

On the dynamic dielectric behaviour of $(\text{CH}_3\text{NH}_3)_3\text{Sb}_2\text{Br}_9$ (MABA).

Autorzy

Czesław Pawlaczyk

Ryszard Jakubas

Rok wydania

2003

Czasopismo

Zeitschrift für Naturforschung
Section A: A Journal of
Physical Sciences

Numer woluminu

58a

Strony

189-193

DOI

10.1515/zna-2003-0401

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

The complex electric permittivity of ferroelectric $(\text{CH}_3\text{NH}_3)_3\text{Sb}_2\text{Br}_9$ (MABA) single crystals has been measured in the frequency range 1 kHz - 3 GHz between 15 and 300 K. The dynamic dielectric behaviour of MABA is determined by the properties of high frequency relaxation of Cole-Cole type. It is thermally activated and characterised by a relatively small activation energy. The phase transitions at 168 and 134 K influence the amplitude of the relaxation ($\Delta\epsilon$) without any important changes in the relaxation frequency.

Słowa kluczowe

Dielectric Response, Phase Transitions, Ferroelectrics

Adres publiczny

<https://doi.org/10.1515/zna-2003-0401>