



## Chi-squared distribution: Critical values

Degrees of freedom	Significance level:			
	10%	5%	1%	0.1%
1	2.7055	3.8415	6.6349	10.8276
2	4.6052	5.9915	9.2103	13.8155
3	6.2514	7.8147	11.3449	16.2662
4	7.7794	9.4877	13.2767	18.4668
5	9.2364	11.0705	15.0863	20.5150
6	10.6446	12.5916	16.8119	22.4577
7	12.0170	14.0671	18.4753	24.3219
8	13.3616	15.5073	20.0902	26.1245
9	14.6837	16.9190	21.6660	27.8772
10	15.9872	18.3070	23.2093	29.5883
11	17.2750	19.6751	24.7250	31.2641
12	18.5493	21.0261	26.2170	32.9095
13	19.8119	22.3620	27.6882	34.5282
14	21.0641	23.6848	29.1412	36.1233
15	22.3071	24.9958	30.5779	37.6973
16	23.5418	26.2962	31.9999	39.2524
17	24.7690	27.5871	33.4087	40.7902
18	25.9894	28.8693	34.8053	42.3124
19	27.2036	30.1435	36.1909	43.8202
20	28.4120	31.4104	37.5662	45.3147
21	29.6151	32.6706	38.9322	46.7970
22	30.8133	33.9244	40.2894	48.2679
23	32.0069	35.1725	41.6384	49.7282
24	33.1962	36.4150	42.9798	51.1786
25	34.3816	37.6525	44.3141	52.6197
26	35.5632	38.8851	45.6417	54.0520
27	36.7412	40.1133	46.9629	55.4760
28	37.9159	41.3371	48.2782	56.8923
29	39.0875	42.5570	49.5879	58.3012
30	40.2560	43.7730	50.8922	59.7031
31	41.4217	44.9853	52.1914	61.0983
32	42.5847	46.1943	53.4858	62.4872
33	43.7452	47.3999	54.7755	63.8701
34	44.9032	48.6024	56.0609	65.2472
35	46.0588	49.8018	57.3421	66.6188
40	51.8051	55.7585	63.6907	73.4020
45	57.5053	61.6562	69.9568	80.0767
50	63.1671	67.5048	76.1539	86.6608
55	68.7962	73.3115	82.2921	93.1675
60	74.3970	79.0819	88.3794	99.6072
65	79.9730	84.8206	94.4221	105.9881
70	85.5270	90.5312	100.4252	112.3169
80	96.5782	101.8795	112.3288	124.8392
90	107.5650	113.1453	124.1163	137.2084
100	118.4980	124.3421	135.8067	149.4493
120	140.2326	146.5674	158.9502	173.6174
150	172.5812	179.5806	193.2077	209.2646
300	331.7885	341.3951	359.9064	381.4252
500	540.9303	553.1268	576.4928	603.4460
1000	1057.7239	1074.6794	1106.9690	1143.9171

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