

## Dipole moments, structure, and transannular interactions in silatranes containing planar fragments

Ishmaeva E., Timosheva A., Gazizova A., Chachkov D., Vereshchagina Y., Kataev V., Timosheva N.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

### Abstract

The method of dipole moments and theoretical calculations (DFT B3LYP/6-31G\*) were used for structural assessment of silatranes  $N[CH_2(RMeC_6H_2)O]_3SiR_1$  containing planar fragments in the six-membered semirings. They are endo structures with transannular  $N \rightarrow Si$  interaction which involves, along with nitrogen and silicon, oxygen atoms adjacent to silicon. © 2008 MAIK Nauka.

<http://dx.doi.org/10.1134/S1070363208070116>

---