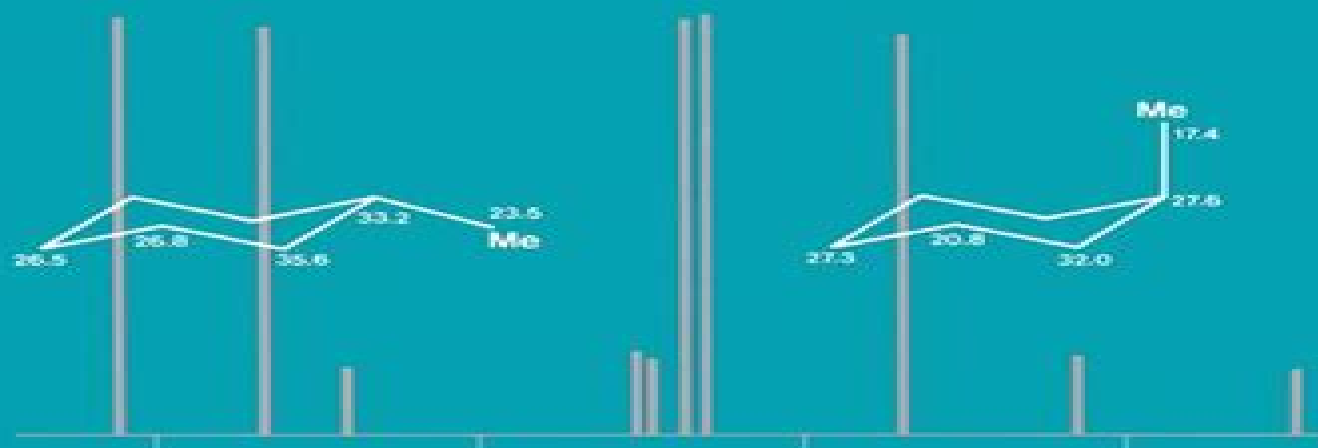


Stereochemical Analysis of Alicyclic Compounds by C-13 NMR Spectroscopy

James K. Whitesell and
Mark A. Minton



Stereochemical Analysis Of Alicyclic Compounds By C 13 Nmr Spectroscopy

Kalevi Pihlaja, Erich Kleinpeter



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Through numerous conversations with other synthetic chemists it became apparent that the great power of carbon nuclear magnetic resonance was being significantly underutilized In our own work we have found that ¹³C spectroscopy is a more powerful tool than ¹H NMR spectroscopy especially for probing subtle stereochemical questions in complicated systems This is especially true in five membered ring compounds where ¹H NMR is at a particular disadvantage The two techniques can be used independently to solve the same question that of stereochemistry but they do so in different ways Advantage can be taken in ¹H NMR of a relatively consistent relationship between stereochemical orientation and coupling constants between vicinal protons while in ¹³C NMR it is the correlation between spatial relationships of non hydrogen y substituents and their effect on chemical shift that can be used to assign stereochemistry It was also clear that the use of ¹³C NMR required a different approach to problem solving than that typically used with ¹H NMR While the latter technique could be employed with a very general approach e g the Karplus equation ¹³C NMR would at least for the immediate future require a relatively extensive set of model systems from which the consequences of stereochemical changes could be derived for any given carbon framework

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