

Quantile $\chi^2_{1-\alpha;n}$ der χ^2 -Verteilung

(n = Anzahl der Freiheitsgrade)

n	0.001	0.01	0.025	0.05	0.1	0.9	0.95	0.975	0.99	0.999
1	0.000	0.000	0.001	0.004	0.016	2.706	3.841	5.024	6.635	10.828
2	0.002	0.020	0.051	0.103	0.211	4.605	5.991	7.378	9.210	13.816
3	0.024	0.115	0.216	0.352	0.584	6.251	7.815	9.348	11.345	16.266
4	0.091	0.297	0.484	0.711	1.064	7.779	9.488	11.143	13.277	18.467
5	0.210	0.554	0.831	1.145	1.610	9.236	11.070	12.833	15.086	20.515
6	0.381	0.872	1.237	1.635	2.204	10.645	12.592	14.449	16.812	22.458
7	0.598	1.239	1.690	2.167	2.833	12.017	14.067	16.013	18.475	24.322
8	0.857	1.646	2.180	2.733	3.490	13.362	15.507	17.535	20.090	26.124
9	1.152	2.088	2.700	3.325	4.168	14.684	16.919	19.023	21.666	27.877
10	1.479	2.558	3.247	3.940	4.865	15.987	18.307	20.483	23.209	29.588
11	1.834	3.053	3.816	4.575	5.578	17.275	19.675	21.920	24.725	31.264
12	2.214	3.571	4.404	5.226	6.304	18.549	21.026	23.337	26.217	32.909
13	2.617	4.107	5.009	5.892	7.042	19.812	22.362	24.736	27.688	34.528
14	3.041	4.660	5.629	6.571	7.790	21.064	23.685	26.119	29.141	36.123
15	3.483	5.229	6.262	7.261	8.547	22.307	24.996	27.488	30.578	37.697
16	3.942	5.812	6.908	7.962	9.312	23.542	26.296	28.845	32.000	39.252
17	4.416	6.408	7.564	8.672	10.085	24.769	27.587	30.191	33.409	40.790
18	4.905	7.015	8.231	9.390	10.865	25.989	28.869	31.526	34.805	42.312
19	5.407	7.633	8.907	10.117	11.651	27.204	30.144	32.852	36.191	43.820
20	5.921	8.260	9.591	10.851	12.443	28.412	31.410	34.170	37.566	45.315
21	6.447	8.897	10.283	11.591	13.240	29.615	32.671	35.479	38.932	46.797
22	6.983	9.542	10.982	12.338	14.041	30.813	33.924	36.781	40.289	48.268
23	7.529	10.196	11.689	13.091	14.848	32.007	35.172	38.076	41.638	49.728
24	8.085	10.856	12.401	13.848	15.659	33.196	36.415	39.364	42.980	51.179
25	8.649	11.524	13.120	14.611	16.473	34.382	37.652	40.646	44.314	52.620
26	9.222	12.198	13.844	15.379	17.292	35.563	38.885	41.923	45.642	54.052
27	9.803	12.879	14.573	16.151	18.114	36.741	40.113	43.195	46.963	55.476
28	10.391	13.565	15.308	16.928	18.939	37.916	41.337	44.461	48.278	56.892
29	10.986	14.256	16.047	17.708	19.768	39.087	42.557	45.722	49.588	58.301
30	11.588	14.953	16.791	18.493	20.599	40.256	43.773	46.979	50.892	59.703
31	12.196	15.655	17.539	19.281	21.434	41.422	44.985	48.232	52.191	61.098
32	12.811	16.362	18.291	20.072	22.271	42.585	46.194	49.480	53.486	62.487
33	13.431	17.074	19.047	20.867	23.110	43.745	47.400	50.725	54.776	63.870
34	14.057	17.789	19.806	21.664	23.952	44.903	48.602	51.966	56.061	65.247
35	14.688	18.509	20.569	22.465	24.797	46.059	49.802	53.203	57.342	66.619
36	15.324	19.233	21.336	23.269	25.643	47.212	50.998	54.437	58.619	67.985
37	15.965	19.960	22.106	24.075	26.492	48.363	52.192	55.668	59.893	69.346
38	16.611	20.691	22.878	24.884	27.343	49.513	53.384	56.896	61.162	70.703
39	17.262	21.426	23.654	25.695	28.196	50.660	54.572	58.120	62.428	72.055
40	17.916	22.164	24.433	26.509	29.051	51.805	55.758	59.342	63.691	73.402

n	0.001	0.01	0.025	0.05	0.1	1 - α 0.9	0.95	0.975	0.99	0.999
41	18.575	22.906	25.215	27.326	29.907	52.949	56.942	60.561	64.950	74.745
42	19.239	23.650	25.999	28.144	30.765	54.090	58.124	61.777	66.206	76.084
43	19.906	24.398	26.785	28.965	31.625	55.230	59.304	62.990	67.459	77.419
44	20.576	25.148	27.575	29.787	32.487	56.369	60.481	64.201	68.710	78.750
45	21.251	25.901	28.366	30.612	33.350	57.505	61.656	65.410	69.957	80.077
46	21.929	26.657	29.160	31.439	34.215	58.641	62.830	66.617	71.201	81.400
47	22.610	27.416	29.956	32.268	35.081	59.774	64.001	67.821	72.443	82.720
48	23.295	28.177	30.755	33.098	35.949	60.907	65.171	69.023	73.683	84.037
49	23.983	28.941	31.555	33.930	36.818	62.038	66.339	70.222	74.919	85.351
50	24.674	29.707	32.357	34.764	37.689	63.167	67.505	71.420	76.154	86.661
51	25.368	30.475	33.162	35.600	38.560	64.295	68.669	72.616	77.386	87.968
52	26.065	31.246	33.968	36.437	39.433	65.422	69.832	73.810	78.616	89.272
53	26.765	32.018	34.776	37.276	40.308	66.548	70.993	75.002	79.843	90.573
54	27.468	32.793	35.586	38.116	41.183	67.673	72.153	76.192	81.069	91.872
55	28.173	33.570	36.398	38.958	42.060	68.796	73.311	77.380	82.292	93.168
56	28.881	34.350	37.212	39.801	42.937	69.919	74.468	78.567	83.513	94.461
57	29.592	35.131	38.027	40.646	43.816	71.040	75.624	79.752	84.733	95.751
58	30.305	35.913	38.844	41.492	44.696	72.160	76.778	80.936	85.950	97.039
59	31.020	36.698	39.662	42.339	45.577	73.279	77.931	82.117	87.166	98.324
60	31.738	37.485	40.482	43.188	46.459	74.397	79.082	83.298	88.379	99.607
61	32.459	38.273	41.303	44.038	47.342	75.514	80.232	84.476	89.591	100.888
62	33.181	39.063	42.126	44.889	48.226	76.630	81.381	85.654	90.802	102.166
63	33.906	39.855	42.950	45.741	49.111	77.745	82.529	86.830	92.010	103.442
64	34.633	40.649	43.776	46.595	49.996	78.860	83.675	88.004	93.217	104.716
65	35.362	41.444	44.603	47.450	50.883	79.973	84.821	89.177	94.422	105.988
66	36.093	42.240	45.431	48.305	51.770	81.085	85.965	90.349	95.626	107.258
67	36.826	43.038	46.261	49.162	52.659	82.197	87.108	91.519	96.828	108.526
68	37.561	43.838	47.092	50.020	53.548	83.308	88.250	92.689	98.028	109.791
69	38.298	44.639	47.924	50.879	54.438	84.418	89.391	93.856	99.228	111.055
70	39.036	45.442	48.758	51.739	55.329	85.527	90.531	95.023	100.425	112.317
71	39.777	46.246	49.592	52.600	56.221	86.635	91.670	96.189	101.621	113.577
72	40.519	47.051	50.428	53.462	57.113	87.743	92.808	97.353	102.816	114.835
73	41.264	47.858	51.265	54.325	58.006	88.850	93.945	98.516	104.010	116.092
74	42.010	48.666	52.103	55.189	58.900	89.956	95.081	99.678	105.202	117.346
75	42.757	49.475	52.942	56.054	59.795	91.061	96.217	100.839	106.393	118.599
76	43.507	50.286	53.782	56.920	60.690	92.166	97.351	101.999	107.583	119.850
77	44.258	51.097	54.623	57.786	61.586	93.270	98.484	103.158	108.771	121.100
78	45.010	51.910	55.466	58.654	62.483	94.374	99.617	104.316	109.958	122.348
79	45.764	52.725	56.309	59.522	63.380	95.476	100.749	105.473	111.144	123.594
80	46.520	53.540	57.153	60.391	64.278	96.578	101.879	106.629	112.329	124.839
85	50.320	57.634	61.389	64.749	68.777	102.079	107.522	112.393	118.236	131.041
90	54.155	61.754	65.647	69.126	73.291	107.565	113.145	118.136	124.116	137.208
95	58.022	65.898	69.925	73.520	77.818	113.038	118.752	123.858	129.973	143.344
100	61.918	70.065	74.222	77.929	82.358	118.498	124.342	129.561	135.807	149.449