

Wartości krytyczne  $\chi^2(\alpha; r)$  rozkładu chi-kwadrat

$r \backslash \alpha$	0.990	0.975	0.950	0.900	0.100	0.050	0.025	0.010
1	0.0 <sup>3</sup> 157	0.0 <sup>3</sup> 982	0.0 <sup>2</sup> 393	0.0158	2.7055	3.8415	5.0239	6.6349
2	0.0201	0.0506	0.1026	0.2107	4.6052	5.9915	7.3778	9.2104
3	0.1148	0.2158	0.3518	0.5844	6.2514	7.8147	9.3484	11.3449
4	0.2971	0.4844	0.7107	1.0636	7.7794	9.4877	11.1433	13.2767
5	0.5543	0.8312	1.1455	1.6103	9.2363	11.0705	12.8325	15.0863
6	0.8721	1.2373	1.6354	2.2041	10.6446	12.5916	14.4494	16.8119
7	1.2390	1.6899	2.1673	2.8331	12.0170	14.0671	16.0128	18.4753
8	1.6465	2.1797	2.7326	3.4895	13.3616	15.5073	17.5345	20.0902
9	2.0879	2.7004	3.3251	4.1682	14.6837	16.9190	19.0228	21.6660
10	2.5582	3.2470	3.9403	4.8652	15.9872	18.3070	20.4832	23.2093
11	3.0535	3.8157	4.5748	5.5778	17.2750	19.6752	21.9200	24.7250
12	3.5706	4.4038	5.2260	6.3038	18.5493	21.0261	23.3367	26.2170
13	4.1069	5.0087	5.8919	7.0415	19.8119	22.3620	24.7356	27.6882
14	4.6604	5.6287	6.5706	7.7895	21.0641	23.6848	26.1189	29.1412
15	5.2294	6.2621	7.2609	8.5468	22.3071	24.9958	27.4884	30.5780
16	5.8122	6.9077	7.9616	9.3122	23.5418	26.2962	28.8453	31.9999
17	6.4077	7.5642	8.6718	10.0852	24.7690	27.5871	30.1910	33.4087
18	7.0149	8.2307	9.3904	10.8649	25.9894	28.8693	31.5264	34.8052
19	7.6327	8.9065	10.1170	11.6509	27.2036	30.1435	32.8523	36.1908
20	8.2604	9.5908	10.8508	12.4426	28.4120	31.4104	34.1696	37.5663
21	8.8972	10.2829	11.5913	13.2396	29.6151	32.6706	35.4789	38.9322
22	9.5425	10.9823	12.3380	14.0415	30.8133	33.9245	36.7807	40.2894
23	10.1957	11.6885	13.0905	14.8480	32.0069	35.1725	38.0756	41.6383
24	10.8563	12.4011	13.8484	15.6587	33.1962	36.4150	39.3641	42.9798
25	11.5240	13.1197	14.6114	16.4734	34.3816	37.6525	40.6465	44.3140
26	12.1982	13.8439	15.3792	17.2919	35.6322	38.8851	41.9231	45.6416
27	12.8785	14.5734	16.1514	18.1139	36.9412	40.1133	43.1945	46.9628
28	13.5647	15.3079	16.9279	18.9392	38.2159	41.3372	44.4608	48.2782
29	14.2564	16.0471	17.7084	19.7677	39.5675	42.5969	45.7223	49.5878
30	14.9535	16.7908	18.4927	20.5992	40.8950	43.8304	46.9792	50.8922
35	18.5089	20.5694	22.4650	24.7966	46.0588	49.8018	53.2033	57.3420
40	22.1642	24.4331	26.5093	29.0505	51.8050	55.7585	59.3417	63.6908
45	25.9012	28.3662	30.6123	33.3504	57.5053	61.6562	65.4101	69.9569
50	29.7067	32.3574	34.7642	37.6886	63.1671	67.5048	71.4202	76.1538
55	33.5705	36.3981	38.9581	42.0596	68.7962	73.3115	77.3804	82.2920
60	37.4848	40.4817	43.1880	46.4589	74.3970	79.0820	83.2977	88.3794
65	41.4436	44.6030	47.4496	50.8829	79.9730	84.8206	89.1772	94.4220
70	45.4417	48.7575	51.7393	55.3289	85.5270	90.5313	95.0231	100.4251
75	49.4751	52.9419	56.0541	59.7946	91.0615	96.2167	100.8393	106.3929
80	53.5400	57.1532	60.3915	64.2778	96.5782	101.8795	106.6285	112.3288
85	57.6339	61.3888	64.7494	68.7771	102.0789	107.5217	112.3933	118.2356
90	61.7540	65.6466	69.1260	73.2911	107.5650	113.1452	118.1359	124.1162
95	65.8983	69.9249	73.5198	77.8184	113.0377	118.7516	123.8580	129.9725
100	70.0650	74.2219	77.9294	82.3581	118.4980	124.3421	129.5613	135.8069