832.2165	482.6854	690.758036
398.2888	588.4492	759.84219	832.593	482.9039	691.070598
399.7833	590.6573	762.69339	835.7172	484.7159	693.663748
408.5528	603.6138	779.4236	854.0493	495.3485	708.879745
409.4297	604.9092	781.09637	855.8822	496.4116	710.401116
410.4302	606.3875	783.00519	857.9738	497.6247	712.137169
419.418	619.6665	800.15189	876.7622	508.522	727.731959
426.864	630.6674	814.35698	892.3273	517.5497	740.651381
430.9378	636.6863	822.12892	900.8434	522.4891	747.719901
453.1346	669.4808	864.47515	947.244	549.4014	786.233466
459.4622	678.8295	876.54685	960.4716	557.0734	797.212592
483.991	715.0694	923.34208	1011.747	586.8132	839.772489
486.3012	718.4827	927.74947	1016.577	589.6143	843.780975
486.7973	719.2155	928.69581	1017.613	590.2157	844.64166
500.4139	739.3333	954.67307	1046.078	606.7251	868.267777
501.6371	741.1405	957.00662	1048.635	608.2081	870.390127
502.6705	742.6673	958.97821	1050.795	609.4611	872.183277
502.8516	742.9349	959.32367	1051.174	609.6807	872.49747
511.1736	755.2302	975.2001	1068.57	619.7707	886.936957
512.6222	757.3704	977.96378	1071.599	621.5271	889.450499
521.0689	769.8499	994.07804	1089.256	631.7682	904.1063
521.7225	770.8156	995.325	1090.622	632.5607	905.240395
522.3314	771.7152	996.48657	1091.895	633.2989	906.296839
529.2343	781.9138	1009.6556	1106.325	641.6682	918.274009
552.9611	816.9688	1054.9209	1155.924	670.4357	959.442388
553.2805	817.4408	1055.5304	1156.592	670.8231	959.996711
567.5726	838.5564	1082.7962	1186.468	688.1514	984.79477
567.6173	838.6226	1082.8816	1186.562	688.2057	984.872421
591.5448	873.974	1128.5296	1236.58	717.2164	1026.38892
593.2044	876.426	1131.6957	1240.05	719.2286	1029.26853
596.9932	882.0237	1138.9238	1247.97	723.8223	1035.84244
597.4283	882.6666	1139.754	1248.879	724.3499	1036.59741
597.6158	882.9436	1140.1116	1249.271	724.5772	1036.9227
600.1588	886.7008	1144.9631	1254.587	727.6604	1041.3351
604.5222	893.1475	1153.2875	1263.709	732.9509	1048.90607

605.2132	894.1684	1154.6058	1265.153	733.7887	1050.10509
621.0067	917.5024	1184.7361	1298.168	752.9375	1077.50837
629.215	929.6296	1200.3955	1315.327	762.8895	1091.75047
636.8621	940.9278	1214.9845	1331.313	772.1612	1105.01899
638.4051	943.2076	1217.9282	1334.538	774.0321	1107.69632
646.842	955.6726	1234.0238	1352.175	784.2614	1122.33515
653.8147	965.9743	1247.326	1366.751	792.7153	1134.43337
653.8951	966.0932	1247.4795	1366.919	792.8129	1134.57301
663.1996	979.84	1265.2303	1386.369	804.0941	1150.71723
664.6383	981.9656	1267.975	1389.377	805.8384	1153.21348
679.2942	1003.619	1295.935	1420.014	823.6079	1178.64286
690.4668	1020.126	1317.2498	1443.369	837.1541	1198.02851
714.6453	1055.848	1363.3767	1493.913	866.4692	1239.98058
715.112	1056.538	1364.2671	1494.888	867.0351	1240.79037
717.2822	1059.744	1368.4072	1499.425	869.6663	1244.55579
729.8978	1078.383	1392.4749	1525.797	884.9621	1266.4452
730.19	1078.815	1393.0324	1526.408	885.3164	1266.95221
730.4192	1079.153	1393.4697	1526.887	885.5943	1267.34993
733.5275	1083.746	1399.3996	1533.385	889.3629	1272.74308
756.6776	1117.948	1443.5646	1581.778	917.4311	1312.91081
758.8271	1121.124	1447.6652	1586.271	920.0373	1316.64034
759.0083	1121.392	1448.011	1586.65	920.257	1316.95486
759.2492	1121.748	1448.4706	1587.154	920.5491	1317.3728
783.5439	1157.642	1494.8192	1637.94	950.0051	1359.5265
860.7722	1271.742	1642.1528	1799.38	1043.64	1493.52528
867.1698	1281.195	1654.358	1812.754	1051.397	1504.62578
868.6991	1283.454	1657.2755	1815.951	1053.251	1507.27929
873.4556	1290.481	1666.3497	1825.894	1059.018	1515.53215
876.6783	1295.243	1672.498	1832.631	1062.926	1521.12399
880.3847	1300.719	1679.569	1840.379	1067.419	1527.55499
887.2053	1310.796	1692.5809	1854.637	1075.689	1539.38926
887.9954	1311.963	1694.0883	1856.288	1076.647	1540.76022
892.0049	1317.887	1701.7376	1864.67	1081.508	1547.71716
892.0973	1318.023	1701.9137	1864.863	1081.62	1547.87736
903.7943	1335.305	1724.229	1889.315	1095.802	1568.17296
924.8281	1366.381	1764.3565	1933.284	1121.305	1604.66858
927.4552	1370.263	1769.3683	1938.776	1124.49	1609.22682
927.9713	1371.025	1770.3531	1939.855	1125.116	1610.12242
942.6736	1392.747	1798.4016	1970.589	1142.941	1635.63239
957.665	1414.896	1827.0016	2001.927	1161.118	1661.64382
978.8187	1446.149	1867.3579	2046.148	1186.765	1698.3476
995.4845	1470.772	1899.1524	2080.986	1206.972	1727.26442
1002.968	1481.829	1913.4292	2096.63	1216.045	1740.2491
1045.923	1545.293	1995.3781	2186.425	1268.126	1814.78096
1052.055	1554.352	2007.076	2199.243	1275.561	1825.42011
1059.874	1565.904	2021.9932	2215.588	1285.041	1838.98717
1061.744	1568.666	2025.5593	2219.496	1287.307	1842.23057

1071.116	1582.513	2043.4393	2239.088	1298.671	1858.49224
1076.552	1590.546	2053.8113	2250.453	1305.262	1867.92553
1077.163	1591.448	2054.9761	2251.729	1306.003	1868.98491
1085.328	1603.511	2070.5526	2268.797	1315.902	1883.15164
1090.228	1610.751	2079.9016	2279.041	1321.844	1891.65442
1104.637	1632.04	2107.3909	2309.162	1339.314	1916.65574
1139.509	1683.561	2173.9182	2382.059	1381.594	1977.16181
1141.811	1686.962	2178.3098	2386.871	1384.385	1981.15594
1147.32	1695.1	2188.8185	2398.386	1391.064	1990.71353
1152.157	1702.247	2198.0466	2408.498	1396.928	1999.10636
1160.307	1714.288	2213.5947	2425.535	1406.81	2013.24732
1163.854	1719.529	2220.3622	2432.95	1411.111	2019.4023
1187.894	1755.047	2266.2251	2483.204	1440.258	2061.11423
1191.951	1761.041	2273.9655	2491.686	1445.177	2068.15404
1206.694	1782.822	2302.0908	2522.504	1463.052	2093.73383
1209.033	1786.277	2306.5524	2527.393	1465.887	2097.79158
1216.703	1797.611	2321.1865	2543.428	1475.188	2111.10121
1220.216	1802.8	2327.8873	2550.77	1479.446	2117.19551
1225.85	1811.124	2338.636	2562.548	1486.277	2126.97137
1233.922	1823.05	2354.035	2579.421	1496.064	2140.9766
1248.768	1844.984	2382.358	2610.456	1514.064	2166.73616
1277.584	1887.559	2437.333	2670.695	1549.003	2216.73554
1278.351	1888.691	2438.7956	2672.297	1549.932	2218.06572
1294.646	1912.766	2469.8826	2706.361	1569.689	2246.33915
1301.837	1923.391	2483.602	2721.394	1578.408	2258.81681
1309.142	1934.183	2497.5369	2736.663	1587.264	2271.49055
1315.787	1944	2510.2142	2750.554	1595.321	2283.02041
1316.533	1945.103	2511.6373	2752.113	1596.225	2284.3147
1330.554	1965.819	2538.3873	2781.424	1613.226	2308.64359
1336.44	1974.515	2549.617	2793.729	1620.363	2318.85698
1350.371	1995.097	2576.1937	2822.851	1637.253	2343.02828
1363.34	2014.258	2600.9355	2849.961	1652.977	2365.53074
1366.081	2018.307	2606.1633	2855.69	1656.3	2370.2854
1377.764	2035.569	2628.4535	2880.114	1670.466	2390.55817
1392.734	2057.686	2657.0115	2911.406	1688.615	2416.53143
1397.884	2065.295	2666.8375	2922.173	1694.86	2425.46814
1402.28	2071.789	2675.2229	2931.361	1700.189	2433.09457
1410.8	2084.378	2691.4785	2949.173	1710.52	2447.87892
1427.013	2108.331	2722.4077	2983.064	1730.177	2476.00879
1430.387	2113.316	2728.8452	2990.118	1734.268	2481.86361
1431.88	2115.523	2731.6942	2993.239	1736.078	2484.4548
1437.169	2123.336	2741.7832	3004.294	1742.49	2493.63066
1451.871	2145.057	2769.8307	3035.027	1760.315	2519.13965
1456.829	2152.383	2779.2909	3045.393	1766.328	2527.74357
1499.106	2214.845	2859.9454	3133.77	1817.586	2601.09827
1512.82	2235.106	2886.1074	3162.437	1834.213	2624.89241
1553.572	2295.314	2963.8527	3247.626	1883.623	2695.60111

1557.359	2300.911	2971.079	3255.544	1888.215	2702.17338
1561.492	2307.016	2978.9628	3264.183	1893.226	2709.34369
1579.36	2333.415	3013.051	3301.535	1914.89	2740.34665
1582.345	2337.825	3018.7452	3307.774	1918.509	2745.52545
1587.623	2345.623	3028.8141	3318.807	1924.908	2754.68304
1619.412	2392.589	3089.46	3385.259	1963.45	2809.84001
1626.233	2402.667	3102.473	3399.518	1971.72	2821.67525
1641.377	2425.041	3131.3639	3431.175	1990.081	2847.95129
1643.852	2428.699	3136.087	3436.351	1993.083	2852.24689
1653.135	2442.414	3153.7962	3455.755	2004.338	2868.35326
1658.036	2449.655	3163.1473	3466.002	2010.281	2876.85799
1660.595	2453.436	3168.0289	3471.351	2013.383	2881.2978
1661.796	2455.21	3170.3201	3473.861	2014.839	2883.38165
1669.654	2466.82	3185.3108	3490.287	2024.366	2897.01559
1683.934	2487.918	3212.5544	3520.139	2041.68	2921.79342
1724.312	2547.573	3289.5851	3604.545	2090.636	2991.8522
1736.393	2565.423	3312.634	3629.801	2105.284	3012.81502
1746.073	2579.724	3331.1005	3650.036	2117.02	3029.61013
1748.251	2582.942	3335.2549	3654.588	2119.661	3033.3886
1750.076	2585.639	3338.7375	3658.404	2121.874	3036.55598
1753.029	2590.002	3344.3714	3664.577	2125.454	3041.67996
1756.54	2595.188	3351.0686	3671.916	2129.711	3047.77099
1769.577	2614.45	3375.9402	3699.169	2145.517	3070.39156
1790.4	2645.215	3415.6656	3742.697	2170.764	3106.52144
1823.952	2694.786	3479.6749	3812.835	2211.444	3164.73746
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
1838.963	2716.964	3508.3122	3844.214	2229.644	3190.78283
1849.002	2731.796	3527.4649	3865.201	2241.816	3208.20209
1872.985	2767.23	3573.2187	3915.335	2270.894	3249.81484
1886.95	2787.862	3599.86	3944.527	2287.825	3274.04488
1889.312	2791.352	3604.3671	3949.466	2290.69	3278.14406
1930.329	2851.952	3682.6178	4035.209	2340.421	3349.31246
1997.44	2951.105	3810.6502	4175.5	2421.789	3465.75691
2014.684	2976.581	3843.5467	4211.546	2442.696	3495.67602
2020.498	2985.172	3854.6401	4223.701	2449.746	3505.76542
2022.927	2988.761	3859.2739	4228.779	2452.691	3509.97978
2026.489	2994.023	3866.069	4236.225	2457.01	3516.15988
2031.085	3000.813	3874.8361	4245.831	2462.581	3524.13346
2068.605	3056.247	3946.4154	4324.264	2508.072	3589.23432
2075.707	3066.739	3959.9644	4339.11	2516.683	3601.557
2076.034	3067.224	3960.59	4339.795	2517.081	3602.126
2134.089	3152.996	4071.3447	4461.154	2587.469	3702.85658
2136.275	3156.225	4075.5143	4465.723	2590.119	3706.64875
2146.774	3171.737	4095.5445	4487.671	2602.849	3724.86605
2152.899	3180.787	4107.2295	4500.475	2610.275	3735.49347
2160.112	3191.444	4120.9912	4515.554	2619.021	3748.00962
2162.816	3195.439	4126.1494	4521.206	2622.299	3752.70098

2163.716	3196.769	4127.8663	4523.088	2623.39	3754.26248	
2188.266	3233.04	4174.7024	4574.408	2653.156	3796.85957	
2247.621	3320.733	4287.9374	4698.485	2725.12	3899.84594	
2273.377	3358.786	4337.073	4752.325	2756.348	3944.53438	
2289.204	3382.169	4367.2672	4785.41	2775.537	3971.99574	
2309.159	3411.652	4405.3377	4827.125	2799.732	4006.62056	
2383.7	3521.783	4547.5446	4982.948	2890.109	4135.9567	
2425.668	3583.788	4627.6098	5070.679	2940.993	4208.77534	
2441.316	3606.906	4657.4617	5103.389	2959.965	4235.92544	
2460.212	3634.825	4693.5122	5142.891	2982.876	4268.71306	
2461.076	3636.101	4695.1591	5144.696	2983.923	4270.21094	
2472.467	3652.93	4716.8904	5168.508	2997.734	4289.97539	
2480.13	3664.252	4731.5102	5184.527	3007.025	4303.27198	
2509.443	3707.561	4787.433	5245.804	3042.566	4354.13335	
2528.294	3735.412	4823.3963	5285.211	3065.422	4386.84169	
2536.975	3748.237	4839.9565	5303.357	3075.946	4401.90304	
2537.376	3748.829	4840.7213	5304.195	3076.432	4402.59863	
2563.764	3787.817	4891.064	5359.357	3108.427	4448.38496	
2578.703	3809.889	4919.565	5390.587	3126.54	4474.30635	
2611.003	3857.609	4981.1845	5458.106	3165.701	4530.3488	
2623.835	3876.568	5005.6658	5484.932	3181.26	4552.61439	
2644.542	3907.162	5045.1702	5528.218	3206.366	4588.54329	
2659.89	3929.838	5074.4506	5560.302	3224.975	4615.17365	
2726.52	4028.279	5201.5639	5699.586	3305.759	4730.78221	
2732.174	4036.633	5212.351	5711.406	3312.615	4740.59298	
2778.572	4105.183	5300.8672	5808.397	3368.87	4821.09776	
2913.412	4304.401	5558.1104	6090.27	3532.356	5055.05844	
2964.705	4380.185	5655.9672	6197.496	3594.547	5144.0585	
3006.927	4442.564	5736.5152	6285.756	3645.738	5217.31629	
3007.982	4444.123	5738.5281	6287.962	3647.017	5219.14696	
3031.272	4478.533	5782.96	6336.648	3675.255	5259.55743	
3067.097	4531.463	5851.3071	6411.539	3718.692	5321.71864	
3091.102	4566.929	5897.1019	6461.718	3747.796	5363.36859	
3094.162	4571.45	5902.9406	6468.116	3751.506	5368.67887	
3133.489	4629.554	5977.9674	6550.326	3799.188	5436.91513	
3151.748	4656.53	6012.8014	6588.495	3821.326	5468.59639	
3192.313	4716.462	6090.189	6673.292	3870.509	5538.9798	
3203.77	4733.39	6112.0476	6697.244	3884.4	5558.86007	
3250.977	4803.135	6202.1069	6795.926	3941.636	5640.76835	
3332.413	4923.452	6357.4673	6966.161	4040.373	5782.06739	
3339.324	4933.662	6370.6514	6980.607	4048.751	5794.05827	
3440.58	5083.262	6563.8243	7192.276	4171.519	5969.74745	
3446.501	5092.011	6575.1211	7204.654	4178.698	5980.02185	
3778.013	5581.801	7207.5688	7897.655	4580.639	6555.22809	
3781.754	5587.328	7214.7054	7905.475	4585.175	6561.7188	
3901.716	5764.565	7443.5646	8156.246	4730.622	6769.86445	
3915.72	5785.255	7470.2804	8185.52	4747.601	6794.16235	

4130.694	6102.867	7880.4007	8634.907	5008.245	7167.16357
4205.153	6212.876	8022.452	8790.559	5098.523	7296.35811
4212.39	6223.569	8036.2593	8805.688	5107.298	7308.9157

38 Arg	39 Asn	52 Glu	34 Tyr	41 Ser	40 Hist
16.03%	16.45%	21.34%	14.35%	17.30%	16.90%

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