

A.3: Table of Chi-square critical values

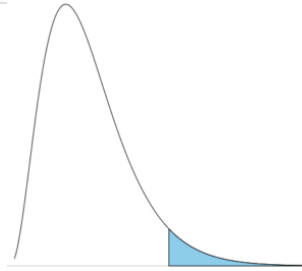


Figure A.3.1.

$\alpha(1)$	0.25	0.1	0.05	0.025	0.01	0.005	0.0025	0.001	0.0005
DF/1	1.323	2.706	3.841	5.024	6.635	7.879	9.141	10.828	12.116
2	2.773	4.605	5.991	7.378	9.210	10.597	11.983	13.816	15.202
3	4.108	6.251	7.815	9.348	11.345	12.838	14.320	16.266	17.730
4	5.385	7.779	9.488	11.143	13.277	14.860	16.424	18.467	19.997
5	6.626	9.236	11.070	12.833	15.086	16.750	18.386	20.515	22.105
6	7.841	10.645	12.592	14.449	16.812	18.548	20.249	22.458	24.103
7	9.037	12.017	14.067	16.013	18.475	20.278	22.040	24.322	26.018
8	10.219	13.362	15.507	17.535	20.090	21.955	23.774	26.124	27.868
9	11.389	14.684	16.919	19.023	21.666	23.589	25.462	27.877	29.666
10	12.549	15.987	18.307	20.483	23.209	25.188	27.112	29.588	31.420
11	13.701	17.275	19.675	21.920	24.725	26.757	28.729	31.264	33.137
12	14.845	18.549	21.026	23.337	26.217	28.300	30.318	32.909	34.821
13	15.984	19.812	22.362	24.736	27.688	29.819	31.883	34.528	36.478
14	17.117	21.064	23.685	26.119	29.141	31.319	33.426	36.123	38.109
15	18.245	22.307	24.996	27.488	30.578	32.801	34.950	37.697	39.719
16	19.369	23.542	26.296	28.845	32.000	34.267	36.456	39.252	41.308
17	20.489	24.769	27.587	30.191	33.409	35.718	37.946	40.790	42.879
18	21.605	25.989	28.869	31.526	34.805	37.156	39.422	42.312	44.434
19	22.718	27.204	30.144	32.852	36.191	38.582	40.885	43.820	45.973
20	23.828	28.412	31.410	34.170	37.566	39.997	42.336	45.315	47.498
21	24.935	29.615	32.671	35.479	38.932	41.401	43.775	46.797	49.011
22	26.039	30.813	33.924	36.781	40.289	42.796	45.204	48.268	50.511
23	27.141	32.007	35.172	38.076	41.638	44.181	46.623	49.728	52.000
24	28.241	33.196	36.415	39.364	42.980	45.559	48.034	51.179	53.479
25	29.339	34.382	37.652	40.646	44.314	46.928	49.435	52.620	54.947
26	30.435	35.563	38.885	41.923	45.642	48.290	50.829	54.052	56.407
27	31.528	36.741	40.113	43.195	46.963	49.645	52.215	55.476	57.858
28	32.620	37.916	41.337	44.461	48.278	50.993	53.594	56.892	59.300
29	33.711	39.087	42.557	45.722	49.588	52.336	54.967	58.301	60.735
30	34.800	40.256	43.773	46.979	50.892	53.672	56.332	59.703	62.162
35	40.223	46.059	49.802	53.203	57.342	60.275	63.076	66.619	69.199
40	45.616	51.805	55.758	59.342	63.691	66.766	69.699	73.402	76.095

$\alpha(1)$	0.25	0.1	0.05	0.025	0.01	0.005	0.0025	0.001	0.0005
50	56.334	63.167	67.505	71.420	76.154	79.490	82.664	86.661	89.561

R command

```
qchisq(c(alpha), df=df, lower.tail=FALSE)
```

where `alpha` is one-tailed probability, `df` is number of degrees of freedom, and `lower.tail=FALSE` means each cell is to be read as equal to or greater than the critical value.

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