

substance: FeSe₂
property: crystal structure, physical properties

(The references in the last column refer to all data of this document)

lattice parameters

<i>a</i>	4.789 Å	structure: marcasite, C18, D _{2h} ¹² – Pnnm	58F,
<i>b</i>	5.768 Å		61D,
	3.575 Å		71L

resistivity, Seebeck coefficient, energy gap

ρ	1.0 Ω cm	p-type, poly-crystalline sample	n-type for <i>T</i> > 300 K
<i>S</i>	62 μV K ⁻¹		
<i>E_{g,th}</i>	0.3(1) eV		

Figures to this document:

resistivity: Fig. 1

References:

- 58F Fischer, G.: Can. J. Phys. 36 (1958) 1435.
- 61D Dudkin, L. D., Vaidanich, V. I.: Sov. Phys. Solid State 2 (1961) 1384.
- 71L Landolt-Börnstein (New Series), ed.: K. H. Hellwege, Vol. III/6, Springer Verlag: Berlin, Heidelberg, New York 1971.

Fig. 1.

FeSe_2 . Electrical resistivity vs. reciprocal temperature for three polycrystalline samples. Sample A and B are stoichiometric, sample C is iron-rich and rather porous [58F].

