

## Two Tail t Values for $\alpha$ and Degrees of Freedom

Degrees of Freedom	Combined Area $\alpha$ in Two Tails					
	0.250	0.100	0.050	0.025	0.010	0.005
1	2.4142	6.3138	12.7062	25.4517	63.6567	127.3213
2	1.6036	2.9200	4.3027	6.2053	9.9248	14.0890
3	1.4226	2.3534	3.1824	4.1765	5.8409	7.4533
4	1.3444	2.1318	2.7764	3.4954	4.6041	5.5976
5	1.3009	2.0150	2.5706	3.1634	4.0321	4.7733
6	1.2733	1.9432	2.4469	2.9687	3.7074	4.3168
7	1.2543	1.8946	2.3646	2.8412	3.4995	4.0293
8	1.2403	1.8595	2.3060	2.7515	3.3554	3.8325
9	1.2297	1.8331	2.2622	2.6850	3.2498	3.6897
10	1.2213	1.8125	2.2281	2.6338	3.1693	3.5814
11	1.2145	1.7959	2.2010	2.5931	3.1058	3.4966
12	1.2089	1.7823	2.1788	2.5600	3.0545	3.4284
13	1.2041	1.7709	2.1604	2.5326	3.0123	3.3725
14	1.2001	1.7613	2.1448	2.5096	2.9768	3.3257
15	1.1967	1.7531	2.1314	2.4899	2.9467	3.2860
16	1.1937	1.7459	2.1199	2.4729	2.9208	3.2520
17	1.1910	1.7396	2.1098	2.4581	2.8982	3.2224
18	1.1887	1.7341	2.1009	2.4450	2.8784	3.1966
19	1.1866	1.7291	2.0930	2.4334	2.8609	3.1737
20	1.1848	1.7247	2.0860	2.4231	2.8453	3.1534
21	1.1831	1.7207	2.0796	2.4138	2.8314	3.1352
22	1.1815	1.7171	2.0739	2.4055	2.8188	3.1188
23	1.1802	1.7139	2.0687	2.3979	2.8073	3.1040
24	1.1789	1.7109	2.0639	2.3909	2.7969	3.0905
25	1.1777	1.7081	2.0595	2.3846	2.7874	3.0782
26	1.1766	1.7056	2.0555	2.3788	2.7787	3.0669
27	1.1756	1.7033	2.0518	2.3734	2.7707	3.0565
28	1.1747	1.7011	2.0484	2.3685	2.7633	3.0469
29	1.1739	1.6991	2.0452	2.3638	2.7564	3.0380
30	1.1731	1.6973	2.0423	2.3596	2.7500	3.0298
40	1.1673	1.6839	2.0211	2.3289	2.7045	2.9712
50	1.1639	1.6759	2.0086	2.3109	2.6778	2.9370
60	1.1616	1.6706	2.0003	2.2990	2.6603	2.9146
70	1.1600	1.6669	1.9944	2.2906	2.6479	2.8987
80	1.1588	1.6641	1.9901	2.2844	2.6387	2.8870
90	1.1578	1.6620	1.9867	2.2795	2.6316	2.8779
100	1.1571	1.6602	1.9840	2.2757	2.6259	2.8707
200	1.1537	1.6525	1.9719	2.2584	2.6006	2.8385
500	1.1517	1.6479	1.9647	2.2482	2.5857	2.8195
10000	1.1504	1.6450	1.9602	2.2417	2.5763	2.8077