



Morpholinium chloroindate(III) complex: a rare acentric structural arrangement leading to piezoelectric properties.

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Among materials with six-membered aliphatic rings coordinated to a metal center, the $[\text{C}_4\text{H}_{10}\text{NO}]^+[\text{InCl}_5(\text{C}_4\text{H}_{10}\text{NO})]^-$ morpholinium complex is a rare example of a system characterized by a polar crystal structure. The noncentrosymmetry results from the unidirectional alignment of the z components of the dipole moments of both anionic and cationic units. The anomalies observed on the electric permittivity curves are characteristic of acentric materials and confirm that the crystals possess piezoelectric properties. A discussion regarding the potential ferroelectric properties of the compound is provided.

Adres publiczny

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Strona internetowa wydawcy

<https://www.rsc.org/>