

**dose**

Energy or amount of *photons absorbed* per volume (or per mass) by an irradiated object during a particular exposure time. SI units are  $\text{J m}^{-3}$  or  $\text{J g}^{-1}$  and  $\text{mol m}^{-3}$  or  $\text{mol g}^{-1}$ , respectively. Common units are einstein  $\text{m}^{-3}$  or einstein  $\text{g}^{-1}$ , respectively.

Note: In medicine and in some other research areas (e.g., photopolymerization and water purification through irradiation) dose is used in the sense of *exposure*, i.e., the energy or amount of photons per surface area (or per volume) impinging upon an irradiated object during a particular exposure time. This use is not recommended. The terms *photon exposure* and *radiant exposure* are preferred.

2007, 79, 326

N.B. This supersedes an earlier definition.