

Calorimetric study of the phase transitions in tris(dimethylammonium)nonabromodiantimonate(III) and tris(dimethylammonium)nonachlorodiantimonate(III).

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Streszczenie

Temperature dependences of the specific heat of $(\text{NH}_2(\text{CH}_3)_2)_3\text{Sb}_2\text{Cl}_9$ (DMACA) and $(\text{NH}_2(\text{CH}_3)_2)_3\text{Sb}_2\text{Br}_9$ (DMABA) were investigated by differential scanning calorimetry around their ferroelectric phase transitions at 242 K and 164 K, respectively. From the anomalous parts of specific heats we calculated entropy changes associated with these transitions. Transition in DMACA is an order-disorder one connected with ferroelectric type ordering of dimethylammonium cations while the transition in DMABA is also of order-disorder type but of a complex mechanism.

Adres publiczny

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