

substance: Nd₂Se₃

property: crystal structure, physical properties

crystal structure cubic (Th₃P₄-defect structure, T_d⁶ – I $\bar{4}$ 3d)

lattice parameters, thermal expansion

a 8.859 Å 65F

α 13.1·10⁻⁶ K⁻¹ 66D

Debye temperature

Θ_D 232 K 66D

coordination polyhedra: Fig. 2

heat capacity: Fig. 1

References:

- 65F Flahaut, J., Guittard, M., Patrie, M., Pardo, M. P., Golabi, S. M., Domange, L.: Acta. Cryst. 19 (1965) 14.
- 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.
- 72S Smirnov, I. A.: Phys. Status Solidi (a) 14 (1972) 363.

Fig. 1.

γ -Nd₂S₃, Nd₂Se₃, Nd₂Te₃. Molar heat capacity vs. temperature [72S].

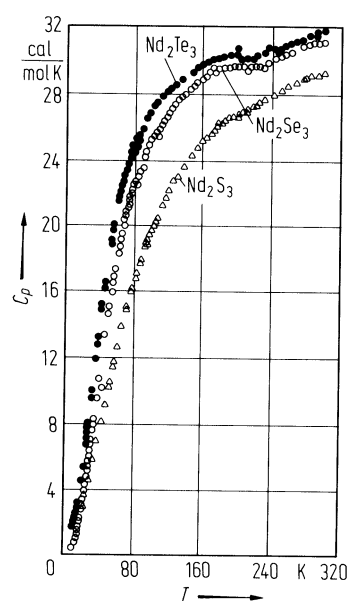


Fig. 2.

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

