

substance: LaTe₃

property: crystal structure, physical properties

crystal structure orthorhombic (pseudotetragonal, D_{2h}¹⁷ – Bmmb)

lattice parameters

a	4.41 Å	65R
c	26.14 Å	

melting point

T_m	835°C	65R
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density

d	6.88 g cm ⁻³	65R
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Figures and further references:

Seebeck coefficient: Fig. 1

conductivity: Fig. 2 (p-type, $E_A = 0.56$ eV)

References:

65R Ramsey, T. H., Steinfink, H., Weiss, E. J.: J. Appl. Phys. 36 (1965) 548.

Fig. 1.

LaTe₃. Seebeck coefficient vs. temperature, polycrystalline sample [65R].

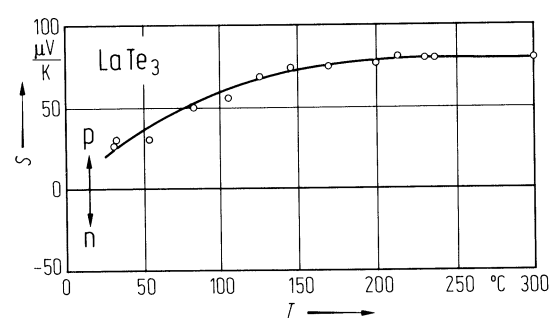


Fig. 2.

LaTe₃. Conductivity vs. reciprocal temperature for two polycrystalline specimens [65R].

