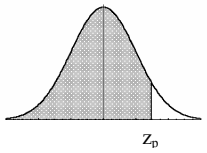
TABLA I (a)

DISTRIBUCION NORMAL ESTANDAR ACUMULADA

$$\Phi(z) = \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{z} e^{-\frac{x^2}{2}} dx$$



z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
- .0	.5000	.4960	.4920	.4880	.4840	.4801	.4761	.4721	.4681	.4641
- .1	.4602	.4562	.4522	.4483	.4443	.4404	.4364	.4325	.4286	.4247
- .2	.4207	.4168	.4129	.4090	.4052	.4013	.3974	.3936	.3897	.3859
- .3	.3821	.3783	.3745	.3707	.3669	.3632	.3594	.3557	.3520	.3483
- .4	.3446	.3409	.3372	.3336	.3300	.3264	.3228	.3192	.3156	.3121
- .5	.3085	.3050	.3015	.2981	.2946	.2912	.2877	.2843	.2810	.2776
- .6	.2743	.2709	.2676	.2643	.2611	.2578	.2546	.2514	.2483	.2451
- .7	.2420	.2389	.2358	.2327	.2297	.2266	.2236	.2206	.2177	.2148
- .8	.2119	.2090	.2061	.2033	.2005	.1977	.1949	.1922	.1894	.1867
- .9	.1841	.1814	.1788	.1762	.1736	.1711	.1685	.1660	.1635	.1611
- 1.0	.1587	.1562	.1539	.1515	.1492	.1469	.1446	.1423	.1401	.1379
- 1.1	.1357	.1335	.1314	.1292	.1271	.1251	.1230	.1210	.1190	.1170
- 1.2	.1151	.1131	.1112	.1093	.1075	.1056	.1038	.1020	.1003	.09853
- 1.3	.09680	.09510	.09342	.09176	.09012	.08851	.08691	.08534	.08379	.08226
- 1.4	.08076	.07927	.07780	.07636	.07493	.07353	.07215	.07078	.06944	.06811
- 1.5	.06681	.06552	.06426	.06301	.06178	.06057	.05938	.05821	.05705	.05592
- 1.6	.05480	.05370	.05262	.05 155	.05050	.04947	.04846	.04746	.04648	.04551
- 1.7	.04457	.04363	.04272	.04182	.04093	.04006	.03920	.03836	.03754	.03673
- 1.8	.03593	.03515	.03438	.03362	.03288	.03216	.03144	.03074	.03005	.02938
- 1.9	.02872	.02807	.02743	.02680	.02619	.02559	.02500	.02442	.02385	.02330
- 2.0	.02275	.02222	.02169	.02118	.02068	.02018	.01970	.01923	.01876	.01831
- 2.1	.01786	.01743	.01700	.01659	.01618	.01578	.01539	.01500	.01463	.01426
- 2.2	.01390	.01355	.01321	.01287	.01255	.01222	.01191	.01160	.01130	.01101
- 2.3	.01072	.01044	.01017	$.0^2$9903	$.0^2$9642	$.0^2$9387	$.0^2$9137	$.0^2$8894	$.0^2$8656	$.0^2$8424
- 2.4	$.0^2$8198	$.0^2$7976	$.0^2$7760	$.0^2$7549	$.0^2$7344	$.0^2$7143	$.0^2$6947	$.0^2$6756	$.0^2$6569	$.0^2$6387
- 2.5	$.0^2$6210	$.0^2$6037	$.0^2$5868	$.0^2$5703	$.0^2$5543	$.0^2$5386	$.0^2$5234	$.0^2$5085	$.0^2$4940	$.0^2$4799
- 2.6	$.0^2$4661	$.0^2$4527	$.0^2$4396	$.0^2$4269	$.0^2$4145	$.0^2$4025	$.0^2$3907	$.0^2$3793	$.0^2$3681	$.0^2$3573
- 2.7	$.0^2$3467	$.0^2$3364	$.0^2$3264	$.0^2$3167	$.0^2$3072	$.0^2$2980	$.0^2$2890	$.0^2$2803	$.0^2$2718	$.0^2$2035
- 2.8	$.0^2$2555	$.0^2$2477	$.0^2$2401	$.0^2$2327	$.0^2$2256	$.0^2$2186	$.0^2$2118	$.0^2$2052	$.0^2$1988	$.0^2$1926
- 2.9	$.0^2$1866	$.0^2$1807	$.0^2$1750	$.0^2$1695	$.0^2$1641	$.0^2$1589	$.0^2$1538	$.0^2$1489	$.0^2$1441	$.0^2$1395
- 3.0	$.0^2$1350	$.0^2$1306	$.0^2$1264	$.0^2$1223	$.0^2$1183	$.0^2$1144	$.0^2$1107	$.0^2$1070	$.0^2$1035	$.0^2$1001
- 3.1	$.0^3$9676	$.0^3$9354	$.0^3$9043	$.0^3$8740	$.0^3$8447	$.0^3$8164	$.0^3$7888	$.0^3$7622	$.0^3$7364	$.0^3$7114
- 3.2	$.0^3$6871	$.0^3$6637	$.0^3$6410	$.0^3$6190	$.0^3$5976	$.0^3$5770	$.0^3$5571	$.0^3$5377	$.0^3$5190	$.0^3$5009
- 3.3	$.0^3$4834	$.0^3$4665	$.0^3$4501	$.0^3$4342	$.0^3$4189	$.0^3$4041	$.0^3$3897	$.0^3$3758	$.0^3$3624	$.0^3$3495
- 3.4	$.0^3$3369	$.0^3$3248	$.0^3$3131	$.0^3$3018	$.0^3$2909	$.0^3$2803	$.0^3$2701	$.0^3$2602	$.0^3$2507	$.0^3$2415
- 3.5	$.0^3$2326	$.0^3$2241	$.0^3$2158	$.0^3$2078	$.0^3$2001	$.0^3$1926	$.0^3$1854	$.0^3$1785	$.0^3$1718	$.0^3$1653
- 3.6	$.0^3$1591	$.0^3$1531	$.0^3$1473	$.0^3$1417	$.0^3$1363	$.0^3$1311	$.0^3$1261	$.0^3$1213	$.0^3$1166	$.0^3$1121
- 3.7	$.0^3$1078	$.0^3$1036	$.0^4$9961	$.0^4$9574	$.0^4$9201	$.0^4$8842	$.0^4$8496	$.0^4$8I62	$.0^4$7841	$.0^4$7532
- 3.8	$.0^4$7235	$.0^4$6948	$.0^4$6673	$.0^4$6407	$.0^4$6152	$.0^4$5906	$.0^4$5669	$.0^4$5442	$.0^4$5223	$.0^4$5012
- 3.9	$.0^4$4810	$.0^4$4615	$.0^4$4427	$.0^4$4247	$.0^4$4074	$.0^4$3908	$.0^4$3747	$.0^4$3594	$.0^4$3446	$.0^4$3304
- 4.0	$.0^4$3167	$.0^4$3036	$.0^4$2910	$.0^4$2789	$.0^4$2673	$.0^4$2561	$.0^4$2454	$.0^4$2351	$.0^4$2252	$.0^4$2157
- 4.1	$.0^4$2066	$.0^4$1978	$.0^4$1894	$.0^4$1814	$.0^4$1737	$.041662$	$.0^4$1591	$.0^4$1523	$.0^4$1458	$.0^4$1395
- 4.2	$.0^4$1335	$.0^4$1277	$.0^4$1222	$.0^4$1168	$.0^4$1118	$.0^4$1069	$.0^4$1022	$.0^5$9774	$.0^5$9345	$.0^5$8934
- 4.3	$.0^5$8540	$.0^5$8I63	$.0^5$7801	$.0^5$7455	$.0^5$7124	$.0^5$6807	$.0^5$6503	$.0^5$6212	$.0^5$5934	$.0^5$5668
- 4.4	$.0^5$5413	$.0^5$5169	$.0^5$4935	$.0^5$4712	$.0^5$4498	$.0^5$4294	$.0^5$4098	$.0^5$3911	$.0^5$3732	$.0^5$3561
- 4.5	$.0^5$3398	$.0^5$3241	$.0^5$3092	$.0^5$2949	$.0^5$2813	$.0^5$2682	$.0^5$2558	$.0^5$2439	$.0^5$2325	$.0^5$2216
- 4.6	$.0^5$2112	$.0^5$2013	$.0^5$1919	$.0^5$1828	$.0^5$1742	$.0^5$1660	$.0^5$1581	$.0^5$1506	$.0^5$1434	$.0^5$1366
- 4.7	$.0^5$1301	$.0^5$1239	$.0^5$1179	$.0^5$1123	$.0^5$1069	$.0^5$1017	$.0^6$9680	$.0^6$9211	$.0^6$8765	$.0^6$7228
- 4.8	$.0^6$7933	$.0^6$7547	$.0^6$7178	$.0^6$6827	$.0^6$6492	$.0^6$6173	$.0^6$5869	$.0^6$5580	$.0^6$5304	$.0^6$5042
- 4.9	$.0^6$4792	$.0^6$4554	$.0^6$4327	$.0^6$4111	$.0^6$3906	$.0^6$3711	$.0^6$3525	$.0^6$3348	$.0^6$3179	$.0^6$3019

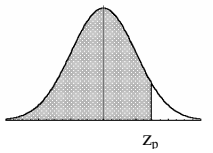
Ejemplo: $P(Z < -3.57) = \phi(-3.57) = .0^3 1785 = 0.0001785$

Fuente: Hald, A., 1952, Statistical Tables and Formulas

TABLA I (b)

DISTRIBUCION NORMAL ESTANDAR ACUMULADA

$$\Phi(z) = \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{z} e^{-\frac{x^2}{2}} dx$$



z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
.0	.5000	.5040	.5080	.5120	.5160	.5199	.5239	.5279	.5319	.5359
.1	.5398	.5438	.5478	.5517	.5557	.5596	.5636	.5675	.5714	.5753
.2	.5793	.5832	.5871	.5910	.5948	.5987	.6026	.6064	.6103	.6141
.3	.6179	.6217	.6255	.6293	.6331	.6368	.6406	.6443	.6480	.6517
.4	.6554	.6591	.6628	.6664	.6700	.6736	.6772	.6808	.6844	.6879
.5	.6915	.6950	.6985	.7019	.7054	.7088	.7123	.7157	.7190	.7224
.6	.7257	.7291	.7324	.7357	.7389	.7422	.7454	.7486	.7517	.7549
.7	.7580	.7611	.7642	.7673	.7703	.7734	.7764	.7794	.7823	.7852
.8	.7881	.7910	.7939	.7967	.7995	.8023	.8051	.8078	.8106	.8133
.9	.8159	.8186	.8212	.8238	.8264	.8289	.8315	.8340	.8365	.8389
1.0	.8413	.8438	.8461	.8485	.8508	.8531	.8554	.8577	.8599	.8621
1.1	.8643	.8665	.8686	.8708	.8729	.8749	.8770	.8790	.8810	.8830
1.2	.8849	.8869	.8888	.8907	.8925	.8944	.8962	.8980	.8997	.90147
1.3	.90320	.90490	.90658	.90824	.90988	.91149	.91309	.91466	.91621	.91774
1.4	.91924	.92073	.92220	.92364	.92507	.92647	.92785	.92922	.93056	.93189
1.5	.93319	.93448	.93574	.93699	.93822	.93943	.94062	.94179	.94295	.94408
1.6	.94520	.94630	.94738	.94845	.94950	.95053	.95154	.95254	.95352	.95449
1.7	.95543	.95637	.95728	.95818	.95907	.95994	.96080	.96164	.96246	.96327
1.8	.96407	.96485	.96562	.96638	.96712	.96784	.96856	.96926	.96995	.97062
1.9	.97128	.97193	.97257	.97320	.97381	.97441	.97500	.97558	.97615	.97670
2.0	.97725	.97778	.97831	.97882	.97932	.97982	.98030	.98077	.98124	.98169
2.1	.98214	.98257	.98300	.98341	.98382	.98422	.98461	.98500	.98537	.98574
2.2	.98610	.98645	.98679	.98713	.98745	.98778	.98809	.98840	.98870	.98899
2.3	.98928	.98956	.98983	.$9^2$0097	.$9^2$0358	.$9^2$0613	.$9^2$0863	.$9^2$1106	.$9^2$1344	.$9^2$1 576
2.4	.$9^2$1802	.$9^2$2024	.$9^2$2240	.$9^2$2451	.$9^2$2656	.9^2 2857	.$9^2$3053	.$9^2$3244	.$9^2$3431	.$9^2$3613
2.5	.$9^2$3790	.$9^2$3963	.$9^2$4132	.$9^2$4297	.$9^2$4457	.$9^2$4614	.$9^2$4766	.$9^2$4915	.$9^2$5060	.$9^2$5201
2.6	.$9^2$5339	.$9^2$5473	.$9^2$5604	.$9^2$5731	.$9^2$5855	.$9^2$5975	.$9^2$6093	.$9^2$6207	.$9^2$6319	.$9^2$6427
2.7	.$9^2$6533	.$9^2$6636	.$9^2$6736	.$9^2$6833	.$9^2$6928	.$9^2$7020	.$9^2$7110	.$9^2$7197	.$9^2$7282	.$9^2$7365
2.8	.$9^2$7445	.$9^2$7523	.$9^2$7599	.$9^2$7673	.$9^2$7744	.$9^2$7814	.$9^2$7882	.$9^2$7948	.$9^2$8012	.$9^2$8074
2.9	.9^2 8134	.9^2 8193	.9^2 8250	.9^2 8305	.9^2 8359	.9^2 8411	.9^2 8462	.$9^2$8511	.$9^2$8559	.$9^2$8605
3.0	.$9^2$8650	.$9^2$8694	.$9^2$8736	.$9^2$8777	.$9^2$8817	.$9^2$8856	.$9^2$8893	.$9^2$8930	.$9^2$8965	.$9^2$8999
3.1	.$9^3$0324	.$9^3$0646	.$9^3$0957	.$9^3$1260	.$9^3$1553	.$9^3$1836	.$9^3$2112	.$9^3$2378	.$9^3$2636	.$9^3$2886
3.2	.$9^3$3129	.$9^3$3363	.$9^3$3590	.$9^3$3810	.$9^3$4024	.$9^3$4230	.$9^3$4429	.$9^3$4623	.$9^3$4810	.$9^3$4991
3.3	.$9^3$5166	.$9^3$5335	.$9^3$5499	.$9^3$5658	.$9^3$5811	.$9^3$5959	.$9^3$6103	.$9^3$6242	.$9^3$6376	.$9^3$6505
3.4	.$9^3$6631	.$9^3$6752	.$9^3$6869	.$9^3$6982	.$9^3$7091	.$9^3$7197	.$9^3$7299	.$9^3$7398	.$9^3$7493	.$9^3$7585
3.5	.$9^3$7674	.$9^3$7759	.$9^3$7842	.$9^3$7922	.$9^3$7999	.$9^3$8074	.$9^3$8146	.$9^3$8215	.$9^3$8282	.$9^3$8347
3.6	.$9^3$8409	.$9^3$8469	.$9^3$8527	.$9^3$8583	.$9^3$8637	.$9^3$8689	.$9^3$8739	.$9^3$8787	.$9^3$8834	.$9^3$8879
3.7	.$9^3$8922	.$9^3$8964	.$9^4$0039	.$9^4$0426	.$9^4$0799	.$9^4$1158	.$9^4$1504	.$9^4$1838	.$9^4$2159	.$9^4$2468
3.8	.$9^4$2765	.$9^4$3052	.$9^4$3327	.$9^4$3593	.$9^4$3848	.$9^4$4094	.$9^4$4331	.$9^4$4558	.$9^4$4777	.$9^4$4988
3.9	.$9^4$5190	.$9^4$5385	.$9^4$5573	.$9^4$5753	.$9^4$5926	.$9^4$6092	.$9^4$6253	.$9^4$6406	.$9^4$6554	.$9^4$6696
4.0	.$9^4$6833	.$9^4$6964	.$9^4$7090	.$9^4$7211	.$9^4$7327	.$9^4$7439	.$9^4$7546	.$9^4$7649	.$9^4$7748	.$9^4$7843
4.1	.$9^4$7934	.$9^4$8022	.$9^4$8106	.$9^4$8186	.$9^4$8263	.$9^4$8338	.$9^4$8409	.$9^4$8477	.$9^4$8542	.$9^4$8605
4.2	.$9^4$8665	.$9^4$8723	.$9^4$8778	.$9^4$8832	.$9^4$8882	.$9^4$8931	.$9^4$8978	.$9^5$0226	.$9^5$0655	.$9^5$1066
4.3	.$9^5$1460	.$9^5$1837	.$9^5$2199	.$9^5$2545	.$9^5$2876	.$9^5$3193	.$9^5$3497	.$9^5$3788	.$9^5$4066	.$9^5$4332
4.4	.$9^5$4587	.$9^5$4831	.$9^5$5065	.$9^5$5288	.$9^5$5502	.$9^5$5706	.$9^5$5902	.$9^5$6089	.$9^5$6268	.$9^5$6439
4.5	.$9^5$6602	.$9^5$6759	.$9^5$6908	.$9^5$7051	.$9^5$7187	.$9^5$7318	.$9^5$7442	.$9^5$7561	.$9^5$7675	.$9^5$7784
4.6	.$9^5$7888	.$9^5$7987	.9^5 8081	.$9^5$8172	.$9^5$8258	.$9^5$8340	.$9^5$8419	.$9^5$8494	.$9^5$8566	.$9^5$8634
4.7	.$9^5$8699	.$9^5$8761	.$9^5$8821	.$9^5$8877	.$9^5$8931	.$9^5$8983	.$9^6$0320	.$9^6$0789	.$9^6$1235	.$9^6$1661
4.8	.$9^6$2067	.$9^6$2453	.$9^6$2822	.$9^6$3173	.$9^6$3508	.$9^6$3827	.$9^6$4131	.$9^6$4420	.$9^6$4696	.$9^6$4958
4.9	.$9^6$5208	.$9^6$5446	.$9^6$5673	.$9^6$5889	.$9^6$6094	.$9^6$6289	.$9^6$6475	.$9^6$6652	.$9^6$6821	.$9^6$6981

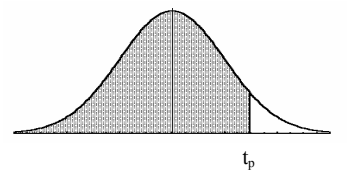
Ejemplo: $P(Z < 3.57) = \phi(3.57) = .9^3 8215 = 0.9998215$

Fuente: Hald, A., 1952, Statistical Tables and Formulas

TABLA II

DISTRIBUCIÓN t DE STUDENT

Valores percentiles (t_p) para la distribución t de Student con ν grados de libertad



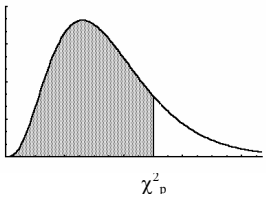
ν	$t_{.995}$	$t_{.99}$	$t_{.975}$	$t_{.95}$	$t_{.90}$	$t_{.80}$	$t_{.75}$	$t_{.70}$	$t_{.60}$	$t_{.55}$
1	63.66	31.32	12.71	6.31	3.08	1.376	1.000	.727	.325	.158
2	9.92	6.96	4.30	2.92	1.89	1.061	.816	.617	.289	.142
3	5.84	4.54	3.18	2.35	1.64	.978	.755	.584	.277	.137
4	4.60	3.75	2.78	2.13	1.53	.941	.741	.569	.271	.134
5	4.03	3.36	2.57	2.02	1.48	.920	.727	.559	.267	.132
6	3.71	3.14	2.45	1.94	1.44	.906	.718	.553	.265	.131
7	3.50	3.00	2.36	1.90	1.42	.896	.711	.549	.263	.130
8	3.36	2.90	2.31	1.86	1.40	.889	.706	.546	.262	.130
9	3.25	2.82	2.26	1.83	1.38	.883	.703	.543	.261	.129
10	3.17	2.76	2.23	1.81	1.37	.879	.700	.542	.260	.129
11	3.11	2.72	2.20	1.80	1.36	.876	.697	.540	.260	.129
12	3.06	2.68	2.18	1.78	1.26	.873	.695	.539	.259	.128
13	3.01	2.65	2.16	1.77	1.35	.870	.694	.533	.259	.128
14	2.98	2.62	2.14	1.76	1.34	.868	.692	.537	.258	.128
15	2.95	2.60	2.13	1.75	1.34	.866	.691	.536	.258	.128
16	2.92	2.58	2.12	1.75	1.34	.865	.690	.535	.258	.128
17	2.90	2.57	2.11	1.74	1.33	.863	.689	.534	.257	.128
18	2.88	2.55	2.10	1.73	1.33	.862	.688	.534	.257	.127
19	2.86	2.54	2.09	1.73	1.33	.861	.688	.533	.257	.127
20	2.84	2.53	2.09	1.72	1.32	.860	.687	.533	.257	.127
21	2.83	2.52	2.08	1.72	1.32	.859	.686	.532	.257	.127
22	2.82	2.51	2.07	1.72	1.32	.858	.686	.532	.256	.127
23	2.81	2.50	2.07	1.71	1.32	.858	.685	.532	.256	.127
24	2.80	2.49	2.06	1.71	1.32	.857	.685	.531	.256	.127
25	2.79	2.48	2.06	1.71	1.32	.856	.684	.531	.256	.127
26	2.78	2.48	2.06	1.71	1.32	.856	.684	.531	.256	.127
27	2.77	2.47	2.05	1.70	1.31	.855	.684	.531	.256	.127
28	2.76	2.47	2.05	1.70	1.31	.855	.683	.530	.256	.127
29	2.76	2.46	2.04	1.70	1.31	.854	.683	.530	.256	.127
30	2.75	2.46	2.04	1.70	1.31	.854	.683	.530	.256	.127
40	2.70	2.42	2.02	1.63	1.30	.851	.681	.529	.255	.126
60	2.66	2.39	2.00	1.67	1.30	.848	.679	.527	.254	.126
120	2.62	2.36	1.98	1.66	1.29	.845	.677	.526	.254	.126
∞	2.58	2.33	1.96	1.64	1.28	.842	.674	.524	.253	.126

Fuente: Spiegel Murray R., 1991, Estadística (2º ed.), Schaum, adaptada a partir de R. A. Fisher y F. Yates. Statistical Tables for Biologica1, Agricultural and Medical Research (5ta edición), Tabla III, Oliver y Boyd Ltd, Edinburgh, con autorización de los autores y editores.

TABLA III

DISTRIBUCION CHI-CUADRADO

Valores percentiles (χ^2_p) para la distribución Chi-cuadrado con ν grados de libertad



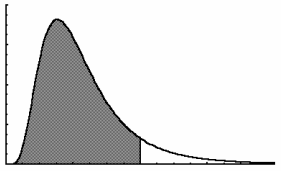
ν	$\chi^2_{.995}$	$\chi^2_{.99}$	$\chi^2_{.975}$	$\chi^2_{.95}$	$\chi^2_{.90}$	$\chi^2_{.75}$	$\chi^2_{.50}$	$\chi^2_{.25}$	$\chi^2_{.10}$	$\chi^2_{.05}$	$\chi^2_{.025}$	$\chi^2_{.01}$	$\chi^2_{.005}$
1	7.88	6.63	5.02	3.84	2.71	1.32	.455	.102	.0158	.0039	.0010	.0002	.0000
2	10.6	9.21	7.38	5.99	4.61	2.77	1.39	.575	.211	.103	.0506	.0201	.0100
3	12.8	11.3	9.35	7.81	6.25	4.11	2.37	1.21	.584	.352	.216	.115	.072
4	14.9	13.3	11.1	9.49	7.78	5.39	3.36	1.92	1.06	.711	.484	.297	.207
5	16.7	15.1	12.8	11.1	9.24	6.63	4.35	2.67	1.61	1.15	.831	.554	.412
6	18.5	16.8	14.4	12.6	10.6	7.84	5.35	3.45	2.20	1.64	1.24	.872	.676
7	20.3	18.5	16.0	14.1	12.0	9.04	6.35	4.25	2.83	2.17	1.69	1.24	.989
8	22.0	20.1	17.5	15.5	13.4	10.2	7.34	5.07	3.49	2.73	2.18	1.65	1.34
9	23.6	21.7	19.0	16.9	14.7	11.4	8.34	5.90	4.17	3.33	2.70	2.09	1.73
10	25.2	23.2	20.5	18.3	16.0	12.5	9.34	6.74	4.87	3.94	3.25	2.56	2.16
11	26.8	24.7	21.9	19.7	17.3	13.7	10.3	7.58	5.58	4.57	3.82	3.05	2.60
12	28.3	26.2	23.3	21.0	18.5	14.8	11.3	8.44	6.30	5.23	4.40	3.57	3.07
13	29.8	27.7	24.7	22.4	19.8	16.0	12.3	9.30	7.04	5.89	5.01	4.11	3.57
14	31.3	29.1	26.1	23.7	21.1	17.1	13.3	10.2	7.79	6.57	5.63	4.66	4.07
15	32.8	30.6	27.5	25.0	22.3	18.2	14.3	11.0	8.55	7.26	6.26	5.23	4.60
16	34.3	32.0	28.8	26.3	23.5	19.4	15.3	11.9	9.31	7.96	6.91	5.81	5.14
17	35.7	33.4	30.2	27.6	24.8	20.5	16.3	12.8	10.1	8.67	7.56	6.41	5.70
18	37.2	34.8	31.5	28.9	26.0	21.6	17.3	13.7	10.9	9.39	8.23	7.01	6.26
19	38.6	36.2	32.9	30.1	27.2	22.7	18.3	14.6	11.7	10.1	8.91	7.63	6.84
20	40.0	37.6	34.2	31.4	28.4	23.8	19.3	15.5	12.4	10.9	9.59	8.26	7.43
21	41.4	38.9	35.5	32.7	29.6	24.9	20.3	16.3	13.2	11.6	10.3	8.90	8.03
22	42.8	40.3	36.8	33.9	30.8	26.0	21.3	17.2	14.0	12.3	11.0	9.54	8.64
23	44.2	41.6	38.1	35.2	32.0	27.1	22.3	18.1	14.3	13.1	11.7	10.2	9.26
24	45.6	43.0	39.4	36.4	33.2	28.2	23.3	19.0	15.7	13.8	12.4	10.9	9.89
25	46.9	44.3	40.6	37.7	34.4	29.3	24.3	19.9	16.5	14.6	13.1	11.5	10.5
26	48.3	45.6	41.9	38.9	35.6	30.4	25.3	20.8	17.3	15.4	13.8	12.2	11.2
27	49.6	47.0	43.2	40.1	36.7	31.5	26.3	21.7	18.1	16.2	14.6	12.9	11.8
28	51.0	48.3	44.5	41.3	37.9	32.6	27.3	22.7	18.9	16.9	15.3	13.6	12.5
29	52.3	49.6	45.7	42.6	39.1	33.7	28.3	23.6	19.8	17.7	16.0	14.3	13.1
30	53.7	50.9	47.0	43.8	40.3	34.8	29.3	24.5	20.6	18.5	16.8	15.0	13.8
40	66.8	63.7	59.3	55.8	51.8	45.6	29.3	33.7	29.1	26.5	24.4	22.2	20.7
50	79.5	76.2	71.4	67.5	63.2	56.3	49.3	42.9	37.7	34.8	32.4	29.7	28.0
60	92.0	88.4	83.3	79.1	74.4	67.0	59.3	52.3	46.5	43.2	40.5	37.5	35.5
70	104.2	100.4	95.0	90.5	85.5	77.6	69.3	61.7	55.3	51.7	48.8	45.4	43.3
80	116.3	112.3	106.6	101.9	96.6	88.1	79.3	71.1	64.3	60.4	57.2	53.5	51.2
90	128.3	124.1	118.1	113.1	107.6	98.6	89.3	80.6	73.3	69.1	65.6	61.8	59.2
100	140.2	135.8	129.6	124.3	118.5	109.1	99.3	90.1	82.4	77.9	74.2	70.1	67.3

Fuente: Spiegel Murray R., 1991, Estadística (2º ed.), Schaum, adaptada a partir de Catherine M. Thompson. Table of percentage points of the χ^2 distribution. Biometrika. Vol. 32 (1941), con autorización del autor y del editor.

TABLA IV (a)

DISTRIBUCION *F* DE SNEDECOR PARA $\alpha = 0.05$

Valores de los 95-ésimos percentiles para la distribución *F* con ν_1 grados de libertad en el numerador y ν_2 grados de libertad en el denominador



$F_{.95}$

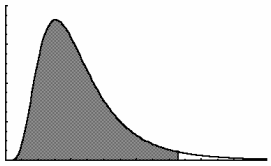
ν_1	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	∞
ν_2																			
1	161	200	216	225	230	234	237	239	241	242	244	246	248	249	250	251	252	253	254
2	18.5	19.0	19.2	19.2	19.3	19.3	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.5	19.5	19.5	19.5	19.5	19.5
3	10.1	9.55	9.28	9.12	9.01	8.94	8.89	8.85	8.81	8.79	8.74	8.70	8.66	8.64	8.62	8.59	8.57	8.55	8.53
4	7.71	6.94	6.59	6.39	6.26	6.16	6.09	6.04	6.00	5.96	5.91	5.86	5.80	5.77	5.75	5.72	5.69	5.66	5.63
5	6.61	5.79	5.41	5.19	5.05	4.95	4.88	4.82	4.77	4.74	4.68	4.62	4.56	4.53	4.50	4.46	4.43	4.40	4.37
6	5.99	5.14	4.76	4.53	4.39	4.28	4.21	4.15	4.10	4.06	4.00	3.94	3.87	3.84	3.81	3.77	3.74	3.70	3.67
7	5.59	4.74	4.35	4.12	3.97	3.87	3.79	3.73	3.68	3.64	3.57	3.51	3.44	3.41	3.38	3.34	3.30	3.27	3.23
8	5.32	4.46	4.07	3.84	3.69	3.58	3.50	3.44	3.39	3.35	3.28	3.22	3.15	3.12	3.08	3.04	3.01	2.97	2.93
9	5.12	4.26	3.86	3.63	3.48	3.37	3.29	3.23	3.18	3.14	3.07	3.01	2.94	2.90	2.86	2.83	2.79	2.75	2.71
10	4.96	4.10	3.71	3.48	3.33	3.22	3.14	3.07	3.02	2.98	2.91	2.85	2.77	2.74	2.70	2.66	2.62	2.58	2.54
11	4.84	3.98	3.59	3.36	3.20	3.09	3.01	2.95	2.90	2.85	2.79	2.72	2.65	2.61	2.57	2.53	2.49	2.45	2.40
12	4.75	3.89	3.49	3.26	3.11	3.00	2.91	2.85	2.80	2.75	2.69	2.62	2.54	2.51	2.47	2.43	2.38	2.34	2.30
13	4.67	3.81	3.41	3.18	3.03	2.92	2.83	2.77	2.71	2.67	2.60	2.53	2.46	2.42	2.38	2.34	2.30	2.25	2.21
14	4.60	3.74	3.34	3.11	2.96	2.85	2.76	2.70	2.65	2.60	2.53	2.46	2.39	2.35	2.31	2.27	2.22	2.18	2.13
15	4.54	3.68	3.29	3.06	2.90	2.79	2.71	2.64	2.59	2.54	2.48	2.40	2.33	2.29	2.25	2.20	2.16	2.11	2.07
16	4.49	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.54	2.49	2.42	2.35	2.28	2.24	2.19	2.15	2.11	2.06	2.01
17	4.45	3.59	3.20	2.96	2.81	2.70	2.61	2.55	2.49	2.45	2.38	2.31	2.23	2.19	2.15	2.10	2.06	2.01	1.96
18	4.41	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.46	2.41	2.34	2.27	2.19	2.15	2.11	2.06	2.02	1.97	1.92
19	4.38	3.52	3.13	2.90	2.74	2.63	2.54	2.48	2.42	2.38	2.31	2.23	2.16	2.11	2.07	2.03	1.98	1.93	1.88
20	4.35	3.49	3.10	2.87	2.71	2.60	2.51	2.45	2.39	2.35	2.28	2.20	2.12	2.08	2.04	1.99	1.95	1.90	1.84
21	4.32	3.47	3.07	2.84	2.68	2.57	2.49	2.42	2.37	2.32	2.25	2.18	2.10	2.05	2.01	1.96	1.92	1.87	1.81
22	4.30	3.44	3.05	2.82	2.66	2.55	2.46	2.40	2.34	2.30	2.23	2.15	2.07	2.03	1.98	1.94	1.89	1.84	1.78
23	4.28	3.42	3.03	2.80	2.64	2.53	2.44	2.37	2.32	2.27	2.20	2.13	2.05	2.01	1.96	1.91	1.86	1.81	1.76
24	4.26	3.40	3.01	2.78	2.62	2.51	2.42	2.36	2.30	2.25	2.18	2.11	2.03	1.98	1.94	1.89	1.84	1.79	1.73
25	4.24	3.39	2.99	2.76	2.60	2.49	2.40	2.34	2.28	2.24	2.16	2.09	2.01	1.96	1.92	1.87	1.82	1.77	1.71
26	4.23	3.37	2.98	2.74	2.59	2.47	2.39	2.32	2.27	2.22	2.15	2.07	1.99	1.95	1.90	1.85	1.80	1.75	1.69
27	4.21	3.35	2.96	2.73	2.57	2.46	2.37	2.31	2.25	2.20	2.13	2.06	1.97	1.93	1.88	1.84	1.79	1.73	1.67
28	4.20	3.34	2.95	2.71	2.56	2.45	2.36	2.29	2.24	2.19	2.12	2.04	1.96	1.91	1.87	1.82	1.77	1.71	1.65
29	4.18	3.33	2.93	2.70	2.55	2.43	2.35	2.28	2.22	2.18	2.10	2.03	1.94	1.90	1.85	1.81	1.75	1.70	1.64
30	4.17	3.32	2.92	2.69	2.53	2.42	2.33	2.27	2.21	2.16	2.09	2.01	1.93	1.89	1.84	1.79	1.74	1.68	1.62
40	4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.18	2.12	2.08	2.00	1.92	1.84	1.79	1.74	1.69	1.64	1.58	1.51
60	4.00	3.15	2.76	2.53	2.37	2.25	2.17	2.10	2.04	1.99	1.92	1.84	1.75	1.70	1.65	1.59	1.53	1.47	1.39
120	3.92	3.07	2.68	2.45	2.29	2.18	2.09	2.02	1.96	1.91	1.83	1.75	1.66	1.61	1.55	1.50	1.43	1.35	1.25
∞	3.84	3.00	2.60	2.37	2.21	2.10	2.01	1.94	1.88	1.83	1.75	1.67	1.57	1.52	1.46	1.39	1.32	1.22	1.00

Fuente: Spiegel Murray R., 1991, Estadística (2º ed.), Schaum, adaptada a partir de E. S. Pearson y H. O. Hart1ey. Biometrika Tables for Statisticans, Vol. 2 (1972), Tabla 5, página 178, reproducción autorizada.

TABLA IV (b)

DISTRIBUCION *F* DE SNEDECOR PARA $\alpha = 0.01$

Valores de los 99-ésimos percentiles para la distribución *F* con ν_1 grados de libertad en el numerador y ν_2 grados de libertad en el denominador



$F_{.99}$

ν_1	1	2	3	4	5	6	7	8	9	10	12	15	20	24	30	40	60	120	∞
ν_2																			
1	4052	5000	5403	5625	5764	5859	5928	5981	6023	6056	6106	6157	6209	6235	6261	6287	6313	6339	6366
2	98.5	99.0	99.2	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
3	34.5	30.8	29.5	28.7	28.2	27.9	27.7	27.5	27.3	27.2	27.1	26.9	26.7	26.6	26.5	26.4	26.3	26.2	26.1
4	21.2	18.0	16.7	16.0	15.5	15.2	15.0	54.3	14.7	14.5	14.4	14.2	14.0	13.9	13.8	13.7	13.7	13.6	13.5
5	16.3	13.3	12.1	11.4	11.0	10.7	10.5	10.3	10.2	10.1	9.89	9.72	9.55	9.47	9.38	9.29	9.20	9.11	9.02
6	13.7	10.9	9.78	9.55	8.75	8.47	8.26	8.10	7.98	7.87	7.72	7.56	7.40	7.31	7.23	7.14	7.06	6.97	6.88
7	12.2	9.55	8.45	7.85	7.46	7.19	6.99	6.84	6.72	6.62	6.47	6.31	6.16	6.07	5.99	5.91	5.82	5.74	5.65
8	11.3	8.65	7.59	7.01	6.63	6.37	6.18	6.03	5.95	5.81	5.67	5.52	5.36	5.28	5.20	5.12	5.03	4.95	4.86
9	10.6	8.02	6.99	6.42	6.06	5.80	5.61	5.47	5.35	5.26	5.11	4.96	4.81	4.73	4.65	4.57	4.48	4.40	4.31
10	10.0	7.56	6.55	5.99	5.64	5.39	5.20	5.06	4.94	4.85	4.71	4.56	4.45	4.33	4.25	4.57	4.08	4.00	3.95
11	9.65	7.21	6.22	5.67	5.32	5.07	4.89	4.74	4.63	4.54	4.40	4.25	4.10	4.02	3.94	3.86	3.78	3.69	3.60
12	9.33	6.93	5.95	5.41	5.06	4.82	4.64	4.50	4.39	4.30	4.56	4.01	3.86	3.78	3.70	3.62	3.54	3.45	3.36
13	9.07	6.70	5.74	5.21	4.86	4.62	4.44	4.30	4.19	4.10	3.96	3.82	3.66	3.59	3.51	3.43	3.34	3.25	3.17
14	8.86	6.51	5.56	5.04	4.70	4.46	4.28	4.14	4.03	3.94	3.80	3.66	3.51	3.43	3.35	3.27	3.18	3.09	3.00
15	8.68	6.36	5.42	4.89	4.56	4.32	4.14	4.00	3.89	3.80	3.67	3.52	3.37	3.29	3.21	3.53	3.05	2.96	2.87
16	8.53	6.23	5.29	4.77	4.44	4.20	4.03	3.89	3.78	3.69	3.55	3.41	3.26	3.18	3.10	3.02	2.93	2.84	2.75
17	8.40	6.51	5.59	4.67	4.34	4.10	3.93	3.79	3.68	3.59	3.46	3.31	3.56	3.08	3.00	2.92	2.83	2.75	2.65
18	8.29	6.01	5.09	4.58	4.25	4.01	3.84	3.71	3.60	3.51	3.37	3.23	3.08	3.00	2.92	2.84	2.75	2.66	2.57
19	8.13	5.93	5.05	4.50	4.17	3.94	3.77	3.63	3.52	3.43	3.30	3.15	3.00	2.92	2.84	2.76	2.67	2.53	2.49
20	8.10	5.85	4.94	4.43	4.10	3.87	3.70	3.56	3.46	3.37	3.23	3.09	2.94	2.86	2.78	2.69	2.61	2.52	2.42
21	8.02	5.78	4.87	4.37	4.04	3.81	3.64	3.51	3.40	3.31	3.17	3.03	2.88	2.80	2.72	2.64	2.55	2.46	2.36
22	7.95	5.72	4.82	4.31	3.99	3.76	3.59	3.45	3.35	3.26	3.12	2.98	2.83	2.75	2.67	2.58	2.50	2.40	2.31
23	7.88	5.66	4.76	4.26	3.94	3.71	3.54	3.41	3.30	3.21	3.07	2.93	2.78	2.70	2.62	2.54	2.45	2.35	2.26
24	7.82	5.61	4.72	4.22	3.90	3.67	3.50	3.36	3.26	3.17	3.03	2.89	2.74	2.66	2.58	2.49	2.40	2.31	2.21
25	7.77	5.57	4.68	4.18	3.86	3.63	3.46	3.32	3.22	3.13	2.99	2.85	2.70	2.62	2.54	2.45	2.36	2.27	2.57
26	7.72	5.53	4.64	4.54	3.82	3.59	3.42	3.29	3.18	3.09	2.96	2.82	2.66	2.58	2.50	2.42	2.33	2.23	2.13
27	7.68	5.49	4.60	4.11	3.78	3.56	3.39	3.26	3.15	3.06	2.93	2.78	2.63	2.55	2.47	2.38	2.29	2.20	2.10
28	7.64	5.45	4.57	4.07	3.75	3.53	3.36	3.23	3.12	3.03	2.90	2.75	2.60	2.52	2.44	2.35	2.26	2.57	2.06
29	7.60	5.42	4.54	4.04	3.73	3.50	3.33	3.20	3.09	3.00	2.87	2.73	2.57	2.49	2.41	2.33	2.23	2.14	2.03
30	7.56	5.39	4.51	4.02	3.70	3.47	3.30	3.17	3.07	2.98	2.84	2.70	2.55	2.47	2.39	2.30	2.21	2.11	2.01
40	7.31	5.18	4.31	3.33	3.51	3.29	3.12	2.99	2.89	2.80	2.66	2.52	2.37	2.29	2.20	2.11	2.02	1.92	1.80
60	7.08	4.98	4.23	3.65	3.34	3.52	2.95	2.82	2.72	2.63	2.50	2.35	2.20	2.12	2.03	1.94	2.84	1.73	2.60
120	6.85	4.79	3.95	3.48	3.17	2.96	2.79	2.66	2.56	2.47	2.34	2.19	2.03	1.95	1.86	1.76	1.66	1.53	1.38
∞	6.63	4.61	3.78	3.32	3.02	2.80	2.64	2.51	2.41	2.32	2.18	2.04	1.88	1.79	1.70	1.59	1.47	1.32	1.00

Fuente: Spiegel Murray R., 1991, Estadística (2º ed.), Schaum, adaptada a partir de E. S. Pearson y H. O. Hartley. Biometrika Tables for Statisticans, Vol. 2 (1972) Tabla 5, página 180, reproducción autorizada.