Thematic Section: Preparative Chemistry			Chemistry.								Full Paper				
			•	_					_				'		

Subsection: Organic Chemistry.

Registration Code of Publication: 11-25-6-77

Publication is available for discussion in the Internet as a material of "All-Russian Working Chemical Conference "Butlerov's Heritage-2011". http://butlerov.com/bh-2011/ Contributed to editorial board: April 20, 2011.

## Synthesis of derivatives of closo-dekaborate anion with macrocyclic substituents of oxonium type

© Evgeniy Yu. Matveev, $^{1,2+}$  Alexey S. Kubasov, $^1$  Galina A. Razgonyaeva, $^2$  Nataliya A. Votinova, $^{1,2}$  Konstantin Yu. Zhizhin, $^{1,2}$ \* and Nikolay T. Kuznetsov $^{1,2}$ 

<sup>1</sup> Moscow State Academy of Fine Chemical Technology Named after M.V. Lomonosov. Vernadskii pr., 86. Moscow, 119571. Russia. E-mail: cat1983@yandex.ru <sup>2</sup> Kurnakov Institute of General and Inorganic Chemistry. Leninskii pr., 31. Moscow, 119991. Russia. Phone: +7 (495) 955-48-41. E-mail: zhizhin@igic.ras.ru

\*Supervising author; \*Corresponding author

**Keywords:** boranes, closo-dekaborate anion, crown ethers, electrophilic-induced nucleophilic substitution.

## Abstract

This work is devoted to the interaction of the anion  $[B_{10}H_{11}]^T$  with macrocyclic compounds (15-crown-5,18-crown-6). It is shown that as a result of these reactions is the formation of monosubstituted derivatives of exo-polyhedral substituents oxonium type. The structure of the product is installed according to IR, <sup>11</sup>B, <sup>13</sup>C and <sup>1</sup>H NMR spectroscopy.