

Raman study of phase transitions in $(n\text{-C}_4\text{H}_9\text{NH}_3)_2\text{BiCl}_5$.Autorzy

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The Raman spectra of $(n\text{-C}_4\text{H}_9\text{NH}_3)_2\text{BiCl}_5$ were recorded and analysed from 4 K to 390 K. The phase transition ($\alpha \rightarrow \beta$) at 370 K to the metastable form is manifested by changes in the low-frequency Raman spectra, indicating the changes in the anionic structure of the crystal. The phase transition at 215 K is clearly manifested by the temperature evolution of the internal modes of the butylammonium cation. The phase transition is likely to be due to a reorientational motion of the cation.

Słowa kluczowe

Raman spectroscopy, Phase transitions, Hydrogen bonding,
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