

露點溫度與主要濕度換算表 (0-60°C)

露點 °C	飽和水蒸汽氣壓 Pa	混合比(空氣) g/kg	比濕(空氣) g/kg	絕對濕度 (20°C)g/m ³	體積比 PPmv	重量比 PPmw	相對濕度 (20°C)%
0	611.213	3.775	3.761	4.518	6069	3775	26.14
1	657.089	4.060	4.043	4.857	6527	4060	28.10
2	705.949	4.364	4.345	5.218	7016	4364	30.19
3	758.023	4.688	4.666	5.603	7537	4688	32.41
4	813.467	5.034	5.009	6.013	8093	5034	34.79
5	872.469	5.402	5.373	6.449	8685	5402	34.79
6	935.223	5.795	5.761	6.913	9316	5795	39.99
7	1001.93	6.212	6.174	7.406	9987	6212	42.84
8	1072.8	6.656	6.612	7.929	10701	6656	45.87
9	1148.06	7.128	7.078	8.486	11460	7128	49.09
10	1227.94	7.630	7.573	9.076	12267	7630	52.51
11	1312.67	8.164	8.098	9.702	13125	8164	56.13
12	1402.51	8.730	8.655	10.366	14036	8730	59.97
13	1497.72	9.332	9.246	11.070	15003	9332	64.05
14	1598.55	9.970	9.872	11.815	16029	9970	68.36
15	1705.32	10.648	10.535	12.605	17118	10648	72.92
16	1818.29	11.366	11.238	13.440	18273	11366	77.75
17	1937.7	12.127	11.982	14.323	19497	12127	82.86
18	2064.09	12.934	12.769	15.256	20795	12934	88.26
19	2197.57	13.789	13.602	16.243	22169	13789	93.97
20	2338.54	14.695	14.482	17.285	23625	14695	100.00
21	2487.37	15.653	15.412	18.385	25166	15653	
22	2644.42	16.668	16.395	19.546	26798	16668	
23	2810.05	17.742	17.433	20.770	28524	17742	
24	2984.70	18.878	18.528	22.061	30351	18878	
25	3168.74	20.080	19.685	23.421	32283	20080	
26	3362.60	21.350	20.904	24.854	34325	21350	
27	3566.71	22.694	22.190	26.363	36485	22694	
28	3781.54	24.114	23.546	27.950	38768	24114	
29	4007.54	25.514	24.947	29.621	41180	25614	
30	4245.20	27.199	26.497	29.621	41180	25614	
31	4495.02	28.874	28.064	33.224	46422	28874	
32	4757.52	30.644	29.733	35.164	49266	30644	
33	5033.22	32.512	31.0489	37.202	52271	32512	
34	5322.67	34.486	33.336	39.341	55443	34486	
35	5626.45	36.570	35.279	41.587	58793	36570	
36	5945.13	38.770	37.323	43.942	52331	38770	
37	6279.33	41.093	39.471	46.412	66066	41093	

38	6629.65	43.546	41.729	49.002	70010	43546	
39	6996.75	46.137	44.102	51.715	74174	46137	
40	7381.27	48.871	46.594	54.557	78571	48871	

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41	7783.91	51.759	49.212	57.533	83214	51759	
42	8205.36	54.808	51.961	60.648	88116	54808	
43	8546.33	58.029	54.846	63.908	93294	58029	
44	9107.57	51.430	57.875	67.317	98762	61430	
45	9589.84	65.023	61.053	70.881	104538	65023	
46	10093.92	68.819	64.388	74.607	110641	68819	
47	10620.62	72.830	67.886	78.500	117090	72800	
48	11170.76	77.070	71.556	82.566	123907	77070	
49	11745.19	81.553	75.404	86.812	131114	81553	
50	12344.78	86.294	79.439	91.244	138736	86294	
51	12970.12	91.309	83.670	95.868	146800	91309	
52	13623.04	96.617	88.105	100.692	155333	96617	
53	14303.57	102.237	92.754	105.722	164368	102237	
54	15012.98	108.190	97.628	110.965	173938	105190	
55	15752.26	114.498	102.735	116.430	184080	114498	
56	16522.43	121.187	108.088	122.122	194834	121187	
57	17324.31	128.283	113.698	128.050	206243	128283	
58	18159.59	135.817	119.577	134.223	218355	135581	
59	19028.74	143.820	125.737	140.647	231222	143820	
60	19933.09	152.329	132.193	147.331	244903	152239	

露點溫度與主要濕度換算表 (0--75°C)

露點 °C	飽和水蒸汽氣壓 Pa	混合比(空氣) g/kg	比濕(空氣) g/kg	絕對濕度 (20°C)g/m ³	體積比 PPmv	重量比 PPmw	相對濕度 (20°C)%
0	611.153	3.774	4.517	6068	748.5	904.1	26.13
-1	565.675	3.473	4.159	5584	688.8	832.0	24.06
-2	517.724	3.194	3.827	5136	633.5	765.2	22.14
-3	475.068	2.936	3.519	4721	582.3	703.3	20.36
-4	437.488	2.697	3.234	4336	534.9	646.1	18.71
-5	401.779	2.476	2.970	3981	491.1	593.1	17.18
-6	368.748	2.272	2.726	3653	450.5	544.2	15.77
-7	388.212	2.083	2.500	3349	413.1	499.0	14.46
-8	310.001	1.909	2.291	3069	378.5	457.2	13.26

-9	283.995	1.748	2.099	2811	346.7	418.8	12.14
-10	259.922	1.600	1.921	2572	317.2	383.2	11.11
-11	237.762	1.463	1.757	2352	290.1	350.4	10.17
-12	217.342	1.337	1.606	2150	265.2	320.3	9.294
-13	198.538	1.221	1.467	1963	242.2	292.5	8.490
-14	181.233	1.115	1.340	1792	221.0	267.0	7.750

露點溫度與主要濕度換算表 (0—-75℃)

露點 ℃	飽和水蒸汽氣壓 Pa	混合比(空氣) g/kg	比濕(空氣) g/kg	絕對濕度 (20℃)g/m ³	體積比 PPmv	重量比 PPmw	相對濕度 (20℃)%
-15	165.319	1.016	1.222	1634	201.6	243.5	7.069
-16	150.694	0.9264	1.114	1489	183.7	221.9	6.444
-17	137.263	0.8438	1.015	1357	167.3	202.1	5.870
-18	124.938	0.7679	0.9235	1235	152.3	183.9	5.343
-19	113.634	0.6983	0.8399	1123	138.5	167.3	4.589
-20	103.276	0.6346	0.7633	1020	125.9	152.0	4.416
-21	93.7904	0.5763	0.6932	926.5	114.3	138.0	4.011
-22	85.1104	0.5229	0.6291	840.7	103.7	125.2	3.639
-23	77.1735	0.4741	0.5704	762.2	94.02	113.6	3.300
-24	69.9217	0.4295	0.5168	690.6	85.18	102.9	2.990
-25	63.3008	0.3888	0.4679	625.1	77.11	93.13	2.670
-26	57.2607	0.3517	0.4232	565.4	69.75	84.24	2.449
-27	51.7546	0.3179	0.3825	511.0	63.04	76.14	2.213
-28	46.7393	0.2870	0.3455	461.5	56.93	68.76	1.999
-29	42.1748	0.2590	0.3117	416.4	51.36	62.04	1.803
-30	38.0238	0.2335	0.2810	375.4	46.31	55.93	1.625
-31	34.2521	0.2103	0.2532	338.2	41.71	50.38	1.465
-32	30.8277	0.1893	0.2279	304.3	37.54	45.34	1.318
-33	27.7214	0.1702	0.2049	273.7	33.76	40.77	1.185
-34	24.9059	0.1529	0.1841	245.9	30.33	36.63	1.065
-35	22.3563	0.1373	0.1652	220.7	27.22	32.88	0.956
-36	20.0494	0.1231	0.1482	197.9	24.41	29.49	0.8573
-37	17.9640	0.1103	0.1328	177.3	21.87	26.42	0.7682
-38	16.0805	0.09873	0.1189	158.7	19.58	23.65	0.6876
-39	14.3809	0.08829	0.1063	141.9	17.51	21.15	0.6150
-40	12.8485	0.07888	0.09497	126.8	15.64	18.89	0.5494
-41	11.4685	0.07041	0.08477	113.2	13.96	16.86	
-42	10.2265	0.06278	0.07559	100.9	12.45	15.04	
-43	9.11011	0.05593	0.06734	89.92	11.09	13.40	
-44	8.10736	0.04977	0.05992	80.02	9.870	11.52	
-45	7.20763	0.04425	0.05327	71.14	8.775	10.60	
-46	6.40114	0.03930	0.04732	63.18	7.793	9.413	

-47	5.67894	0.03486	0.04197	56.05	6.914	8.351	
-49	4.45556	0.02735	0.03293	43.97	5.424	6.552	
-50	3.94017	0.02419	0.02912	38.89	4.897	5.794	
-51	3.48056	0.02137	0.02573	34.35	4.237	5.118	
-52	3.07118	0.01885	0.02270	30.31	3.739	4.516	
-53	2.70680	0.01662	0.02001	26.71	3.295	3.980	
-54	2.38296	0.01463	0.01761	23.52	2.901	3.504	
-55	2.09542	0.01286	0.01549	20.68	2.551	3.081	
-56	1.84042	0.01130	0.01350	18.16	2.241	2.706	

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-57	1.61452	0.009911	0.01193	15.93	1.965	2.374	
-58	1.41463	0.008584	0.01046	13.96	1.722	2.080	
-59	1.23797	0.007600	0.009150	12.22	1.507	1.820	
-60	1.08203	0.006642	0.007998	10.68	1.317	1.591	
-61	0.944545	0.005798	0.006981	9.322	1.150	1.389	
-62	0.823473	0.005055	0.006087	8.127	1.002	1.211	
-63	0.716990	0.004401	0.005299	7.076	0.8728	1.054	
-64	0.623457	0.003827	0.004608	6.153	0.7590	0.9167	
-65	0.541406	0.003324	0.004002	5.343	0.6590	0.7951	
-66	0.469514	0.002882	0.003470	4.634	0.5716	0.6904	
-67	0.406613	0.002496	0.003005	4.013	0.4950	0.5979	
-68	0.351650	0.002159	0.002599	3.471	0.4281	0.5171	
-69	0.303688	0.001864	0.002245	2.997	0.3697	0.4465	
-70	0.261892	0.001608	0.001936	2.585	0.3188	0.3851	
-71	0.225521	0.001384	0.001667	2.226	0.2745	0.3316	
-72	0.193916	0.001190	0.001433	1.914	0.2361	0.2851	
-73	0.166491	0.001022	0.001231	1.643	0.2027	0.2448	
-74	0.142728	0.0008752	0.001085	1.409	0.1738	0.2099	
-75	0.122168	0.0007499	0.000930	1.206	0.1487	0.1796	