

Ferroelastic phase transitions in triethylammonium and piperidinium chloroantimonate(V).

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Streszczenie

Preliminary x-ray diffraction, IR, Raman and dielectric studies of $(C_5H_{10}NH_2)SbCl_6$ and $[(C_2H_5)_3NH]SbCl_6$ are reported. The former crystal undergoes three phase transitions: at 294, 310 and 369 K, whereas latter crystal one transition at 336 K. Both salts reveal ferroelastic domain structure at room temperature. Dynamic of the organic cations is suggested to contribute to ferroelastic-paraelastic phase transitions at 369 K (piperidinium salt) and 336 K (triethylammonium one).

Słowa kluczowe

phase transition, Ferroelastic, IR, Raman

Adres publiczny

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