

Polarity and structure of eight-membered organosilicon compounds with planar fragments

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Abstract

For the first time is determined the polarity of eight-membered silocycns with planar fragments. By the methods of dipole moments and theoretical calculations (DFT B3LYP/6-31G*) of 1,3,2-dioxasilocycns is established that in these compounds occurs the conformational equilibrium of the forms bath-chair and distorted bath with the predominance of the first, in this case the bonds C(sp³)-S and C(sp³)-H of the exocyclic MeSCH₂ group are in the not eclipsed gauche orientation relative to each other. © 2009 Pleiades Publishing, Ltd.

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