

7. Temperatures

Temperatures are expressed in degrees of temperature scales.

There are scales based on the following different units:

Celsius or Centigrade (C., °C)

Fahrenheit (F., °F)

Réaumur (R., °R)

Kelvin (K., °K)

Relationship: $100\text{ }^{\circ}\text{C} \triangleq 212\text{ }^{\circ}\text{F} \triangleq 80\text{ }^{\circ}\text{R} \triangleq 373\text{ }^{\circ}\text{K}$

Comparison of degrees Centigrade, Fahrenheit, Réaumur and Kelvin

C.	F.	R.	K.	C.	F.	R.	K.
— 273	— 459.4	—218.4	0	— 1	+ 30.2	— 0.8	272
— 40	— 40.0	— 32.0	233	0	+ 32.0	0.0	273
— 35	— 31.0	— 28.0	238	+ 1	+ 33.8	+ 0.8	274
— 30	— 22.0	— 24.0	243	+ 2	+ 35.6	+ 1.6	275
— 25	— 13.0	— 20.0	248	+ 3	+ 37.4	+ 2.4	276
— 20	— 4.0	— 16.0	253	+ 4	+ 39.2	+ 3.2	277
— 19	— 2.2	— 15.2	254	+ 5	+ 41.0	+ 4.0	278
— 18	— 0.4	— 14.4	255	+ 6	+ 42.8	+ 4.8	279
— 17.8	0	— 14.2	255.2	+ 7	+ 44.6	+ 5.6	280
— 17	+ 1.4	— 13.6	256	+ 8	+ 46.4	+ 6.4	281
— 16	+ 3.2	— 12.8	257	+ 9	+ 48.2	+ 7.2	282
— 15	+ 5.0	— 12.0	258	+ 10	+ 50.0	+ 8.0	283
— 10	+ 14.0	— 8.0	263	+ 20	+ 68.0	+ 16.0	293
— 9	+ 15.8	— 7.2	264	+ 30	+ 86.0	+ 24.0	303
— 8	+ 17.6	— 6.4	265	+ 40	+ 104.0	+ 32.0	313
— 7	+ 19.4	— 5.6	266	+ 50	+ 122.0	+ 40.0	323
— 6	+ 21.2	— 4.8	267	+ 60	+ 140.0	+ 48.0	333
— 5	+ 23.0	— 4.0	268	+ 70	+ 158.0	+ 56.0	343
— 4	+ 24.8	— 3.2	269	+ 80	+ 176.0	+ 64.0	353
— 3	+ 26.6	— 2.4	270	+ 90	+ 194.0	+ 72.0	363
— 2	+ 28.4	— 1.6	271	+ 100	+ 212.0	+ 80.0	373