



Tabla de valores de probabilidad acumulada (Φ) para la Distribución Normal Estándar

z	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
-3	0.0013	0.0010	0.0007	0.0005	0.0003	0.0002	0.0002	0.0001	0.0001	0.0000
-2.9	0.0019	0.0018	0.0018	0.0017	0.0016	0.0016	0.0015	0.0015	0.0014	0.0014
-2.8	0.0026	0.0025	0.0024	0.0023	0.0023	0.0022	0.0021	0.0021	0.0020	0.0019
-2.7	0.0035	0.0034	0.0033	0.0032	0.0031	0.0030	0.0029	0.0028	0.0027	0.0026
-2.6	0.0047	0.0045	0.0044	0.0043	0.0041	0.0040	0.0039	0.0038	0.0037	0.0036
-2.5	0.0062	0.0060	0.0059	0.0057	0.0055	0.0054	0.0052	0.0051	0.0049	0.0048
-2.4	0.0082	0.0080	0.0078	0.0075	0.0073	0.0071	0.0069	0.0068	0.0066	0.0064
-2.3	0.0107	0.0104	0.0102	0.0099	0.0096	0.0094	0.0091	0.0089	0.0087	0.0084
-2.2	0.0139	0.0136	0.0132	0.0129	0.0125	0.0122	0.0119	0.0116	0.0113	0.0110
-2.1	0.0179	0.0174	0.0170	0.0166	0.0162	0.0158	0.0154	0.0150	0.0146	0.0143
-2	0.0228	0.0222	0.0217	0.0212	0.0207	0.0202	0.0197	0.0192	0.0188	0.0183
-1.9	0.0287	0.0281	0.0274	0.0268	0.0262	0.0256	0.0250	0.0244	0.0239	0.0233
-1.8	0.0359	0.0351	0.0344	0.0336	0.0329	0.0322	0.0314	0.0307	0.0301	0.0294
-1.7	0.0446	0.0436	0.0427	0.0418	0.0409	0.0401	0.0392	0.0384	0.0375	0.0367
-1.6	0.0548	0.0537	0.0526	0.0516	0.0505	0.0495	0.0485	0.0475	0.0465	0.0455
-1.5	0.0668	0.0655	0.0643	0.0630	0.0618	0.0606	0.0594	0.0582	0.0571	0.0559
-1.4	0.0808	0.0793	0.0778	0.0764	0.0749	0.0735	0.0721	0.0708	0.0694	0.0681
-1.3	0.0968	0.0951	0.0934	0.0918	0.0901	0.0885	0.0869	0.0853	0.0838	0.0823
-1.2	0.1151	0.1131	0.1112	0.1093	0.1075	0.1056	0.1038	0.1020	0.1003	0.0985
-1.1	0.1357	0.1335	0.1314	0.1292	0.1271	0.1251	0.1230	0.1210	0.1190	0.1170
-1	0.1587	0.1562	0.1539	0.1515	0.1492	0.1469	0.1446	0.1423	0.1401	0.1379
-0.9	0.1841	0.1814	0.1788	0.1762	0.1736	0.1711	0.1685	0.1660	0.1635	0.1611
-0.8	0.2119	0.2090	0.2061	0.2033	0.2005	0.1977	0.1949	0.1922	0.1894	0.1867
-0.7	0.2420	0.2389	0.2358	0.2327	0.2296	0.2266	0.2236	0.2206	0.2177	0.2148
-0.6	0.2743	0.2709	0.2676	0.2643	0.2611	0.2578	0.2546	0.2514	0.2483	0.2451
-0.5	0.3085	0.3050	0.3015	0.2981	0.2946	0.2912	0.2877	0.2843	0.2810	0.2776
-0.4	0.3446	0.3409	0.3372	0.3336	0.3300	0.3264	0.3228	0.3192	0.3156	0.3121
-0.3	0.3821	0.3783	0.3745	0.3707	0.3669	0.3632	0.3594	0.3557	0.3520	0.3483
-0.2	0.4207	0.4168	0.4129	0.4090	0.4052	0.4013	0.3974	0.3936	0.3897	0.3859
-0.1	0.4602	0.4562	0.4522	0.4483	0.4443	0.4404	0.4364	0.4325	0.4286	0.4247
0.0	0.5000	0.4960	0.4920	0.4880	0.4840	0.4801	0.4761	0.4721	0.4681	0.4641
0.1	0.5399	0.5359	0.5319	0.5279	0.5239	0.5199	0.5159	0.5119	0.5079	0.5039
0.2	0.5793	0.5753	0.5714	0.5675	0.5636	0.5596	0.5557	0.5517	0.5478	0.5438
0.3	0.6179	0.6139	0.6100	0.6061	0.6022	0.5983	0.5944	0.5905	0.5866	0.5827
0.4	0.6554	0.6515	0.6476	0.6437	0.6398	0.6359	0.6320	0.6281	0.6242	0.6203
0.5	0.6915	0.6876	0.6837	0.6798	0.6759	0.6720	0.6681	0.6642	0.6603	0.6564
0.6	0.7257	0.7218	0.7179	0.7140	0.7101	0.7062	0.7023	0.6984	0.6945	0.6906
0.7	0.7580	0.7541	0.7502	0.7463	0.7424	0.7385	0.7346	0.7307	0.7268	0.7229
0.8	0.7881	0.7842	0.7803	0.7764	0.7725	0.7686	0.7647	0.7608	0.7569	0.7530
0.9	0.8159	0.8120	0.8081	0.8042	0.8003	0.7964	0.7925	0.7886	0.7847	0.7808
1	0.8413	0.8374	0.8335	0.8296	0.8257	0.8218	0.8179	0.8140	0.8101	0.8062
1.1	0.8643	0.8604	0.8565	0.8526	0.8487	0.8448	0.8409	0.8370	0.8331	0.8292
1.2	0.8849	0.8810	0.8771	0.8732	0.8693	0.8654	0.8615	0.8576	0.8537	0.8498
1.3	0.9032	0.9003	0.8974	0.8945	0.8925	0.8905	0.8885	0.8865	0.8845	0.8825
1.4	0.9192	0.9172	0.9152	0.9132	0.9112	0.9092	0.9072	0.9052	0.9032	0.9012
1.5	0.9332	0.9312	0.9292	0.9272	0.9252	0.9232	0.9212	0.9192	0.9172	0.9152
1.6	0.9452	0.9432	0.9412	0.9392	0.9372	0.9352	0.9332	0.9312	0.9292	0.9272
1.7	0.9554	0.9534	0.9514	0.9494	0.9474	0.9454	0.9434	0.9414	0.9394	0.9374
1.8	0.9641	0.9621	0.9601	0.9581	0.9561	0.9541	0.9521	0.9501	0.9481	0.9461
1.9	0.9713	0.9693	0.9673	0.9653	0.9633	0.9613	0.9593	0.9573	0.9553	0.9533
2	0.9772	0.9752	0.9732	0.9712	0.9692	0.9672	0.9652	0.9632	0.9612	0.9592
2.1	0.9821	0.9801	0.9781	0.9761	0.9741	0.9721	0.9701	0.9681	0.9661	0.9641
2.2	0.9861	0.9841	0.9821	0.9801	0.9781	0.9761	0.9741	0.9721	0.9701	0.9681
2.3	0.9893	0.9873	0.9853	0.9833	0.9813	0.9793	0.9773	0.9753	0.9733	0.9713
2.4	0.9918	0.9898	0.9878	0.9858	0.9838	0.9818	0.9798	0.9778	0.9758	0.9738
2.5	0.9938	0.9918	0.9898	0.9878	0.9858	0.9838	0.9818	0.9798	0.9778	0.9758
2.6	0.9953	0.9933	0.9913	0.9893	0.9873	0.9853	0.9833	0.9813	0.9793	0.9773
2.7	0.9965	0.9945	0.9925	0.9905	0.9885	0.9865	0.9845	0.9825	0.9805	0.9785
2.8	0.9974	0.9954	0.9934	0.9914	0.9894	0.9874	0.9854	0.9834	0.9814	0.9794
2.9	0.9981	0.9961	0.9941	0.9921	0.9901	0.9881	0.9861	0.9841	0.9821	0.9801
3	0.9987	0.9967	0.9947	0.9927	0.9907	0.9887	0.9867	0.9847	0.9827	0.9807

1. Si una variable normal X no es estándar, entonces sus valores deben ser estandarizados mediante la transformación: $Z=(X-\mu)/\sigma$ es decir, $P(X < x) = \Phi[(x-\mu)/\sigma]$
2. Para valores de $z > 4$, $\Phi(z) = 1$, a una precisión de cuatro decimales; para valores de $z < -4$, $\Phi(z) = 0$, con cuatro decimales significativos.
3. Aquellos valores al lado del valor de 3 corresponden a las probabilidades acumuladas de z igual a 3.0, 3.1, 3.2, etc.