Preparation and NMR study of phosphorus-fluorine compounds undergoing intramolecular exchange. Part 3. Substituted fluorodiazadiphosphetidines. Harris, Robin K.; Wazeer, Mohamed I. M.; Schlak, Ottfried; Schmutzler, Reinhard. Sch. Chem. Sci., Univ. East Anglia, Norwich, UK. Phosphorus and Sulfur and the Related Elements (1981), 11(2), 221-39.

Abstract

Proton, 19F and 31P NMR studies of tetra-, tri-, and difluorodiazadiphosphetidines, e.g., I and II, have yielded information about the barriers to pseudorotation at the P atoms. The data are discussed in terms of the feasible exchange mechanisms. The PFR2 group is substantially more rigid than the PF2R group (R = alkyl in each case).

