substance: Sm_3Se_4
property: crystal structure, physical properties

crystal structure	cubic (Th_3P_4-type, T_d^6 — $I\bar{4}3d$)	
lattice parameters		
a	8.785 Å	59B
	8.892 Å	79C

heat capacity: Fig. 1

References:

59B Benacerrat, S., Guittard, M.: C. R. Acad. Sci. Paris 248 (1959) 2012.
79C Coey, J. M. D., Cornut, B., Holtzberg, F., von Molnar, S.: J. Appl. Phys. 50 (1979) 1923.

Fig. 1.

γ-Sm_2S_3, Sm_3S_4, Sm_3Se_4. Temperature dependence of molar heat capacity. The increase below 7 K is explained by a Schottky anomaly due to the crystal field splitting (Δ_{cf} = 2.4 K) of Sm^{3+} [79C].