

Infrared studies on structural phase transitions in $[\text{NH}_2(\text{CH}_3)_2]_3\text{Sb}_2\text{Br}_9$ and $[\text{NH}_2(\text{CH}_3)_2]_3\text{Sb}_2\text{I}_9$.

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Infrared spectra of $[\text{NH}_2(\text{CH}_3)_2]_3\text{Sb}_2\text{Br}_9$ and $[\text{NH}_2(\text{CH}_3)_2]_3\text{Sb}_2\text{I}_9$ have been investigated in detail during their phase transitions. The studies show that the vibrational state of dimethylammonium cations change markedly through the transitions. The results obtained for $[\text{NH}_2(\text{CH}_3)_2]_3\text{Sb}_2\text{Br}_9$ in the ferroelectric phase are explained in terms of the pseudo-spin—phonon coupling.

Adres publiczny

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