Abstracts

Dielectric Constant of Atlas at 9363 MHz (Correspondence)

R. Das. "Dielectric Constant of Atlas at 9363 MHz (Correspondence)." 1967 Transactions on Microwave Theory and Techniques 15.1 (Jan. 1967 [T-MTT]): 61-62.

Monoarseniate double d'ammonium de thallium (Atlas), (NH/sub 4)/sub 4/T1/sub 3/(H/sub 2/AsO/sub 4/)/sub 7/, has been reported to be ferroelectric. The complex dielectric constant of Atlas has been measured by LeDonche. These measurements made at 50 Hz displayed ferroelectric hysteresis loops in the temperature range between 150°K and 110°K with maximum dielectric constant occurring at 150°K. At room temperature Atlas is hexagonal. The present correspondence reports measurements of the temperature dependence of the dielectric constant at 9363 MHz at right angles to the "c" axis of the crystal, i.e., along the length of the crystal.

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