

NMR spectra of the $[AX_2]_2$ and $[A[X]_2]_2$ types: the X transitions when $|J_{AX}|$ is large, as in the case of tetrafluorodiazadiphosphetidines. Harris, Robin K.; Wazeer, Mohamed I. M. Sch. Chem. Sci., Univ. East Anglia, Norwich, UK. Berichte der Bunsen-Gesellschaft (1979), 83(7), 697-702.

Abstract

Explicit expressions for X transition frequencies in NMR spectra of $[A[X]_2]_2$ spin systems are derived for the case where one of the (A,X) coupling consts. is much larger in magnitude than any of the other couplings, as is commonly encountered for mols. contg. PF₂ groups. The spectra to be expected are compared with those for the corresponding magnetic equivalence $[AX_2]_2$ case. Emphasis is placed on the detn. of relative signs of coupling consts., and examples of spectra for fluorinated diazadiphosphetidines are discussed.