

# Chi-Square Critical Values Table

Standard Table | Degrees of Freedom 1–30 | All Significance Levels

[statisticsfundamentals.com/tables/chi-square-table/](https://statisticsfundamentals.com/tables/chi-square-table/)

This table shows right-tail critical values  $\chi^2(\alpha, df)$ . Reject the null hypothesis when your test statistic exceeds the critical value at your chosen significance level.

**Decision Rule:** Reject  $H_0$  if  $\chi^2_{\text{calc}} > \chi^2_{\text{critical}}$

df	$\alpha = 0.10$	$\alpha = 0.05$	$\alpha = 0.025$	$\alpha = 0.01$	$\alpha = 0.005$
1	2.639	3.748	4.930	6.588	7.907
2	4.560	5.938	7.338	9.223	10.675
3	6.215	7.777	9.326	11.372	12.923
4	7.748	9.458	11.130	13.308	14.944
5	9.209	11.046	12.824	15.120	16.830
6	10.620	12.571	14.444	16.846	18.625
7	11.994	14.049	16.010	18.510	20.353
8	13.341	15.491	17.534	20.125	22.027
9	14.664	16.905	19.023	21.700	23.659
10	15.969	18.294	20.485	23.243	25.256
11	17.258	19.663	21.922	24.758	26.822
12	18.533	21.015	23.340	26.250	28.363
13	19.796	22.352	24.739	27.720	29.881
14	21.049	23.676	26.123	29.173	31.380
15	22.293	24.988	27.493	30.609	32.860
16	23.528	26.289	28.850	32.031	34.325
17	24.756	27.580	30.196	33.439	35.775
18	25.977	28.863	31.532	34.835	37.212
19	27.191	30.137	32.858	36.221	38.637
20	28.400	31.405	34.175	37.596	40.050
21	29.604	32.665	35.485	38.961	41.454
22	30.802	33.919	36.787	40.318	42.847
23	31.996	35.168	38.082	41.667	44.232
24	33.186	36.411	39.371	43.008	45.608
25	34.372	37.648	40.653	44.342	46.977
26	35.553	38.881	41.930	45.669	48.338
27	36.732	40.110	43.201	46.990	49.693
28	37.907	41.334	44.468	48.305	51.041

df	$\alpha = 0.10$	$\alpha = 0.05$	$\alpha = 0.025$	$\alpha = 0.01$	$\alpha = 0.005$
29	39.079	<b>42.554</b>	45.729	49.615	52.382
30	40.247	<b>43.770</b>	46.986	50.919	53.718

\* The  $\alpha = 0.05$  column (bold/purple) is the most commonly used significance level in research. df = degrees of freedom. All values rounded to 3 decimal places.

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Download the full table (df 1–100) and annotated reference card at [statisticsfundamentals.com/tables/chi-square-table/](https://www.statisticsfundamentals.com/tables/chi-square-table/)