



Two relaxators dielectric behaviour of ammonium hydrogen bis-chloroacetate near the ferroelectric phase transition.

Autorzy

Czesław Pawlaczyk

Ryszard Jakubas

Rok wydania

2000

Czasopismo

Solid State Communications

Numer woluminu

113

Strony

251-255

DOI

10.1016/S0038-
1098(99)00490-1

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Dielectric response of the ammonium hydrogen bis-chloroacetate, $\text{NH}_4\text{H}(\text{ClCH}_2\text{COO})_2$ (AHCA), in the frequency range from 100 Hz to 10 GHz has been studied. In the temperature range close to the phase transition a two-relaxator dielectric behaviour was found. The high frequency (~ 1 GHz) relaxator has properties of ferroelectric relaxational soft mode. The low frequency (~ 10 – 100 MHz) relaxator displays properties common to the domain dielectric contribution known for some other ferroelectrics. The coexistence of the two dielectric relaxators in the vicinity of the phase transition is discussed using a conception of the free and pinned order clusters.

Słowa kluczowe

Ferroelectrics, Dielectric response, Phase transitions

Adres publiczny

[https://doi.org/10.1016/S0038-1098\(99\)00490-1](https://doi.org/10.1016/S0038-1098(99)00490-1)

Strona internetowa wydawcy

<http://www.elsevier.com>