

Phase complex of stable tetrahedron $\text{LiF-RbI-Rb}_2\text{CrO}_4\text{-Li}_2\text{CrO}_4$ of quaternary reciprocal system Li,Rb||F,I,CrO_4

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Abstract

Experimentally researched quasi-quaternary system $\text{LiF-RbI-Rb}_2\text{CrO}_4\text{-Li}_2\text{CrO}_4$ is a united stable tetrahedron of quaternary reciprocal system Li,Rb||F,I,CrO_4 . Two quaternary eutectics are formed in the system, compound LiRbCrO_4 (D 604) doesn't change the congruent type of melting. Liquid compound stratification is realized in two concentrated fields of limited solubility of liquid phases abutting to the sides $\text{Li}_2\text{CrO}_4\text{-RbI}$ and LiF-RbI of tetrahedron in the system. On the basis of experimental data, 3D computer model of phase complex has been constructed in the form of concentrated tetrahedron.