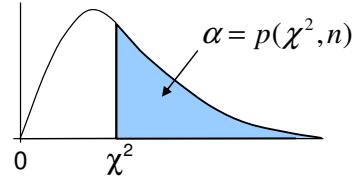


$$\alpha = p(\chi^2, n) = \int_{\chi^2}^{\infty} \frac{1}{2\Gamma(n/2)} \left(\frac{\chi^2}{2}\right)^{\frac{n}{2}-1} e^{-\frac{\chi^2}{2}} d\chi^2$$



| α n | 0,995 | 0,990 | 0,975 | 0,950 | 0,900 | 0,750 | 0,500 | 0,250 | 0,100 | 0,050 | 0,025 | 0,010 | 0,005 | α n |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------|
| 1 | 0,00004 | 0,00016 | 0,00098 | 0,00393 | 0,01579 | 0,10153 | 0,45494 | 1,32330 | 2,70554 | 3,84146 | 5,02389 | 6,63490 | 7,87944 | 1 |
| 2 | 0,01003 | 0,02010 | 0,05064 | 0,10259 | 0,21072 | 0,57536 | 1,38629 | 2,77259 | 4,60517 | 5,99146 | 7,37776 | 9,21034 | 10,5966 | 2 |
| 3 | 0,07172 | 0,11483 | 0,21579 | 0,35185 | 0,58438 | 1,21253 | 2,36597 | 4,10835 | 6,25139 | 7,81473 | 9,34840 | 11,3449 | 12,8382 | 3 |
| 4 | 0,20699 | 0,29711 | 0,48442 | 0,71072 | 1,06362 | 1,92256 | 3,35669 | 5,38527 | 7,77944 | 9,48773 | 11,1433 | 13,2767 | 14,8603 | 4 |
| 5 | 0,41174 | 0,55430 | 0,83122 | 1,14548 | 1,61031 | 2,67460 | 4,35146 | 6,62568 | 9,23636 | 11,0705 | 12,8325 | 15,0863 | 16,7496 | 5 |
| 6 | 0,67573 | 0,87209 | 1,23734 | 1,63538 | 2,20413 | 3,45460 | 5,34812 | 7,84080 | 10,6446 | 12,5916 | 14,4494 | 16,8119 | 18,5476 | 6 |
| 7 | 0,98926 | 1,23904 | 1,68986 | 2,16735 | 2,83311 | 4,25485 | 6,34581 | 9,03715 | 12,0170 | 14,0671 | 16,0128 | 18,4753 | 20,2777 | 7 |
| 8 | 1,34441 | 1,64650 | 2,17973 | 2,73264 | 3,48954 | 5,07064 | 7,34412 | 10,2189 | 13,3616 | 15,5073 | 17,5345 | 20,0902 | 21,9550 | 8 |
| 9 | 1,73491 | 2,08789 | 2,70039 | 3,32512 | 4,16816 | 5,89883 | 8,34283 | 11,3888 | 14,6837 | 16,9190 | 19,0228 | 21,6660 | 23,5894 | 9 |
| 10 | 2,15586 | 2,55821 | 3,24697 | 3,94030 | 4,86518 | 6,73720 | 9,34182 | 12,5489 | 15,9872 | 18,3070 | 20,4832 | 23,2093 | 25,1882 | 10 |
| 11 | 2,60321 | 3,05349 | 3,81575 | 4,57481 | 5,57778 | 7,58414 | 10,3410 | 13,7007 | 17,2750 | 19,6751 | 21,9200 | 24,7250 | 26,7568 | 11 |
| 12 | 3,07382 | 3,57057 | 4,40379 | 5,22603 | 6,30380 | 8,43842 | 11,3403 | 14,8454 | 18,5493 | 21,0261 | 23,3367 | 26,2170 | 28,2995 | 12 |
| 13 | 3,56507 | 4,10692 | 5,00875 | 5,89186 | 7,04150 | 9,29907 | 12,3398 | 15,9839 | 19,8119 | 22,3620 | 24,7356 | 27,6882 | 29,8195 | 13 |
| 14 | 4,07467 | 4,66043 | 5,62873 | 6,57063 | 7,78953 | 10,1653 | 13,3393 | 17,1169 | 21,0641 | 23,6848 | 26,1189 | 29,1412 | 31,3193 | 14 |
| 15 | 4,60092 | 5,22935 | 6,26214 | 7,26094 | 8,54676 | 11,0365 | 14,3389 | 18,2451 | 22,3071 | 24,9958 | 27,4884 | 30,5779 | 32,8013 | 15 |
| 16 | 5,14221 | 5,81221 | 6,90766 | 7,96165 | 9,31224 | 11,9122 | 15,3385 | 19,3689 | 23,5418 | 26,2962 | 28,8454 | 31,9999 | 34,2672 | 16 |
| 17 | 5,69722 | 6,40776 | 7,56419 | 8,67176 | 10,0852 | 12,7919 | 16,3382 | 20,4887 | 24,7690 | 27,5871 | 30,1910 | 33,4087 | 35,7185 | 17 |
| 18 | 6,26480 | 7,01491 | 8,23075 | 9,39046 | 10,8649 | 13,6753 | 17,3379 | 21,6049 | 25,9894 | 28,8693 | 31,5264 | 34,8053 | 37,1565 | 18 |
| 19 | 6,84397 | 7,63273 | 8,90652 | 10,1170 | 11,6509 | 14,5620 | 18,3377 | 22,7178 | 27,2036 | 30,1435 | 32,8523 | 36,1909 | 38,5823 | 19 |
| 20 | 7,43384 | 8,26040 | 9,59078 | 10,8508 | 12,4426 | 15,4518 | 19,3374 | 23,8277 | 28,4120 | 31,4104 | 34,1696 | 37,5662 | 39,9968 | 20 |
| 21 | 8,03365 | 8,89720 | 10,2829 | 11,5913 | 13,2396 | 16,3444 | 20,3372 | 24,9348 | 29,6151 | 32,6706 | 35,4789 | 38,9322 | 41,4011 | 21 |
| 22 | 8,64272 | 9,54249 | 10,9823 | 12,3380 | 14,0415 | 17,2396 | 21,3370 | 26,0393 | 30,8133 | 33,9244 | 36,7807 | 40,2894 | 42,7957 | 22 |
| 23 | 9,26042 | 10,1957 | 11,6886 | 13,0905 | 14,8480 | 18,1373 | 22,3369 | 27,1413 | 32,0069 | 35,1725 | 38,0756 | 41,6384 | 44,1813 | 23 |
| 24 | 9,88623 | 10,8564 | 12,4012 | 13,8484 | 15,6587 | 19,0373 | 23,3367 | 28,2412 | 33,1962 | 36,4150 | 39,3641 | 42,9798 | 45,5585 | 24 |
| 25 | 10,5197 | 11,5240 | 13,1197 | 14,6114 | 16,4734 | 19,9393 | 24,3366 | 29,3389 | 34,3816 | 37,6525 | 40,6465 | 44,3141 | 46,9279 | 25 |
| 26 | 11,1602 | 12,1981 | 13,8439 | 15,3792 | 17,2919 | 20,8434 | 25,3365 | 30,4346 | 35,5632 | 38,8851 | 41,9232 | 45,6417 | 48,2899 | 26 |
| 27 | 11,8076 | 12,8785 | 14,5734 | 16,1514 | 18,1139 | 21,7494 | 26,3363 | 31,5284 | 36,7412 | 40,1133 | 43,1945 | 46,9629 | 49,6449 | 27 |
| 28 | 12,4613 | 13,5647 | 15,3079 | 16,9279 | 18,9392 | 22,6572 | 27,3362 | 32,6205 | 37,9159 | 41,3371 | 44,4608 | 48,2782 | 50,9934 | 28 |
| 29 | 13,1211 | 14,2565 | 16,0471 | 17,7084 | 19,7677 | 23,5666 | 28,3361 | 33,7109 | 39,0875 | 42,5570 | 45,7223 | 49,5879 | 52,3356 | 29 |
| 30 | 13,7867 | 14,9535 | 16,7908 | 18,4927 | 20,5992 | 24,4776 | 29,3360 | 34,7997 | 40,2560 | 43,7730 | 46,9792 | 50,8922 | 53,6720 | 30 |
| 32 | 15,1340 | 16,3622 | 18,2908 | 20,0719 | 22,2706 | 26,3041 | 31,3359 | 36,9730 | 42,5847 | 46,1943 | 49,4804 | 53,4858 | 56,3281 | 32 |
| 34 | 16,5013 | 17,7891 | 19,8063 | 21,6643 | 23,9523 | 28,1361 | 33,3357 | 39,1408 | 44,9032 | 48,6024 | 51,9660 | 56,0609 | 58,9639 | 34 |
| 36 | 17,8867 | 19,2327 | 21,3359 | 23,2686 | 25,6433 | 29,9730 | 35,3356 | 41,3036 | 47,2122 | 50,9985 | 54,4373 | 58,6192 | 61,5812 | 36 |
| 38 | 19,2889 | 20,6914 | 22,8785 | 24,8839 | 27,3430 | 31,8146 | 37,3355 | 43,4619 | 49,5126 | 53,3835 | 56,8955 | 61,1621 | 64,1814 | 38 |
| 40 | 20,7065 | 22,1643 | 24,4330 | 26,5093 | 29,0505 | 33,6603 | 39,3353 | 45,6160 | 51,8051 | 55,7585 | 59,3417 | 63,6907 | 66,7660 | 40 |
| 42 | 22,1385 | 23,6501 | 25,9987 | 28,1440 | 30,7654 | 35,5099 | 41,3352 | 47,7663 | 54,0902 | 58,1240 | 61,7768 | 66,2062 | 69,3360 | 42 |
| 44 | 23,5837 | 25,1480 | 27,5746 | 29,7875 | 32,4871 | 37,3631 | 43,3352 | 49,9129 | 56,3685 | 60,4809 | 64,2015 | 68,7095 | 71,8926 | 44 |
| 46 | 25,0413 | 26,6572 | 29,1601 | 31,4390 | 34,2152 | 39,2197 | 45,3351 | 52,0562 | 58,6405 | 62,8296 | 66,6165 | 71,2014 | 74,4365 | 46 |
| 48 | 26,5106 | 28,1770 | 30,7545 | 33,0981 | 35,9491 | 41,0794 | 47,3350 | 54,1964 | 60,9066 | 65,1708 | 69,0226 | 73,6826 | 76,9688 | 48 |
| 50 | 27,9907 | 29,7067 | 32,3574 | 34,7643 | 37,6886 | 42,9421 | 49,3349 | 56,3336 | 63,1671 | 67,5048 | 71,4202 | 76,1539 | 79,4900 | 50 |
| 55 | 31,7348 | 33,5705 | 36,3981 | 38,9580 | 42,0596 | 47,6105 | 54,3348 | 61,6650 | 68,7962 | 73,3115 | 77,3805 | 82,2921 | 85,7490 | 55 |
| 60 | 35,5345 | 37,4849 | 40,4817 | 43,1880 | 46,4589 | 52,2938 | 59,3347 | 66,9815 | 74,3970 | 79,0819 | 83,2977 | 88,3794 | 91,9517 | 60 |
| 65 | 39,3831 | 41,4436 | 44,6030 | 47,4496 | 50,8829 | 56,9903 | 64,3346 | 72,2848 | 79,9730 | 84,8206 | 89,1771 | 94,4221 | 98,1051 | 65 |
| 70 | 43,2752 | 45,4417 | 48,7576 | 51,7393 | 55,3289 | 61,6983 | 69,3345 | 77,5767 | 85,5270 | 90,5312 | 95,0232 | 100,425 | 104,215 | 70 |
| 75 | 47,2060 | 49,4750 | 52,9419 | 56,0541 | 59,7946 | 66,4168 | 74,3344 | 82,8581 | 91,0615 | 96,2167 | 100,839 | 106,393 | 110,286 | 75 |
| 80 | 51,1719 | 53,5401 | 57,1532 | 60,3915 | 64,2778 | 71,1445 | 79,3343 | 88,1303 | 96,5782 | 101,879 | 106,629 | 112,329 | 116,321 | 80 |
| 85 | 55,1696 | 57,6339 | 61,3888 | 64,7494 | 68,7772 | 75,8807 | 84,3343 | 93,3939 | 102,079 | 107,522 | 112,393 | 118,236 | 122,325 | 85 |
| 90 | 59,1963 | 61,7541 | 65,6466 | 69,1260 | 73,2911 | 80,6247 | 89,3342 | 98,6499 | 107,565 | 113,145 | 118,136 | 124,116 | 128,299 | 90 |
| 95 | 63,2496 | 65,8984 | 69,9249 | 73,5198 | 77,8184 | 85,3757 | 94,3342 | 103,899 | 113,038 | 118,752 | 123,858 | 129,973 | 134,247 | 95 |
| 100 | 67,3276 | 70,0649 | 74,2219 | 77,9295 | 82,3581 | 90,1332 | 99,3341 | 109,141 | 118,498 | 124,342 | 129,561 | 135,807 | 140,169 | 100 |
| 110 | 75,5268 | 78,4435 | 82,8616 | 86,7916 | 91,4746 | 99,6704 | 109,335 | 119,604 | 129,380 | 135,478 | 140,919 | 147,427 | 151,971 | 110 |
| 120 | 83,8293 | 86,9091 | 91,5675 | 95,7047 | 100,627 | 109,224 | 119,335 | 130,051 | 140,228 | 146,565 | 152,214 | 158,962 | 163,670 | 120 |
| 130 | 92,2010 | 95,4375 | 100,326 | 104,662 | 109,814 | 118,796 | 129,334 | 140,479 | 151,041 | 157,608 | 163,456 | 170,435 | 175,299 | 130 |
| 140 | 100,634 | 104,021 | 109,132 | 113,659 | 119,033 | 128,384 | 139,334 | 150,890 | 161,823 | 168,611 | 174,650 | 181,852 | 186,867 | 140 |
| 150 | 109,122 | 112,655 | 117,980 | 122,692 | 128,278 | 137,987 | 149,334 | 161,288 | 172,577 | 179,579 | 185,803 | 193,219 | 198,380 | 150 |
| 160 | 117,660 | 121,333 | 126,866 | 131,756 | 137,549 | 147,602 | 159,334 | 171,672 | 183,307 | 190,515 | 196,918 | 204,541 | 209,843 | 160 |
| 170 | 126,243 | 130,053 | 135,786 | 140,849 | 146,842 | 157,230 | 169,334 | 182,044 | 194,013 | 201,422 | 207,998 | 215,822 | 221,261 | 170 |
| 180 | 134,866 | 138,809 | 144,737 | 149,969 | 156,156 | 166,869 | 179,334 | 192,405 | 204,700 | 212,302 | 219,047 | 227,066 | 232,638 | 180 |
| 190 | 143,528 | 147,599 | 153,717 | 159,113 | 165,488 | 176,517 | 189,334 | 202,757 | 215,367 | 223,159 | 230,067 | 238,276 | 243,977 | 190 |
| 200 | 152,224 | 156,421 | 162,724 | 168,279 | 174,838 | 186,175 | 199,334 | 213,099 | 226,017 | 233,993 | 241,060 | 249,455 | 255,281 | 200 |
| n α | 0,995 | 0,990 | 0,975 | 0,950 | 0,900 | 0,750 | 0,500 | 0,250 | 0,100 | 0,050 | 0,025 | 0,010 | 0,005 | α n |