

χ <sup>2</sup> 分布表	ν, α	0.995	0.99	0.975	0.95	0.90	0.85	0.80	0.75	0.70	0.65	0.60	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.10	0.05	0.025	0.01	0.005
1	0.0000	0.0002	0.0010	0.0039	0.0158	0.0358	0.0642	0.1015	0.1485	0.2059	0.2750	0.3573	0.4549	0.5707	0.7083	0.8735	1.0742	1.3233	1.6424	2.0723	2.7055	3.8415	5.0239	6.6349	7.8794	
2	0.0100	0.0201	0.0506	0.1026	0.2107	0.3250	0.4463	0.5754	0.7133	0.8616	1.0217	1.1957	1.3863	1.5970	1.8326	2.0996	2.4079	2.7726	3.2189	3.7942	4.6052	5.9915	7.3778	9.2103	10.5966	
3	0.0717	0.1148	0.2158	0.3518	0.5844	0.7978	1.0052	1.2125	1.4237	1.6416	1.8692	2.1095	2.3660	2.6430	2.9422	3.2831	3.6649	4.1083	4.6416	5.3170	6.2514	7.8147	9.3484	11.3449	12.8382	
4	0.2070	0.2971	0.4844	0.7107	1.0636	1.3665	1.6488	1.9226	2.1947	2.4701	2.7528	3.0469	3.3567	3.6871	4.0446	4.4377	4.8784	5.3853	5.9886	6.7449	7.7794	9.4877	11.1433	13.2767	14.8603	
5	0.4117	0.5543	0.8312	1.1455	1.6103	1.9938	2.3425	2.6746	2.9999	3.3251	3.6555	3.9959	4.3515	4.7278	5.1319	5.5731	6.0644	6.6257	7.2893	8.1152	9.2364	11.0705	12.8325	15.0863	16.7496	
6	0.6757	0.8721	1.2373	1.6354	2.2041	2.6613	3.0701	3.4546	3.8276	4.1973	4.5702	4.9519	5.3481	5.7652	6.2108	6.6948	7.2311	7.8408	8.5581	9.4461	10.6446	12.5916	14.4494	16.8119	18.5476	
7	0.9893	1.2390	1.6899	2.1673	2.8331	3.3583	3.8223	4.2549	4.6713	5.0816	5.4932	5.9125	6.3458	6.8000	7.2832	7.8061	8.3834	9.0371	9.8032	10.7479	12.0170	14.0671	16.0128	18.4753	20.2777	
8	1.3444	1.6465	2.1797	2.7326	3.4895	4.0782	4.5936	5.0706	5.5274	5.9753	6.4226	6.8766	7.3441	7.8325	8.3505	8.9094	9.5245	10.2189	11.0301	12.0271	13.3616	15.5073	17.5345	20.0902	21.9550	
9	1.7349	2.0879	2.7004	3.3251	4.1682	4.8165	5.3801	5.8988	6.3933	6.8763	7.3570	7.8434	8.3428	8.8632	9.4136	10.0060	10.6564	11.3888	12.2421	13.2880	14.6837	16.9190	19.0228	21.6660	23.5894	
10	2.1559	2.5582	3.2470	3.9403	4.8652	5.5701	6.1791	6.7372	7.2672	7.7832	8.2955	8.8124	9.3418	9.8922	10.4732	11.0971	11.7807	12.5489	13.4420	14.5339	15.9872	18.3070	20.4832	23.2093	25.1882	
11	2.6032	3.0535	3.8157	4.5748	5.5778	6.3364	6.9887	7.5841	8.1479	8.6952	9.2373	9.7831	10.3410	10.9199	11.5298	12.1836	12.8987	13.7007	14.6314	15.7671	17.2750	19.6751	21.9200	24.7250	26.7568	
12	3.0738	3.5706	4.4038	5.2260	6.3038	7.1138	7.8073	8.4384	9.0343	9.6115	10.1820	10.7553	11.3403	11.9463	12.5838	13.2661	14.0111	14.8454	15.8120	16.9893	18.5493	21.0261	23.3367	26.2170	28.2995	
13	3.5650	4.1069	5.0088	5.8919	7.0415	7.9008	8.6339	9.2991	9.9257	10.5315	11.1291	11.7288	12.3398	12.9717	13.6356	14.3451	15.1187	15.9839	16.9848	18.2020	19.8119	22.3620	24.7356	27.6882	29.8195	
14	4.0747	4.6604	5.6287	6.5706	7.7895	8.6963	9.4673	10.1653	10.8215	11.4548	12.0785	12.7034	13.3393	13.9961	14.6853	15.4209	16.2221	17.1169	18.1508	19.4062	21.0641	23.6848	26.1189	29.1412	31.3193	
15	4.6009	5.2293	6.2621	7.2609	8.5468	9.4993	10.3070	11.0365	11.7212	12.3809	13.0297	13.6790	14.3389	15.0197	15.7332	16.4940	17.3217	18.2451	19.3107	20.6030	22.3071	24.9958	27.4884	30.5779	32.8013	
16	5.1422	5.8122	6.9077	7.9616	9.3122	10.3090	11.1521	11.9122	12.6243	13.3096	13.9829	14.6555	15.3385	16.0425	16.7795	17.5646	18.4179	19.3689	20.4651	21.7931	23.5418	26.2962	28.8454	31.9999	34.2672	
17	5.6972	6.4078	7.5642	8.6718	10.0852	11.1249	12.0023	12.7919	13.5307	14.2407	14.9373	15.6328	16.3382	17.0646	17.8244	18.6330	19.5110	20.4887	21.6146	22.9770	24.7690	27.5871	30.1910	33.4087	35.7185	
18	6.2648	7.0149	8.2307	9.3905	10.8649	11.9463	12.8570	13.6753	14.4399	15.1738	15.8932	16.6108	17.3379	18.0860	18.8679	19.6993	20.6014	21.6049	22.7595	24.1555	25.9894	28.8693	31.5264	34.8053	37.1565	
19	6.8440	7.6327	8.9065	10.1170	11.6509	12.7727	13.7158	14.5620	15.3517	16.1089	16.8504	17.5894	18.3377	19.1069	19.9102	20.7638	21.6891	22.7178	23.9004	25.3289	27.2036	30.1435	32.8523	36.1909	38.5823	
20	7.4338	8.2604	9.5908	10.8508	12.4426	13.6039	14.5784	15.4518	16.2659	17.0458	17.8088	18.5687	19.3374	20.1272	20.9514	21.8265	22.7745	23.8277	25.0375	26.4976	28.4120	31.4104	34.1696	37.5662	39.9968	
21	8.0337	8.8972	10.2829	11.5913	13.2396	14.4393	15.4446	16.3444	17.1823	17.9843	18.7683	19.5485	20.3372	21.1470	21.9915	22.8876	23.8578	24.9348	26.1711	27.6620	29.6151	32.6706	35.4789	38.9322	41.4011	
22	8.6427	9.5425	10.9823	12.3380	14.0415	15.2788	16.3140	17.2396	18.0007	18.9243	19.7288	20.5288	21.3370	22.1663	23.0307	23.9473	24.9390	26.0393	27.3015	28.8225	30.8133	33.9244	36.7807	40.2894	42.7957	
23	9.2604	10.1957	11.6886	13.0905	14.8480	16.1219	17.1865	18.1373	19.0211	19.8657	20.6902	21.5096	22.3369	23.1852	24.0689	25.0055	26.0184	27.1413	28.4288	29.9792	32.0069	35.1725	38.0756	41.6384	44.1813	
24	9.8862	10.8564	12.4012	13.8484	15.6587	16.9686	18.0618	19.0373	19.9432	20.8084	21.6525	22.4908	23.3367	24.2037	25.1063	26.0625	27.0960	28.2412	29.5533	31.1325	33.1962	36.4150	39.3641	42.9798	45.5585	
25	10.5197	11.5240	13.1197	14.6114	16.4734	17.8184	18.9398	19.9393	20.8670	21.7524	22.6156	23.4724	24.3366	25.2218	26.1430	27.1183	28.1719	29.3389	30.6752	32.2825	34.3816	37.6525	40.6465	44.3141	46.9279	
26	11.1602	12.1981	13.8439	15.3792	17.2919	18.6714	19.8202	20.8434	21.7924	22.6975	23.5794	24.4544	25.3365	26.2395	27.1789	28.1730	29.2463	30.4346	31.7946	33.4295	35.5632	38.8851	41.9322	45.6417	48.2899	
27	11.8076	12.8785	14.5734	16.1514	18.1139	19.5272	20.7030	21.7494	22.7192	23.6437	24.5440	25.4368	26.3363	27.2569	28.2141	29.2266	30.3193	31.5284	32.9117	34.5736	36.7412	40.1133	43.1945	46.9629	49.6449	
28	12.4613	13.5647	15.3079	16.9279	18.9392	20.3857	21.5880	22.6572	23.6475	24.5909	25.5093	26.4195	27.3362	28.2740	29.2486	30.2791	31.3909	32.6205	34.0266	35.7150	37.9159	41.3371	44.4608	48.2782	50.9934	
29	13.1211	14.2565	16.0471	17.7084	19.7677	21.2468	22.4751	23.5666	24.5770	25.5391	26.4751	27.4025	28.3361	29.2908	30.2825	31.3308	32.4612	33.7109	35.1394	36.8538	39.0875	42.5570	45.7223	49.5879	52.3356	
30	13.7867	14.9535	16.7908	18.4927	20.5992	22.1103	23.3641	24.4776	25.5078	26.4881	27.4416	28.3858	29.3360	30.3073	31.3159	32.3815	33.5302	34.7997	36.2502	37.9903	40.2560	43.7730	46.9792	50.8922	53.6720	
100	67.3276	70.0649	74.2219	77.9295	82.3581	85.4406	87.9453	90.1332	92.1289	94.0046	95.8078	97.5744	99.3341	101.1149	102.9459	104.8615	106.9658	109.1412	111.6667	114.6588	118.4980	124.3421	129.5612	135.8067	140.1695	
120	83.8516	86.9233	91.5726	95.7046	100.6236	104.0374	106.8056	109.2197	111.4186	113.4825	115.4645	117.4041	119.3340	121.2850	123.2890	125.3833	127.6159	130.0546	132.8063	136.0620	140.2326	146.5674	152.2114	158.9502	163.6482	
140	100.6548	104.0344	109.1369	113.6593	119.0293	122.7476	125.7581	128.3800	130.7657	133.0027	135.1490	137.2475	139.3339	141.4413	143.6043	145.8629	148.2686	150.8941	153.8537	157.3517	161.8270	168.6130	174.6478	181.8403	186.8468	
160	117.6793	121.3456	126.8700	131.7561	137.5457	141.5475	144.7834	147.5988	150.1582	152.5564	154.8555	157.1019	159.3338	161.5868	163.8977	166.3092	168.8759	171.6752	174.8283	178.5517	183.3106	190.5165	196.9151	204.5031	209.8239	
180	134.8844	138.8204	144.7413	149.9688	156.1526	160.4206	163.8682	166.8653	169.5879	172.1373	174.5799	176.9652	179.3338	181.7234	184.1732	186.7282	189.4462	192.4086	195.7434	199.6786	204.7037	212.3039	219.0443	227.0561	232.6198	
200	152.2410	156.4320	162.7280	168.2786	174.8353	179.3550	183.0028	186.1717	189.0486	191.7409	194.3193	196.8359	199.3337	201.8526	204.4337	207.1244	209.9854	213.1022	216.6088	220.7441	226.0210	233.9943	241.0579	249.4451	255.2642	
240	187.3243	191.9899	198.9839	205.1354	212.3856	217.3736	221.3936	224.8819	228.0458	231.0041	233.8348	236.5955	239.3337	242.0928	244.9181	247.8612	250.9881	254.3918	258.2179	262.7255	268.4707	277.1376	284.8025	293.8881	300.1822	

(注) νは自由度、αは確率を示す。