

Structure and intramolecular mobility of N-(thio)phosphoryl(thio)amides: IX1. Structure of N-(diisopropoxyphosphoryl)methylthioamide in solutions by ^1H , ^{13}C , and ^{31}P NMR spectroscopy

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Abstract

The structure of N-(diisopropoxyphosphoryl)methylthioamide in CCl_4 , CD_3CN , CD_2Cl_2 , $\text{C}_6\text{D}_5\text{CD}_3$, and $(\text{CD}_3)_2\text{SO}$ solutions was studied by ^1H , ^{13}C , and ^{31}P NMR spectroscopy. A tautomeric equilibrium that includes the amide (with trans and cis arrangement of the substituents), thioimide, acylotropic, and phosphorylotropic forms is found.
