Information Theory Log Table

p	$\log_2 p$	$p \log_2 (1/p)$	$H_2(p) = p \log_2 (1/p) + (1-p) \log_2 1/(1-p)$
0.010000	−6.643856	0.066439	0.08079
0.020000	−5.643856	0.112877	0.14144
0.030000	−5.058894	0.151767	0.19439
0.040000	−4.643856	0.185754	0.24229
0.050000	−4.321928	0.216096	0.28639
0.060000	−4.058894	0.243534	0.32744
0.070000	−3.836501	0.268555	0.36592
0.080000	−3.643856	0.291508	0.40217
0.090000	−3.473931	0.312654	0.43647
0.100000	−3.321928	0.332193	0.46899
0.110000	−3.184425	0.350287	0.49991
0.120000	−3.058894	0.367067	0.52936
0.130000	−2.943417	0.382644	0.55743
0.140000	−2.836501	0.397110	0.58423
0.150000	−2.736966	0.410545	0.60984
0.160000	−2.643856	0.423017	0.63431
0.170000	−2.556393	0.434587	0.65770
0.180000	−2.473931	0.445308	0.68007
0.190000	−2.395929	0.455226	0.70147
0.200000	−2.321928	0.464386	0.72192
0.210000	−2.251539	0.472823	0.74148
0.220000	−2.184425	0.480573	0.76016
0.230000	−2.120294	0.487668	0.77801
0.240000	−2.058894	0.494134	0.79504
0.250000	−2.000000	0.500000	0.81127
0.260000	−1.943417	0.505288	0.82674
0.270000	−1.888969	0.510022	0.84146
0.280000	−1.836501	0.514220	0.85545
0.290000	−1.785875	0.517904	0.86872
0.300000	−1.736966	0.521090	0.88129
0.310000	−1.689660	0.523795	0.89317
0.320000	−1.643856	0.526034	0.90438

0.330000	-1.599462	0.527822	0.91492
0.340000	-1.556393	0.529174	0.92481
0.350000	-1.514573	0.530101	0.93406
0.360000	-1.473931	0.530615	0.94268
0.370000	-1.434403	0.530729	0.95067
0.380000	-1.395929	0.530453	0.95804
0.390000	-1.358454	0.529797	0.96480
0.400000	-1.321928	0.528771	0.97095
0.410000	-1.286304	0.527385	0.97650
0.420000	-1.251539	0.525646	0.98145
0.430000	-1.217591	0.523564	0.98581
0.440000	-1.184425	0.521147	0.98958
0.450000	-1.152003	0.518401	0.99277
0.460000	-1.120294	0.515335	0.99537
0.470000	-1.089267	0.511956	0.99740
0.480000	-1.058894	0.508269	0.99884
0.490000	-1.029146	0.504282	0.99971
0.500000	-1.000000	0.500000	1.00000
0.510000	-0.971431	0.495430	0.99971
0.520000	-0.943417	0.490577	0.99884
0.530000	-0.915936	0.485446	0.99740
0.540000	-0.888969	0.480043	0.99537
0.550000	-0.862496	0.474373	0.99277
0.560000	-0.836501	0.468441	0.98958
0.570000	-0.810966	0.462251	0.98581
0.580000	-0.785875	0.455808	0.98145
0.590000	-0.761213	0.449116	0.97650
0.600000	-0.736966	0.442179	0.97095
0.610000	-0.713119	0.435002	0.96480
0.620000	-0.689660	0.427589	0.95804
0.630000	-0.666576	0.419943	0.95067
0.640000	-0.643856	0.412068	0.94268
0.650000	-0.621488	0.403967	0.93406
0.660000	-0.599462	0.395645	0.92481
0.670000	-0.577767	0.387104	0.91492

0.680000	-0.556393	0.378347	0.90438
0.690000	-0.535332	0.369379	0.89317
0.700000	-0.514573	0.360201	0.88129
0.710000	-0.494109	0.350817	0.86872
0.720000	-0.473931	0.341230	0.85545
0.730000	-0.454032	0.331443	0.84146
0.740000	-0.434403	0.321458	0.82674
0.750000	-0.415037	0.311278	0.81127
0.760000	-0.395929	0.300906	0.79504
0.770000	-0.377070	0.290344	0.77801
0.780000	-0.358454	0.279594	0.76016
0.790000	-0.340075	0.268660	0.74148
0.800000	-0.321928	0.257542	0.72192
0.810000	-0.304006	0.246245	0.70147
0.820000	-0.286304	0.234769	0.68007
0.830000	-0.268817	0.223118	0.65770
0.840000	-0.251539	0.211293	0.63431
0.850000	-0.234465	0.199295	0.60984
0.860000	-0.217591	0.187129	0.58423
0.870000	-0.200913	0.174794	0.55743
0.880000	-0.184425	0.162294	0.52936
0.890000	-0.168123	0.149629	0.49991
0.900000	-0.152003	0.136803	0.46899
0.910000	-0.136062	0.123816	0.43647
0.920000	-0.120294	0.110671	0.40217
0.930000	-0.104697	0.097369	0.36592
0.940000	-0.089267	0.083911	0.32744
0.950000	-0.074001	0.070301	0.28639
0.960000	-0.058894	0.056538	0.24229
0.970000	-0.043943	0.042625	0.19439
0.980000	-0.029146	0.028563	0.14144
0.990000	-0.014500	0.014355	0.08079