Mean amplitudes of vibration of the recently described square-bipyramidal \([\text{ReFBr}_5]^{2-}\) anion have been calculated from vibrational spectroscopic data, over a wide temperature range. The results are briefly discussed in relation with its structural peculiarities and some comparisons with related species are made.

**Key words:** Monfluoropentabromorhenate (IV); Mean Amplitudes of Vibration; Bond properties.