

Russian Journal of General Chemistry 2000 vol.70 N8, pages 1222-1226

Structure and intramolecular mobility of N-(thio)phosphoryl(thio)carbonylamides: X.1 ^1H , ^{13}C , and ^{31}P NMR study of the structure of N,N'-bis(thio)phosphoryl(thio)urea containing open-chain fragment

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Abstract

N,N'-Bis(W-diisopropoxythiophosphorylaminothiocarbonyl)-1,7-diaminoheptane in 3-10% solutions in acetone- d_6 exhibits high molecular mobility with realization of two conformations of its molecule, amide-amide proton exchange, and various tautomeric forms.
