

Specific Heat and Nuclear Quadrupole Resonance Study of Thiourea-Hexachloroethane Inclusion Compound

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Specific heat and ³⁵Cl nuclear quadrupole resonance (NQR) measurements of the channel thiourea-hexachloroethane inclusion compound are presented. Experimental NQR data confirm the results of atom-atom potential calculations that the guest sublattice comprises two types of nearly commensurate finite molecular chains, having different structure and separated by domain walls. Specific heat measurements show phase transition near 96 K.

Key words: NQR; Specific Heat; Inclusion Compound; Thiourea; Hexachloroethane.