

oscillator strength, f_{ij}

Measure for integrated intensity of electronic transitions and related to the Einstein transition probability coefficient A_{ij} by:

$$f_{ij} = 1.4992 \times 10^{-14} \frac{A_{ij}}{s^{-1}} \left(\frac{\lambda}{\text{nm}} \right)^2,$$

where λ is the transition wavelength. There are, however, differing uses of f .

Source:

Green Book, 2nd ed., p. 33

See also:

PAC, 1996, 68, 2223 (*Glossary of terms used in photochemistry (IUPAC Recommendations 1996)*) on page 2257