



Resting rotor – succinimide protected 8-amino quinoline in CD_2Cl_2

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Field strength: 500 MHz

Why is this your favorite spectrum?

The resting state of this molecular rotor can be determined by 1H -NMR and ^{13}C -NMR based on the shift and splitting of the succinimide protons. Here we see that the molecule is not actually planar but that the succinimide is in a plane orthogonal to the quinoline plane.

Comments: The reaction to make this compound was near quantitative, using melted succinic anhydride as solvent at 150 degrees Celsius.