

Carbon-13 NMR lanthanide induced shifts and T1 studies of the conformation of friedelin.

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Abstract

By measuring the shifts of the ^{13}C NMR signals of 29 C's of friedelin, induced by the lanthanide shift reagent $\text{Pr}(\text{fod})_3$, and using a computer program, it is shown that friedelin exists in a chair-chair-twist boat-boat conformation in soln. Lanthanide metal binds exclusively to one site on the carbonyl group of friedelin, away from the nearest Me group. ^{13}C T1 data are consistent with the suggested conformation of friedelin.