



Tabela 1 Tabela de qui-quadrado considerando  $P(\chi^2 > \chi^2_\alpha)$

| v  | 0.25    | 0.2     | 0.15    | 0.1     | 0.05    | 0.025   | 0.01    | 0.005   | 0.001   |
|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1  | 1.3233  | 1.6424  | 2.0723  | 2.7055  | 3.8415  | 5.0239  | 6.6349  | 7.8794  | 10.8276 |
| 2  | 2.7726  | 3.2189  | 3.7942  | 4.6052  | 5.9915  | 7.3778  | 9.2103  | 10.5966 | 13.8155 |
| 3  | 4.1083  | 4.6416  | 5.3170  | 6.2514  | 7.8147  | 9.3484  | 11.3449 | 12.8382 | 16.2662 |
| 4  | 5.3853  | 5.9886  | 6.7449  | 7.7794  | 9.4877  | 11.1433 | 13.2767 | 14.8603 | 18.4668 |
| 5  | 6.6257  | 7.2893  | 8.1152  | 9.2364  | 11.0705 | 12.8325 | 15.0863 | 16.7496 | 20.5150 |
| 6  | 7.8408  | 8.5581  | 9.4461  | 10.6446 | 12.5916 | 14.4494 | 16.8119 | 18.5476 | 22.4577 |
| 7  | 9.0371  | 9.8032  | 10.7479 | 12.0170 | 14.0671 | 16.0128 | 18.4753 | 20.2777 | 24.3219 |
| 8  | 10.2189 | 11.0301 | 12.0271 | 13.3616 | 15.5073 | 17.5345 | 20.0902 | 21.9550 | 26.1245 |
| 9  | 11.3888 | 12.2421 | 13.2880 | 14.6837 | 16.9190 | 19.0228 | 21.6660 | 23.5894 | 27.8772 |
| 10 | 12.5489 | 13.4420 | 14.5339 | 15.9872 | 18.3070 | 20.4832 | 23.2093 | 25.1882 | 29.5883 |
| 11 | 13.7007 | 14.6314 | 15.7671 | 17.2750 | 19.6751 | 21.9200 | 24.7250 | 26.7568 | 31.2641 |
| 12 | 14.8454 | 15.8120 | 16.9893 | 18.5493 | 21.0261 | 23.3367 | 26.2170 | 28.2995 | 32.9095 |
| 13 | 15.9839 | 16.9848 | 18.2020 | 19.8119 | 22.3620 | 24.7356 | 27.6882 | 29.8195 | 34.5282 |
| 14 | 17.1169 | 18.1508 | 19.4062 | 21.0641 | 23.6848 | 26.1189 | 29.1412 | 31.3193 | 36.1233 |
| 15 | 18.2451 | 19.3107 | 20.6030 | 22.3071 | 24.9958 | 27.4884 | 30.5779 | 32.8013 | 37.6973 |
| 16 | 19.3689 | 20.4651 | 21.7931 | 23.5418 | 26.2962 | 28.8454 | 31.9999 | 34.2672 | 39.2524 |
| 17 | 20.4887 | 21.6146 | 22.9770 | 24.7690 | 27.5871 | 30.1910 | 33.4087 | 35.7185 | 40.7902 |
| 18 | 21.6049 | 22.7595 | 24.1555 | 25.9894 | 28.8693 | 31.5264 | 34.8053 | 37.1565 | 42.3124 |
| 19 | 22.7178 | 23.9004 | 25.3289 | 27.2036 | 30.1435 | 32.8523 | 36.1909 | 38.5823 | 43.8202 |
| 20 | 23.8277 | 25.0375 | 26.4976 | 28.4120 | 31.4104 | 34.1696 | 37.5662 | 39.9968 | 45.3147 |
| 21 | 24.9348 | 26.1711 | 27.6620 | 29.6151 | 32.6706 | 35.4789 | 38.9322 | 41.4011 | 46.7970 |
| 22 | 26.0393 | 27.3015 | 28.8225 | 30.8133 | 33.9244 | 36.7807 | 40.2894 | 42.7957 | 48.2679 |
| 23 | 27.1413 | 28.4288 | 29.9792 | 32.0069 | 35.1725 | 38.0756 | 41.6384 | 44.1813 | 49.7282 |
| 24 | 28.2412 | 29.5533 | 31.1325 | 33.1962 | 36.4150 | 39.3641 | 42.9798 | 45.5585 | 51.1786 |
| 25 | 29.3389 | 30.6752 | 32.2825 | 34.3816 | 37.6525 | 40.6465 | 44.3141 | 46.9279 | 52.6197 |
| 26 | 30.4346 | 31.7946 | 33.4295 | 35.5632 | 38.8851 | 41.9232 | 45.6417 | 48.2899 | 54.0520 |
| 27 | 31.5284 | 32.9117 | 34.5736 | 36.7412 | 40.1133 | 43.1945 | 46.9629 | 49.6449 | 55.4760 |
| 28 | 32.6205 | 34.0266 | 35.7150 | 37.9159 | 41.3371 | 44.4608 | 48.2782 | 50.9934 | 56.8923 |
| 29 | 33.7109 | 35.1394 | 36.8538 | 39.0875 | 42.5570 | 45.7223 | 49.5879 | 52.3356 | 58.3012 |
| 30 | 34.7997 | 36.2502 | 37.9903 | 40.2560 | 43.7730 | 46.9792 | 50.8922 | 53.6720 | 59.7031 |
| 31 | 35.8871 | 37.3591 | 39.1244 | 41.4217 | 44.9853 | 48.2319 | 52.1914 | 55.0027 | 61.0983 |
| 32 | 36.9730 | 38.4663 | 40.2563 | 42.5847 | 46.1943 | 49.4804 | 53.4858 | 56.3281 | 62.4872 |
| 33 | 38.0575 | 39.5718 | 41.3861 | 43.7452 | 47.3999 | 50.7251 | 54.7755 | 57.6484 | 63.8701 |
| 34 | 39.1408 | 40.6756 | 42.5140 | 44.9032 | 48.6024 | 51.9660 | 56.0609 | 58.9639 | 65.2472 |
| 35 | 40.2228 | 41.7780 | 43.6399 | 46.0588 | 49.8018 | 53.2033 | 57.3421 | 60.2748 | 66.6188 |
| 36 | 41.3036 | 42.8788 | 44.7641 | 47.2122 | 50.9985 | 54.4373 | 58.6192 | 61.5812 | 67.9852 |
| 37 | 42.3833 | 43.9782 | 45.8865 | 48.3634 | 52.1923 | 55.6680 | 59.8925 | 62.8833 | 69.3465 |
| 38 | 43.4619 | 45.0763 | 47.0072 | 49.5126 | 53.3835 | 56.8955 | 61.1621 | 64.1814 | 70.7029 |
| 39 | 44.5395 | 46.1730 | 48.1263 | 50.6598 | 54.5722 | 58.1201 | 62.4281 | 65.4756 | 72.0547 |
| 40 | 45.6160 | 47.2685 | 49.2439 | 51.8051 | 55.7585 | 59.3417 | 63.6907 | 66.7660 | 73.4020 |