High Resolution FTIR Spectroscopy of 1,3,5-Triazine *: The Parallel Bands ν_{11} and ν_{12} of $^{12}C_3{}^{14}N_3H_3$, $^{13}C_3{}^{14}N_3H_3$, $^{12}C_3{}^{15}N_3H_3$, $^{13}C_3{}^{15}N_3H_3$ and $^{12}C_3{}^{14}N_3D_3$

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The present contribution reports on the analysis of the high resolution FTIR spectra of the only two IR-active parallel fundamentals ν_{11} and ν_{12} of the isotopomers $^{12}C_3{}^{14}N_3H_3$, $^{13}C_3{}^{14}N_3H_3$, $^{12}C_3{}^{15}N_3H_3$, $^{13}C_3{}^{15}N_3H_3$ and $^{12}C_3{}^{14}N_3D_3$, respectively, of 1,3,5-triazine. The molecular constants of the ground state and the upper states $\nu_{11}=1$ and $\nu_{12}=1$, respectively, for all molecules under consideration are listed. The enhancement of the P- and the depletion of the R-banches, observed in the ν_{11} bands of all non-deuterated isotopomers, is discussed, and the Herman-Wallis constants obtained are given.

Key words: High Resolution FTIR Spectroscopy, 1,3,5-Triazine, Parallel Band, Herman-Wallis Constants.

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