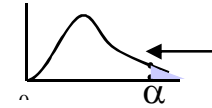


Critical Values of the Chi-Square Distribution

$p(\chi_{\alpha}^2)$

Chi-square values in the body of the table



← α = probability (from the right)

ν	1.00	0.99	0.98	0.975	0.95	0.90	0.80	0.75	0.70	0.50	0.30	0.25	0.20	0.10	0.05	0.025	0.020	0.010	0.005	0.001
1	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.10	0.15	0.45	1.07	1.32	1.64	2.71	3.84	5.02	5.41	6.63	7.88	10.83
2	0.01	0.02	0.04	0.05	0.10	0.21	0.45	0.58	0.71	1.39	2.41	2.77	3.22	4.61	5.99	7.38	7.82	9.21	10.60	13.82
3	0.07	0.11	0.18	0.22	0.35	0.58	1.01	1.21	1.42	2.37	3.66	4.11	4.64	6.25	7.81	9.35	9.84	11.34	12.84	16.27
4	0.21	0.30	0.43	0.48	0.71	1.06	1.65	1.92	2.19	3.36	4.88	5.39	5.99	7.78	9.49	11.14	11.67	13.28	14.86	18.47
5	0.41	0.55	0.75	0.83	1.15	1.61	2.34	2.67	3.00	4.35	6.06	6.63	7.29	9.24	11.07	12.83	13.39	15.09	16.75	20.52
6	0.68	0.87	1.13	1.24	1.64	2.20	3.07	3.45	3.83	5.35	7.23	7.84	8.56	10.64	12.59	14.45	15.03	16.81	18.55	22.46
7	0.99	1.24	1.56	1.69	2.17	2.83	3.82	4.25	4.67	6.35	8.38	9.04	9.80	12.02	14.07	16.01	16.62	18.48	20.28	24.32
8	1.34	1.65	2.03	2.18	2.73	3.49	4.59	5.07	5.53	7.34	9.52	10.22	11.03	13.36	15.51	17.53	18.17	20.09	21.95	26.12
9	1.73	2.09	2.53	2.70	3.33	4.17	5.38	5.90	6.39	8.34	10.66	11.39	12.24	14.68	16.92	19.02	19.68	21.67	23.59	27.88
10	2.16	2.56	3.06	3.25	3.94	4.87	6.18	6.74	7.27	9.34	11.78	12.55	13.44	15.99	18.31	20.48	21.16	23.21	25.19	29.59
11	2.60	3.05	3.61	3.82	4.57	5.58	6.99	7.58	8.15	10.34	12.90	13.70	14.63	17.28	19.68	21.92	22.62	24.72	26.76	31.26
12	3.07	3.57	4.18	4.40	5.23	6.30	7.81	8.44	9.03	11.34	14.01	14.85	15.81	18.55	21.03	23.34	24.05	26.22	28.30	32.91
13	3.57	4.11	4.77	5.01	5.89	7.04	8.63	9.30	9.93	12.34	15.12	15.98	16.98	19.81	22.36	24.74	25.47	27.69	29.82	34.53
14	4.07	4.66	5.37	5.63	6.57	7.79	9.47	10.17	10.82	13.34	16.22	17.12	18.15	21.06	23.68	26.12	26.87	29.14	31.32	36.12
15	4.60	5.23	5.98	6.26	7.26	8.55	10.31	11.04	11.72	14.34	17.32	18.25	19.31	22.31	25.00	27.49	28.26	30.58	32.80	37.70
16	5.14	5.81	6.61	6.91	7.96	9.31	11.15	11.91	12.62	15.34	18.42	19.37	20.47	23.54	26.30	28.85	29.63	32.00	34.27	39.25
17	5.70	6.41	7.26	7.56	8.67	10.09	12.00	12.79	13.53	16.34	19.51	20.49	21.61	24.77	27.59	30.19	31.00	33.41	35.72	40.79
18	6.26	7.01	7.91	8.23	9.39	10.86	12.86	13.68	14.44	17.34	20.60	21.60	22.76	25.99	28.87	31.53	32.35	34.81	37.16	42.31
19	6.84	7.63	8.57	8.91	10.12	11.65	13.72	14.56	15.35	18.34	21.69	22.72	23.90	27.20	30.14	32.85	33.69	36.19	38.58	43.82
20	7.43	8.26	9.24	9.59	10.85	12.44	14.58	15.45	16.27	19.34	22.77	23.83	25.04	28.41	31.41	34.17	35.02	37.57	40.00	45.31
21	8.03	8.90	9.91	10.28	11.59	13.24	15.44	16.34	17.18	20.34	23.86	24.93	26.17	29.62	32.67	35.48	36.34	38.93	41.40	46.80
22	8.64	9.54	10.60	10.98	12.34	14.04	16.31	17.24	18.10	21.34	24.94	26.04	27.30	30.81	33.92	36.78	37.66	40.29	42.80	48.27
23	9.26	10.20	11.29	11.69	13.09	14.85	17.19	18.14	19.02	22.34	26.02	27.14	28.43	32.01	35.17	38.08	38.97	41.64	44.18	49.73
24	9.89	10.86	11.99	12.40	13.85	15.66	18.06	19.04	19.94	23.34	27.10	28.24	29.55	33.20	36.42	39.36	40.27	42.98	45.56	51.18
25	10.52	11.52	12.70	13.12	14.61	16.47	18.94	19.94	20.87	24.34	28.17	29.34	30.68	34.38	37.65	40.65	41.57	44.31	46.93	52.62
26	11.16	12.20	13.41	13.84	15.38	17.29	19.82	20.84	21.79	25.34	29.25	30.43	31.79	35.56	38.89	41.92	42.86	45.64	48.29	54.05
27	11.81	12.88	14.13	14.57	16.15	18.11	20.70	21.75	22.72	26.34	30.32	31.53	32.91	36.74	40.11	43.19	44.14	46.96	49.64	55.48
28	12.46	13.56	14.85	15.31	16.93	18.94	21.59	22.66	23.65	27.34	31.39	32.62	34.03	37.92	41.34	44.46	45.42	48.28	50.99	56.89
29	13.12	14.26	15.57	16.05	17.71	19.77	22.48	23.57	24.58	28.34	32.46	33.71	35.14	39.09	42.56	45.72	46.69	49.59	52.34	58.30
30	13.79	14.95	16.31	16.79	18.49	20.60	23.36	24.48	25.51	29.34	33.53	34.80	36.25	40.26	43.77	46.98	47.96	50.89	53.67	59.70