	\sim	• .
Short (Commii	nication

Reference Object Identifier – ROI: jbc-02/15-42-6-112

Thematic Section: Physico-Chemical Research.

Subsection: Phase Equilibrium.

The article is published on materials of the report on "International Scientific Forum Butlerov Heritage – 2015". http://foundation.butlerov.com/bh-2015/ (English Preprint)

Submitted on March 15, 2015.

Study of the stable tetrahedron LiBr-LiVO₃-NaBr-KBr of the quaternary reciprocal system Li,Na,K||Br,VO₃

 ${\Bbb C}$ Nurlana A. Mamedova, Inna N. Samsonova $^+$, Tatyana V. Gubanova * and Ivan K. Garkushin

Department of General and Inorganic Chemistry. Samara State Technical University. Molodogvardeiskaya St., 244.Samara, 443100. Russia. Phone: +7 (927) 759-72-95. E-mail: inna7774@yandex.ru

Keywords: phase equilibria, T-x diagram, differential thermal analysis (DTA), stable tetrahedron eutectics.

Abstract

By differential thermal analysis there have been studied phase equilibria in stable tetrahedron LiBr-LiVO₃-NaBr-KBr of quaternary reciprocal system Li,Na,K||Br,VO₃. The composition of the components of the eutectic alloy (%mol.): 54.88% LiBr, 2.0% LiVO₃, 7.35% NaBr, 35.77% KBr with the melting point 324 °C has been defined. We described the invariant and univariant equilibria.