

# Critical Values of the *t* Distribution

Taken from Zar, 1984 Table B.3

Tails  
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$\nu$	$\alpha(2): 0.50$ $\alpha(1): 0.25$	0.20	0.10	0.05	0.02	0.01	0.005	0.0025	0.001	0.0005
1	1.000	3.078	6.314	12.706	31.821	63.657	127.321	318.309	636.619	
2	0.816	1.886	2.920	4.303	6.965	9.925	14.089	22.327	31.599	
3	0.765	1.638	2.353	3.182	4.541	5.841	7.453	10.215	12.924	
4	0.741	1.533	2.132	2.776	3.747	4.604	5.598	7.173	8.610	
5	0.727	1.476	2.015	2.571	3.365	4.032	4.773	5.893	6.869	
6	0.718	1.440	1.943	2.447	3.143	3.707	4.317	5.208	5.959	
7	0.711	1.415	1.895	2.365	2.998	3.499	4.029	4.785	5.408	
8	0.706	1.397	1.860	2.306	2.896	3.355	3.833	4.501	5.041	
9	0.703	1.383	1.833	2.262	2.821	3.250	3.690	4.297	4.781	
10	0.700	1.372	1.812	2.228	2.764	3.169	3.581	4.144	4.587	
11	0.697	1.363	1.796	2.201	2.718	3.106	3.497	4.025	4.437	
12	0.695	1.356	1.782	2.179	2.681	3.055	3.428	3.930	4.318	
13	0.694	1.350	1.771	2.160	2.650	3.012	3.372	3.852	4.221	
14	0.692	1.345	1.761	2.145	2.624	2.977	3.326	3.787	4.140	
15	0.691	1.341	1.753	2.131	2.602	2.947	3.286	3.733	4.073	
16	0.690	1.337	1.746	2.120	2.583	2.921	3.252	3.686	4.015	
17	0.689	1.333	1.740	2.110	2.567	2.898	3.222	3.646	3.965	
18	0.688	1.330	1.734	2.101	2.552	2.878	3.197	3.610	3.922	
19	0.688	1.328	1.729	2.093	2.539	2.861	3.174	3.579	3.883	
20	0.687	1.325	1.725	2.086	2.528	2.845	3.152	3.552	3.850	
21	0.686	1.323	1.721	2.080	2.518	2.831	3.135	3.527	3.819	
22	0.686	1.321	1.717	2.074	2.508	2.819	3.119	3.505	3.792	
23	0.685	1.319	1.714	2.069	2.500	2.807	3.104	3.485	3.768	
24	0.685	1.318	1.711	2.064	2.492	2.797	3.091	3.467	3.745	
25	0.684	1.316	1.708	2.060	2.485	2.787	3.078	3.450	3.725	
26	0.684	1.315	1.706	2.056	2.479	2.779	3.067	3.435	3.707	
27	0.684	1.314	1.703	2.052	2.473	2.771	3.057	3.421	3.690	
28	0.683	1.313	1.701	2.048	2.467	2.763	3.047	3.408	3.674	
29	0.683	1.311	1.699	2.045	2.462	2.756	3.038	3.396	3.659	
30	0.683	1.310	1.697	2.042	2.457	2.750	3.030	3.385	3.646	
31	0.682	1.309	1.696	2.040	2.453	2.744	3.022	3.375	3.633	
32	0.682	1.309	1.694	2.037	2.449	2.738	3.015	3.365	3.622	
33	0.682	1.308	1.692	2.035	2.445	2.733	3.008	3.356	3.611	
34	0.682	1.307	1.691	2.032	2.441	2.728	3.002	3.348	3.601	
35	0.682	1.306	1.690	2.030	2.438	2.724	2.996	3.340	3.591	
36	0.681	1.306	1.688	2.028	2.434	2.719	2.990	3.333	3.582	
37	0.681	1.305	1.687	2.026	2.431	2.715	2.985	3.326	3.574	
38	0.681	1.304	1.686	2.024	2.429	2.712	2.980	3.319	3.566	
39	0.681	1.304	1.685	2.023	2.426	2.708	2.976	3.313	3.558	
40	0.681	1.303	1.684	2.021	2.423	2.704	2.971	3.307	3.551	
41	0.681	1.303	1.683	2.020	2.421	2.701	2.967	3.301	3.544	
42	0.680	1.302	1.682	2.018	2.418	2.698	2.963	3.296	3.538	
43	0.680	1.302	1.681	2.017	2.416	2.695	2.959	3.291	3.532	
44	0.680	1.301	1.680	2.015	2.414	2.692	2.956	3.286	3.526	
45	0.680	1.301	1.679	2.014	2.412	2.690	2.952	3.281	3.520	
46	0.680	1.300	1.679	2.013	2.410	2.687	2.949	3.277	3.515	
47	0.680	1.300	1.678	2.012	2.408	2.685	2.946	3.273	3.510	
48	0.680	1.299	1.677	2.011	2.407	2.682	2.943	3.269	3.505	
49	0.680	1.299	1.677	2.010	2.405	2.680	2.940	3.265	3.500	
50	0.679	1.299	1.676	2.009	2.403	2.678	2.937	3.261	3.496	

$\nu$	$\alpha(2): 0.50$ $\alpha(1): 0.25$	0.20	0.10	0.05	0.02	0.01	0.005	0.0025	0.001	0.0005
52	0.679	1.298	1.675	2.007	2.400	2.674	2.932	3.255	3.488	
54	0.679	1.297	1.674	2.005	2.397	2.670	2.927	3.248	3.480	
56	0.679	1.297	1.673	2.003	2.395	2.667	2.923	3.242	3.473	
58	0.679	1.296	1.672	2.002	2.392	2.663	2.918	3.237	3.466	
60	0.679	1.296	1.671	2.000	2.390	2.660	2.915	3.232	3.460	
62	0.678	1.295	1.670	1.999	2.388	2.657	2.911	3.227	3.454	
64	0.678	1.295	1.669	1.998	2.386	2.655	2.908	3.223	3.449	
66	0.678	1.295	1.668	1.997	2.384	2.652	2.904	3.218	3.444	
68	0.678	1.294	1.668	1.995	2.382	2.650	2.902	3.214	3.439	
70	0.678	1.294	1.667	1.994	2.381	2.648	2.899	3.211	3.435	
72	0.678	1.293	1.666	1.993	2.379	2.646	2.896	3.207	3.431	
74	0.678	1.293	1.666	1.993	2.378	2.644	2.894	3.204	3.427	
76	0.678	1.293	1.665	1.992	2.376	2.642	2.891	3.201	3.423	
78	0.678	1.292	1.665	1.991	2.375	2.640	2.889	3.198	3.420	
80	0.678	1.292	1.664	1.990	2.374	2.639	2.887	3.195	3.416	
82	0.677	1.292	1.664	1.989	2.373	2.637	2.885	3.193	3.413	
84	0.677	1.292	1.663	1.989	2.372	2.636	2.883	3.190	3.410	
86	0.677	1.291	1.663	1.988	2.370	2.634	2.881	3.188	3.407	
88	0.677	1.291	1.662	1.987	2.369	2.633	2.880	3.185	3.405	
90	0.677	1.291	1.662	1.987	2.368	2.632	2.878	3.183	3.402	
92	0.677	1.291	1.662	1.986	2.368	2.630	2.876	3.181	3.399	
94	0.677	1.291	1.661	1.986	2.367	2.629	2.875	3.179	3.397	
96	0.677	1.290	1.661	1.985	2.366	2.628	2.873	3.177	3.395	
98	0.677	1.290	1.661	1.984	2.365	2.627	2.872	3.175	3.393	
100	0.677	1.290	1.660	1.984	2.364	2.626	2.871	3.174	3.390	
105	0.677	1.290	1.659	1.983	2.362	2.623	2.868	3.170	3.386	
110	0.677	1.289	1.659	1.982	2.361	2.621	2.865	3.166	3.381	
115	0.677	1.289	1.658	1.981	2.359	2.619	2.862	3.163	3.377	
120	0.677	1.289	1.658	1.980	2.358	2.617	2.860	3.160	3.373	
125	0.676	1.288	1.657	1.979	2.357	2.616	2.858	3.157	3.370	
130	0.676	1.288	1.657	1.978	2.355	2.614	2.856	3.154	3.367	
135	0.676	1.288	1.656	1.978	2.354	2.613	2.854	3.152	3.364	
140	0.676	1.288	1.656	1.977	2.353	2.611	2.852	3.149	3.361	
145	0.676	1.287	1.655	1.976	2.352	2.610	2.851	3.147	3.359	
150	0.676	1.287	1.655	1.976	2.351	2.609	2.849	3.145	3.357	
160	0.676	1.287	1.654	1.975	2.350	2.607	2.846	3.142	3.352	
170	0.676	1.287	1.654	1.974	2.348	2.605	2.844	3.139	3.349	
180	0.676	1.286	1.653	1.973	2.347	2.603	2.842	3.136	3.345	
190	0.676	1.286	1.653	1.973	2.346	2.602	2.840	3.134	3.342	
200	0.676	1.286	1.653	1.972	2.345	2.601	2.839	3.131	3.340	
250	0.675	1.285	1.651	1.969	2.341	2.596	2.832	3.123	3.330	
300	0.675	1.284	1.650	1.968	2.339	2.592	2.828	3.118	3.323	
350	0.675	1.284	1.649	1.967	2.337	2.590	2.825	3.114	3.319	
400	0.675	1.284	1.649	1.966	2.336	2.588	2.823	3.111	3.315	
450	0.675	1.283	1.648	1.965	2.335	2.587	2.821	3.108	3.312	
500	0.675	1.283	1.648	1.965	2.334	2.586	2.820	3.107	3.310	
600	0.675	1.283	1.647	1.964	2.333	2.584	2.817	3.104	3.307	
700	0.675	1.283	1.647	1.963	2.332	2.583	2.816	3.102	3.304	
800	0.675	1.283	1.647	1.963	2.331	2.582	2.815	3.100	3.303	
900	0.675	1.282	1.647	1.963	2.330	2.581	2.814	3.099	3.301	
1000	0.675	1.282	1.646	1.962	2.330	2.581	2.813	3.098	3.300	
$\infty$	0.6745	1.2816	1.6449	1.9600	2.3263	2.5758	2.8070	3.0902	3.2905	