

## Gaussian band shape

A band shape described by the Gaussian function:

$$F(\nu - \nu_0) = \frac{a}{\sqrt{\pi}} e^{-a^2 (\nu - \nu_0)^2}$$

In this equation,  $a^{-1}$  is proportional to the width of the band, and  $\nu_0$  is the frequency of the band maximum.

**See also:** Lorentzian band shape

**Source:**

PAC, 1996, 68, 2223 (*Glossary of terms used in photochemistry (IUPAC Recommendations 1996)*) on page 2244

**See also:**

PAC, 1990, 62, 2167 (*Glossary of atmospheric chemistry terms (Recommendations 1990)*) on page 2192