Full Paper _____ *Thematic Section:* Preparative Research.
Reference Object Identifier – ROI: jbc-02/15-42-4-100 *Subsection:* Organic Chemistry.
The article is published as a material of correspondence participation in International Scientific Forum "Butlerov Heritage-2015". http://foundation.butlerov.com/bh-2015/ *(English Preprint)*
Submitted on March 30, 2015.

Interaction of 1-germatranol hydrate with *D*-tartaric acid in water medium

© **Victor Petrovich Baryshok**,[1+]* and **Nhat Thuy Giang Le**[2]
[1] *Cathedra of Chemical Technology. Irkutsk State Technical University. Lermontova St., 83. Irkutsk, 664074. Russia. Phone: +7 (3952) 40-55-13. E-mail: baryvik@yandex.ru*
[2] *Baria-Vung Tau University, Vung-Tau, Vietnam. 80 Trương Công Đinh, Phường 3, TP. Vũng Tàu*

*Supervising author; [+]Corresponding author

Keywords*:* 1-Germatranol hydrate, *D*-tartaric acid, triethanolamine, bis(μ-tartrato)di-(hydroxo)germanate(IV) triethanolammonium, bis(μ-tartrato)di(hydroxo)germanate(IV) pyridinium.

Abstract

When interacting hydrate 1-germatranol, $N(CH_2CH_2O)_3GeOH \cdot H_2O$, with D-tartaric acid in an aqueous medium germatrane cycle collapses and forms a bis(μ-tartrato)di(hydroxo)germanate(IV) triethanolammonium. The reaction of bis(μ-tartrato)di(hydroxo)digermanium acid with triethanolamine leads to the same binuclear complex of pentacoordinated Ge atom. Pyridine ligands in bis(μ-tartrato)di(hydroxo)germanate(IV) can be easily substituted triethanolamine, also forming bis(μ-tartrato)di(hydroxo)germanate(IV) triethanolammonium.