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(Mixed) Alkali Metal Thallides A:Tl 1:2 (A=K-Cs)

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For alkali metal thallides in the ratio A:Tl 1:2 two main type structures ($A_{15}Tl_{27}$ (A= Rb, Cs) and $K_{49}Tl_{108}$) are known in literature. The single crystal X-Ray analyses of $Cs_{2.27}K_{12.73}Tl_{27}$ and $Rb_{49}Tl_{110}$ clearly prove, that the type structures are not limited to a particular alkali metal. Apparently, the occupation of certain sites and slight changes in the thallium content account for the observation of the respective structure type.

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