

CONVERSION TABLES

ENERGY, HEAT		
kWh (kilowatt/hour)	kcal (kilocalorie)	Btu (British thermal unit)
1	859.845	3.412×10^3
1.163×10^{-3}	1	3.968
0.293×10^{-3}	0.251	1

THERMAL CONDUCTIVITY, THERMAL TRANSMITTANCE				
W/m °C (K)	kcal/m h °C (K)	W/m ² °C (K)	kcal/m ² h °C (K)	Btu/ft ² h °F
1	0.859	1	0.859	0.176
1.163	1	1.163	1	0.204
		5.678	4.882	1

Thermodynamic temperature is Kelvin (K). For temperature difference use °C = K

From	To / From			To
LENGTH				
Inch	x	2.54	= cm	x 0.394 = inch
foot (= 12")	x	0.305	= m	x 3.28 = feet
yard (= 36")	x	0.914	= m	x 1.094 = yard
mile	x	1.609	= km	x 0.62 = mile
AREA				
square inch	x	6.45	= cm ²	x 0.155 = inch ²
square foot	x	10.76	= m ²	x 0.093 = foot ²
square yard	x	0.836	= m ²	x 1.196 = yard ²
VOLUME				
cubic inch	x	16.397	= cm ³	x 0.061 = inch ³
cubic foot	x	0.028	= m ³	x 35.7 = foot ³
cubic yard	x	0.756	= m ³	x 1.31 = yard ³
US quart	x	0.83	= Imp. qt	x 1.25 = US qt
US pint	x	0.47	= liter	x 2.10 = US pt
US quart	x	0.95	= liter	x 1.05 = US qt
US gallon	x	3.785	= liter	x 0.264 = US gal
WEIGHT				
ounce (oz)	x	28.35	= g	x 0.035 = oz
pound (lb)	x	0.4536	= kg	x 2.20 = lb
PRESSURE				
psi (lb/in ²)	x	0.07	= kg/cm ²	x 14.22 = psi

TEMPERATURE CONVERSION TABLES

°C	°F	°C	°F	°C	°F	°C	°F				
-40.0	-40	-40.0	-12.2	10	50.0	15.6	60	140.0	43.3	110	230.0
-39.4	-39	-38.2	-11.7	11	51.8	16.1	61	141.8	43.9	111	231.8
-38.9	-38	-36.4	-11.1	12	53.6	16.7	62	143.6	44.4	112	233.6
-38.3	-37	-34.6	-10.6	13	55.4	17.2	63	145.4	45.0	113	235.4
-37.8	-36	-32.8	-10.0	14	57.2	17.8	64	147.2	45.6	114	237.2
-37.2	-35	-31.0	- 9.4	15	59.0	18.3	65	149.0	46.1	115	239.0
-36.7	-34	-29.2	- 8.9	16	60.8	18.9	66	150.8	46.7	116	240.8
-36.1	-33	-27.4	- 8.3	17	62.6	19.4	67	152.6	47.2	117	242.6
-35.6	-32	-25.6	- 7.8	18	64.4	20.0	68	154.4	47.8	118	244.4
-35.0	-31	-23.8	- 7.2	19	66.2	20.6	69	156.2	48.3	119	246.2
-34.4	-30	-22.0	- 6.7	20	68.0	21.1	70	158.0	48.9	120	248.0
-33.9	-29	-20.2	- 6.1	21	69.8	21.7	71	159.8	49.4	121	249.8
-33.3	-28	-18.4	- 5.6	22	71.6	22.2	72	161.6	50.0	122	251.6
-32.8	-27	-16.6	- 5.0	23	73.4	22.8	73	163.4	50.6	123	253.4
-32.2	-26	-14.8	- 4.4	24	75.2	23.3	74	165.2	51.1	124	255.2
-31.7	-25	-13.0	- 3.9	25	77.0	23.9	75	167.0	51.7	125	257.0
-31.1	-24	-11.2	- 3.3	26	78.8	24.4	76	168.8	52.2	126	258.8
-30.6	-23	- 9.4	- 2.8	27	80.6	25.0	77	170.6	52.8	127	260.6
-30.0	-22	- 7.6	- 2.2	28	82.4	25.6	78	172.4	53.3	128	262.4
-29.4	-21	- 5.8	- 1.7	29	84.2	26.1	79	174.2	53.9	129	264.2
-28.9	-20	- 4.0	- 1.1	30	86.0	26.7	80	176.0	54.4	130	266.0
-28.3	-19	- 2.2	- 0.6	31	87.8	27.2	81	177.8	55.0	131	267.8
-27.8	-18	0.4	- 0.0	32	89.6	27.8	82	179.6	55.6	132	269.6
-27.2	-17	1.4	0.6	33	91.4	28.3	83	181.4	56.1	133	271.4
-26.7	-16	3.2	1.1	34	93.2	28.9	84	183.2	56.7	134	273.2
-26.1	-15	5.0	1.7	35	95.0	29.4	85	185.0	57.2	135	275.0
-25.6	-14	6.8	2.2	36	96.8	30.0	86	186.8	57.8	136	276.8
-25.0	-13	8.6	2.8	37	98.6	30.6	87	188.6	58.3	137	278.6
-24.4	-12	10.4	3.3	38	100.4	31.1	88	190.4	58.9	138	280.4
-23.9	-11	12.2	3.9	39	102.2	31.7	89	192.2	59.4	139	282.2
-23.3	-10	14.0	4.4	40	104.0	32.2	90	194.0	60.0	140	284.0
-22.8	- 9	15.8	5.0	41	105.8	32.8	91	195.8	60.6	141	285.8
-22.2	- 8	17.6	5.6	42	107.6	33.3	92	197.6	61.1	142	287.6
-21.7	- 7	19.4	6.1	43	109.4	33.9	93	199.4	61.7	143	289.4
-21.1	- 6	21.2	6.7	44	111.2	34.4	94	201.2	62.2	144	291.2
-20.6	- 5	23.0	7.2	45	113.0	35.0	95	203.0	62.8	145	293.0
-20.0	- 4	24.8	7.8	46	114.8	35.6	96	204.8	63.3	146	294.8
-19.4	- 3	26.6	8.3	47	116.6	36.1	97	206.6	63.9	147	296.6
-18.9	- 2	28.4	8.9	48	118.4	36.7	98	208.4	64.4	148	298.4
-18.3	- 1	30.2	9.4	49	120.2	37.2	99	210.2	65.0	149	300.2
-17.8	0	32.0	10.0	50	122.0	37.8	100	212.0	65.6	150	302.0
-17.2	1	33.8	10.6	51	123.8	38.3	101	213.8	66.1	151	303.8
-16.7	2	35.6	11.1	52	125.6	38.9	102	215.6	66.7	152	305.6
-16.1	3	37.4	11.7	53	127.4	39.4	103	217.4	67.2	153	307.4
-15.6	4	39.2	12.2	54	129.2	40.0	104	219.2	67.8	154	309.2
-15.0	5	41.0	12.8	55	131.0	40.6	105	221.0	68.3	155	311.0
-14.4	6	42.8	13.3	56	132.8	41.1	106	222.8	68.9	156	312.8
-13.9	7	44.6	13.9	57	134.6	41.7	107	224.6	69.4	157	314.6
-13.3	8	46.4	14.4	58	136.4	42.2	108	226.4	70.0	158	316.2
-12.8	9	48.2	15.0	59	138.2	42.8	109	226.2	70.6	159	318.2

The central figures in bold type refer to the temperature, either in degrees Centigrade or degrees Fahrenheit, which require conversion. The corresponding temperatures in degrees Fahrenheit or degrees Centigrade will be found to the right or left respectively.

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times 0.555$$

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

STEP Warmfloor™