

substance: Sm_2Se_3

property: crystal structure, physical properties

crystal structure cubic (Th_3P_4 -defect structure, $T_d^6 - \bar{1}4\bar{3}d$)

lattice parameters, thermal expansion

a 8.785 Å coordination polyhedra: Fig. 1 65F

α $14.4 \cdot 10^{-6} \text{ K}^{-1}$ 66D

Debye temperature

Θ_D 350 K 66D

resistivity

ρ $7 \cdot 10^7 \Omega \text{ cm}$ 65L

References:

- 65F Flahaut, J., Guittard, M., Patrie, M., Pardo, M. P., Golabi, S. M., Domange, L.: Acta. Cryst. 19 (1965) 14.
- 65L Lashkarev, G. V., Paderno, Yu. B.: Izv. Akad. Nauk SSSR, Neorg. Mater. 1 (1965) 1791.
- 66D Dudnik, E. M., Lashkarev, G. V., Paderno, Y. B., Obolonchik, V. A.: Inorg. Mater. 2 (1966) 833.
- 66H Holtzberg, F., Methfessel, S.: J. Appl. Phys. 37 (1966) 1433.

Fig. 1.

Th₃P₄-type compounds. The coordination polyhedra of the cations and the anions. Full circles: Th- atoms, other circles: P-atoms [66H].

