# STATISTICAL TABLES

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# Contents

# 1 Normal Distribution
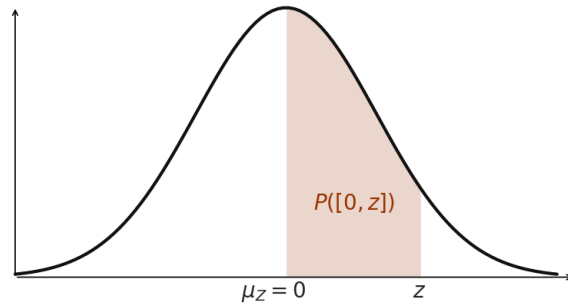


| z | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 |
|---|------|------|------|------|------|------|------|------|------|------|
| 0 | 0 | 0.004 | 0.008 | 0.012 | 0.016 | 0.0199 | 0.0239 | 0.0279 | 0.0319 | 0.0359 |
| 0.1 | 0.0398 | 0.0438 | 0.0478 | 0.0517 | 0.0557 | 0.0596 | 0.0636 | 0.0675 | 0.0714 | 0.0753 |
| 0.2 | 0.0793 | 0.0832 | 0.0871 | 0.091 | 0.0948 | 0.0987 | 0.1026 | 0.1064 | 0.1103 | 0.1141 |
| 0.3 | 0.1179 | 0.1217 | 0.1255 | 0.1293 | 0.1331 | 0.1368 | 0.1406 | 0.1443 | 0.148 | 0.1517 |
| 0.4 | 0.1554 | 0.1591 | 0.1628 | 0.1664 | 0.17 | 0.1736 | 0.1772 | 0.1808 | 0.1844 | 0.1879 |
| 0.5 | 0.1915 | 0.195 | 0.1985 | 0.2019 | 0.2054 | 0.2088 | 0.2123 | 0.2157 | 0.219 | 0.2224 |
| 0.6 | 0.2257 | 0.2291 | 0.2324 | 0.2357 | 0.2389 | 0.2422 | 0.2454 | 0.2486 | 0.2517 | 0.2549 |
| 0.7 | 0.258 | 0.2611 | 0.2642 | 0.2673 | 0.2704 | 0.2734 | 0.2764 | 0.2794 | 0.2823 | 0.2852 |
| 0.8 | 0.2881 | 0.291 | 0.2939 | 0.2967 | 0.2995 | 0.3023 | 0.3051 | 0.3078 | 0.3106 | 0.3133 |
| 0.9 | 0.3159 | 0.3186 | 0.3212 | 0.3238 | 0.3264 | 0.3289 | 0.3315 | 0.334 | 0.3365 | 0.3389 |
| | | | | | | | | | | |
| 1 | 0.3413 | 0.3438 | 0.3461 | 0.3485 | 0.3508 | 0.3531 | 0.3554 | 0.3577 | 0.3599 | 0.3621 |
| 1.1 | 0.3643 | 0.3665 | 0.3686 | 0.3708 | 0.3729 | 0.3749 | 0.377 | 0.379 | 0.381 | 0.383 |
| 1.2 | 0.3849 | 0.3869 | 0.3888 | 0.3907 | 0.3925 | 0.3944 | 0.3962 | 0.398 | 0.3997 | 0.4015 |
| 1.3 | 0.4032 | 0.4049 | 0.4066 | 0.4082 | 0.4099 | 0.4115 | 0.4131 | 0.4147 | 0.4162 | 0.4177 |
| 1.4 | 0.4192 | 0.4207 | 0.4222 | 0.4236 | 0.4251 | 0.4265 | 0.4279 | 0.4292 | 0.4306 | 0.4319 |
| 1.5 | 0.4332 | 0.4345 | 0.4357 | 0.437 | 0.4382 | 0.4394 | 0.4406 | 0.4418 | 0.4429 | 0.4441 |
| 1.6 | 0.4452 | 0.4463 | 0.4474 | 0.4484 | 0.4495 | 0.4505 | 0.4515 | 0.4525 | 0.4535 | 0.4545 |
| 1.7 | 0.4554 | 0.4564 | 0.4573 | 0.4582 | 0.4591 | 0.4599 | 0.4608 | 0.4616 | 0.4625 | 0.4633 |
| 1.8 | 0.4641 | 0.4649 | 0.4656 | 0.4664 | 0.4671 | 0.4678 | 0.4686 | 0.4693 | 0.4699 | 0.4706 |
| 1.9 | 0.4713 | 0.4719 | 0.4726 | 0.4732 | 0.4738 | 0.4744 | 0.475 | 0.4756 | 0.4761 | 0.4767 |
| | | | | | | | | | | |
| 2 | 0.4772 | 0.4778 | 0.4783 | 0.4788 | 0.4793 | 0.4798 | 0.4803 | 0.4808 | 0.4812 | 0.4817 |
| 2.1 | 0.4821 | 0.4826 | 0.483 | 0.4834 | 0.4838 | 0.4842 | 0.4846 | 0.485 | 0.4854 | 0.4857 |
| 2.2 | 0.4861 | 0.4864 | 0.4868 | 0.4871 | 0.4875 | 0.4878 | 0.4881 | 0.4884 | 0.4887 | 0.489 |
| 2.3 | 0.4893 | 0.4896 | 0.4898 | 0.4901 | 0.4904 | 0.4906 | 0.4909 | 0.4911 | 0.4913 | 0.4916 |
| 2.4 | 0.4918 | 0.492 | 0.4922 | 0.4925 | 0.4927 | 0.4929 | 0.4931 | 0.4932 | 0.4934 | 0.4936 |
| 2.5 | 0.4938 | 0.494 | 0.4941 | 0.4943 | 0.4945 | 0.4946 | 0.4948 | 0.4949 | 0.4951 | 0.4952 |
| 2.6 | 0.4953 | 0.4955 | 0.4956 | 0.4957 | 0.4959 | 0.496 | 0.4961 | 0.4962 | 0.4963 | 0.4964 |
| 2.7 | 0.4965 | 0.4966 | 0.4967 | 0.4968 | 0.4969 | 0.497 | 0.4971 | 0.4972 | 0.4973 | 0.4974 |
| 2.8 | 0.4974 | 0.4975 | 0.4976 | 0.4977 | 0.4977 | 0.4978 | 0.4979 | 0.4979 | 0.498 | 0.4981 |
| 2.9 | 0.4981 | 0.4982 | 0.4982 | 0.4983 | 0.4984 | 0.4984 | 0.4985 | 0.4985 | 0.4986 | 0.4986 |
| | | | | | | | | | | |
| 3 | 0.4987 | 0.4987 | 0.4987 | 0.4988 | 0.4988 | 0.4989 | 0.4989 | 0.4989 | 0.499 | 0.499 |

# 2 T-Values
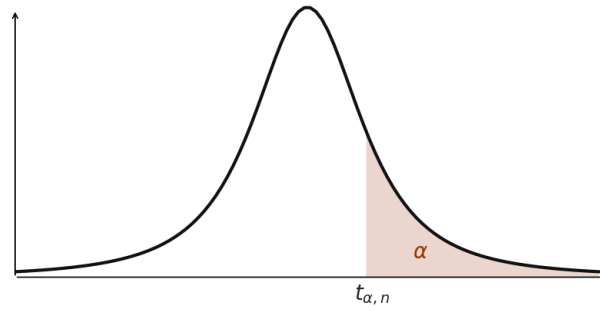


<table>
<tr><th></th><th colspan="6">α</th></tr>
<tr><th>dof</th><th>0.1</th><th>0.05</th><th>0.025</th><th>0.01</th><th>0.005</th><th>0.001</th></tr>
<tr><td>1</td><td>3.0777</td><td>6.3138</td><td>12.7062</td><td>31.8205</td><td>63.6567</td><td>318.3088</td></tr>
<tr><td>2</td><td>1.8856</td><td>2.92</td><td>4.3027</td><td>6.9646</td><td>9.9248</td><td>22.3271</td></tr>
<tr><td>3</td><td>1.6377</td><td>2.3534</td><td>3.1824</td><td>4.5407</td><td>5.8409</td><td>10.2145</td></tr>
<tr><td>4</td><td>1.5332</td><td>2.1318</td><td>2.7764</td><td>3.7469</td><td>4.6041</td><td>7.1732</td></tr>
<tr><td>5</td><td>1.4759</td><td>2.015</td><td>2.5706</td><td>3.3649</td><td>4.0321</td><td>5.8934</td></tr>
<tr><td>6</td><td>1.4398</td><td>1.9432</td><td>2.4469</td><td>3.1427</td><td>3.7074</td><td>5.2076</td></tr>
<tr><td>7</td><td>1.4149</td><td>1.8946</td><td>2.3646</td><td>2.998</td><td>3.4995</td><td>4.7853</td></tr>
<tr><td>8</td><td>1.3968</td><td>1.8595</td><td>2.306</td><td>2.8965</td><td>3.3554</td><td>4.5008</td></tr>
<tr><td>9</td><td>1.383</td><td>1.8331</td><td>2.2622</td><td>2.8214</td><td>3.2498</td><td>4.2968</td></tr>
<tr><td>10</td><td>1.3722</td><td>1.8125</td><td>2.2281</td><td>2.7638</td><td>3.1693</td><td>4.1437</td></tr>
<tr><td>11</td><td>1.3634</td><td>1.7959</td><td>2.201</td><td>2.7181</td><td>3.1058</td><td>4.0247</td></tr>
<tr><td>12</td><td>1.3562</td><td>1.7823</td><td>2.1788</td><td>2.681</td><td>3.0545</td><td>3.9296</td></tr>
<tr><td>13</td><td>1.3502</td><td>1.7709</td><td>2.1604</td><td>2.6503</td><td>3.0123</td><td>3.852</td></tr>
<tr><td>14</td><td>1.345</td><td>1.7613</td><td>2.1448</td><td>2.6245</td><td>2.9768</td><td>3.7874</td></tr>
<tr><td>15</td><td>1.3406</td><td>1.7531</td><td>2.1314</td><td>2.6025</td><td>2.9467</td><td>3.7328</td></tr>
<tr><td>16</td><td>1.3368</td><td>1.7459</td><td>2.1199</td><td>2.5835</td><td>2.9208</td><td>3.6862</td></tr>
<tr><td>17</td><td>1.3334</td><td>1.7396</td><td>2.1098</td><td>2.5669</td><td>2.8982</td><td>3.6458</td></tr>
<tr><td>18</td><td>1.3304</td><td>1.7341</td><td>2.1009</td><td>2.5524</td><td>2.8784</td><td>3.6105</td></tr>
<tr><td>19</td><td>1.3277</td><td>1.7291</td><td>2.093</td><td>2.5395</td><td>2.8609</td><td>3.5794</td></tr>
<tr><td>20</td><td>1.3253</td><td>1.7247</td><td>2.086</td><td>2.528</td><td>2.8453</td><td>3.5518</td></tr>
<tr><td>21</td><td>1.3232</td><td>1.7207</td><td>2.0796</td><td>2.5176</td><td>2.8314</td><td>3.5272</td></tr>
<tr><td>22</td><td>1.3212</td><td>1.7171</td><td>2.0739</td><td>2.5083</td><td>2.8188</td><td>3.505</td></tr>
<tr><td>23</td><td>1.3195</td><td>1.7139</td><td>2.0687</td><td>2.4999</td><td>2.8073</td><td>3.485</td></tr>
<tr><td>24</td><td>1.3178</td><td>1.7109</td><td>2.0639</td><td>2.4922</td><td>2.7969</td><td>3.4668</td></tr>
<tr><td>25</td><td>1.3163</td><td>1.7081</td><td>2.0595</td><td>2.4851</td><td>2.7874</td><td>3.4502</td></tr>
<tr><td>26</td><td>1.315</td><td>1.7056</td><td>2.0555</td><td>2.4786</td><td>2.7787</td><td>3.435</td></tr>
<tr><td>27</td><td>1.3137</td><td>1.7033</td><td>2.0518</td><td>2.4727</td><td>2.7707</td><td>3.421</td></tr>
<tr><td>28</td><td>1.3125</td><td>1.7011</td><td>2.0484</td><td>2.4671</td><td>2.7633</td><td>3.4082</td></tr>
<tr><td>29</td><td>1.3114</td><td>1.6991</td><td>2.0452</td><td>2.462</td><td>2.7564</td><td>3.3962</td></tr>
</table>

# 3 Chi2-Values



$$\chi^2_{\alpha,n}$$
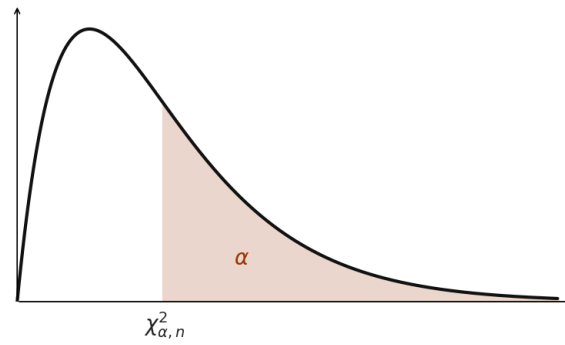
| | | | **α** | | | |
|---|---|---|---|---|---|---|
| **dof** | **0.1** | **0.05** | **0.025** | **0.01** | **0.005** | **0.001** |
| 1 | 2.7055 | 3.8415 | 5.0239 | 6.6349 | 7.8794 | 10.8276 |
| 2 | 4.6052 | 5.9915 | 7.3778 | 9.2103 | 10.5966 | 13.8155 |
| 3 | 6.2514 | 7.8147 | 9.3484 | 11.3449 | 12.8382 | 16.2662 |
| 4 | 7.7794 | 9.4877 | 11.1433 | 13.2767 | 14.8603 | 18.4668 |
| 5 | 9.2364 | 11.0705 | 12.8325 | 15.0863 | 16.7496 | 20.515 |
| 6 | 10.6446 | 12.5916 | 14.4494 | 16.8119 | 18.5476 | 22.4577 |
| 7 | 12.017 | 14.0671 | 16.0128 | 18.4753 | 20.2777 | 24.3219 |
| 8 | 13.3616 | 15.5073 | 17.5345 | 20.0902 | 21.955 | 26.1245 |
| 9 | 14.6837 | 16.919 | 19.0228 | 21.666 | 23.5894 | 27.8772 |
| 10 | 15.9872 | 18.307 | 20.4832 | 23.2093 | 25.1882 | 29.5883 |
| 11 | 17.275 | 19.6751 | 21.92 | 24.725 | 26.7568 | 31.2641 |
| 12 | 18.5493 | 21.0261 | 23.3367 | 26.217 | 28.2995 | 32.9095 |
| 13 | 19.8119 | 22.362 | 24.7356 | 27.6882 | 29.8195 | 34.5282 |
| 14 | 21.0641 | 23.6848 | 26.1189 | 29.1412 | 31.3193 | 36.1233 |
| 15 | 22.3071 | 24.9958 | 27.4884 | 30.5779 | 32.8013 | 37.6973 |
| 16 | 23.5418 | 26.2962 | 28.8454 | 31.9999 | 34.2672 | 39.2524 |
| 17 | 24.769 | 27.5871 | 30.191 | 33.4087 | 35.7185 | 40.7902 |
| 18 | 25.9894 | 28.8693 | 31.5264 | 34.8053 | 37.1565 | 42.3124 |
| 19 | 27.2036 | 30.1435 | 32.8523 | 36.1909 | 38.5823 | 43.8202 |
| 20 | 28.412 | 31.4104 | 34.1696 | 37.5662 | 39.9968 | 45.3147 |
| 21 | 29.6151 | 32.6706 | 35.4789 | 38.9322 | 41.4011 | 46.797 |
| 22 | 30.8133 | 33.9244 | 36.7807 | 40.2894 | 42.7957 | 48.2679 |
| 23 | 32.0069 | 35.1725 | 38.0756 | 41.6384 | 44.1813 | 49.7282 |
| 24 | 33.1962 | 36.415 | 39.3641 | 42.9798 | 45.5585 | 51.1786 |
| 25 | 34.3816 | 37.6525 | 40.6465 | 44.3141 | 46.9279 | 52.6197 |
| 26 | 35.5632 | 38.8851 | 41.9232 | 45.6417 | 48.2899 | 54.052 |
| 27 | 36.7412 | 40.1133 | 43.1945 | 46.9629 | 49.6449 | 55.476 |
| 28 | 37.9159 | 41.3371 | 44.4608 | 48.2782 | 50.9934 | 56.8923 |
| 29 | 39.0875 | 42.557 | 45.7223 | 49.5879 | 52.3356 | 58.3012 |
| 30 | 40.256 | 43.773 | 46.9792 | 50.8922 | 53.672 | 59.7031 |
| 40 | 51.8051 | 55.7585 | 59.3417 | 63.6907 | 66.766 | 73.402 |
| 50 | 63.1671 | 67.5048 | 71.4202 | 76.1539 | 79.49 | 86.6608 |
| 60 | 74.397 | 79.0819 | 83.2977 | 88.3794 | 91.9517 | 99.6072 |
| 70 | 85.527 | 90.5312 | 95.0232 | 100.4252 | 104.2149 | 112.3169 |
| 80 | 96.5782 | 101.8795 | 106.6286 | 112.3288 | 116.3211 | 124.8392 |
| 90 | 107.565 | 113.1453 | 118.1359 | 124.1163 | 128.2989 | 137.2084 |
| 100 | 118.498 | 124.3421 | 129.5612 | 135.8067 | 140.1695 | 149.4493 |