

THE STRUCTURE OF PHENYLGLYCINOL

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The most abundant conformer of the amino alcohol D-phenylglycinol has been observed in gas phase using broadband chirped pulse Fourier transform microwave spectroscopy (CP-FTMW) and laser ablation molecular beam Fourier transform microwave spectroscopy (LA-MB-FTMW). The rotational spectra corresponding to seven monosubstituted ^{13}C , one monosubstituted ^{15}N and one monosubstituted ^{18}O species have been observed in their natural abundance, and the r_s structure has been derived. The observed conformer is stabilized by O-H \cdots N, N-H \cdots π intramolecular hydrogen bond network.