

Tabelle der Quantile der Chiquadrat- und Gamma-Verteilung

α -Quantile $\chi_{n;\alpha}^2$ der Chiquadrat-Verteilungen $\chi_n^2 = \Gamma_{1/2,n/2}$ mit n Freiheitsgraden. $\chi_{n;\alpha}^2$ ist der Wert $c > 0$ mit $\chi_n^2([0, c]) = \alpha$. Durch Skalierung erhält man die Quantile der Gamma-Verteilung $\Gamma_{\lambda,r}$ mit $\lambda > 0$ und $2r \in \mathbb{N}$. Notation: $^{-5}3.9 \equiv 3.9 \cdot 10^{-5}$.

$\alpha =$	0.005	0.01	0.02	0.05	0.1	0.9	0.95	0.98	0.99	0.995
$n = 1$	$^{-5}3.9$	$^{-4}1.6$	$^{-4}6.3$	$^{-3}3.9$	0.0158	2.706	3.842	5.412	6.635	7.879
2	0.0100	0.0201	0.0404	0.1026	0.2107	4.605	5.991	7.824	9.210	10.60
3	0.0717	0.1148	0.1848	0.3518	0.5844	6.251	7.815	9.837	11.34	12.84
4	0.2070	0.2971	0.4294	0.7107	1.064	7.779	9.488	11.67	13.28	14.86
5	0.4117	0.5543	0.7519	1.145	1.610	9.236	11.07	13.39	15.09	16.75
6	0.6757	0.8721	1.134	1.635	2.204	10.65	12.59	15.03	16.81	18.55
7	0.9893	1.239	1.564	2.167	2.833	12.02	14.07	16.62	18.48	20.28
8	1.344	1.646	2.032	2.733	3.490	13.36	15.51	18.17	20.09	21.95
9	1.735	2.088	2.532	3.325	4.168	14.68	16.92	19.68	21.67	23.59
10	2.156	2.558	3.059	3.940	4.865	15.99	18.31	21.16	23.21	25.19
11	2.603	3.053	3.609	4.575	5.578	17.28	19.68	22.62	24.72	26.76
12	3.074	3.571	4.178	5.226	6.304	18.55	21.03	24.05	26.22	28.30
13	3.565	4.107	4.765	5.892	7.042	19.81	22.36	25.47	27.69	29.82
14	4.075	4.660	5.368	6.571	7.790	21.06	23.68	26.87	29.14	31.32
15	4.601	5.229	5.985	7.261	8.547	22.31	25.00	28.26	30.58	32.80
16	5.142	5.812	6.614	7.962	9.312	23.54	26.30	29.63	32.00	34.27
17	5.697	6.408	7.255	8.672	10.09	24.77	27.59	31.00	33.41	35.72
18	6.265	7.015	7.906	9.390	10.86	25.99	28.87	32.35	34.81	37.16
19	6.844	7.633	8.567	10.12	11.65	27.20	30.14	33.69	36.19	38.58
20	7.434	8.260	9.237	10.85	12.44	28.41	31.41	35.02	37.57	40.00
21	8.034	8.897	9.915	11.59	13.24	29.62	32.67	36.34	38.93	41.40
22	8.643	9.542	10.60	12.34	14.04	30.81	33.92	37.66	40.29	42.80
23	9.260	10.20	11.29	13.09	14.85	32.01	35.17	38.97	41.64	44.18
24	9.886	10.86	11.99	13.85	15.66	33.20	36.42	40.27	42.98	45.56
25	10.52	11.52	12.70	14.61	16.47	34.38	37.65	41.57	44.31	46.93
26	11.16	12.20	13.41	15.38	17.29	35.56	38.89	42.86	45.64	48.29
27	11.81	12.88	14.13	16.15	18.11	36.74	40.11	44.14	46.96	49.64
28	12.46	13.56	14.85	16.93	18.94	37.92	41.34	45.42	48.28	50.99
29	13.12	14.26	15.57	17.71	19.77	39.09	42.56	46.69	49.59	52.34
30	13.79	14.95	16.31	18.49	20.60	40.26	43.77	47.96	50.89	53.67
35	17.19	18.51	20.03	22.47	24.80	46.06	49.80	54.24	57.34	60.27
40	20.71	22.16	23.84	26.51	29.05	51.81	55.76	60.44	63.69	66.77
50	27.99	29.71	31.66	34.76	37.69	63.17	67.50	72.61	76.15	79.49
75	47.21	49.48	52.04	56.05	59.79	91.06	96.22	102.2	106.4	110.3
100	67.33	70.06	73.14	77.93	82.36	118.5	124.3	131.1	135.8	140.2

Tabelle der Quantile der Student- t -Verteilung

α -Quantile $t_{n;\alpha}$ der t -Verteilungen t_n mit n Freiheitsgraden. $t_{n;\alpha}$ ist der Wert $c > 0$ mit $t(n)((-\infty, c]) = \alpha$. Für $n = \infty$ sind die Quantile $\lim_{n \rightarrow \infty} t_{n;\alpha} = \Phi^{-1}(\alpha)$ der Standardnormalverteilung angegeben.

$\alpha =$	0.9	0.95	0.96	0.975	0.98	0.99	0.995
$n = 1$	3.078	6.314	7.916	12.71	15.89	31.82	63.66
2	1.886	2.920	3.320	4.303	4.849	6.965	9.925
3	1.638	2.353	2.605	3.182	3.482	4.541	5.841
4	1.533	2.132	2.333	2.776	2.999	3.747	4.604
5	1.476	2.015	2.191	2.571	2.757	3.365	4.032
6	1.440	1.943	2.104	2.447	2.612	3.143	3.707
7	1.415	1.895	2.046	2.365	2.517	2.998	3.499
8	1.397	1.860	2.004	2.306	2.449	2.896	3.355
9	1.383	1.833	1.973	2.262	2.398	2.821	3.250
10	1.372	1.812	1.948	2.228	2.359	2.764	3.169
11	1.363	1.796	1.928	2.201	2.328	2.718	3.106
12	1.356	1.782	1.912	2.179	2.303	2.681	3.055
13	1.350	1.771	1.899	2.160	2.282	2.650	3.012
14	1.345	1.761	1.887	2.145	2.264	2.624	2.977
15	1.341	1.753	1.878	2.131	2.249	2.602	2.947
16	1.337	1.746	1.869	2.120	2.235	2.583	2.921
17	1.333	1.740	1.862	2.110	2.224	2.567	2.898
18	1.330	1.734	1.855	2.101	2.214	2.552	2.878
19	1.328	1.729	1.850	2.093	2.205	2.539	2.861
20	1.325	1.725	1.844	2.086	2.197	2.528	2.845
21	1.323	1.721	1.840	2.080	2.189	2.518	2.831
22	1.321	1.717	1.835	2.074	2.183	2.508	2.819
23	1.319	1.714	1.832	2.069	2.177	2.500	2.807
24	1.318	1.711	1.828	2.064	2.172	2.492	2.797
25	1.316	1.708	1.825	2.060	2.167	2.485	2.787
29	1.311	1.699	1.814	2.045	2.150	2.462	2.756
34	1.307	1.691	1.805	2.032	2.136	2.441	2.728
39	1.304	1.685	1.798	2.023	2.125	2.426	2.708
49	1.299	1.677	1.788	2.010	2.110	2.405	2.680
59	1.296	1.671	1.781	2.001	2.100	2.391	2.662
69	1.294	1.667	1.777	1.995	2.093	2.382	2.649
79	1.292	1.664	1.773	1.990	2.088	2.374	2.640
89	1.291	1.662	1.771	1.987	2.084	2.369	2.632
99	1.290	1.660	1.769	1.984	2.081	2.365	2.626
∞	1.282	1.645	1.751	1.960	2.054	2.326	2.576