

Anisotropy of the dielectric properties in diglycine nitrate

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1990

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Keywords: diglycine nitrate; anisotropy.

Abstract: The anisotropy of the dielectric permittivity and spontaneous polarization for pure and α -alanine doped diglycine nitrate has been studied. The actual polar direction is considered to be the normal direction to the 60°X-cut. The deviation of the spontaneous polarization vector in the mirror plane m for the ferroelectric phase has not been observed. The mechanism of partial substitution of alanine for glycine in this crystal is shown to be the same as in triglycine sulfate.

Publication source: Anisotropy of the dielectric properties in diglycine nitrate / N. I. Khasinevich [et al.] // Ferroelectrics. – 1990. – Volume 103, Issue 1. – P. 1–9. – DOI: <https://doi.org/10.1080/00150199008211366>.