

Preparative and nuclear magnetic resonance studies of diazadiphosphetidines. VIII. 2,2,2,4-tetrafluoro-1,3-dimethyl-4-o-phenylenedioxy-1,3-diazadiphosphetidine. Harris, Robin K.; Wazeer, Mohamed I. M.; Schlak, Ottfried; Schmutzler, Reinhard. Sch. Chem. Sci., Univ. East Anglia, Norwich, UK. Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1976), (4), 306-9.

Abstract

Proton-decoupled ^{19}F and ^{31}P NMR spectra were analyzed for 2,2,2,4-tetrafluoro-1,3-dimethyl-4-o-phenylenedioxy-1,3-diazadiphosphetidine (I). The single F attached to the chelated P is equatorial rather than axial. I was prepd. by the reaction of catechol in the presence of LiBu with 2,2,2,4,4,4-hexafluoro-1,3-dimethyl-1,3-diazadiphosphetidine. I was further characterized by its mass spectrum.

