

# Tabelle der $\chi^2$ -Verteilung

Die Tabelle enthält die Quantile der  $\chi^2_n$ -Verteilung zu verschiedenen Signifikanzniveaus  $\alpha$  und Freiheitsgraden  $n$ .

$n \backslash \alpha$	0,005	0,01	0,025	0,05	0,1	0,25	0,5	0,75	0,90	0,95	0,975	0,990	0,995	0,999	0,9995	0,9999
1	0,000	0,000	0,001	0,004	0,016	0,102	0,455	1,323	2,706	3,841	5,024	6,635	7,879	10,828	12,116	15,137
2	0,010	0,020	0,051	0,103	0,211	0,575	1,386	2,773	4,605	5,991	7,378	9,210	10,597	13,816	15,202	18,421
3	0,072	0,115	0,216	0,352	0,584	1,213	2,366	4,108	6,251	7,815	9,348	11,345	12,838	16,266	17,730	21,108
4	0,207	0,297	0,484	0,711	1,064	1,923	3,357	5,385	7,779	9,488	11,143	13,277	14,860	18,467	19,997	23,513
5	0,412	0,554	0,831	1,145	1,610	2,675	4,351	6,626	9,236	11,070	12,833	15,086	16,750	20,515	22,105	25,745
6	0,676	0,872	1,237	1,635	2,204	3,455	5,348	7,841	10,645	12,592	14,449	16,812	18,548	22,458	24,103	27,856
7	0,989	1,239	1,690	2,167	2,833	4,255	6,346	9,037	12,017	14,067	16,013	18,475	20,278	24,322	26,018	29,878
8	1,344	1,646	2,180	2,733	3,490	5,071	7,344	10,219	13,362	15,507	17,535	20,090	21,955	26,124	27,868	31,828
9	1,735	2,088	2,700	3,325	4,168	5,899	8,343	11,389	14,684	16,919	19,023	21,666	23,589	27,877	29,666	33,720
10	2,156	2,558	3,247	3,940	4,865	6,737	9,342	12,549	15,987	18,307	20,483	23,209	25,188	29,588	31,420	35,564
11	2,603	3,053	3,816	4,575	5,578	7,584	10,341	13,701	17,275	19,675	21,920	24,725	26,757	31,264	33,137	37,367
12	3,074	3,571	4,404	5,226	6,304	8,438	11,340	14,845	18,549	21,026	23,337	26,217	28,300	32,909	34,821	39,134
13	3,565	4,107	5,009	5,892	7,042	9,299	12,340	15,984	19,812	22,362	24,736	27,688	29,819	34,528	36,478	40,871
14	4,075	4,660	5,629	6,571	7,790	10,165	13,339	17,117	21,064	23,685	26,119	29,141	31,319	36,123	38,109	42,579
15	4,601	5,229	6,262	7,261	8,547	11,037	14,339	18,245	22,307	24,996	27,488	30,578	32,801	37,697	39,719	44,263
16	5,142	5,812	6,908	7,962	9,312	11,912	15,338	19,369	23,542	26,296	28,845	32,000	34,267	39,252	41,308	45,925
17	5,697	6,408	7,564	8,672	10,085	12,792	16,338	20,489	24,769	27,587	30,191	33,409	35,718	40,790	42,879	47,566
18	6,265	7,015	8,231	9,390	10,865	13,675	17,338	21,605	25,989	28,869	31,526	34,805	37,156	42,312	44,434	49,189
19	6,844	7,633	8,907	10,117	11,651	14,562	18,338	22,718	27,204	30,144	32,852	36,191	38,582	43,820	45,973	50,795
20	7,434	8,260	9,591	10,851	12,443	15,452	19,337	23,828	28,412	31,410	34,170	37,566	39,997	45,315	47,498	52,386
21	8,034	8,897	10,283	11,591	13,240	16,344	20,337	24,935	29,615	32,671	35,479	38,932	41,401	46,797	49,011	53,962
22	8,643	9,542	10,982	12,338	14,041	17,240	21,337	26,039	30,813	33,924	36,781	40,289	42,796	48,268	50,511	55,525
23	9,260	10,196	11,689	13,091	14,848	18,137	22,337	27,141	32,007	35,172	38,076	41,638	44,181	49,728	52,000	57,075
24	9,886	10,856	12,401	13,848	15,659	19,037	23,337	28,241	33,196	36,415	39,364	42,980	45,559	51,179	53,479	58,613
25	10,520	11,524	13,120	14,611	16,473	19,939	24,337	29,339	34,382	37,652	40,646	44,314	46,928	52,620	54,947	60,140
26	11,160	12,198	13,844	15,379	17,292	20,843	25,336	30,435	35,563	38,885	41,923	45,642	48,290	54,052	56,407	61,657
27	11,808	12,879	14,573	16,151	18,114	21,749	26,336	31,528	36,741	40,113	43,195	46,963	49,645	55,476	57,858	63,164
28	12,461	13,565	15,308	16,928	18,939	22,657	27,336	32,620	37,916	41,337	44,461	48,278	50,993	56,892	59,300	64,662
29	13,121	14,256	16,047	17,708	19,768	23,567	28,336	33,711	39,087	42,557	45,722	49,588	52,336	58,301	60,735	66,152
30	13,787	14,953	16,791	18,493	20,599	24,478	29,336	34,800	40,256	43,773	46,979	50,892	53,672	59,703	62,162	67,633
31	14,458	15,655	17,539	19,281	21,434	25,390	30,336	35,887	41,422	44,985	48,232	52,191	55,003	61,098	63,582	69,106
32	15,134	16,362	18,291	20,072	22,271	26,304	31,336	36,973	42,585	46,194	49,480	53,486	56,328	62,487	64,995	70,571
33	15,815	17,074	19,047	20,867	23,110	27,219	32,336	38,058	43,745	47,400	50,725	54,776	57,648	63,870	66,403	72,030
34	16,501	17,789	19,806	21,664	23,952	28,136	33,336	39,141	44,903	48,602	51,966	56,061	58,964	65,247	67,803	73,481
35	17,192	18,509	20,569	22,465	24,797	29,054	34,336	40,223	46,059	49,802	53,203	57,342	60,275	66,619	69,199	74,926
36	17,887	19,233	21,336	23,269	25,643	29,973	35,336	41,304	47,212	50,998	54,437	58,619	61,581	67,985	70,588	76,365
37	18,586	19,960	22,106	24,075	26,492	30,893	36,336	42,383	48,363	52,192	55,668	59,893	62,883	69,346	71,972	77,798
38	19,289	20,691	22,878	24,884	27,343	31,815	37,335	43,462	49,513	53,384	56,896	61,162	64,181	70,703	73,351	79,225
39	19,996	21,426	23,654	25,695	28,196	32,737	38,335	44,539	50,660	54,572	58,120	62,428	65,476	72,055	74,725	80,646
40	20,707	22,164	24,433	26,509	29,051	33,660	39,335	45,616	51,805	55,758	59,342	63,691	66,766	73,402	76,095	82,062
41	21,421	22,906	25,215	27,326	29,907	34,585	40,335	46,692	52,949	56,942	60,561	64,950	68,053	74,745	77,459	83,473
42	22,138	23,650	25,999	28,144	30,765	35,510	41,335	47,766	54,090	58,124	61,777	66,206	69,336	76,084	78,820	84,879
43	22,859	24,398	26,785	28,965	31,625	36,436	42,335	48,840	55,230	59,304	62,990	67,459	70,616	77,419	80,176	86,281
44	23,584	25,148	27,575	29,787	32,487	37,363	43,335	49,913	56,369	60,481	64,201	68,710	71,893	78,750	81,528	87,677
45	24,311	25,901	28,366	30,612	33,350	38,291	44,335	50,985	57,505	61,656	65,410	69,957	73,166	80,077	82,876	89,070
46	25,041	26,657	29,160	31,439	34,215	39,220	45,335	52,056	58,641	62,830	66,617	71,201	74,437	81,400	84,220	90,457
47	25,775	27,416	29,956	32,268	35,081	40,149	46,335	53,127	59,774	64,001	67,821	72,443	75,704	82,720	85,560	91,841
48	26,511	28,177	30,755	33,098	35,949	41,079	47,335	54,196	60,907	65,171	69,023	73,683	76,969	84,037	86,897	93,221
49	27,249	28,941	31,555	33,930	36,818	42,010	48,335	55,265	62,038	66,339	70,222	74,919	78,231	85,351	88,231	94,597
50	27,991	29,707	32,357	34,764	37,689	42,942	49,335	56,334	63,167	67,505	71,420	76,154	79,490	86,661	89,561	95,969