

## MICROWAVE SPECTRUM OF 1-HEXYNE (BUTYL ACETYLENE)

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The microwave spectrum of a conformer of 1-hexyne has been assigned. Preliminary rotational constants are  $B = 1326.660(1)$  MHz and  $C = 1254.719(1)$  MHz. Since Ray's asymmetry parameter is approximately -0.99 and only a-type transitions have been assigned,  $A$  remains undetermined. These rotational constants are consistent with an all anti heavy-atom planar conformation. Many unassigned transitions remain. We expect to assign b-type transitions for the conformer above as well as transitions from conformations with either the terminal acetylene or the methyl group in a gauche configuration.