doi:10.1351/goldbook.S05814

# spectral (photon) effectiveness

The reciprocal of the photon fluence rate, $E_{\mathrm{p}}^{0}$, at wavelength $\lambda$, causing identical photoresponse, $\Delta\mathrm{y}$, per unit time ($\frac{\Delta\mathrm{y}}{\Delta t}$). The effectiveness spectrum is directly proportional to the conversion spectrum of the sensory pigment, if spectral attenuance is negligible.

***Source:***
PAC, 1996, *68*, 2223 *(Glossary of terms used in photochemistry (IUPAC Recommendations 1996))* on page 2275

 Copyright © 2014 IUPAC