

RADIANT EXPOSURE CONVERSION TABLE

	J m ⁻²	Wh m ⁻²	cal cm ⁻²	kcal m ⁻²	BTU ft ⁻²	langley	erg cm ⁻²
J m ⁻²	1	2.778e-4	2.388e-5	2.388e-4	8.810e-5	2.388e-5	1000
Wh m ⁻²	3600	1	0.08598	0.8598	0.3172	0.08598	3.600e6
cal cm ⁻²	4.187e4	11.630	1	10	3.688	1	4.187e7
kcal m ⁻²	4187	1.1630	0.1	1	0.3688	0.1	4.187e6
BTU ft ⁻²	1.1351e4	3.153	0.2711	2.711	1	0.2711	1.1351e7
langley	4.187e4	11.630	1	10	3.688	1	4.187e7
erg cm ⁻²	0.001	2.778e-7	2.388e-8	2.388e-7	8.810e-8	2.388e-8	1

1 langley = 1 cal cm⁻²

IRRADIANCE CONVERSION TABLE

	W m ⁻²	mW cm ⁻²	kW m ⁻²	cal cm ⁻² min ⁻¹	BTU ft ⁻² h ⁻¹	erg cm ⁻² s ⁻¹	μW cm ⁻²
W m ⁻²	1	0.1	0.001	0.0014331	0.3172	1000	100
mW cm ⁻²	10	1	0.01	0.014331	3.172	1e4	1000
kW m ⁻²	1000	100	1	1.4331	317.2	1e6	1e5
cal cm ⁻² min ⁻¹	697.8	69.78	0.6978	1	221.3	6.978e5	6.978e4
BTU ft ⁻² h ⁻¹	3.153	0.3153	0.003153	0.004519	1	3153	315.3
erg cm ⁻² s ⁻¹	0.001	1e-4	1e-6	1.4331e-6	3.172e-4	1	0.1
μW cm ⁻²	0.01	0.001	1e-5	1.4331e-5	0.003172	10	1

1 cal cm⁻² min⁻¹ = 1 langley min⁻¹ 1 W m⁻² = 1 J s⁻¹ m⁻²

TEMPERATURE CONVERSION TABLE

°C =	(°F - 32) / 1.8	°F =	(°C * 1.8) + 32
°C =	°K - 273.15	°F =	°R - 459.67
K =	°C + 273.15	°R =	°F + 459.67

Conversion Table Use

Find the units you have in the left column. Look across the table to find the units you wish to convert to. The value that is contained in that row and column is the multiplier that converts from the units you have to the units you want.

Example

To convert 60 degrees C to degrees F, multiply by 1.8 and add 32. **(60°C * 1.8) + 32 = 140°F**