

Quantiles for χ^2 distributions ($k_{a,df}$ values)

This table gives $k_{a,df}$ values for different a 's and df 's, where $k_{a,df}$ is defined such that $P(\chi^2(df) > k_{a,df}) = a$ and $\chi^2(df)$ is the χ^2 distribution with df degrees of freedom.

df	a				df	a			
	0.10	0.05	0.02	0.01		0.10	0.05	0.02	0.01
1	2.706	3.841	5.412	6.635	31	41.422	44.985	49.226	52.191
2	4.605	5.991	7.824	9.210	32	42.585	46.194	50.487	53.486
3	6.251	7.815	9.837	11.345	33	43.745	47.400	51.743	54.776
4	7.779	9.488	11.668	13.277	34	44.903	48.602	52.995	56.061
5	9.236	11.070	13.388	15.086	35	46.059	49.802	54.244	57.342
6	10.645	12.592	15.033	16.812	36	47.212	50.998	55.489	58.619
7	12.017	14.067	16.622	18.475	37	48.363	52.192	56.730	59.893
8	13.362	15.507	18.168	20.090	38	49.513	53.384	57.969	61.162
9	14.684	16.919	19.679	21.666	39	50.660	54.572	59.204	62.428
10	15.987	18.307	21.161	23.209	40	51.805	55.758	60.436	63.691
11	17.275	19.675	22.618	24.725	41	52.949	56.942	61.665	64.950
12	18.549	21.026	24.054	26.217	42	54.090	58.124	62.892	66.206
13	19.812	22.362	25.472	27.688	43	55.230	59.304	64.116	67.459
14	21.064	23.685	26.873	29.141	44	56.369	60.481	65.337	68.710
15	22.307	24.996	28.259	30.578	45	57.505	61.656	66.555	69.957
16	23.542	26.296	29.633	32.000	46	58.641	62.830	67.771	71.201
17	24.769	27.587	30.995	33.409	47	59.774	64.001	68.985	72.443
18	25.989	28.869	32.346	34.805	48	60.907	65.171	70.197	73.683
19	27.204	30.144	33.687	36.191	49	62.038	66.339	71.406	74.919
20	28.412	31.410	35.020	37.566	50	63.167	67.505	72.613	76.154
21	29.615	32.671	36.343	38.932	51	64.295	68.669	73.818	77.386
22	30.813	33.924	37.659	40.289	52	65.422	69.832	75.021	78.616
23	32.007	35.172	38.968	41.638	53	66.548	70.993	76.223	79.843
24	33.196	36.415	40.270	42.980	54	67.673	72.153	77.422	81.069
25	34.382	37.652	41.566	44.314	55	68.796	73.311	78.619	82.292
26	35.563	38.885	42.856	45.642	56	69.919	74.468	79.815	83.513
27	36.741	40.113	44.140	46.963	57	71.040	75.624	81.009	84.733
28	37.916	41.337	45.419	48.278	58	72.160	76.778	82.201	85.950
29	39.087	42.557	46.693	49.588	59	73.279	77.931	83.391	87.166
30	40.256	43.773	47.962	50.892	60	74.397	79.082	84.580	88.379