

Table 9.12 KELVIN FUNCTIONS—ORDERS 0 AND 1

x	$\text{ber } x$	$\text{bei } x$	$\text{ber}_1 x$	$\text{bei}_1 x$
0.0	1.00000 00000	0.00000 00000	0.00000 00000	0.00000 00000
0.1	0.99999 84375	0.00249 99996	-0.03539 95148	0.03531 11265
0.2	0.99997 50000	0.00999 99722	-0.07106 36418	0.07035 65360
0.3	0.99987 34379	0.02249 96836	-0.10725 47768	0.10486 83082
0.4	0.99960 00044	0.03999 82222	-0.14423 08645	0.13857 41359
0.5	0.99902 34640	0.06249 32184	-0.18224 31238	0.17119 51797
0.6	0.99797 51139	0.08997 97504	-0.22153 37177	0.20244 39824
0.7	0.99624 88284	0.12244 89390	-0.26233 33470	0.23202 24623
0.8	0.99360 11377	0.15988 62295	-0.30485 87511	0.25962 00070
0.9	0.98975 13567	0.20226 93635	-0.34931 01000	0.28491 16898
1.0	0.98438 17812	0.24956 60400	-0.39586 82610	0.30755 66314
1.1	0.97713 79732	0.30173 12692	-0.44469 19268	0.32719 65305
1.2	0.96762 91558	0.35870 44199	-0.49591 45913	0.34345 43903
1.3	0.95542 87468	0.42040 59656	-0.54964 13636	0.35593 34649
1.4	0.94007 50567	0.48673 39336	-0.60594 56099	0.36421 64560
1.5	0.92107 21835	0.55756 00623	-0.66486 54180	0.36786 49890
1.6	0.89789 11386	0.63272 56770	-0.72639 98786	0.36641 93986
1.7	0.86997 12370	0.71203 72924	-0.79050 51846	0.35939 88584
1.8	0.83672 17942	0.79526 19548	-0.85709 05470	0.34630 18876
1.9	0.79752 41670	0.88212 23406	-0.92601 39357	0.32660 72722
2.0	0.75173 41827	0.97229 16273	-0.99707 76519	0.29977 54370
2.1	0.69868 50014	1.06538 81608	-1.07002 37462	0.26525 03092
2.2	0.63769 04571	1.16096 99438	-1.14452 92997	0.22246 17120
2.3	0.56804 89261	1.25852 89751	-1.22020 15903	0.17082 83322
2.4	0.48904 77721	1.35748 54765	-1.29657 31717	0.10976 13027
2.5	0.39996 84171	1.45718 20442	-1.37309 68976	+0.03866 84440
2.6	0.30009 20903	1.55687 77737	-1.44914 09315	-0.04304 07916
2.7	0.18870 63040	1.65574 24073	-1.52398 37854	-0.13594 96285
2.8	+0.06511 21084	1.75285 05638	-1.59680 94413	-0.24062 74875
2.9	-0.07136 78258	1.84717 61157	-1.66670 26139	-0.35762 26713
3.0	-0.22138 02496	1.93758 67853	-1.73264 42211	-0.48745 41770
3.1	-0.38553 14550	2.02283 90420	-1.79350 71373	-0.63060 25952
3.2	-0.56437 64305	2.10157 33881	-1.84805 23125	-0.78750 00586
3.3	-0.75840 70121	2.17231 01315	-1.89492 53482	-0.95851 92089
3.4	-0.96803 89953	2.23344 57503	-1.93265 36306	-1.14396 11510
3.5	-1.19359 81796	2.28324 99669	-1.95964 41313	-1.34404 23731
3.6	-1.43530 53217	2.31986 36548	-1.97418 19924	-1.55888 06139
3.7	-1.69325 99843	2.34129 77145	-1.97443 00262	-1.78847 96677
3.8	-1.96742 32727	2.34543 30614	-1.95842 92665	-2.03271 31257
3.9	-2.25759 94661	2.33002 18823	-1.92410 07174	-2.29130 70630
4.0	-2.56341 65573	2.29269 03227	-1.86924 84590	-2.56382 16886
4.1	-2.88430 57320	2.23094 27803	-1.79156 42730	-2.84963 19932
4.2	-3.21947 98323	2.14216 79867	-1.68863 39648	-3.14790 74393
4.3	-3.56791 08628	2.02364 70694	-1.55794 55649	-3.45759 07560
4.4	-3.92830 66215	1.87256 37958	-1.39689 95997	-3.77737 59182
4.5	-4.29908 65516	1.68601 72036	-1.20282 16315	-4.10568 54084
4.6	-4.67835 69372	1.46103 68359	-0.97297 72697	-4.44064 68813
4.7	-5.06388 55867	1.19460 07968	-0.70458 98649	-4.78006 93721
4.8	-5.45307 61749	0.88365 68537	-0.39486 10961	-5.12141 92170
4.9	-5.84294 24419	0.52514 68109	-0.04099 46681	-5.46179 58790

KELVIN FUNCTIONS—AUXILIARY TABLE FOR SMALL ARGUMENTS

x	$\text{ker } x + \text{ber } x \ln x$	$\text{kei } x + \text{bei } x \ln x$	$x(\text{ker}_1 x + \text{ber}_1 x \ln x)$	$x(\text{kei}_1 x + \text{bei}_1 x \ln x)$
0.0	0.11593 1516	-0.78539 8163	-0.70710 6781	-0.70710 6781
0.1	0.11789 2485	-0.78260 7108	-0.70651 7131	-0.70215 4903
0.2	0.12374 5076	-0.77421 9267	-0.70486 2164	-0.68733 0339
0.3	0.13339 8210	-0.76019 0919	-0.70248 3157	-0.66272 8003
0.4	0.14669 9682	-0.74045 0212	-0.69994 6658	-0.62851 1738
0.5	0.16343 5574	-0.71489 8693	-0.69804 1049	-0.58492 2770

Compiled from National Bureau of Standards, Tables of the Bessel functions $J_0(z)$ and $J_1(z)$ for complex arguments, 2d ed. (Columbia Univ. Press, New York, N.Y., 1947) and National Bureau of Standards, Tables of the Bessel functions $Y_0(z)$ and $Y_1(z)$ for complex arguments (Columbia Univ. Press, New York, N.Y., 1950) (with permission).