

**Inhaltsverzeichnis**

<b>T1</b>	<b>Tabelle der Normalverteilung</b>	<b>5</b>
<b>T2</b>	<b>Quantile der Normalverteilung</b>	<b>6</b>
<b>T3</b>	<b>Quantile der <math>t</math>-Verteilung</b>	<b>7</b>
<b>T4</b>	<b>Tabelle der <math>t</math>-Verteilung</b>	<b>8</b>
<b>T5</b>	<b>Quantile der <math>\chi^2</math>-Verteilung</b>	<b>12</b>
<b>T6</b>	<b>Quantile der Fisher'schen <math>F_{m,n}</math>-Verteilung</b>	<b>13</b>



## T1 Tabelle der Normalverteilung

Tabelle des Integrals  $\Phi(x) = \frac{1}{\sqrt{2\pi}} \int_{-\infty}^x e^{-t^2/2} dt$ . Beispiel:  $\Phi(1.23) = 0.89065$ .

$x$	0	1	2	3	4	5	6	7	8	9
0.00	.50000	.50399	.50798	.51197	.51595	.51994	.52392	.52790	.53188	.53586
0.10	.53983	.54380	.54776	.55172	.55567	.55962	.56356	.56749	.57142	.57535
0.20	.57926	.58317	.58706	.59095	.59483	.59871	.60257	.60642	.61026	.61409
0.30	.61791	.62172	.62552	.62930	.63307	.63683	.64058	.64431	.64803	.65173
0.40	.65542	.65910	.66276	.66640	.67003	.67364	.67724	.68082	.68439	.68793
0.50	.69146	.69497	.69847	.70194	.70540	.70884	.71226	.71566	.71904	.72240
0.60	.72575	.72907	.73237	.73565	.73891	.74215	.74537	.74857	.75175	.75490
0.70	.75804	.76115	.76424	.76730	.77035	.77337	.77637	.77935	.78230	.78524
0.80	.78814	.79103	.79389	.79673	.79955	.80234	.80511	.80785	.81057	.81327
0.90	.81594	.81859	.82121	.82381	.82639	.82894	.83147	.83398	.83646	.83891
1.00	.84134	.84375	.84614	.84849	.85083	.85314	.85543	.85769	.85993	.86214
1.10	.86433	.86650	.86864	.87076	.87286	.87493	.87698	.87900	.88100	.88298
1.20	.88493	.88686	.88877	.89065	.89251	.89435	.89617	.89796	.89973	.90147
1.30	.90320	.90490	.90658	.90824	.90988	.91149	.91309	.91466	.91621	.91774
1.40	.91924	.92073	.92220	.92364	.92507	.92647	.92785	.92922	.93056	.93189
1.50	.93319	.93448	.93574	.93699	.93822	.93943	.94062	.94179	.94295	.94408
1.60	.94520	.94630	.94738	.94845	.94950	.95053	.95154	.95254	.95352	.95449
1.70	.95543	.95637	.95728	.95818	.95907	.95994	.96080	.96164	.96246	.96327
1.80	.96407	.96485	.96562	.96638	.96712	.96784	.96856	.96926	.96995	.97062
1.90	.97128	.97193	.97257	.97320	.97381	.97441	.97500	.97558	.97615	.97670
2.00	.97725	.97778	.97831	.97882	.97932	.97982	.98030	.98077	.98124	.98169
2.10	.98214	.98257	.98300	.98341	.98382	.98422	.98461	.98500	.98537	.98574
2.20	.98610	.98645	.98679	.98713	.98745	.98778	.98809	.98840	.98870	.98899
2.30	.98928	.98956	.98983	.99010	.99036	.99061	.99086	.99111	.99134	.99158
2.40	.99180	.99202	.99224	.99245	.99266	.99286	.99305	.99324	.99343	.99361
2.50	.99379	.99396	.99413	.99430	.99446	.99461	.99477	.99492	.99506	.99520
2.60	.99534	.99547	.99560	.99573	.99585	.99598	.99609	.99621	.99632	.99643
2.70	.99653	.99664	.99674	.99683	.99693	.99702	.99711	.99720	.99728	.99736
2.80	.99744	.99752	.99760	.99767	.99774	.99781	.99788	.99795	.99801	.99807
2.90	.99813	.99819	.99825	.99831	.99836	.99841	.99846	.99851	.99856	.99861
3.00	.99865	.99869	.99874	.99878	.99882	.99886	.99889	.99893	.99896	.99900
3.10	.99903	.99906	.99910	.99913	.99916	.99918	.99921	.99924	.99926	.99929
3.20	.99931	.99934	.99936	.99938	.99940	.99942	.99944	.99946	.99948	.99950
3.30	.99952	.99953	.99955	.99957	.99958	.99960	.99961	.99962	.99964	.99965
3.40	.99966	.99968	.99969	.99970	.99971	.99972	.99973	.99974	.99975	.99976
3.50	.99977	.99978	.99978	.99979	.99980	.99981	.99981	.99982	.99983	.99983
3.60	.99984	.99985	.99985	.99986	.99986	.99987	.99987	.99988	.99988	.99989
3.70	.99989	.99990	.99990	.99990	.99991	.99991	.99992	.99992	.99992	.99992
3.80	.99993	.99993	.99993	.99994	.99994	.99994	.99994	.99995	.99995	.99995
3.90	.99995	.99995	.99996	.99996	.99996	.99996	.99996	.99996	.99997	.99997

## T2 Quantile der Normalverteilung

Tabelliert ist das  $\beta$ -Quantil  $z_\beta$  der Normalverteilung  $\mathcal{N}_{0,1}$ .

$\beta$	$z_\beta$
0.8	0.84162
0.9	1.28155
0.95	1.64485
0.975	1.95996
0.98	2.05375
0.99	2.32635
0.995	2.57583
0.9975	2.80703
0.998	2.87816
0.999	3.09023
0.9995	3.29053

## T3 Quantile der $t$ -Verteilung

Tabelliert ist das  $\alpha$ -Quantil  $t_{n;\alpha}$  der  $t$ -Verteilung mit  $n$  Freiheitsgraden.

$n$	$t_{n;0.9}$	$t_{n;0.95}$	$t_{n;0.975}$	$t_{n;0.99}$	$t_{n;0.995}$	$n$	$t_{n;0.9}$	$t_{n;0.95}$	$t_{n;0.975}$	$t_{n;0.99}$	$t_{n;0.995}$
1	3.0777	6.3138	12.7062	31.8205	63.6567	46	1.3002	1.6787	2.0129	2.4102	2.6870
2	1.8856	2.9200	4.3026	6.9646	9.9248	47	1.2998	1.6779	2.0117	2.4084	2.6846
3	1.6377	2.3534	3.1824	4.5407	5.8409	48	1.2994	1.6772	2.0106	2.4066	2.6822
4	1.5332	2.1318	2.7764	3.7470	4.6041	49	1.2991	1.6766	2.0096	2.4049	2.6800
5	1.4759	2.0150	2.5706	3.3649	4.0321	50	1.2987	1.6759	2.0086	2.4033	2.6778
6	1.4398	1.9432	2.4469	3.1427	3.7074	54	1.2974	1.6736	2.0049	2.3974	2.6700
7	1.4149	1.8946	2.3646	2.9980	3.4995	59	1.2961	1.6711	2.0010	2.3912	2.6618
8	1.3968	1.8596	2.3060	2.8965	3.3554	64	1.2949	1.6690	1.9977	2.3860	2.6548
9	1.3830	1.8331	2.2622	2.8214	3.2498	69	1.2939	1.6672	1.9950	2.3816	2.6490
10	1.3722	1.8125	2.2281	2.7638	3.1693	74	1.2931	1.6657	1.9925	2.3778	2.6439
11	1.3634	1.7959	2.2010	2.7181	3.1058	79	1.2924	1.6644	1.9904	2.3745	2.6395
12	1.3562	1.7823	2.1788	2.6810	3.0545	84	1.2917	1.6632	1.9886	2.3716	2.6356
13	1.3502	1.7709	2.1604	2.6503	3.0123	89	1.2911	1.6622	1.9870	2.3690	2.6322
14	1.3450	1.7613	2.1448	2.6245	2.9768	94	1.2906	1.6612	1.9855	2.3667	2.6292
15	1.3406	1.7530	2.1314	2.6025	2.9467	99	1.2902	1.6604	1.9842	2.3646	2.6264
16	1.3368	1.7459	2.1199	2.5835	2.9208	104	1.2897	1.6596	1.9830	2.3627	2.6239
17	1.3334	1.7396	2.1098	2.5669	2.8982	109	1.2894	1.6590	1.9820	2.3610	2.6217
18	1.3304	1.7341	2.1009	2.5524	2.8784	114	1.2890	1.6583	1.9810	2.3595	2.6196
19	1.3277	1.7291	2.0930	2.5395	2.8609	119	1.2887	1.6578	1.9801	2.3581	2.6178
20	1.3253	1.7247	2.0860	2.5280	2.8453	124	1.2884	1.6572	1.9793	2.3568	2.6161
21	1.3232	1.7207	2.0796	2.5176	2.8314	129	1.2882	1.6568	1.9785	2.3556	2.6145
22	1.3212	1.7171	2.0739	2.5083	2.8188	134	1.2879	1.6563	1.9778	2.3545	2.6130
23	1.3195	1.7139	2.0687	2.4999	2.8073	139	1.2877	1.6559	1.9772	2.3535	2.6117
24	1.3178	1.7109	2.0639	2.4922	2.7969	144	1.2875	1.6555	1.9766	2.3525	2.6104
25	1.3164	1.7081	2.0595	2.4851	2.7874	149	1.2873	1.6551	1.9760	2.3516	2.6092
26	1.3150	1.7056	2.0555	2.4786	2.7787	154	1.2871	1.6548	1.9755	2.3508	2.6081
27	1.3137	1.7033	2.0518	2.4727	2.7707	159	1.2869	1.6545	1.9750	2.3500	2.6071
28	1.3125	1.7011	2.0484	2.4671	2.7633	164	1.2867	1.6542	1.9745	2.3493	2.6061
29	1.3114	1.6991	2.0452	2.4620	2.7564	169	1.2866	1.6539	1.9741	2.3486	2.6052
30	1.3104	1.6973	2.0423	2.4573	2.7500	174	1.2864	1.6537	1.9737	2.3480	2.6044
31	1.3095	1.6955	2.0395	2.4528	2.7440	179	1.2863	1.6534	1.9733	2.3474	2.6036
32	1.3086	1.6939	2.0369	2.4487	2.7385	184	1.2862	1.6532	1.9729	2.3468	2.6028
33	1.3077	1.6924	2.0345	2.4448	2.7333	189	1.2860	1.6530	1.9726	2.3462	2.6021
34	1.3070	1.6909	2.0322	2.4412	2.7284	194	1.2859	1.6528	1.9723	2.3457	2.6014
35	1.3062	1.6896	2.0301	2.4377	2.7238	199	1.2858	1.6526	1.9720	2.3452	2.6008
36	1.3055	1.6883	2.0281	2.4345	2.7195	219	1.2854	1.6518	1.9709	2.3435	2.5985
37	1.3048	1.6871	2.0262	2.4314	2.7154	239	1.2851	1.6512	1.9699	2.3420	2.5966
38	1.3042	1.6860	2.0244	2.4286	2.7116	259	1.2848	1.6508	1.9692	2.3408	2.5949
39	1.3036	1.6849	2.0227	2.4258	2.7079	279	1.2846	1.6503	1.9685	2.3398	2.5936
40	1.3031	1.6838	2.0211	2.4233	2.7045	299	1.2844	1.6500	1.9679	2.3389	2.5924
41	1.3025	1.6829	2.0195	2.4208	2.7012	349	1.2840	1.6492	1.9668	2.3371	2.5900
42	1.3020	1.6820	2.0181	2.4185	2.6981	399	1.2837	1.6487	1.9659	2.3357	2.5882
43	1.3016	1.6811	2.0167	2.4162	2.6951	499	1.2832	1.6479	1.9647	2.3338	2.5857
44	1.3011	1.6802	2.0154	2.4141	2.6923	999	1.2824	1.6464	1.9623	2.3301	2.5808
45	1.3006	1.6794	2.0141	2.4121	2.6896	$\infty$	1.2816	1.6449	1.9600	2.3264	2.5758

## T4 Tabelle der $t$ -Verteilung

Tabelliert ist die Verteilungsfunktion  $t_n(x)$  der  $t$ -Verteilung mit  $n$  Freiheitsgraden.

$x \setminus n$	1	2	3	4	5	6	7	8	9	14	19
1.00	.75000	.78868	.80450	.81305	.81839	.82204	.82469	.82670	.82828	.83286	.83506
1.05	.75776	.79806	.81458	.82352	.82910	.83292	.83569	.83780	.83945	.84425	.84655
1.10	.76515	.80698	.82416	.83346	.83927	.84325	.84614	.84834	.85006	.85506	.85746
1.15	.77217	.81545	.83325	.84289	.84892	.85305	.85604	.85832	.86011	.86530	.86779
1.20	.77886	.82350	.84187	.85182	.85805	.86232	.86541	.86777	.86961	.87497	.87756
1.25	.78522	.83113	.85004	.86028	.86669	.87108	.87427	.87669	.87859	.88410	.88676
1.30	.79129	.83838	.85777	.86827	.87485	.87935	.88262	.88510	.88705	.89270	.89542
1.35	.79706	.84525	.86508	.87582	.88255	.88714	.89048	.89302	.89501	.90078	.90356
1.40	.80257	.85176	.87200	.88295	.88980	.89448	.89788	.90046	.90249	.90836	.91118
1.45	.80782	.85794	.87853	.88967	.89663	.90138	.90483	.90745	.90950	.91545	.91832
1.50	.81283	.86380	.88471	.89600	.90305	.90786	.91135	.91400	.91607	.92209	.92498
1.55	.81762	.86936	.89054	.90196	.90908	.91394	.91746	.92013	.92222	.92828	.93118
1.60	.82219	.87463	.89605	.90758	.91475	.91964	.92318	.92587	.92797	.93404	.93695
1.65	.82656	.87964	.90125	.91286	.92007	.92498	.92854	.93122	.93333	.93940	.94231
1.70	.83075	.88438	.90615	.91782	.92506	.92998	.93354	.93622	.93833	.94439	.94728
1.75	.83475	.88889	.91079	.92249	.92974	.93465	.93820	.94088	.94298	.94900	.95187
1.80	.83859	.89317	.91516	.92688	.93412	.93902	.94256	.94522	.94730	.95328	.95612
1.85	.84226	.89723	.91929	.93101	.93823	.94310	.94662	.94926	.95132	.95723	.96004
1.90	.84579	.90109	.92318	.93488	.94207	.94692	.95040	.95302	.95506	.96089	.96364
1.95	.84917	.90476	.92686	.93852	.94566	.95047	.95392	.95650	.95852	.96425	.96696
2.00	.85242	.90825	.93034	.94194	.94903	.95379	.95719	.95974	.96172	.96736	.97000
2.05	.85554	.91157	.93362	.94515	.95218	.95688	.96023	.96275	.96469	.97021	.97279
2.10	.85854	.91472	.93672	.94817	.95512	.95976	.96306	.96553	.96744	.97283	.97534
2.15	.86142	.91773	.93965	.95101	.95788	.96245	.96569	.96811	.96998	.97524	.97768
2.20	.86420	.92060	.94241	.95367	.96045	.96495	.96813	.97050	.97233	.97745	.97981
2.25	.86688	.92332	.94503	.95618	.96286	.96728	.97040	.97272	.97450	.97947	.98175
2.30	.86945	.92593	.94751	.95853	.96511	.96945	.97250	.97476	.97650	.98132	.98352
2.35	.87194	.92841	.94985	.96074	.96722	.97147	.97446	.97666	.97835	.98302	.98513
2.40	.87433	.93077	.95206	.96282	.96919	.97335	.97627	.97841	.98005	.98457	.98660
2.45	.87665	.93304	.95416	.96478	.97103	.97510	.97795	.98003	.98162	.98598	.98793
2.50	.87888	.93519	.95615	.96662	.97275	.97674	.97950	.98153	.98307	.98727	.98913
2.55	.88104	.93726	.95803	.96835	.97437	.97825	.98095	.98291	.98440	.98844	.99022
2.60	.88312	.93923	.95981	.96998	.97588	.97967	.98229	.98419	.98563	.98951	.99121
2.65	.88514	.94112	.96150	.97151	.97729	.98099	.98353	.98537	.98676	.99049	.99210
2.70	.88709	.94292	.96311	.97295	.97861	.98221	.98468	.98646	.98780	.99137	.99291
2.75	.88898	.94465	.96463	.97431	.97984	.98335	.98575	.98747	.98876	.99218	.99363
2.80	.89081	.94630	.96607	.97559	.98100	.98442	.98674	.98840	.98964	.99291	.99429
2.85	.89258	.94789	.96745	.97680	.98209	.98541	.98766	.98926	.99046	.99358	.99488
2.90	.89430	.94941	.96875	.97794	.98310	.98633	.98851	.99005	.99120	.99418	.99541
2.95	.89597	.95087	.96999	.97902	.98406	.98719	.98930	.99079	.99189	.99473	.99589

## Tabelle der $t$ -Verteilung

Tabelliert ist die Verteilungsfunktion  $t_n(x)$  der  $t$ -Verteilung mit  $n$  Freiheitsgraden.

$x \setminus n$	1	2	3	4	5	6	7	8	9	14	19
3.00	.89758	.95227	.97117	.98003	.98495	.98800	.99003	.99146	.99252	.99522	.99632
3.05	.89915	.95361	.97229	.98099	.98579	.98874	.99071	.99209	.99310	.99568	.99671
3.10	.90067	.95490	.97335	.98189	.98657	.98944	.99134	.99267	.99364	.99608	.99705
3.15	.90215	.95614	.97437	.98274	.98731	.99009	.99192	.99320	.99413	.99645	.99736
3.20	.90359	.95733	.97533	.98355	.98800	.99070	.99247	.99369	.99458	.99679	.99764
3.25	.90498	.95847	.97626	.98431	.98865	.99127	.99297	.99415	.99500	.99709	.99789
3.30	.90634	.95958	.97713	.98503	.98926	.99180	.99344	.99457	.99538	.99737	.99812
3.35	.90766	.96064	.97797	.98572	.98984	.99229	.99387	.99496	.99574	.99762	.99832
3.40	.90895	.96166	.97877	.98636	.99037	.99275	.99428	.99532	.99606	.99784	.99850
3.45	.91020	.96264	.97953	.98697	.99088	.99318	.99465	.99565	.99636	.99805	.99866
3.50	.91141	.96359	.98026	.98755	.99136	.99359	.99500	.99596	.99664	.99823	.99880
3.55	.91260	.96450	.98095	.98810	.99181	.99396	.99533	.99625	.99689	.99840	.99893
3.60	.91375	.96538	.98162	.98862	.99223	.99432	.99563	.99651	.99713	.99855	.99905
3.65	.91488	.96623	.98225	.98911	.99263	.99465	.99591	.99675	.99734	.99869	.99915
3.70	.91598	.96705	.98286	.98958	.99300	.99496	.99617	.99698	.99754	.99881	.99924
3.75	.91705	.96784	.98344	.99003	.99335	.99525	.99642	.99719	.99772	.99892	.99932
3.80	.91809	.96860	.98400	.99045	.99369	.99552	.99664	.99738	.99789	.99902	.99940
3.85	.91911	.96934	.98453	.99085	.99400	.99577	.99685	.99756	.99805	.99912	.99946
3.90	.92010	.97005	.98504	.99123	.99430	.99601	.99705	.99773	.99819	.99920	.99952
3.95	.92107	.97074	.98553	.99159	.99457	.99623	.99723	.99788	.99832	.99927	.99957
4.00	.92202	.97140	.98600	.99193	.99484	.99644	.99740	.99803	.99844	.99934	.99962
4.05	.92295	.97205	.98644	.99226	.99509	.99664	.99756	.99816	.99856	.99940	.99966
4.10	.92385	.97267	.98687	.99257	.99532	.99682	.99771	.99828	.99866	.99946	.99970
4.15	.92473	.97327	.98729	.99287	.99554	.99699	.99785	.99840	.99876	.99951	.99973
4.20	.92560	.97386	.98768	.99315	.99576	.99716	.99798	.99850	.99885	.99955	.99976
4.25	.92644	.97442	.98806	.99342	.99595	.99731	.99810	.99860	.99893	.99960	.99978
4.30	.92727	.97497	.98843	.99368	.99614	.99745	.99822	.99869	.99900	.99963	.99981
4.35	.92807	.97550	.98878	.99392	.99632	.99759	.99832	.99878	.99907	.99967	.99983
4.40	.92887	.97602	.98912	.99415	.99649	.99772	.99842	.99886	.99914	.99970	.99985
4.45	.92964	.97652	.98944	.99438	.99665	.99784	.99851	.99893	.99920	.99973	.99986
4.50	.93040	.97700	.98975	.99459	.99680	.99795	.99860	.99900	.99926	.99975	.99988
4.55	.93114	.97747	.99005	.99479	.99694	.99805	.99868	.99906	.99931	.99977	.99989
4.60	.93186	.97792	.99034	.99498	.99708	.99815	.99876	.99912	.99935	.99979	.99990
4.65	.93257	.97837	.99062	.99517	.99721	.99825	.99883	.99918	.99940	.99981	.99991
4.70	.93327	.97879	.99089	.99535	.99733	.99834	.99890	.99923	.99944	.99983	.99992
4.75	.93395	.97921	.99115	.99551	.99745	.99842	.99896	.99928	.99948	.99984	.99993
4.80	.93462	.97962	.99140	.99568	.99756	.99850	.99902	.99932	.99951	.99986	.99994
4.85	.93528	.98001	.99164	.99583	.99766	.99857	.99907	.99936	.99955	.99987	.99994
4.90	.93592	.98039	.99187	.99598	.99776	.99864	.99912	.99940	.99958	.99988	.99995
4.95	.93655	.98076	.99209	.99612	.99786	.99871	.99917	.99944	.99960	.99989	.99996

## Tabelle der $t$ -Verteilung

Tabelliert ist die Verteilungsfunktion  $t_n(x)$  der  $t$ -Verteilung mit  $n$  Freiheitsgraden.

$x \setminus n$	24	29	39	49	59	69	79	89	99	149	199
1.00	.83636	.83721	.83826	.83889	.83930	.83960	.83982	.83999	.84013	.84053	.84074
1.05	.84791	.84880	.84991	.85057	.85100	.85131	.85154	.85172	.85186	.85229	.85250
1.10	.85888	.85981	.86096	.86165	.86210	.86242	.86266	.86285	.86300	.86345	.86367
1.15	.86926	.87023	.87143	.87214	.87261	.87294	.87319	.87339	.87354	.87401	.87424
1.20	.87907	.88007	.88131	.88205	.88253	.88288	.88314	.88334	.88350	.88398	.88422
1.25	.88832	.88935	.89063	.89138	.89188	.89224	.89250	.89271	.89288	.89337	.89362
1.30	.89703	.89808	.89938	.90016	.90067	.90104	.90131	.90152	.90169	.90220	.90245
1.35	.90519	.90627	.90760	.90839	.90891	.90929	.90956	.90978	.90995	.91047	.91073
1.40	.91285	.91394	.91529	.91609	.91662	.91700	.91729	.91751	.91768	.91820	.91846
1.45	.92000	.92111	.92247	.92329	.92382	.92421	.92449	.92471	.92489	.92542	.92568
1.50	.92667	.92779	.92917	.92998	.93053	.93091	.93120	.93142	.93160	.93213	.93240
1.55	.93289	.93401	.93539	.93621	.93676	.93714	.93743	.93765	.93783	.93837	.93863
1.60	.93866	.93978	.94117	.94199	.94253	.94292	.94320	.94343	.94361	.94414	.94441
1.65	.94401	.94513	.94651	.94733	.94787	.94826	.94854	.94877	.94894	.94948	.94974
1.70	.94897	.95008	.95145	.95226	.95280	.95318	.95347	.95369	.95386	.95439	.95465
1.75	.95355	.95465	.95601	.95681	.95734	.95772	.95800	.95822	.95839	.95891	.95917
1.80	.95778	.95886	.96020	.96099	.96151	.96188	.96216	.96238	.96255	.96306	.96331
1.85	.96167	.96274	.96405	.96483	.96534	.96570	.96597	.96618	.96635	.96685	.96710
1.90	.96524	.96629	.96758	.96834	.96884	.96919	.96946	.96966	.96983	.97032	.97056
1.95	.96852	.96955	.97080	.97155	.97203	.97238	.97264	.97284	.97300	.97347	.97371
2.00	.97153	.97253	.97375	.97447	.97494	.97528	.97553	.97573	.97588	.97634	.97657
2.05	.97428	.97525	.97643	.97713	.97759	.97792	.97816	.97835	.97850	.97894	.97916
2.10	.97679	.97773	.97888	.97955	.97999	.98031	.98054	.98072	.98086	.98129	.98151
2.15	.97908	.97999	.98109	.98174	.98217	.98247	.98269	.98287	.98300	.98342	.98362
2.20	.98116	.98204	.98310	.98372	.98413	.98442	.98464	.98480	.98493	.98533	.98552
2.25	.98306	.98390	.98492	.98551	.98590	.98618	.98638	.98654	.98667	.98704	.98723
2.30	.98478	.98558	.98656	.98713	.98750	.98776	.98796	.98811	.98823	.98858	.98876
2.35	.98633	.98710	.98804	.98858	.98893	.98918	.98936	.98951	.98962	.98996	.99012
2.40	.98774	.98848	.98937	.98988	.99022	.99045	.99063	.99076	.99087	.99119	.99134
2.45	.98902	.98972	.99056	.99105	.99136	.99159	.99175	.99188	.99198	.99228	.99242
2.50	.99017	.99084	.99163	.99209	.99239	.99260	.99275	.99287	.99297	.99325	.99339
2.55	.99121	.99184	.99259	.99302	.99331	.99350	.99365	.99376	.99385	.99411	.99424
2.60	.99215	.99274	.99345	.99386	.99412	.99430	.99444	.99454	.99463	.99487	.99499
2.65	.99299	.99355	.99422	.99460	.99484	.99501	.99514	.99524	.99531	.99554	.99565
2.70	.99375	.99427	.99490	.99525	.99548	.99564	.99576	.99585	.99592	.99613	.99623
2.75	.99443	.99492	.99551	.99584	.99605	.99620	.99631	.99639	.99646	.99665	.99675
2.80	.99504	.99550	.99605	.99635	.99655	.99669	.99679	.99687	.99693	.99711	.99719
2.85	.99558	.99602	.99652	.99681	.99699	.99712	.99721	.99728	.99734	.99750	.99758
2.90	.99607	.99648	.99695	.99721	.99738	.99750	.99758	.99765	.99770	.99785	.99792
2.95	.99651	.99689	.99732	.99757	.99772	.99783	.99791	.99797	.99802	.99815	.99822



## Tabelle der $t$ -Verteilung

Tabelliert ist die Verteilungsfunktion  $t_n(x)$  der  $t$ -Verteilung mit  $n$  Freiheitsgraden.

$x \setminus n$	24	29	39	49	59	69	79	89	99	149	199
3.00	.99690	.99725	.99766	.99788	.99802	.99812	.99819	.99825	.99829	.99842	.99848
3.05	.99725	.99757	.99795	.99816	.99829	.99838	.99844	.99849	.99853	.99865	.99870
3.10	.99756	.99786	.99821	.99840	.99852	.99860	.99866	.99870	.99874	.99884	.99889
3.15	.99783	.99812	.99843	.99861	.99872	.99879	.99885	.99889	.99892	.99901	.99906
3.20	.99808	.99834	.99863	.99879	.99889	.99896	.99901	.99905	.99908	.99916	.99920
3.25	.99830	.99854	.99881	.99896	.99905	.99911	.99915	.99919	.99921	.99929	.99932
3.30	.99849	.99872	.99896	.99910	.99918	.99923	.99927	.99930	.99933	.99940	.99943
3.35	.99867	.99887	.99910	.99922	.99929	.99934	.99938	.99941	.99943	.99949	.99952
3.40	.99882	.99901	.99922	.99933	.99939	.99944	.99947	.99949	.99951	.99957	.99959
3.45	.99896	.99913	.99932	.99942	.99948	.99952	.99955	.99957	.99959	.99964	.99966
3.50	.99908	.99924	.99941	.99950	.99955	.99959	.99962	.99964	.99965	.99969	.99971
3.55	.99919	.99933	.99949	.99957	.99962	.99965	.99967	.99969	.99970	.99974	.99976
3.60	.99928	.99941	.99956	.99963	.99967	.99970	.99972	.99974	.99975	.99978	.99980
3.65	.99937	.99949	.99962	.99968	.99972	.99975	.99977	.99978	.99979	.99982	.99983
3.70	.99944	.99955	.99967	.99973	.99976	.99979	.99980	.99981	.99982	.99985	.99986
3.75	.99951	.99961	.99971	.99977	.99980	.99982	.99983	.99984	.99985	.99987	.99988
3.80	.99956	.99966	.99975	.99980	.99983	.99985	.99986	.99987	.99987	.99989	.99990
3.85	.99962	.99970	.99979	.99983	.99985	.99987	.99988	.99989	.99990	.99991	.99992
3.90	.99966	.99974	.99982	.99985	.99988	.99989	.99990	.99991	.99991	.99993	.99993
3.95	.99970	.99977	.99984	.99987	.99989	.99991	.99992	.99992	.99993	.99994	.99995
4.00	.99974	.99980	.99986	.99989	.99991	.99992	.99993	.99993	.99994	.99995	.99996
4.05	.99977	.99983	.99988	.99991	.99992	.99993	.99994	.99995	.99995	.99996	.99996
4.10	.99980	.99985	.99990	.99992	.99994	.99994	.99995	.99995	.99996	.99997	.99997
4.15	.99982	.99987	.99991	.99993	.99995	.99995	.99996	.99996	.99996	.99997	.99998
4.20	.99984	.99988	.99992	.99994	.99995	.99996	.99997	.99997	.99997	.99998	.99998
4.25	.99986	.99990	.99994	.99995	.99996	.99997	.99997	.99997	.99998	.99998	.99998
4.30	.99988	.99991	.99994	.99996	.99997	.99997	.99998	.99998	.99998	.99998	.99999
4.35	.99989	.99992	.99995	.99997	.99997	.99998	.99998	.99998	.99998	.99999	.99999
4.40	.99990	.99993	.99996	.99997	.99998	.99998	.99998	.99998	.99999	.99999	.99999
4.45	.99992	.99994	.99997	.99998	.99998	.99998	.99999	.99999	.99999	.99999	.99999
4.50	.99993	.99995	.99997	.99998	.99998	.99999	.99999	.99999	.99999	.99999	.99999
4.55	.99993	.99996	.99997	.99998	.99999	.99999	.99999	.99999	.99999	.99999	1
4.60	.99994	.99996	.99998	.99998	.99999	.99999	.99999	.99999	.99999	1	1
4.65	.99995	.99997	.99998	.99999	.99999	.99999	.99999	.99999	.99999	1	1
4.70	.99996	.99997	.99998	.99999	.99999	.99999	.99999	1	1	1	1
4.75	.99996	.99997	.99999	.99999	.99999	.99999	1	1	1	1	1
4.80	.99997	.99998	.99999	.99999	.99999	1	1	1	1	1	1
4.85	.99997	.99998	.99999	.99999	1	1	1	1	1	1	1
4.90	.99997	.99998	.99999	.99999	1	1	1	1	1	1	1
4.95	.99998	.99999	.99999	1	1	1	1	1	1	1	1

**T5 Quantile der  $\chi^2$ -Verteilung**Tabelliert ist das  $\alpha$ -Quantil  $\chi_{n;\alpha}^2$  der  $\chi^2$ -Verteilung mit  $n$  Freiheitsgraden.

$n \setminus \alpha$	0.01	0.025	0.050	0.100	0.250	0.500	0.750	0.900	0.950	0.975	0.990	0.995
1	.0002	.0010	.0039	.0158	.1015	.4549	1.323	2.706	3.841	5.024	6.635	7.879
2	.0201	.0507	.1026	.2107	.5754	1.386	2.773	4.605	5.991	7.378	9.210	10.60
3	.1148	.2158	.3518	.5844	1.213	2.366	4.108	6.251	7.815	9.348	11.34	12.84
4	.2971	.4844	.7107	1.064	1.923	3.357	5.385	7.779	9.488	11.14	13.28	14.86
5	.5543	.8312	1.145	1.610	2.675	4.351	6.626	9.236	11.07	12.83	15.09	16.75
6	.8721	1.237	1.635	2.204	3.455	5.348	7.841	10.64	12.59	14.45	16.81	18.55
7	1.239	1.690	2.167	2.833	4.255	6.346	9.037	12.02	14.07	16.01	18.48	20.28
8	1.646	2.180	2.733	3.490	5.071	7.344	10.22	13.36	15.51	17.53	20.09	21.95
9	2.088	2.700	3.325	4.168	5.899	8.343	11.39	14.68	16.92	19.02	21.67	23.59
10	2.558	3.247	3.940	4.865	6.737	9.342	12.55	15.99	18.31	20.48	23.21	25.19
11	3.053	3.816	4.575	5.578	7.584	10.34	13.70	17.28	19.68	21.92	24.72	26.76
12	3.571	4.404	5.226	6.304	8.438	11.34	14.85	18.55	21.03	23.34	26.22	28.30
13	4.107	5.009	5.892	7.042	9.299	12.34	15.98	19.81	22.36	24.74	27.69	29.82
14	4.660	5.629	6.571	7.790	10.17	13.34	17.12	21.06	23.68	26.12	29.14	31.32
15	5.229	6.262	7.261	8.547	11.04	14.34	18.25	22.31	25.00	27.49	30.58	32.80
16	5.812	6.908	7.962	9.312	11.91	15.34	19.37	23.54	26.30	28.85	32.00	34.27
17	6.408	7.564	8.672	10.09	12.79	16.34	20.49	24.77	27.59	30.19	33.41	35.72
18	7.015	8.231	9.390	10.86	13.68	17.34	21.60	25.99	28.87	31.53	34.81	37.16
19	7.633	8.907	10.12	11.65	14.56	18.34	22.72	27.20	30.14	32.85	36.19	38.58
20	8.260	9.591	10.85	12.44	15.45	19.34	23.83	28.41	31.41	34.17	37.57	40.00
21	8.897	10.28	11.59	13.24	16.34	20.34	24.93	29.62	32.67	35.48	38.93	41.40
22	9.542	10.98	12.34	14.04	17.24	21.34	26.04	30.81	33.92	36.78	40.29	42.80
23	10.20	11.69	13.09	14.85	18.14	22.34	27.14	32.01	35.17	38.08	41.64	44.18
24	10.86	12.40	13.85	15.66	19.04	23.34	28.24	33.20	36.42	39.36	42.98	45.56
25	11.52	13.12	14.61	16.47	19.94	24.34	29.34	34.38	37.65	40.65	44.31	46.93
26	12.20	13.84	15.38	17.29	20.84	25.34	30.43	35.56	38.89	41.92	45.64	48.29
27	12.88	14.57	16.15	18.11	21.75	26.34	31.53	36.74	40.11	43.19	46.96	49.64
28	13.56	15.31	16.93	18.94	22.66	27.34	32.62	37.92	41.34	44.46	48.28	50.99
29	14.26	16.05	17.71	19.77	23.57	28.34	33.71	39.09	42.56	45.72	49.59	52.34
30	14.95	16.79	18.49	20.60	24.48	29.34	34.80	40.26	43.77	46.98	50.89	53.67
40	22.16	24.43	26.51	29.05	33.66	39.34	45.62	51.81	55.76	59.34	63.69	66.77
50	29.71	32.36	34.76	37.69	42.94	49.33	56.33	63.17	67.50	71.42	76.15	79.49
60	37.48	40.48	43.19	46.46	52.29	59.33	66.98	74.40	79.08	83.30	88.38	91.95
70	45.44	48.76	51.74	55.33	61.70	69.33	77.58	85.53	90.53	95.02	100.4	104.2
80	53.54	57.15	60.39	64.28	71.14	79.33	88.13	96.58	101.9	106.6	112.3	116.3
90	61.75	65.65	69.13	73.29	80.62	89.33	98.65	107.6	113.1	118.1	124.1	128.3
100	70.06	74.22	77.93	82.36	90.13	99.33	109.1	118.5	124.3	129.6	135.8	140.2
150	112.7	118.0	122.7	128.3	138.0	149.3	161.3	172.6	179.6	185.8	193.2	198.4
200	156.4	162.7	168.3	174.8	186.2	199.3	213.1	226.0	234.0	241.1	249.4	255.3
250	200.9	208.1	214.4	221.8	234.6	249.3	264.7	279.1	287.9	295.7	304.9	311.3
300	246.0	253.9	260.9	269.1	283.1	299.3	316.1	331.8	341.4	349.9	359.9	366.8
400	337.2	346.5	354.6	364.2	380.6	399.3	418.7	436.6	447.6	457.3	468.7	476.6
500	429.4	439.9	449.1	459.9	478.3	499.3	521.0	540.9	553.1	563.9	576.5	585.2
600	522.4	534.0	544.2	556.1	576.3	599.3	623.0	644.8	658.1	669.8	683.5	693.0
700	615.9	628.6	639.6	652.5	674.4	699.3	724.9	748.4	762.7	775.2	790.0	800.1
800	709.9	723.5	735.4	749.2	772.7	799.3	826.6	851.7	866.9	880.3	896.0	906.8
900	804.3	818.8	831.4	846.1	871.0	899.3	928.2	954.8	970.9	985.0	1002	1013
1000	898.9	914.3	927.6	943.1	969.5	999.3	1030	1058	1075	1090	1107	1119

**T6 Quantile der Fisher'schen  $F_{m,n}$ -Verteilung: 90%-Quantil**Tabelliert ist das  $\alpha$ -Quantil  $F_{m,n;0.90}$ .

$n \setminus m$	1	2	3	4	5	6	7	8	9	10
1	39.863	49.500	53.593	55.833	57.240	58.204	58.906	59.439	59.858	60.195
2	8.526	9.000	9.162	9.243	9.293	9.326	9.349	9.367	9.381	9.392
3	5.538	5.462	5.391	5.343	5.309	5.285	5.266	5.252	5.240	5.230
4	4.545	4.325	4.191	4.107	4.051	4.010	3.979	3.955	3.936	3.920
5	4.060	3.780	3.619	3.520	3.453	3.404	3.368	3.339	3.316	3.297
6	3.776	3.463	3.289	3.181	3.108	3.055	3.014	2.983	2.958	2.937
7	3.589	3.257	3.074	2.961	2.883	2.827	2.785	2.752	2.725	2.703
8	3.458	3.113	2.924	2.806	2.726	2.668	2.624	2.589	2.561	2.538
9	3.360	3.006	2.813	2.693	2.611	2.551	2.505	2.469	2.440	2.416
10	3.285	2.924	2.728	2.605	2.522	2.461	2.414	2.377	2.347	2.323
11	3.225	2.860	2.660	2.536	2.451	2.389	2.342	2.304	2.274	2.248
12	3.177	2.807	2.606	2.480	2.394	2.331	2.283	2.245	2.214	2.188
13	3.136	2.763	2.560	2.434	2.347	2.283	2.234	2.195	2.164	2.138
14	3.102	2.726	2.522	2.395	2.307	2.243	2.193	2.154	2.122	2.095
15	3.073	2.695	2.490	2.361	2.273	2.208	2.158	2.119	2.086	2.059
16	3.048	2.668	2.462	2.333	2.244	2.178	2.128	2.088	2.055	2.028
17	3.026	2.645	2.437	2.308	2.218	2.152	2.102	2.061	2.028	2.001
18	3.007	2.624	2.416	2.286	2.196	2.130	2.079	2.038	2.005	1.977
19	2.990	2.606	2.397	2.266	2.176	2.109	2.058	2.017	1.984	1.956
20	2.975	2.589	2.380	2.249	2.158	2.091	2.040	1.999	1.965	1.937
21	2.961	2.575	2.365	2.233	2.142	2.075	2.023	1.982	1.948	1.920
22	2.949	2.561	2.351	2.219	2.128	2.060	2.008	1.967	1.933	1.904
23	2.937	2.549	2.339	2.207	2.115	2.047	1.995	1.953	1.919	1.890
24	2.927	2.538	2.327	2.195	2.103	2.035	1.983	1.941	1.906	1.877
25	2.918	2.528	2.317	2.184	2.092	2.024	1.971	1.929	1.895	1.866
26	2.909	2.519	2.307	2.174	2.082	2.014	1.961	1.919	1.884	1.855
27	2.901	2.511	2.299	2.165	2.073	2.005	1.952	1.909	1.874	1.845
28	2.894	2.503	2.291	2.157	2.064	1.996	1.943	1.900	1.865	1.836
29	2.887	2.495	2.283	2.149	2.057	1.988	1.935	1.892	1.857	1.827
30	2.881	2.489	2.276	2.142	2.049	1.980	1.927	1.884	1.849	1.819
35	2.855	2.461	2.247	2.113	2.019	1.950	1.896	1.852	1.817	1.787
40	2.835	2.440	2.226	2.091	1.997	1.927	1.873	1.829	1.793	1.763
45	2.820	2.425	2.210	2.074	1.980	1.909	1.855	1.811	1.774	1.744
50	2.809	2.412	2.197	2.061	1.966	1.895	1.840	1.796	1.760	1.729
55	2.799	2.402	2.186	2.050	1.955	1.884	1.829	1.785	1.748	1.717
60	2.791	2.393	2.177	2.041	1.946	1.875	1.819	1.775	1.738	1.707
65	2.784	2.386	2.170	2.033	1.938	1.867	1.811	1.767	1.730	1.699
70	2.779	2.380	2.164	2.027	1.931	1.860	1.804	1.760	1.723	1.691
75	2.774	2.375	2.158	2.021	1.926	1.854	1.798	1.754	1.716	1.685
80	2.769	2.370	2.154	2.016	1.921	1.849	1.793	1.748	1.711	1.680
85	2.765	2.366	2.149	2.012	1.916	1.845	1.789	1.744	1.706	1.675
90	2.762	2.363	2.146	2.008	1.912	1.841	1.785	1.739	1.702	1.670
95	2.759	2.359	2.142	2.005	1.909	1.837	1.781	1.736	1.698	1.667
100	2.756	2.356	2.139	2.002	1.906	1.834	1.778	1.732	1.695	1.663
150	2.739	2.338	2.121	1.983	1.886	1.814	1.757	1.712	1.674	1.642
200	2.731	2.329	2.111	1.973	1.876	1.804	1.747	1.701	1.663	1.631
300	2.722	2.320	2.102	1.964	1.867	1.794	1.737	1.691	1.652	1.620
400	2.718	2.316	2.098	1.959	1.862	1.789	1.732	1.686	1.647	1.615
500	2.716	2.313	2.095	1.956	1.859	1.786	1.729	1.683	1.644	1.612
$\infty$	2.706	2.303	2.084	1.945	1.847	1.774	1.717	1.670	1.632	1.599

## Fisher'sche $F_{m,n}$ -Verteilung: 95%-Quantil

Tabelliert ist das  $\alpha$ -Quantil  $F_{m,n;0.95}$ .

$n \setminus m$	1	2	3	4	5	6	7	8	9	10
1	161.448	199.500	215.707	224.583	230.162	233.986	236.768	238.883	240.543	241.882
2	18.513	19.000	19.164	19.247	19.296	19.330	19.353	19.371	19.385	19.396
3	10.128	9.552	9.277	9.117	9.013	8.941	8.887	8.845	8.812	8.786
4	7.709	6.944	6.591	6.388	6.256	6.163	6.094	6.041	5.999	5.964
5	6.608	5.786	5.409	5.192	5.050	4.950	4.876	4.818	4.772	4.735
6	5.987	5.143	4.757	4.534	4.387	4.284	4.207	4.147	4.099	4.060
7	5.591	4.737	4.347	4.120	3.972	3.866	3.787	3.726	3.677	3.637
8	5.318	4.459	4.066	3.838	3.687	3.581	3.500	3.438	3.388	3.347
9	5.117	4.256	3.863	3.633	3.482	3.374	3.293	3.230	3.179	3.137
10	4.965	4.103	3.708	3.478	3.326	3.217	3.135	3.072	3.020	2.978
11	4.844	3.982	3.587	3.357	3.204	3.095	3.012	2.948	2.896	2.854
12	4.747	3.885	3.490	3.259	3.106	2.996	2.913	2.849	2.796	2.753
13	4.667	3.806	3.411	3.179	3.025	2.915	2.832	2.767	2.714	2.671
14	4.600	3.739	3.344	3.112	2.958	2.848	2.764	2.699	2.646	2.602
15	4.543	3.682	3.287	3.056	2.901	2.790	2.707	2.641	2.588	2.544
16	4.494	3.634	3.239	3.007	2.852	2.741	2.657	2.591	2.538	2.494
17	4.451	3.592	3.197	2.965	2.810	2.699	2.614	2.548	2.494	2.450
18	4.414	3.555	3.160	2.928	2.773	2.661	2.577	2.510	2.456	2.412
19	4.381	3.522	3.127	2.895	2.740	2.628	2.544	2.477	2.423	2.378
20	4.351	3.493	3.098	2.866	2.711	2.599	2.514	2.447	2.393	2.348
21	4.325	3.467	3.072	2.840	2.685	2.573	2.488	2.420	2.366	2.321
22	4.301	3.443	3.049	2.817	2.661	2.549	2.464	2.396	2.342	2.297
23	4.279	3.422	3.028	2.796	2.640	2.528	2.442	2.375	2.320	2.275
24	4.260	3.403	3.009	2.776	2.621	2.508	2.423	2.355	2.300	2.255
25	4.242	3.385	2.991	2.759	2.603	2.490	2.405	2.337	2.282	2.236
26	4.225	3.369	2.975	2.743	2.587	2.474	2.388	2.321	2.265	2.220
27	4.210	3.354	2.960	2.728	2.572	2.459	2.373	2.305	2.250	2.204
28	4.196	3.340	2.947	2.714	2.558	2.445	2.359	2.291	2.236	2.190
29	4.183	3.328	2.934	2.701	2.545	2.432	2.346	2.278	2.223	2.177
30	4.171	3.316	2.922	2.690	2.534	2.421	2.334	2.266	2.211	2.165
35	4.121	3.267	2.874	2.641	2.485	2.372	2.285	2.217	2.161	2.114
40	4.085	3.232	2.839	2.606	2.449	2.336	2.249	2.180	2.124	2.077
45	4.057	3.204	2.812	2.579	2.422	2.308	2.221	2.152	2.096	2.049
50	4.034	3.183	2.790	2.557	2.400	2.286	2.199	2.130	2.073	2.026
55	4.016	3.165	2.773	2.540	2.383	2.269	2.181	2.112	2.055	2.008
60	4.001	3.150	2.758	2.525	2.368	2.254	2.167	2.097	2.040	1.993
65	3.989	3.138	2.746	2.513	2.356	2.242	2.154	2.084	2.027	1.980
70	3.978	3.128	2.736	2.503	2.346	2.231	2.143	2.074	2.017	1.969
75	3.968	3.119	2.727	2.494	2.337	2.222	2.134	2.064	2.007	1.959
80	3.960	3.111	2.719	2.486	2.329	2.214	2.126	2.056	1.999	1.951
85	3.953	3.104	2.712	2.479	2.322	2.207	2.119	2.049	1.992	1.944
90	3.947	3.098	2.706	2.473	2.316	2.201	2.113	2.043	1.986	1.938
95	3.941	3.092	2.700	2.467	2.310	2.196	2.108	2.037	1.980	1.932
100	3.936	3.087	2.696	2.463	2.305	2.191	2.103	2.032	1.975	1.927
150	3.904	3.056	2.665	2.432	2.274	2.160	2.071	2.001	1.943	1.894
200	3.888	3.041	2.650	2.417	2.259	2.144	2.056	1.985	1.927	1.878
300	3.873	3.026	2.635	2.402	2.244	2.129	2.040	1.969	1.911	1.862
400	3.865	3.018	2.627	2.394	2.237	2.121	2.032	1.962	1.903	1.854
500	3.860	3.014	2.623	2.390	2.232	2.117	2.028	1.957	1.899	1.850
$\infty$	3.842	2.996	2.605	2.372	2.215	2.099	2.010	1.939	1.880	1.831

## Fisher'sche $F_{m,n}$ -Verteilung: 97.5%-Quantil

Tabelliert ist das  $\alpha$ -Quantil  $F_{m,n;0.975}$ .

$n \setminus m$	1	2	3	4	5	6	7	8	9	10
1	647.789	799.500	864.163	899.583	921.848	937.111	948.217	956.656	963.285	968.627
2	38.506	39.000	39.165	39.248	39.298	39.331	39.355	39.373	39.387	39.398
3	17.443	16.044	15.439	15.101	14.885	14.735	14.624	14.540	14.473	14.419
4	12.218	10.649	9.979	9.605	9.364	9.197	9.074	8.980	8.905	8.844
5	10.007	8.434	7.764	7.388	7.146	6.978	6.853	6.757	6.681	6.619
6	8.813	7.260	6.599	6.227	5.988	5.820	5.695	5.600	5.523	5.461
7	8.073	6.542	5.890	5.523	5.285	5.119	4.995	4.899	4.823	4.761
8	7.571	6.059	5.416	5.053	4.817	4.652	4.529	4.433	4.357	4.295
9	7.209	5.715	5.078	4.718	4.484	4.320	4.197	4.102	4.026	3.964
10	6.937	5.456	4.826	4.468	4.236	4.072	3.950	3.855	3.779	3.717
11	6.724	5.256	4.630	4.275	4.044	3.881	3.759	3.664	3.588	3.526
12	6.554	5.096	4.474	4.121	3.891	3.728	3.607	3.512	3.436	3.374
13	6.414	4.965	4.347	3.996	3.767	3.604	3.483	3.388	3.312	3.250
14	6.298	4.857	4.242	3.892	3.663	3.501	3.380	3.285	3.209	3.147
15	6.200	4.765	4.153	3.804	3.576	3.415	3.293	3.199	3.123	3.060
16	6.115	4.687	4.077	3.729	3.502	3.341	3.219	3.125	3.049	2.986
17	6.042	4.619	4.011	3.665	3.438	3.277	3.156	3.061	2.985	2.922
18	5.978	4.560	3.954	3.608	3.382	3.221	3.100	3.005	2.929	2.866
19	5.922	4.508	3.903	3.559	3.333	3.172	3.051	2.956	2.880	2.817
20	5.871	4.461	3.859	3.515	3.289	3.128	3.007	2.913	2.837	2.774
21	5.827	4.420	3.819	3.475	3.250	3.090	2.969	2.874	2.798	2.735
22	5.786	4.383	3.783	3.440	3.215	3.055	2.934	2.839	2.763	2.700
23	5.750	4.349	3.750	3.408	3.183	3.023	2.902	2.808	2.731	2.668
24	5.717	4.319	3.721	3.379	3.155	2.995	2.874	2.779	2.703	2.640
25	5.686	4.291	3.694	3.353	3.129	2.969	2.848	2.753	2.677	2.613
26	5.659	4.265	3.670	3.329	3.105	2.945	2.824	2.729	2.653	2.590
27	5.633	4.242	3.647	3.307	3.083	2.923	2.802	2.707	2.631	2.568
28	5.610	4.221	3.626	3.286	3.063	2.903	2.782	2.687	2.611	2.547
29	5.588	4.201	3.607	3.267	3.044	2.884	2.763	2.669	2.592	2.529
30	5.568	4.182	3.589	3.250	3.026	2.867	2.746	2.651	2.575	2.511
35	5.485	4.106	3.517	3.178	2.956	2.796	2.676	2.581	2.504	2.440
40	5.424	4.051	3.463	3.126	2.904	2.744	2.624	2.529	2.452	2.388
45	5.377	4.008	3.422	3.086	2.864	2.705	2.584	2.489	2.412	2.348
50	5.340	3.975	3.390	3.054	2.833	2.674	2.553	2.458	2.381	2.317
55	5.310	3.948	3.364	3.029	2.807	2.648	2.528	2.433	2.355	2.291
60	5.286	3.925	3.343	3.008	2.786	2.627	2.507	2.412	2.334	2.270
65	5.265	3.906	3.324	2.990	2.769	2.610	2.489	2.394	2.317	2.252
70	5.247	3.890	3.309	2.975	2.754	2.595	2.474	2.379	2.302	2.237
75	5.232	3.876	3.296	2.962	2.741	2.582	2.461	2.366	2.289	2.224
80	5.218	3.864	3.284	2.950	2.730	2.571	2.450	2.355	2.277	2.213
85	5.207	3.854	3.274	2.940	2.720	2.561	2.440	2.345	2.268	2.203
90	5.196	3.844	3.265	2.932	2.711	2.552	2.432	2.336	2.259	2.194
95	5.187	3.836	3.257	2.924	2.703	2.544	2.424	2.328	2.251	2.186
100	5.179	3.828	3.250	2.917	2.696	2.537	2.417	2.321	2.244	2.179
150	5.126	3.781	3.204	2.872	2.652	2.494	2.373	2.278	2.200	2.135
200	5.100	3.758	3.182	2.850	2.630	2.472	2.351	2.256	2.178	2.113
300	5.075	3.735	3.160	2.829	2.609	2.451	2.330	2.234	2.156	2.091
400	5.062	3.723	3.149	2.818	2.598	2.440	2.319	2.224	2.146	2.080
500	5.054	3.716	3.142	2.811	2.592	2.434	2.313	2.217	2.139	2.074
$\infty$	5.024	3.689	3.116	2.786	2.566	2.408	2.288	2.192	2.114	2.048

**Fisher'sche  $F_{m,n}$ -Verteilung: 99%-Quantil**Tabelliert ist das  $\alpha$ -Quantil  $F_{m,n;0.99}$ .

$n \setminus m$	1	2	3	4	5	6	7	8	9	10
2	98.503	99.000	99.166	99.249	99.299	99.333	99.356	99.374	99.388	99.399
3	34.116	30.817	29.457	28.710	28.237	27.911	27.672	27.489	27.345	27.229
4	21.198	18.000	16.694	15.977	15.522	15.207	14.976	14.799	14.659	14.546
5	16.258	13.274	12.060	11.392	10.967	10.672	10.456	10.289	10.158	10.051
6	13.745	10.925	9.780	9.148	8.746	8.466	8.260	8.102	7.976	7.874
7	12.246	9.547	8.451	7.847	7.460	7.191	6.993	6.840	6.719	6.620
8	11.259	8.649	7.591	7.006	6.632	6.371	6.178	6.029	5.911	5.814
9	10.561	8.022	6.992	6.422	6.057	5.802	5.613	5.467	5.351	5.257
10	10.044	7.559	6.552	5.994	5.636	5.386	5.200	5.057	4.942	4.849
11	9.646	7.206	6.217	5.668	5.316	5.069	4.886	4.744	4.632	4.539
12	9.330	6.927	5.953	5.412	5.064	4.821	4.640	4.499	4.388	4.296
13	9.074	6.701	5.739	5.205	4.862	4.620	4.441	4.302	4.191	4.100
14	8.862	6.515	5.564	5.035	4.695	4.456	4.278	4.140	4.030	3.939
15	8.683	6.359	5.417	4.893	4.556	4.318	4.142	4.004	3.895	3.805
16	8.531	6.226	5.292	4.773	4.437	4.202	4.026	3.890	3.780	3.691
17	8.400	6.112	5.185	4.669	4.336	4.102	3.927	3.791	3.682	3.593
18	8.285	6.013	5.092	4.579	4.248	4.015	3.841	3.705	3.597	3.508
19	8.185	5.926	5.010	4.500	4.171	3.939	3.765	3.631	3.522	3.434
20	8.096	5.849	4.938	4.431	4.103	3.871	3.699	3.564	3.457	3.368
21	8.017	5.780	4.874	4.369	4.042	3.812	3.640	3.506	3.398	3.310
22	7.945	5.719	4.817	4.313	3.988	3.758	3.587	3.453	3.346	3.258
23	7.881	5.664	4.765	4.264	3.939	3.710	3.539	3.406	3.299	3.211
24	7.823	5.614	4.718	4.218	3.895	3.667	3.496	3.363	3.256	3.168
25	7.770	5.568	4.675	4.177	3.855	3.627	3.457	3.324	3.217	3.129
26	7.721	5.526	4.637	4.140	3.818	3.591	3.421	3.288	3.182	3.094
27	7.677	5.488	4.601	4.106	3.785	3.558	3.388	3.256	3.149	3.062
28	7.636	5.453	4.568	4.074	3.754	3.528	3.358	3.226	3.120	3.032
29	7.598	5.420	4.538	4.045	3.725	3.499	3.330	3.198	3.092	3.005
30	7.562	5.390	4.510	4.018	3.699	3.473	3.304	3.173	3.067	2.979
35	7.419	5.268	4.396	3.908	3.592	3.368	3.200	3.069	2.963	2.876
40	7.314	5.179	4.313	3.828	3.514	3.291	3.124	2.993	2.888	2.801
45	7.234	5.110	4.249	3.767	3.454	3.232	3.066	2.935	2.830	2.743
50	7.171	5.057	4.199	3.720	3.408	3.186	3.020	2.890	2.785	2.698
55	7.119	5.013	4.159	3.681	3.370	3.149	2.983	2.853	2.748	2.662
60	7.077	4.977	4.126	3.649	3.339	3.119	2.953	2.823	2.718	2.632
65	7.042	4.947	4.098	3.622	3.313	3.093	2.928	2.798	2.693	2.607
70	7.011	4.922	4.074	3.600	3.291	3.071	2.906	2.777	2.672	2.585
75	6.985	4.900	4.054	3.580	3.272	3.052	2.887	2.758	2.653	2.567
80	6.963	4.881	4.036	3.563	3.255	3.036	2.871	2.742	2.637	2.551
85	6.943	4.864	4.021	3.548	3.240	3.022	2.857	2.728	2.623	2.537
90	6.925	4.849	4.007	3.535	3.228	3.009	2.845	2.715	2.611	2.524
95	6.909	4.836	3.995	3.523	3.216	2.998	2.833	2.704	2.600	2.513
100	6.895	4.824	3.984	3.513	3.206	2.988	2.823	2.694	2.590	2.503
150	6.807	4.749	3.915	3.447	3.142	2.924	2.761	2.632	2.528	2.441
200	6.763	4.713	3.881	3.414	3.110	2.893	2.730	2.601	2.497	2.411
300	6.720	4.677	3.848	3.382	3.079	2.862	2.699	2.571	2.467	2.380
400	6.699	4.659	3.831	3.366	3.063	2.847	2.684	2.556	2.452	2.365
500	6.686	4.648	3.821	3.357	3.054	2.838	2.675	2.547	2.443	2.356
$\infty$	6.635	4.605	3.782	3.319	3.017	2.802	2.640	2.511	2.408	2.321

**Fisher'sche  $F_{m,n}$ -Verteilung: 99.5%-Quantil**Tabelliert ist das  $\alpha$ -Quantil  $F_{m,n;0.995}$ .

$n \setminus m$	1	2	3	4	5	6	7	8	9	10
3	55.552	49.799	47.467	46.195	45.392	44.838	44.434	44.126	43.882	43.686
4	31.333	26.284	24.259	23.154	22.456	21.975	21.622	21.352	21.139	20.967
5	22.785	18.314	16.530	15.556	14.940	14.513	14.200	13.961	13.772	13.618
6	18.635	14.544	12.917	12.028	11.464	11.073	10.786	10.566	10.391	10.250
7	16.236	12.404	10.882	10.050	9.522	9.155	8.885	8.678	8.514	8.380
8	14.688	11.042	9.596	8.805	8.302	7.952	7.694	7.496	7.339	7.211
9	13.614	10.107	8.717	7.956	7.471	7.134	6.885	6.693	6.541	6.417
10	12.826	9.427	8.081	7.343	6.872	6.545	6.302	6.116	5.968	5.847
11	12.226	8.912	7.600	6.881	6.422	6.102	5.865	5.682	5.537	5.418
12	11.754	8.510	7.226	6.521	6.071	5.757	5.525	5.345	5.202	5.085
13	11.374	8.186	6.926	6.233	5.791	5.482	5.253	5.076	4.935	4.820
14	11.060	7.922	6.680	5.998	5.562	5.257	5.031	4.857	4.717	4.603
15	10.798	7.701	6.476	5.803	5.372	5.071	4.847	4.674	4.536	4.424
16	10.575	7.514	6.303	5.638	5.212	4.913	4.692	4.521	4.384	4.272
17	10.384	7.354	6.156	5.497	5.075	4.779	4.559	4.389	4.254	4.142
18	10.218	7.215	6.028	5.375	4.956	4.663	4.445	4.276	4.141	4.030
19	10.073	7.093	5.916	5.268	4.853	4.561	4.345	4.177	4.043	3.933
20	9.944	6.986	5.818	5.174	4.762	4.472	4.257	4.090	3.956	3.847
21	9.830	6.891	5.730	5.091	4.681	4.393	4.179	4.013	3.880	3.771
22	9.727	6.806	5.652	5.017	4.609	4.322	4.109	3.944	3.812	3.703
23	9.635	6.730	5.582	4.950	4.544	4.259	4.047	3.882	3.750	3.642
24	9.551	6.661	5.519	4.890	4.486	4.202	3.991	3.826	3.695	3.587
25	9.475	6.598	5.462	4.835	4.433	4.150	3.939	3.776	3.645	3.537
26	9.406	6.541	5.409	4.785	4.384	4.103	3.893	3.730	3.599	3.492
27	9.342	6.489	5.361	4.740	4.340	4.059	3.850	3.687	3.557	3.450
28	9.284	6.440	5.317	4.698	4.300	4.020	3.811	3.649	3.519	3.412
29	9.230	6.396	5.276	4.659	4.262	3.983	3.775	3.613	3.483	3.377
30	9.180	6.355	5.239	4.623	4.228	3.949	3.742	3.580	3.450	3.344
35	8.976	6.188	5.086	4.479	4.088	3.812	3.607	3.447	3.318	3.212
40	8.828	6.066	4.976	4.374	3.986	3.713	3.509	3.350	3.222	3.117
45	8.715	5.974	4.892	4.294	3.909	3.638	3.435	3.276	3.149	3.044
50	8.626	5.902	4.826	4.232	3.849	3.578	3.376	3.219	3.092	2.988
55	8.554	5.843	4.773	4.181	3.800	3.531	3.330	3.173	3.046	2.942
60	8.495	5.795	4.729	4.140	3.760	3.492	3.291	3.134	3.008	2.904
65	8.445	5.755	4.692	4.105	3.726	3.459	3.259	3.103	2.977	2.873
70	8.403	5.720	4.661	4.076	3.698	3.431	3.232	3.076	2.950	2.846
75	8.366	5.691	4.635	4.050	3.674	3.407	3.208	3.052	2.927	2.823
80	8.335	5.665	4.611	4.028	3.652	3.387	3.188	3.032	2.907	2.803
85	8.307	5.643	4.591	4.009	3.634	3.368	3.170	3.014	2.889	2.786
90	8.282	5.623	4.573	3.992	3.617	3.352	3.154	2.999	2.873	2.770
95	8.260	5.605	4.557	3.977	3.603	3.338	3.140	2.985	2.860	2.756
100	8.241	5.589	4.542	3.963	3.589	3.325	3.127	2.972	2.847	2.744
150	8.118	5.490	4.453	3.878	3.508	3.245	3.048	2.894	2.770	2.667
200	8.057	5.441	4.408	3.837	3.467	3.206	3.010	2.856	2.732	2.629
300	7.997	5.393	4.365	3.796	3.428	3.167	2.972	2.818	2.694	2.592
400	7.968	5.369	4.343	3.775	3.408	3.148	2.953	2.800	2.676	2.573
500	7.950	5.355	4.330	3.763	3.396	3.137	2.941	2.788	2.665	2.562
$\infty$	7.879	5.298	4.279	3.715	3.350	3.091	2.897	2.744	2.621	2.519

**Fisher'sche  $F_{m,n}$ -Verteilung: 99.9%-Quantil**Tabelliert ist das  $\alpha$ -Quantil  $F_{m,n;0.999}$ .

$n \setminus m$	1	2	3	4	5	6	7	8	9	10
6	35.507	27.000	23.703	21.924	20.803	20.030	19.463	19.030	18.688	18.411
7	29.245	21.689	18.772	17.198	16.206	15.521	15.019	14.634	14.330	14.083
8	25.415	18.494	15.829	14.392	13.485	12.858	12.398	12.046	11.767	11.540
9	22.857	16.387	13.902	12.560	11.714	11.128	10.698	10.368	10.107	9.894
10	21.040	14.905	12.553	11.283	10.481	9.926	9.517	9.204	8.956	8.754
11	19.687	13.812	11.561	10.346	9.578	9.047	8.655	8.355	8.116	7.922
12	18.643	12.974	10.804	9.633	8.892	8.379	8.001	7.710	7.480	7.292
13	17.815	12.313	10.209	9.073	8.354	7.856	7.489	7.206	6.982	6.799
14	17.143	11.779	9.729	8.622	7.922	7.436	7.077	6.802	6.583	6.404
15	16.587	11.339	9.335	8.253	7.567	7.092	6.741	6.471	6.256	6.081
16	16.120	10.971	9.006	7.944	7.272	6.805	6.460	6.195	5.984	5.812
17	15.722	10.658	8.727	7.683	7.022	6.562	6.223	5.962	5.754	5.584
18	15.379	10.390	8.487	7.459	6.808	6.355	6.021	5.763	5.558	5.390
19	15.081	10.157	8.280	7.265	6.622	6.175	5.845	5.590	5.388	5.222
20	14.819	9.953	8.098	7.096	6.461	6.019	5.692	5.440	5.239	5.075
21	14.587	9.772	7.938	6.947	6.318	5.881	5.557	5.308	5.109	4.946
22	14.380	9.612	7.796	6.814	6.191	5.758	5.438	5.190	4.993	4.832
23	14.195	9.468	7.669	6.696	6.078	5.649	5.331	5.085	4.890	4.730
24	14.028	9.339	7.554	6.589	5.977	5.550	5.235	4.991	4.797	4.638
25	13.877	9.223	7.451	6.493	5.885	5.462	5.148	4.906	4.713	4.555
26	13.739	9.116	7.357	6.406	5.802	5.381	5.070	4.829	4.637	4.480
27	13.613	9.019	7.272	6.326	5.726	5.308	4.998	4.759	4.568	4.412
28	13.498	8.931	7.193	6.253	5.656	5.241	4.933	4.695	4.505	4.349
29	13.391	8.849	7.121	6.186	5.593	5.179	4.873	4.636	4.447	4.292
30	13.293	8.773	7.054	6.125	5.534	5.122	4.817	4.581	4.393	4.239
35	12.896	8.470	6.787	5.876	5.298	4.894	4.595	4.363	4.178	4.027
40	12.609	8.251	6.595	5.698	5.128	4.731	4.436	4.207	4.024	3.874
45	12.392	8.086	6.450	5.564	5.001	4.608	4.316	4.090	3.909	3.760
50	12.222	7.956	6.336	5.459	4.901	4.512	4.222	3.998	3.818	3.671
55	12.085	7.853	6.246	5.375	4.822	4.435	4.148	3.925	3.746	3.600
60	11.973	7.768	6.171	5.307	4.757	4.372	4.086	3.865	3.687	3.541
65	11.879	7.697	6.109	5.249	4.702	4.320	4.035	3.815	3.638	3.493
70	11.799	7.637	6.057	5.201	4.656	4.275	3.992	3.773	3.596	3.452
75	11.731	7.585	6.011	5.159	4.617	4.237	3.955	3.736	3.561	3.416
80	11.671	7.540	5.972	5.123	4.582	4.204	3.923	3.705	3.530	3.386
85	11.619	7.501	5.938	5.092	4.552	4.175	3.895	3.677	3.503	3.359
90	11.573	7.466	5.908	5.064	4.526	4.150	3.870	3.653	3.479	3.336
95	11.532	7.435	5.881	5.039	4.503	4.127	3.848	3.632	3.458	3.315
100	11.495	7.408	5.857	5.017	4.482	4.107	3.829	3.612	3.439	3.296
120	11.380	7.321	5.781	4.947	4.416	4.044	3.767	3.552	3.379	3.237
150	11.267	7.236	5.707	4.879	4.351	3.981	3.706	3.493	3.321	3.179
200	11.154	7.152	5.634	4.812	4.287	3.920	3.647	3.434	3.264	3.123
300	11.044	7.069	5.562	4.746	4.225	3.860	3.588	3.377	3.207	3.067
400	10.989	7.028	5.527	4.713	4.194	3.830	3.560	3.349	3.179	3.040
500	10.957	7.004	5.506	4.693	4.176	3.813	3.542	3.332	3.163	3.023
$\infty$	10.828	6.908	5.422	4.617	4.103	3.743	3.475	3.266	3.097	2.959



