

●体積分率(水分濃度)、絶対湿度(蒸気密度)、相対湿度から大気圧露点(霜点)への換算表

大気圧 霜点／露点※1 tf(℃)／td(℃)	体積分率※2 (水分濃度) ppm(V) (vol%)	絶対湿度※3 (蒸気密度) g/m³	相対湿度(大気圧1013.25)※2 %RH			
			10℃露点気	20℃露点気	25℃露点気	30℃露点気
-85	0.232	0.000271	0.00%			
-84	0.276	0.000320	0.01%			
-83	0.327	0.000378	0.01%			
-82	0.387	0.000445	0.01%			
-81	0.458	0.000523	0.01%	0.00%		
-80	0.540	0.000613	0.01%	0.01%		
-79	0.636	0.000719	0.01%	0.01%	0.00%	
-78	0.748	0.000841	0.01%	0.01%	0.01%	
-77	0.878	0.000982	0.02%	0.01%	0.01%	0.00%
-76	1.029	0.00115	0.02%	0.01%	0.01%	0.01%
-75	1.204	0.00133	0.02%	0.01%	0.01%	0.01%
-74	1.407	0.00155	0.02%	0.01%	0.01%	0.01%
-73	1.641	0.00180	0.03%	0.01%	0.01%	0.01%
-72	1.911	0.00209	0.03%	0.02%	0.01%	0.01%
-71	2.223	0.00241	0.04%	0.02%	0.01%	0.01%
-70	2.581	0.00279	0.04%	0.02%	0.02%	0.01%
-69	2.993	0.00322	0.05%	0.03%	0.02%	0.01%
-68	3.466	0.00371	0.06%	0.03%	0.02%	0.02%
-67	4.008	0.00427	0.06%	0.03%	0.02%	0.02%
-66	4.628	0.00490	0.07%	0.04%	0.03%	0.02%
-65	5.336	0.00563	0.08%	0.04%	0.03%	0.02%
-64	6.145	0.00645	0.09%	0.05%	0.04%	0.03%
-63	7.067	0.00738	0.11%	0.06%	0.04%	0.03%
-62	8.117	0.00844	0.12%	0.06%	0.05%	0.04%
-61	9.310	0.00963	0.14%	0.07%	0.05%	0.04%
-60	10.67	0.0109	0.16%	0.08%	0.06%	0.05%
-59	12.20	0.0125	0.18%	0.09%	0.07%	0.05%
-58	13.94	0.0142	0.20%	0.11%	0.08%	0.06%
-57	15.91	0.0162	0.23%	0.12%	0.09%	0.07%
-56	18.14	0.0183	0.26%	0.14%	0.10%	0.08%
-55	20.66	0.0208	0.29%	0.15%	0.11%	0.08%
-54	23.49	0.0235	0.33%	0.17%	0.13%	0.10%
-53	26.68	0.0266	0.37%	0.19%	0.14%	0.11%
-52	30.28	0.0301	0.42%	0.22%	0.16%	0.12%
-51	34.31	0.0339	0.47%	0.25%	0.18%	0.14%
-50	38.84	0.0382	0.52%	0.28%	0.20%	0.15%
-49	43.92	0.0430	0.59%	0.31%	0.23%	0.17%
-48	49.62	0.0484	0.66%	0.34%	0.25%	0.19%
-47	55.99	0.0543	0.73%	0.39%	0.28%	0.21%
-46	63.11	0.0610	0.82%	0.43%	0.32%	0.24%
-45	71.06	0.0684	0.91%	0.48%	0.35%	0.26%
-44	79.93	0.0766	1.02%	0.53%	0.39%	0.29%
-43	89.82	0.0857	1.13%	0.59%	0.44%	0.33%
-42	100.8	0.0957	1.26%	0.66%	0.49%	0.36%
-41	113.1	0.107	1.40%	0.73%	0.54%	0.40%
-40	126.7	0.119	1.55%	0.81%	0.60%	0.45%
-39	141.8	0.133	1.72%	0.90%	0.67%	0.50%
-38	158.6	0.148	1.90%	1.00%	0.74%	0.55%
-37	177.1	0.165	2.10%	1.10%	0.81%	0.61%
-36	197.7	0.183	2.32%	1.22%	0.90%	0.67%
-35	220.5	0.203	2.57%	1.35%	0.99%	0.74%
-34	245.6	0.255	2.03%	1.06%	0.79%	0.59%
-33	273.4	0.250	2.26%	1.18%	0.87%	0.65%
-32	304.0	0.277	2.51%	1.32%	0.97%	0.73%
-31	337.8	0.306	2.79%	1.46%	1.08%	0.81%
-30	375.0	0.339	3.09%	1.62%	1.20%	0.89%
-29	416.0	0.374	3.43%	1.80%	1.33%	0.99%
-28	461.0	0.413	3.80%	2.00%	1.47%	1.10%
-27	510.5	0.455	4.21%	2.21%	1.63%	1.22%
-26	564.8	0.502	4.66%	2.45%	1.81%	1.35%
-25	624.4	0.552	5.15%	2.70%	2.00%	1.49%
-24	689.7	0.608	5.69%	2.99%	2.20%	1.65%
-23	761.3	0.668	6.28%	3.30%	2.43%	1.82%
-22	839.6	0.734	6.93%	3.64%	2.68%	2.00%
-21	925.3	0.805	7.63%	4.01%	2.96%	2.21%
-20	1019	0.884	8.41%	4.41%	3.26%	2.43%
-19	1121	0.968	9.25%	4.86%	3.58%	2.67%

大気圧 霜点／露点※1 tf(℃)／td(℃)	体積分率※2 (水分濃度) ppm(V) (vol%)	絶対湿度※3 (蒸気密度) g/m³	相対湿度(大気圧1013.25)※2 %RH			
			10℃露点気	20℃露点気	25℃露点気	30℃露点気
-18	1233	1.06	10.2%	5.34%	3.94%	2.94%
-17	1354	1.16	11.2%	5.87%	4.33%	3.23%
-16	1487	1.27	12.3%	6.44%	4.75%	3.55%
-15	1631	1.39	13.5%	7.07%	5.21%	3.89%
-14	1788	1.52	14.8%	7.75%	5.72%	4.27%
-13	1959	1.65	16.2%	8.49%	6.26%	4.67%
-12	2145	1.80	17.7%	9.29%	6.86%	5.12%
-11	2346	1.96	19.4%	10.2%	7.50%	5.60%
-10	2565	2.14	21.2%	11.1%	8.20%	6.12%
-9	2802	2.33	23.1%	12.1%	8.96%	6.69%
-8	3059	2.53	25.2%	13.3%	9.78%	7.30%
-7	3338	2.75	27.5%	14.5%	10.7%	7.96%
-6	3639	2.99	30.0%	15.8%	11.6%	8.68%
-5	3965	3.25	32.7%	17.2%	12.7%	9.46%
-4	4318	3.52	35.6%	18.7%	13.8%	10.3%
-3	4698	3.82	38.8%	20.4%	15.0%	11.2%
-2	5110	4.14	42.2%	22.1%	16.3%	12.2%
-1	5553	4.48	45.8%	24.1%	17.8%	13.2%
0	6032	4.85	49.8%	26.1%	19.3%	14.4%
1	6485	5.20	53.5%	28.1%	20.7%	15.5%
2	6967	5.56	57.5%	30.2%	22.3%	16.6%
3	7481	5.95	61.7%	32.4%	23.9%	17.8%
4	8029	6.36	66.2%	34.8%	25.7%	19.2%
5	8611	6.80	71.0%	37.3%	27.5%	20.5%
6	9231	7.27	76.2%	40.0%	29.5%	22.0%
7	9889	7.76	81.6%	42.8%	31.6%	23.6%
8	1.1%	8.28	87.4%	45.9%	33.8%	25.3%
9	1.1%	8.82	93.5%	49.1%	36.2%	27.0%
10	1.2%	9.41	100%	52.5%	38.7%	28.9%
11	1.3%	10.0		56.1%	41.4%	30.9%
12	1.4%	10.7		60.0%	44.3%	33.0%
13	1.5%	11.4		64.0%	47.3%	35.3%
14	1.6%	12.1		68.4%	50.4%	37.6%
15	1.7%	12.8		72.9%	53.8%	40.2%
16	1.8%	13.6		77.7%	57.4%	42.8%
17	1.9%	14.5		82.9%	61.1%	45.6%
18	2.0%	15.4		88.3%	65.1%	48.6%
19	2.2%	16.3		94.0%	69.3%	51.8%
20	2.3%	17.3		100%	73.8%	55.1%
21	2.5%	18.4			78.5%	58.6%
22	2.6%	19.4			83.5%	62.3%
23	2.8%	20.6			88.7%	66.2%
24	2.9%	21.8			94.2%	70.3%
25	3.1%	23.1			100%	74.6%
26	3.3%	24.4				79.2%
27	3.5%	25.8				84.0%
28	3.7%	27.3				89.1%
29	4.0%	28.8				94.4%
30	4.2%	30.4				100%
31	4.4%	32.1				
32	4.7%	33.9				
33	5.0%	35.7				
34	5.3%	37.6				
35	5.6%	39.7				
36	5.9%	41.8				
37	6.2%	44.0				
38	6.5%	46.3				
39	6.9%	48.6				
40	7.3%	51.2				
41	7.7%	53.8				
42	8.1%	56.6				
43	8.5%	59.4				
44	9.0%	62.4				
45	9.5%	65.5				
46	10.0%	68.8				

※1 JIS Z 8806を基に計算。

※2 JIS Z 8806を基に計算(大気圧:1013.25hPa)。

※3 JIS B 8391-1付属書Cによる。