

ISOBARIC HEAT CONDUCTIVITY
OF ORIENTATIONALLY ORDERED
MOLECULAR CRYSTALS

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S u m m a r y

By the example of solid CHCl_3 , CH_2Cl_2 , and CO_2 , we analyze the high-temperature isobaric heat conductivity of orientationally ordered molecular crystals. The isobaric heat conductivity is described in the frame of the Debye approximation with regard for the effects of heat expansion and the limitation on the free path length of phonons. It is established that the temperature dependence of the isobaric heat conductivity of orientationally ordered molecular crystals is determined, at $T \geq \Theta_D$, by U -processes, the heat expansion of specimens under study, and the approach to the minimum value of heat conductivity.