

露点—PPm—绝对湿度换算表
Conversion Table For DP vs. PPm vs. Absolute Humidity

露点Dew Point (°C)	PPm	绝对湿度 Absolute Humidity (g/m ³)	露点Dew Point (°C)	PPm	绝对湿度 Absolute Humidity (g/m ³)	露点Dew Point (°C)	PPm	绝对湿度 Absolute Humidity (g/m ³)
0	6033	4.517	-42	100.9	0.07555	-84	0.2764	0.0002070
-2	5111	3.827	-44	80.03	0.05993	-86	0.1955	0.0001464
-4	4318	3.233	-46	63.19	0.04732	-88	0.1372	0.0001028
-6	3640	2.725	-48	49.67	0.03720	-90	0.09564	0.00007161
-8	3060	2.292	-50	38.89	0.02912	-92	0.06611	0.00004950
-10	2566	1.921	-52	30.32	0.02270	-94	0.0452	0.00003394
-12	2145	1.606	-54	23.51	0.01761	-96	0.03087	0.00002308
-14	1789	1.339	-56	18.16	0.01360	-98	0.02077	0.00001555
-16	1487	1.113	-58	13.96	0.01045	-100	0.01387	0.00001039
-18	1233	0.9233	-60	10.68	0.007998			
-20	1019	0.7629	-62	8.128	0.006087			
-22	840	0.6291	-64	6.154	0.004608			
-24	690.2	0.5169	-66	4.635	0.003471			
-26	565.3	0.4233	-68	3.471	0.002599			
-28	461.3	0.3454	-70	2.584	0.001935			
-30	375.3	0.2810	-72	1.914	0.001433			
-32	304.1	0.2278	-74	1.409	0.001055			
-34	245.8	0.1841	-76	1.031	0.0007717			
-36	197.8	0.1481	-78	0.7492	0.0005610			
-38	158.7	0.1189	-80	0.5410	0.0004051			
-40	126.8	0.09491	-82	0.3881	0.0002906			

注：1、露点换算为PPm 按下式计算： $P/1013 * 104$

2、露点换算为g/m³(20°C, 101.3Kpa)按下式计算

$$P/101.3 * 18.01/22.41 * 273.1/293.1$$

上式中：P-出露温度下冰的饱和蒸汽压Pa

note: 1. when the Dew Point is converted by ppm.

it can be calculated as follows: $P/1013 * 104$

2. When the Dew point is converted by g/m³

it can be calculated by the following formula:

$$P/101.3 * 18.01/22.41 * 273.1/293.1$$

In the above formula,

P= saturated vapor pressure of ice

At appearing dew temperature, Pa

