TABLA DE LA DISTRIBUCION del CHI- CUADRADO

**Valores críticos del Chi-cuadrado**

Para una combinación particular de grados de libertad en el numerador y en el denominador, las entradas representan los valores críticos de la Chi-cuadrado, correspondientes a un área de extremo superior especificado de α.



|  |  |
| --- | --- |
| **Grados de****Libertad** | **AREAS DE EXTREMOS SUPERIOR (α)** |
| **0.995** | **0.99** | **0.975** | **0.95** | **0.90** | **0.75** |
| **1** | 0.000 | 0.000 | 0.001 | 0.004 | 0.016 | 0.102 |
| **2** | 0.010 | 0.020 | 0.051 | 0.103 | 0.211 | 0.575 |
| **3** | 0.072 | 0.115 | 0.216 | 0.352 | 0.584 | 1.213 |
| **4** | 0.207 | 0.297 | 0.484 | 0.711 | 1.064 | 1.923 |
| **5** | 0.412 | 0.554 | 0.831 | 1.145 | 1.810 | 2.675 |
| **6** | 0.676 | 0.872 | 1.237 | 1.635 | 2.204 | 3.455 |
| **7** | 0.989 | 1.239 | 1.690 | 2.167 | 2.833 | 4.255 |
| **8** | 1.344 | 1.646 | 2.180 | 2.733 | 3.490 | 5.071 |
| **9** | 1.735 | 2.088 | 2.700 | 3.325 | 4.168 | 5.899 |
| **10** | 2.156 | 2.558 | 3.247 | 3.940 | 4.865 | 6.737 |
| **11** | 2.603 | 3.053 | 3.816 | 4.575 | 5.578 | 7.584 |
| **12** | 3.074 | 3.571 | 4.404 | 5.226 | 6.304 | 8.438 |
| **13** | 3.565 | 4.107 | 5.009 | 5.892 | 7.042 | 9.299 |
| **14** | 4.075 | 4.660 | 5.629 | 6.571 | 7.790 | 10.165 |
| **15** | 4.601 | 5.229 | 6.262 | 7.261 | 8.547 | 11.037 |
| **16** | 5.142 | 5.812 | 6.908 | 7.962 | 9.312 | 11.912 |
| **17** | 5.697 | 6.408 | 7.564 | 8.672 | 10.085 | 12.792 |
| **18** | 6.265 | 7.015 | 8.231 | 9.390 | 10.865 | 13.675 |
| **19** | 6.844 | 7.633 | 8.907 | 10.117 | 11.651 | 14.562 |
| **20** | 7.434 | 8.260 | 9.591 | 10.851 | 12.443 | 15.452 |
| **21** | 8.034 | 8.897 | 10.283 | 11.591 | 13.240 | 16.344 |
| **22** | 8.643 | 9.542 | 10.982 | 12.338 | 14.042 | 17.240 |
| **23** | 9.260 | 10.196 | 11.689 | 13.091 | 14.848 | 18.137 |
| **24** | 9.886 | 10.856 | 12.401 | 13.848 | 15.659 | 19.037 |
| **25** | 10.520 | 11.524 | 13.120 | 14.611 | 16.473 | 19.939 |
| **26** | 11.160 | 12.198 | 13.844 | 15.379 | 17.292 | 20.843 |
| **27** | 11.806 | 12.879 | 14.573 | 16.151 | 18.114 | 21.749 |
| **28** | 12.461 | 13.565 | 15.308 | 16.928 | 18.939 | 22.657 |
| **29** | 13.121 | 14.257 | 16.047 | 17.708 | 19.768 | 23.567 |
| **30** | 13.787 | 14.954 | 16.791 | 18.493 | 20.599 | 24.478 |
| **Grados de****Libertad** | **AREAS DE EXTREMOS SUPERIOR (α)** |
| **0.25** | **0.10** | **0.05** | **0.025** | **0.01** | **0.005** |
| **1** | 1.323 | 2.706 | 3.841 | 5.024 | 6.635 | 7.879 |
| **2** | 2.773 | 4.605 | 5.991 | 7.378 | 9.210 | 10.597 |
| **3** | 4.108 | 6.251 | 7.815 | 9.348 | 11.345 | 12.838 |
| **4** | 5.385 | 7.779 | 9.488 | 11.143 | 13.277 | 14.860 |
| **5** | 6.626 | 9.236 | 11.071 | 12.833 | 15.086 | 16.750 |
| **6** | 7.841 | 10.645 | 12.592 | 14.449 | 16.812 | 18.548 |
| **7** | 9.037 | 12.017 | 14.067 | 16.013 | 18.475 | 20.278 |
| **8** | 10.219 | 13.362 | 15507 | 17.535 | 20.090 | 21.955 |
| **9** | 11.389 | 14.684 | 16.919 | 19.023 | 21.666 | 23.589 |
| **10** | 12.549 | 15.987 | 18.307 | 20.483 | 23.209 | 25.188 |
| **11** | 13.701 | 17.275 | 19.675 | 21.920 | 24.725 | 26.757 |
| **12** | 14.845 | 18.549 | 21.026 | 23.337 | 26.217 | 28.299 |
| **13** | 15.984 | 19.812 | 22.362 | 24.736 | 27.688 | 29.819 |
| **14** | 17.117 | 21.064 | 23.685 | 26.119 | 29.141 | 31.319 |
| **15** | 18.245 | 22.307 | 24.996 | 27.488 | 30.578 | 32.801 |
| **16** | 19.369 | 23.542 | 26.296 | 28.845 | 32.000 | 34.267 |
| **17** | 20.489 | 24.769 | 27.587 | 30.191 | 33.409 | 35.718 |
| **18** | 21.605 | 25.989 | 28.869 | 31.526 | 34.805 | 37.156 |
| **19** | 22.718 | 27.204 | 30.144 | 32.852 | 36.191 | 38.582 |
| **20** | 23.828 | 28.412 | 31.410 | 34.170 | 37.566 | 39.997 |
| **21** | 24.935 | 29.615 | 32.671 | 35.479 | 38.832 | 41.401 |
| **22** | 26.039 | 30.813 | 33.924 | 36.781 | 40.289 | 42.796 |
| **23** | 27.141 | 32.007 | 35.172 | 38.076 | 41.638 | 44.181 |
| **24** | 28.241 | 33.196 | 36.415 | 39.364 | 42.980 | 45.559 |
| **25** | 29.339 | 34.382 | 37.652 | 40.646 | 44.314 | 46928 |
| **26** | 30.435 | 35.563 | 38.885 | 41.923 | 45.642 | 48.290 |
| **27** | 31.528 | 36.741 | 40.113 | 43.194 | 46.963 | 49.645 |
| **28** | 32.620 | 37.916 | 41.337 | 44.461 | 48.278 | 50.993 |
| **29** | 33.711 | 39.087 | 42.557 | 45.722 | 49.588 | 52.336 |
| **30** | 34.800 | 40.256 | 43.773 | 46.979 | 50.892 | 53.672 |

Para un número mayor de grados de libertad se puede utilizar la expresión

 Z = √ 2 x² - √ 2 (df) - 1 y se puede obtener el área de extremo superior resultante a partir de la tabla correspondiente a la distribución normal estandarizada.-