

$^{18}\text{O}_3$ Resonance Coupling Parameters of the (017) and (045) Interacting States

Natural isotopic abundance: 8.62×10^{-9} .

Reference	[2012Sta]
Method	Continuous Wave – Cavity Ring Down Spectroscopy.
Equations	Equation 26 in chapter “Introduction”.
Statistical errors	One standard deviation in units of the least significant full size digit.
Remarks	All values are given in cm^{-1} . Statistical errors are given in parentheses. The calculated parameters is purposely given with one supplementary digit, in index form, in order to reproduce the energy levels to experimental accuracy. Molecular constants determined in the same fit are given in chapter “ $^{18}\text{O}_3$ Vibrational Energy and Rotational and Centrifugal Distortion Constants of the (017) and (045) Interacting States. Band Centers for the $\nu_2 + 7\nu_3$, and $4\nu_2 + 5\nu_3$ Transitions.” The isotopic composition of the elements used for the calculation of the natural isotopic abundance is taken from [2007Coh].

Parameter	<017 H 045>
$A_{200} \times 10^3$	-0.354_6 (55)

Symbols and abbreviations

Short form	Full form
A_{200}	Resonance coupling parameter
SE	Statistical error

References

- [2007Coh] Cohen, E.R., Cvitaš, T., Frey, J.G., Holmström, B., Kuchitsu, K., Marquardt, R., Mills, I., Pavese, F., Quack, M., Stohner, J., Strauss, H.L., Takami, M., Thor, A.J.: Quantities, Units and Symbols in Physical Chemistry. The IUPAC Green Book, 3rd Ed., Cambridge: RSC Publishing, 2007.
- [2012Sta] Starikova, E., Barbe, A., De Backer-Barilly, M.R., Tyuterev, V.G., Mondelain, D., Kassi, S., and Campargue, A.: Analysis of the CRDS spectrum of $^{18}\text{O}_3$ between 6950 and 7125 cm^{-1} . *J. Quant. Spectrosc. Radiat. Transfer.* **113** (2012) 1741–1752.