

ISOBARIC THERMAL CONDUCTIVITY
OF CRYSTALLINE ETHANE (C₂H₆)

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S u m m a r y

The isobaric thermal conductivity of solid C₂H₆ is measured in the temperature interval from 80 K to the melting point. The conductivity is found to decrease with the temperature growth, and its reduction at the $\beta \rightarrow \gamma$ phase transition is found to be 0.08 W/(m·K). The influence of the methyl-group (CH₃) rotation on the heat conductivity is studied in the framework of the modified method of reduced coordinates, by separating the translation and translation-rotation contributions to the total thermal resistance.