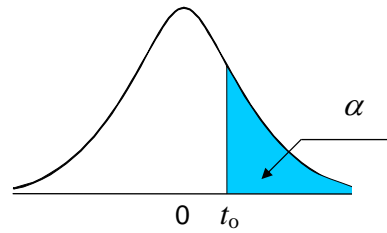


Percentage points (t_0) for upper probability of Student's t-distribution

www.vaxasoftware.com

$$\alpha = p(t \geq t_0) = \int_{t_0}^{\infty} \frac{\Gamma\left(\frac{n+1}{2}\right) \left(1 + \frac{t^2}{2}\right)^{-\frac{n+1}{2}}}{\Gamma\left(\frac{n}{2}\right) \sqrt{n\pi}} dt$$



α n	0.450	0.400	0.350	0.30	0.250	0.200	0.100	0.050	0.025	0.020	0.010	0.005	α n
1	0.15838	0.32492	0.50953	0.72654	1.00000	1.37638	3.07768	6.31375	12.7062	15.8945	31.8205	63.6567	1
2	0.14213	0.28868	0.44475	0.61721	0.81650	1.06066	1.88562	2.91999	4.30265	4.84873	6.96456	9.92484	2
3	0.13660	0.27667	0.42420	0.58439	0.76489	0.97847	1.63774	2.35336	3.18245	3.48191	4.54070	5.84091	3
4	0.13383	0.27072	0.41416	0.56865	0.74070	0.94096	1.53321	2.13185	2.77645	2.99853	3.74695	4.60409	4
5	0.13218	0.26718	0.40823	0.55943	0.72669	0.91954	1.47588	2.01505	2.57058	2.75651	3.36493	4.03214	5
6	0.13108	0.26483	0.40431	0.55338	0.71756	0.90570	1.43976	1.94318	2.44691	2.61224	3.14267	3.70743	6
7	0.13029	0.26317	0.40154	0.54911	0.71114	0.89603	1.41492	1.89458	2.36462	2.51675	2.99795	3.49948	7
8	0.12971	0.26192	0.39947	0.54593	0.70639	0.88889	1.39682	1.85955	2.30600	2.44898	2.89646	3.35539	8
9	0.12925	0.26096	0.39787	0.54348	0.70272	0.88340	1.38303	1.83311	2.26216	2.39844	2.82144	3.24984	9
10	0.12889	0.26018	0.39659	0.54153	0.69981	0.87906	1.37218	1.81246	2.22814	2.35931	2.76377	3.16927	10
11	0.12859	0.25956	0.39555	0.53994	0.69745	0.87553	1.36343	1.79588	2.20099	2.32814	2.71808	3.10581	11
12	0.12835	0.25903	0.39469	0.53862	0.69548	0.87261	1.35622	1.78229	2.17881	2.30272	2.68100	3.05454	12
13	0.12814	0.25859	0.39396	0.53750	0.69383	0.87015	1.35017	1.77093	2.16037	2.28160	2.65031	3.01228	13
14	0.12796	0.25821	0.39333	0.53655	0.69242	0.86805	1.34503	1.76131	2.14479	2.26378	2.62449	2.97684	14
15	0.12781	0.25789	0.39279	0.53573	0.69120	0.86624	1.34061	1.75305	2.13145	2.24854	2.60248	2.94671	15
16	0.12767	0.25760	0.39232	0.53501	0.69013	0.86467	1.33676	1.74588	2.11991	2.23536	2.58349	2.92078	16
17	0.12755	0.25735	0.39190	0.53438	0.68920	0.86328	1.33338	1.73961	2.10982	2.22385	2.56693	2.89823	17
18	0.12745	0.25712	0.39153	0.53382	0.68836	0.86205	1.33039	1.73406	2.10092	2.21370	2.55238	2.87844	18
19	0.12735	0.25692	0.39120	0.53331	0.68762	0.86095	1.32773	1.72913	2.09302	2.20470	2.53948	2.86093	19
20	0.12727	0.25674	0.39091	0.53286	0.68695	0.85996	1.32534	1.72472	2.08596	2.19666	2.52798	2.84534	20
21	0.12719	0.25658	0.39064	0.53246	0.68635	0.85907	1.32319	1.72074	2.07961	2.18943	2.51765	2.83136	21
22	0.12712	0.25643	0.39039	0.53208	0.68581	0.85827	1.32124	1.71714	2.07387	2.18289	2.50832	2.81876	22
23	0.12706	0.25630	0.39017	0.53175	0.68531	0.85753	1.31946	1.71387	2.06866	2.17696	2.49987	2.80734	23
24	0.12700	0.25617	0.38997	0.53144	0.68485	0.85686	1.31784	1.71088	2.06390	2.17154	2.49216	2.79694	24
25	0.12694	0.25606	0.38978	0.53115	0.68443	0.85624	1.31635	1.70814	2.05954	2.16659	2.48511	2.78744	25
26	0.12689	0.25595	0.38961	0.53089	0.68404	0.85567	1.31497	1.70562	2.05553	2.16203	2.47863	2.77871	26
27	0.12685	0.25586	0.38945	0.53065	0.68368	0.85514	1.31370	1.70329	2.05183	2.15782	2.47266	2.77068	27
28	0.12681	0.25577	0.38930	0.53042	0.68335	0.85465	1.31253	1.70113	2.04841	2.15393	2.46714	2.76326	28
29	0.12677	0.25568	0.38916	0.53021	0.68304	0.85419	1.31143	1.69913	2.04523	2.15033	2.46202	2.75639	29
30	0.12673	0.25561	0.38903	0.53002	0.68276	0.85377	1.31042	1.69726	2.04227	2.14697	2.45726	2.75000	30
32	0.12666	0.25546	0.38880	0.52967	0.68223	0.85300	1.30857	1.69389	2.03693	2.14090	2.44868	2.73848	32
34	0.12660	0.25534	0.38859	0.52935	0.68177	0.85232	1.30695	1.69092	2.03224	2.13558	2.44115	2.72839	34
36	0.12655	0.25523	0.38841	0.52908	0.68137	0.85172	1.30551	1.68830	2.02809	2.13087	2.43449	2.71948	36
38	0.12650	0.25513	0.38825	0.52883	0.68100	0.85118	1.30423	1.68595	2.02439	2.12667	2.42857	2.71156	38
40	0.12646	0.25504	0.38810	0.52861	0.68067	0.85070	1.30308	1.68385	2.02108	2.12291	2.42326	2.70446	40
42	0.12642	0.25496	0.38797	0.52840	0.68038	0.85026	1.30204	1.68195	2.01808	2.11952	2.41847	2.69807	42
44	0.12639	0.25488	0.38785	0.52822	0.68011	0.84987	1.30109	1.68023	2.01537	2.11644	2.41413	2.69228	44
46	0.12636	0.25482	0.38774	0.52805	0.67986	0.84951	1.30023	1.67866	2.01290	2.11364	2.41019	2.68701	46
48	0.12633	0.25476	0.38763	0.52790	0.67964	0.84917	1.29944	1.67722	2.01063	2.11107	2.40658	2.68220	48
50	0.12630	0.25470	0.38754	0.52776	0.67943	0.84887	1.29871	1.67591	2.00856	2.10872	2.40327	2.67779	50
60	0.12619	0.25447	0.38717	0.52720	0.67860	0.84765	1.29582	1.67065	2.00030	2.09936	2.39012	2.66028	60
70	0.12612	0.25431	0.38691	0.52680	0.67801	0.84679	1.29376	1.66691	1.99444	2.09273	2.38081	2.64790	70
80	0.12606	0.25419	0.38671	0.52650	0.67757	0.84614	1.29222	1.66412	1.99006	2.08778	2.37387	2.63869	80
90	0.12602	0.25410	0.38655	0.52626	0.67723	0.84563	1.29103	1.66196	1.98667	2.08394	2.36850	2.63157	90
100	0.12598	0.25402	0.38643	0.52608	0.67695	0.84523	1.29007	1.66023	1.98397	2.08088	2.36422	2.62589	100
120	0.12593	0.25391	0.38624	0.52580	0.67654	0.84463	1.28865	1.65765	1.97993	2.07631	2.35782	2.61742	120
140	0.12589	0.25383	0.38611	0.52560	0.67625	0.84420	1.28763	1.65581	1.97705	2.07306	2.35328	2.61140	140
160	0.12586	0.25377	0.38601	0.52545	0.67603	0.84387	1.28687	1.65443	1.97490	2.07063	2.34988	2.60691	160
180	0.12584	0.25372	0.38594	0.52533	0.67586	0.84362	1.28627	1.65336	1.97323	2.06874	2.34724	2.60342	180
200	0.12582	0.25368	0.38587	0.52524	0.67572	0.84342	1.28580	1.65251	1.97190	2.06723	2.34514	2.60063	200
250	0.12579	0.25362	0.38576	0.52507	0.67547	0.84306	1.28495	1.65097	1.96950	2.06452	2.34136	2.59564	250
300	0.12577	0.25357	0.38569	0.52496	0.67531	0.84282	1.28438	1.64995	1.96790	2.06272	2.33884	2.59232	300
350	0.12575	0.25354	0.38564	0.52488	0.67519	0.84265	1.28398	1.64922	1.96677	2.06143	2.33705	2.58995	350
400	0.12574	0.25352	0.38560	0.52482	0.67510	0.84252	1.28367	1.64867	1.96591	2.06047	2.33571	2.58818	400
450	0.12573	0.25350	0.38557	0.52477	0.67504	0.84242	1.28344	1.64825	1.96525	2.05972	2.33466	2.58680	450
500	0.12573	0.25348	0.38554	0.52473	0.67498	0.84234	1.28325	1.64791	1.96472	2.05912	2.33383	2.58570	500
∞	0.12566	0.25335	0.38532	0.52440	0.67449	0.84162	1.28155	1.64485	1.95996	2.05375	2.32635	2.57583	∞
n α	0.450	0.400	0.350	0.300	0.250	0.200	0.100	0.050	0.025	0.020	0.010	0.005	α n

www.vaxasoftware.com