

energy, E

In mechanics the sum of potential energy and kinetic energy. In thermodynamics the internal energy or thermodynamic energy increase, ΔU , is the sum of heat and work brought to the system. Only changes in energy are measurable. For photons

$$E = h \nu$$

where h is the Planck constant and ν the frequency of radiation. In relativistic physics

$$E = m c^2$$

where c is the speed of light and m the mass.

Source:

Green Book, 2nd ed., p. 12