

Temperature (physical property)

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A property of [Thermodynamic system](#) measuring a change of [internal energy](#) U with respect to the change of its [entropy](#) S :

(1)
$$T = \left(\frac{\partial U}{\partial S}\right)_{V,N}$$

with volume V and number of particles N being constant.

Symbol	Dimension	SI units	Oil metric units	Oil field units
T		°K	°C = °K - 273.15	T[°F] = 9/5 · T[°C] + 32
				T[°R] = 9/5 · T[°K]

See also

[Natural Science](#) / [Physics](#) / [Thermodynamics](#) / [Thermodynamic system](#)

[[Absolute Temperature Zero](#) °0] [[Absolute Temperature Units](#)]

[[Kelvin units](#) (°K)] [[Celsius unit](#) (°C)]

[[Rankine](#) (°R)] [[Fahrenheit unit](#) (°F)]