

substance: Cr₃Se₄
property: crystal structure, physical properties

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

lattice parameters

<i>a</i>	6.299 Å	structure: monoclinic, C _{2h} ³ – I2/m, antiferromagnetic with <i>T</i> _N = 82 K and <i>p</i> _{eff} = 4.49 μ _B	71L,
<i>b</i>	3.607 Å		73B,
<i>c</i>	11.731 Å		73Y
<i>β</i>	91°52'		

resistivity

<i>ρ</i>	0.2 Ω cm	polycrystal
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energy gap

<i>E</i> _{g,th}	0.14 eV
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Figures to this document:

resistivity: Fig. 1

References:

- 71L Landolt-Börnstein (New Series), ed.: K. H. Hellwege, Vol. III/6, Springer Verlag: Berlin, Heidelberg, New York 1971.
- 73B Babot, D., Chevreton, M.: J. Solid State Chem. 8 (1973) 166.
- 73Y Yuzuri, M.: J. Phys. Soc. Jpn. 35 (1973) 1252.

Fig. 1.

Cr_3Se_4 . Electrical resistivity vs. reciprocal temperature for a polycrystal [73B], ρ in $\Omega \text{ cm}$.

