

Experimental study and modeling of phase transformations in a stable triangle NaF-KF-CsBr of quaternary reciprocal system Na,K,Cs||F,Br

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Abstract

Quaternary reciprocal system Na,K,Cs||F,Br consists of three stable separated by two tetrahedrons triangles. The paper presents a system partition on the stable elements and described the chemical interaction of components in the form of mass balance for each stable element. We did the analysis of the elements of faceting of Na,K,Cs||F,Br. Quasi-ternary system NaF-KF-CsBr is studied experimentally by differential thermal analysis and we identified characterizations of the nonvariant point. T-x-y phase diagram 3D model build for the system.