temperatures, more moisture is required to reach saturation. The amount of water vapor required for saturation at various temperatures is shown in Table

Table 17.1 Amount of Water Vapor Needed to Saturate 1 Kilogram of Dry Air at Various Temperatures

Temperature °C (°F)	Water-Vapor Content at Saturation (grams)
−40 (−40)	0.1
−30 (−22)	0.3
−20 (−4)	0.75
−10 (14)	2
0 (32)	3.5
5 (41)	5
10 (50)	7
15 (59)	10
20 (68)	14
25 (77)	20
30 (86)	26.5
35 (95)	35
40 (104)	47

Mixing Ratio

Not all air is saturated, of course. Thus, we need ways to express how