

substance: PtSb₂

property: thermal conductivity

(see Fig. 1)

κ	1.13 W K ⁻¹ cm ⁻¹	$T = 77$ K	p-type single crystal with $p = 8 \cdot 10^{17}$ cm ⁻³	73A
	0.39 W K ⁻¹ cm ⁻¹	$T = 300$ K	same sample, intrinsic range	
	0.4 W K ⁻¹ cm ⁻¹	$T = 300$ K	single crystal with $1 \dots 5 \cdot 10^{17}$ cm ⁻³ electrically active impurities (current carrier contribution is 25% at RT)	82K
	4 W K ⁻¹ cm ⁻¹	$T = 30$ K	maximum of $\kappa(T)$	

References:

- 73A Abdullaev, A. A., Angelova, L. A., Kuznetsov, V. K., Ormont, A. B., Pashintsev, Yu. I.: Phys. Status Solidi (a) 18 (1973) 459.
- 82K Kundrotas, J., Dargys, A.: Litov. Fiz. Sb. 22 (1982) 74.

Fig. 1.

PtSb₂. Thermal conductivity vs. temperature (a) and electrical resistivity vs. temperature (b), both in doubly-logarithmic scale, measured on single crystals of unknown orientation. The resistivity curves serve to characterize the different samples [82K].

