

Temperature

Temperature Scales

Celsius Scale

0°C = melting point of ice or freezing point of water at one atmosphere pressure

100°C = boiling point of water or condensation point of water vapor at one atmosphere pressure

Kelvin or Absolute Scale

$1^{\circ}\text{C} = 1$ kelvin (K). The proper usage is “7 kelvins” instead of “ 7°Kelvin ”

T (in $^{\circ}\text{C}$) = T (in Kelvin) - 273.15

Absolute Zero = 0 K = -273.15°C

273.15 K = melting point of ice or freezing point of water at one atmosphere pressure

373.15 K = boiling point of water or condensation point of water vapor at one atmosphere pressure

Fahrenheit Scale

T ($^{\circ}\text{F}$) = $1.8 \times T$ ($^{\circ}\text{C}$) + 32

$68^{\circ}\text{F} = 20^{\circ}\text{C}$, $212^{\circ}\text{F} = 100^{\circ}\text{C}$, $32^{\circ}\text{F} = 0^{\circ}\text{C}$