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Computing the characteristics of eutectic structure of LiI–FrI system on the basis of analytical description of low-melting structures of the series LiI–MI (M = Na, K, Rb, Cs)

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Abstract

On the basis of the analytical description of temperature change and structures of the minimum and eutectics of the series LiI–MI (M = Na, K, Rb, Cs) from the atomic numbers of alkali elements (M), their ionic radii, melting temperatures of MI we computed the characteristics of low-melting eutectic in LiI–FrI system. Leveling (alignment) of melting temperature eutectic among LiI–MI and contents of iodides in them have been shown.