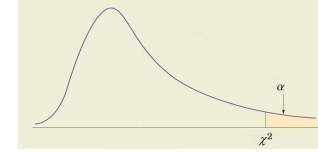


Bảng giá trị phân vị Chi-Square $\chi^2(n; \alpha)$

Ghi chú: n là số bậc tự do

Ví dụ: $\chi^2(9; 0.025) = 19.02277$

Ý nghĩa: $X \sim \chi^2(9) : P(X > 19.02277) = 0.025$



n/a	0.005	0.01	0.02	0.025	0.05	0.1	0.9	0.95	0.975	0.98	0.99	0.995
1	7.87944	6.63490	5.41189	5.02389	3.84146	2.70554	0.01579	0.00393	0.00098	0.00063	0.00016	0.00004
2	10.59663	9.21034	7.82405	7.37776	5.99146	4.60517	0.21072	0.10259	0.05064	0.04041	0.02010	0.01003
3	12.83816	11.34487	9.83741	9.34840	7.81473	6.25139	0.58437	0.35185	0.21580	0.18483	0.11483	0.07172
4	14.86026	13.27670	11.66784	11.14329	9.48773	7.77944	1.06362	0.71072	0.48442	0.42940	0.29711	0.20699
5	16.74960	15.08627	13.38822	12.83250	11.07050	9.23636	1.61031	1.14548	0.83121	0.75189	0.55430	0.41174
6	18.54758	16.81189	15.03321	14.44938	12.59159	10.64464	2.20413	1.63538	1.23734	1.13442	0.87209	0.67573
7	20.27774	18.47531	16.62242	16.01276	14.06714	12.01704	2.83311	2.16735	1.68987	1.56429	1.23904	0.98926
8	21.95495	20.09024	18.16823	17.53455	15.50731	13.36157	3.48954	2.73264	2.17973	2.03248	1.64650	1.34441
9	23.58935	21.66599	19.67902	19.02277	16.91898	14.68366	4.16816	3.32511	2.70039	2.53238	2.08790	1.73493
10	25.18818	23.20925	21.16077	20.48318	18.30704	15.98718	4.86518	3.94030	3.24697	3.05905	2.55821	2.15586
11	26.75685	24.72497	22.61794	21.92005	19.67514	17.27501	5.57778	4.57481	3.81575	3.60869	3.05348	2.60322
12	28.29952	26.21697	24.05396	23.33666	21.02607	18.54935	6.30380	5.22603	4.40379	4.17829	3.57057	3.07382
13	29.81947	27.68825	25.47151	24.73560	22.36203	19.81193	7.04150	5.89186	5.00875	4.76545	4.10692	3.56503
14	31.31935	29.14124	26.87276	26.11895	23.68479	21.06414	7.78953	6.57063	5.62873	5.36820	4.66043	4.07467
15	32.80132	30.57791	28.25950	27.48839	24.99579	22.30713	8.54676	7.26094	6.26214	5.98492	5.22935	4.60092
16	34.26719	31.99993	29.63318	28.84535	26.29623	23.54183	9.31224	7.96165	6.90766	6.61424	5.81221	5.14221
17	35.71847	33.40866	30.99505	30.19101	27.58711	24.76904	10.08519	8.67176	7.56419	7.25500	6.40776	5.69722
18	37.15645	34.80531	32.34616	31.52638	28.86930	25.98942	10.86494	9.39046	8.23075	7.90622	7.01491	6.26480
19	38.58226	36.19087	33.68743	32.85233	30.14353	27.20357	11.65091	10.11701	8.90652	8.56704	7.63273	6.84397
20	39.99685	37.56623	35.01963	34.16961	31.41043	28.41198	12.44261	10.85081	9.59078	9.23670	8.26040	7.43384
21	41.40106	38.93217	36.34345	35.47888	32.67057	29.61509	13.23960	11.59131	10.28290	9.91456	8.89720	8.03365
22	42.79565	40.28936	37.65950	36.78071	33.92444	30.81328	14.04149	12.33801	10.98232	10.60003	9.54249	8.64272
23	44.18128	41.63840	38.96831	38.07563	35.17246	32.00690	14.84796	13.09051	11.68855	11.29260	10.19572	9.26042
24	45.55851	42.97982	40.27036	39.36408	36.41503	33.19624	15.65868	13.84843	12.40115	11.99182	10.85636	9.88623
25	46.92789	44.31410	41.56607	40.64647	37.65248	34.38159	16.47341	14.61141	13.11972	12.69727	11.52398	10.51965
26	48.28988	45.64168	42.85583	41.92317	38.88514	35.56317	17.29189	15.37916	13.84391	13.40858	12.19815	11.16024
27	49.64492	46.96294	44.13999	43.19451	40.11327	36.74122	18.11390	16.15140	14.57338	14.12542	12.87850	11.80759
28	50.99338	48.27824	45.41885	44.46079	41.33714	37.91592	18.93924	16.92788	15.30786	14.84748	13.56471	12.46134
29	52.33562	49.58788	46.69270	45.72229	42.55697	39.08747	19.76774	17.70837	16.04707	15.57448	14.25645	13.12115
30	53.67196	50.89218	47.96180	46.97924	43.77297	40.25602	20.59923	18.49266	16.79077	16.30617	14.95346	13.78672

n/a	0.005	0.01	0.02	0.025	0.05	0.1	0.9	0.95	0.975	0.98	0.99	0.995
31	55.00270	52.19139	49.22640	48.23189	44.98534	41.42174	21.43356	19.28057	17.53874	17.04232	15.65546	14.45777
32	56.32811	53.48577	50.48670	49.48044	46.19426	42.58475	22.27059	20.07191	18.29076	17.78271	16.36222	15.13403
33	57.64845	54.77554	51.74292	50.72508	47.39988	43.74518	23.11020	20.86653	19.04666	18.52715	17.07351	15.81527
34	58.96393	56.06091	52.99524	51.96600	48.60237	44.90316	23.95225	21.66428	19.80625	19.27544	17.78915	16.50127
35	60.27477	57.34207	54.24383	53.20335	49.80185	46.05879	24.79666	22.46502	20.56938	20.02743	18.50893	17.19182
36	61.58118	58.61921	55.48886	54.43729	50.99846	47.21217	25.64330	23.26861	21.33588	20.78295	19.23268	17.88673
37	62.88334	59.89250	56.73047	55.66797	52.19232	48.36341	26.49209	24.07494	22.10563	21.54185	19.96023	18.58581
38	64.18141	61.16209	57.96880	56.89552	53.38354	49.51258	27.34295	24.88390	22.87848	22.30401	20.69144	19.28891
39	65.47557	62.42812	59.20398	58.12006	54.57223	50.65977	28.19579	25.69539	23.65432	23.06929	21.42616	19.99587
40	66.76596	63.69074	60.43613	59.34171	55.75848	51.80506	29.05052	26.50930	24.43304	23.83757	22.16426	20.70654
41	68.05273	64.95007	61.66538	60.56057	56.94239	52.94851	29.90709	27.32555	25.21452	24.60875	22.90561	21.42078
42	69.33600	66.20624	62.89181	61.77676	58.12404	54.09020	30.76542	28.14405	25.99866	25.38271	23.65009	22.13846
43	70.61590	67.45935	64.11554	62.99036	59.30351	55.23019	31.62545	28.96472	26.78537	26.15935	24.39760	22.85947
44	71.89255	68.70951	65.33667	64.20146	60.48089	56.36854	32.48713	29.78748	27.57457	26.93859	25.14803	23.58369
45	73.16606	69.95683	66.55527	65.41016	61.65623	57.50530	33.35038	30.61226	28.36615	27.72034	25.90127	24.31101
46	74.43654	71.20140	67.77143	66.61653	62.82962	58.64054	34.21517	31.43900	29.16005	28.50450	26.65724	25.04133
47	75.70407	72.44331	68.98524	67.82065	64.00111	59.77429	35.08143	32.26762	29.95620	29.29101	27.41585	25.77456
48	76.96877	73.68264	70.19676	69.02259	65.17077	60.90661	35.94913	33.09808	30.75451	30.07979	28.17701	26.51059
49	78.23071	74.91947	71.40608	70.22241	66.33865	62.03754	36.81822	33.93031	31.55492	30.87076	28.94065	27.24935
50	79.48998	76.15389	72.61325	71.42020	67.50481	63.16712	37.68865	34.76425	32.35736	31.66386	29.70668	27.99075
51	80.74666	77.38596	73.81835	72.61599	68.66929	64.29540	38.56038	35.59986	33.16179	32.45903	30.47505	28.73471
52	82.00083	78.61576	75.02143	73.80986	69.83216	65.42241	39.43339	36.43709	33.96813	33.25621	31.24567	29.48116
53	83.25255	79.84334	76.22255	75.00186	70.99345	66.54820	40.30762	37.27589	34.77633	34.05533	32.01849	30.23003
54	84.50190	81.06877	77.42177	76.19205	72.15322	67.67279	41.18304	38.11622	35.58634	34.85635	32.79345	30.98125
55	85.74895	82.29212	78.61914	77.38047	73.31149	68.79621	42.05962	38.95803	36.39811	35.65921	33.57048	31.73476
56	86.99376	83.51343	79.81471	78.56716	74.46832	69.91851	42.93734	39.80128	37.21159	36.46385	34.34952	32.49049
57	88.23638	84.73277	81.00854	79.75219	75.62375	71.03971	43.81615	40.64593	38.02674	37.27025	35.13053	33.24838
58	89.47687	85.95018	82.20065	80.93559	76.77780	72.15984	44.69603	41.49195	38.84351	38.07833	35.91346	34.00838
59	90.71529	87.16571	83.39111	82.11741	77.93052	73.27893	45.57695	42.33931	39.66186	38.88807	36.69825	34.77043
60	91.95170	88.37942	84.57995	83.29768	79.08194	74.39701	46.45889	43.18796	40.48175	39.69942	37.48485	35.53449
61	93.18614	89.59134	85.76721	84.47644	80.23210	75.51409	47.34182	44.03787	41.30314	40.51235	38.27323	36.30050
62	94.41865	90.80153	86.95294	85.65373	81.38102	76.63021	48.22571	44.88902	42.12599	41.32680	39.06333	37.06842
63	95.64930	92.01002	88.13716	86.82959	82.52873	77.74538	49.11054	45.74138	42.95028	42.14275	39.85513	37.83819
64	96.87811	93.21686	89.31992	88.00405	83.67526	78.85964	49.99629	46.59491	43.77595	42.96016	40.64856	38.60978
65	98.10514	94.42208	90.50124	89.17715	84.82065	79.97300	50.88294	47.44958	44.60299	43.77900	41.44361	39.38314
66	99.33043	95.62572	91.68117	90.34890	85.96491	81.08549	51.77047	48.30538	45.43136	44.59922	42.24023	40.15824

n/a	0.005	0.01	0.02	0.025	0.05	0.1	0.9	0.95	0.975	0.98	0.99	0.995
67	100.55401	96.82782	92.85974	91.51936	87.10807	82.19711	52.65885	49.16227	46.26103	45.42081	43.03838	40.93502
68	101.77592	98.02840	94.03697	92.68854	88.25016	83.30790	53.54807	50.02023	47.09198	46.24373	43.83803	41.71347
69	102.99621	99.22752	95.21289	93.85647	89.39121	84.41787	54.43810	50.87924	47.92416	47.06795	44.63916	42.49353
70	104.21490	100.42518	96.38754	95.02318	90.53123	85.52704	55.32894	51.73928	48.75757	47.89345	45.44172	43.27518
71	105.43203	101.62144	97.56093	96.18870	91.67024	86.63543	56.22056	52.60032	49.59216	48.72019	46.24568	44.05838
72	106.64763	102.81631	98.73310	97.35305	92.80827	87.74305	57.11295	53.46233	50.42792	49.54814	47.05103	44.84310
73	107.86174	104.00983	99.90408	98.51626	93.94534	88.84992	58.00609	54.32531	51.26481	50.37730	47.85772	45.62930
74	109.07438	105.20203	101.07388	99.67835	95.08147	89.95605	58.89996	55.18923	52.10283	51.20762	48.66573	46.41696
75	110.28558	106.39292	102.24253	100.83934	96.21667	91.06146	59.79456	56.05407	52.94194	52.03909	49.47503	47.20605
76	111.49538	107.58254	103.41006	101.99925	97.35097	92.16617	60.68986	56.91982	53.78212	52.87168	50.28560	47.99653
77	112.70380	108.77092	104.57648	103.15811	98.48438	93.27018	61.58585	57.78645	54.62336	53.70537	51.09742	48.78839
78	113.91087	109.95807	105.74182	104.31594	99.61693	94.37352	62.48252	58.65395	55.46563	54.54014	51.91045	49.58159
79	115.11661	111.14402	106.90610	105.47275	100.74862	95.47619	63.37986	59.52229	56.30890	55.37598	52.72468	50.37612
80	116.32106	112.32879	108.06934	106.62857	101.87947	96.57820	64.27785	60.39148	57.15317	56.21285	53.54008	51.17193
81	117.52422	113.51241	109.23155	107.78341	103.00951	97.67958	65.17647	61.26148	57.99842	57.05073	54.35663	51.96902
82	118.72613	114.69489	110.39277	108.93729	104.13874	98.78033	66.07573	62.13229	58.84462	57.88962	55.17431	52.76735
83	119.92682	115.87627	111.55299	110.09024	105.26718	99.88046	66.97560	63.00389	59.69175	58.72949	55.99310	53.56691
84	121.12629	117.05654	112.71225	111.24226	106.39484	100.97999	67.87608	63.87626	60.53981	59.57033	56.81298	54.36767
85	122.32458	118.23575	113.87057	112.39337	107.52174	102.07892	68.77716	64.74940	61.38878	60.41211	57.63393	55.16960
86	123.52170	119.41390	115.02795	113.54360	108.64789	103.17726	69.67882	65.62328	62.23863	61.25482	58.45593	55.97270
87	124.71768	120.59101	116.18441	114.69295	109.77331	104.27504	70.58105	66.49790	63.08935	62.09845	59.27896	56.77694
88	125.91254	121.76711	117.33997	115.84144	110.89800	105.37225	71.48384	67.37324	63.94094	62.94298	60.10301	57.58230
89	127.10628	122.94221	118.49465	116.98908	112.02199	106.46890	72.38720	68.24928	64.79336	63.78838	60.92805	58.38876
90	128.29894	124.11632	119.64846	118.13589	113.14527	107.56501	73.29109	69.12603	65.64662	64.63466	61.75408	59.19630
91	129.49053	125.28946	120.80141	119.28189	114.26787	108.66058	74.19552	70.00346	66.50069	65.48179	62.58107	60.00491
92	130.68107	126.46166	121.95352	120.42708	115.38979	109.75563	75.10048	70.88157	67.35556	66.32976	63.40901	60.81457
93	131.87058	127.63291	123.10480	121.57148	116.51105	110.85015	76.00596	71.76034	68.21123	67.17856	64.23788	61.62525
94	133.05906	128.80325	124.25527	122.71511	117.63165	111.94417	76.91195	72.63977	69.06767	68.02817	65.06767	62.43695
95	134.24655	129.97268	125.40493	123.85797	118.75161	113.03769	77.81844	73.51984	69.92487	68.87857	65.89836	63.24965
96	135.43305	131.14122	126.55381	125.00007	119.87094	114.13071	78.72542	74.40054	70.78282	69.72977	66.72994	64.06333
97	136.61858	132.30888	127.70191	126.14144	120.98964	115.22324	79.63289	75.28186	71.64152	70.58174	67.56240	64.87797
98	137.80315	133.47567	128.84925	127.28207	122.10773	116.31530	80.54084	76.16379	72.50094	71.43447	68.39572	65.69357
99	138.98678	134.64162	129.99583	128.42199	123.22522	117.40688	81.44925	77.04633	73.36108	72.28796	69.22989	66.51011