

Conformational Analysis of 2-Chloro- N-[- -((Diphenylphosphoryl)Methyl)Phenyl]-Acetamide and 2- Chloro-N-- 2-((Diphenylthiophosphoryl)Methyl)Phenyl]Acetamide

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Abstract

Copyright © 2015 Taylor & Francis Group, LLC. The polarities of 2-chloro-N-(2-((diphenylphosphoryl)methyl)phenyl)acetamide and 2-chloro-N-(2-((diphenylthiophosphoryl)methyl)phenyl)acetamide were determined, and conformational analysis of these was carried out by the method of dipole moments and quantum chemical calculations. The formation of intramolecular hydrogen bond P=O...HN or P=S...HN in these acetamides is possible.

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Keywords

conformational analysis, dipole moments, Phosphorus containing acetamides, quantum chemical calculations