

## Research of the associated stable tetrahedral LiF-Li<sub>2</sub>CrO<sub>4</sub>-KBr-K<sub>2</sub>CrO<sub>4</sub> of quaternary reciprocal system Li,K||F,Br,CrO<sub>4</sub>

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### Abstract

Phase equilibria in the associated tetrahedral LiF-Li<sub>2</sub>CrO<sub>4</sub>-KBr-K<sub>2</sub>CrO<sub>4</sub> of quaternary reciprocal system Li,K||F,Br,CrO<sub>4</sub> have been studied by the differential thermal analysis. The compositions of two quaternary eutectic (equiv. %) have been determined: 3% LiF, 42.7% Li<sub>2</sub>CrO<sub>4</sub>, 9.7% KBr, 44.6% K<sub>2</sub>CrO<sub>4</sub> with melting point 455 °C and 1% LiF, 77.1% Li<sub>2</sub>CrO<sub>4</sub>, 7% KBr, 14.9% K<sub>2</sub>CrO<sub>4</sub> with melting point 350 °C.