

**Integrated band strength for the most intense mid-infrared band of NO<sub>2</sub> and N<sub>2</sub>O<sub>4</sub> deposited at 16 and 60 K on a Si substrate.** The experimental procedure and peak identification are given in Fulvio et al. (2009, *Spectrochimica Acta A*, 72, 1007-1013). Please refer to this article when use the values given below.

Species – Peak position	Temperature	
	16 K A (cm molecule <sup>-1</sup> )	60K A (cm molecule <sup>-1</sup> )
NO <sub>2</sub> – 1613 cm <sup>-1</sup>	6.24 × 10 <sup>-18</sup>	2.53 × 10 <sup>-18</sup>
N <sub>2</sub> O <sub>4</sub> – 1741 cm <sup>-1</sup>	5.05 × 10 <sup>-18</sup>	–

Note:

- Errors on band strengths are of the order of 10 %.
- For the N<sub>2</sub>O<sub>4</sub> band at 1741 cm<sup>-1</sup> the A value has not been derived at 60 K because to measure the area of this band we should take into account the strong and not quantifiable contribution from the contiguous band at 1765 cm<sup>-1</sup>(see Fulvio et al. 2009 for a detailed discussion).