

P5487: MILLIMETER-WAVE SPECTRA OF 5-METHYL HYDANTOIN IN ITS VIBRATIONALLY EXCITED STATES

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- Detection of amino acid, especially chiral amino acid is of interest.
- 5-methyl hydantoin(MH) is a potential precursor of alanine, simplest amino acid.
- We have studied 5-MH by millimeter-wave spectroscopy to provide frequency catalogue for astronomical detection.
- Pure rotational spectra of 5-MH in the ground and 4 vibrational excited states have been assigned.
- Frequency catalogues are now ready for astronomical search in the ground vibrational state and vibrationally excited states.

