

Absolute Humidity table

The table shows the absolute humidity in g/m^3 (upper line) and the dew point temperature of the air in $^{\circ}\text{C}$ (lower line) for certain air temperatures as a function of relative humidity.

Example: At an air temperature of 50°C and a relative humidity of 70%, the absolute humidity is 58.1 g/m^3 and the dew point temperature is 43°C .

	Relative Humidity									
	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
+50 °C +122 °F	8.3 +8	16.6 +19	24.9 +26	33.2 +32	41.5 +36	49.8 +40	58.1 +43	66.4 +45	74.7 +48	83.0 +50
+45 °C +113 °F	6.5 +4	13.1 +15	19.6 +22	26.2 +27	32.7 +32	39.3 +36	45.8 +38	52.4 +41	58.9 +43	65.4 +45
+40 °C +104 °F	5.1 +1	10.2 +11	15.3 +18	20.5 +23	25.6 +27	30.7 +30	35.8 +33	40.9 +36	46.0 +38	51.1 +40
+35 °C +95 °F	4.0 -2	7.9 +8	11.9 +14	15.8 +18	19.8 +21	23.8 +25	27.7 +28	31.7 +31	35.6 +33	39.6 +35
+30 °C +86 °F	3.0 -6	6.1 +3	9.1 +10	12.1 +14	15.2 +18	18.2 +21	21.3 +24	24.3 +26	27.3 +28	30.4 +30
+25 °C +77 °F	2.3 -8	4.6 0	6.9 +5	9.2 +10	11.5 +13	13.8 +16	16.1 +19	18.4 +21	20.7 +23	23.0 +25
+20 °C +68 °F	1.7 -12	3.5 -4	5.2 +1	6.9 +5	8.7 +9	10.4 +12	12.1 +14	13.8 +16	15.6 +18	17.3 +20
+15 °C +59 °F	1.3 -16	2.6 -7	3.9 -3	5.1 +1	6.4 +4	7.7 +7	9.0 +9	10.3 +11	11.5 +13	12.8 +15
+10 °C +50 °F	0.9 -19	1.9 -11	2.8 -7	3.8 -3	4.7 0	5.6 +1	6.6 +4	7.5 +6	8.5 +8	9.4 +10
+5 °C +41 °F	0.7 -23	1.4 -15	2.0 -11	2.7 -7	3.4 -5	4.1 -2	4.8 0	5.4 +2	6.1 +3	6.8 +5
0 °C +32 °F	0.5 -26	1.0 -19	1.5 -14	1.9 -11	2.4 -8	2.9 -6	3.4 -4	3.9 -3	4.4 -2	4.8 0
-5 °C +23 °F	0.3 -29	0.7 -22	1.0 -18	1.4 -15	1.7 -13	2.1 -11	2.4 -8	2.7 -7	3.1 -6	3.4 -5
-10 °C +14 °F	0.2 -34	0.5 -26	0.7 -22	0.9 -19	1.2 -17	1.4 -15	1.6 -13	1.9 -11	2.1 -11	2.3 -10
-15 °C + 5 °F	0.2 -37	0.3 -30	0.5 -26	0.6 -23	0.8 -21	1.0 -19	1.1 -17	1.3 -16	1.5 -15	1.6 -15
-20 °C - 4 °F	0.1 -42	0.2 -35	0.3 -32	0.4 -29	0.4 -27	0.5 -25	0.6 -24	0.7 -22	0.8 -21	0.9 -20
-25 °C -13 °F	0.1 -45	0.1 -40	0.2 -36	0.2 -34	0.3 -32	0.3 -30	0.4 -29	0.4 -27	0.5 -26	0.6 -25