

Lorentzian band shape

This band shape is described by the function:

$$F(\nu - \nu_0) = \frac{1}{\pi} \gamma ((\nu - \nu_0)^2 + \gamma^2)^{-1}$$

where ν_0 is the mean band position, γ is the half band width at half maximum, and $F(\nu - \nu_0)$ is the frequency distribution function.

See also: Gaussian band shape

Source:

PAC, 1996, 68, 2223 (*Glossary of terms used in photochemistry (IUPAC Recommendations 1996)*) on page 2252