

# Phase Densities of Molten Binary Mixtures of Alkali Halogenides with Limited Mutual Solubility

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The densities of binary mixtures of LiF with CsCl, KBr, RbBr, CsBr, KI, RbI and CsI have been investigated at 1093 – 1253 K. For the system LiF with KBr the dependence of the density on the temperature was measured up to the critical point, where the system became single-phased, and the critical behaviour was evaluated. The critical exponent of the order parameter, which was found from the density measurements, is close to 0.5.

*Key words:* Immiscibility Demixing; Ionic Melts; Density; Critical Behaviour.