

## HumidAir Excel Add-In Property List

	Property Name	Property ID	SI Units	English Units
1.	Dry bulb temperature	Tdb	°C	°F
2.	Wet bulb temperature	Twb	°C	°F
3.	Dew point temperature	Tdp	°C	°F
4.	Pressure	P	bar	psi
5.	Saturation water pressure	Ps	bar	psi
6.	Saturation pressure at wet bulb temperature	Pwb	bar	psi
7.	Saturation pressure at dew point temperature	Pdp	bar	psi
8.	Mole fraction of water	Xw	-	-
9.	Mole fraction of air	Xa	-	-
10.	Weight fraction of water	Ww	-	-
11.	Weight fraction of air	Wa	-	-
12.	Humidity ratio	W	(kg moisture)/(kg dry air)	(lb moisture)/(lb dry air)
13.	Saturation humidity ratio	Ws	(kg moisture)/(kg dry air)	(lb moisture)/(lb dry air)
14.	Degree of saturation	DS	-	-
15.	Relative humidity	RH	-	-
16.	Specific volume of dry air	Va	m <sup>3</sup> /(kg dry air)	ft <sup>3</sup> /(lb dry air)
17.	Specific volume of saturated ice	Vi	m <sup>3</sup> /kg	ft <sup>3</sup> /lb
18.	Specific volume of saturated water	Vw	m <sup>3</sup> /kg	ft <sup>3</sup> /lb
19.	Specific volume of saturated vapor	Vv	m <sup>3</sup> /kg	ft <sup>3</sup> /lb
20.	Specific volume of moist air	Vm	m <sup>3</sup> /(kg dry air)	ft <sup>3</sup> /(lb dry air)
21.	Specific density of dry air	Da	(kg dry air)/m <sup>3</sup>	(lb dry air)/ft <sup>3</sup>
22.	Specific density of saturated ice	Di	kg/m <sup>3</sup>	lb/ft <sup>3</sup>
23.	Specific density of saturated water	Dw	kg/m <sup>3</sup>	lb/ft <sup>3</sup>
24.	Specific density of saturated vapor	Dv	kg/m <sup>3</sup>	lb/ft <sup>3</sup>
25.	Specific density of moist air	Dm	(kg dry air)/m <sup>3</sup>	(lb dry air)/ft <sup>3</sup>
26.	Specific enthalpy of dry air	Ha	kJ/(kg dry air)	Btu/(lb dry air)
27.	Specific enthalpy of saturated ice	Hi	kJ/kg	Btu/lb
28.	Specific enthalpy of saturated water	Hw	kJ/kg	Btu/lb
29.	Specific enthalpy of saturated vapor	Hv	kJ/kg	Btu/lb
30.	Specific enthalpy of moist air	Hm	kJ/(kg dry air)	Btu/(lb dry air)
31.	Specific entropy of dry air	Sa	kJ/(kg dry air·K)	Btu/(lb dry air·°F)
32.	Specific entropy of saturated ice	Si	kJ/(kg·K)	Btu/(lb·°F)
33.	Specific entropy of saturated water	Sw	kJ/(kg·K)	Btu/(lb·°F)
34.	Specific entropy of saturated vapor	Sv	kJ/(kg·K)	Btu/(lb·°F)
35.	Specific entropy of moist air	Sm	kJ/(kg dry air·K)	Btu/(lb dry air·°F)