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Lorentzian band shape

This band shape is described by the function:

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

where v_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

