

substance: PdS₂

property: crystal structure, physical properties

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

lattice parameters

<i>a</i>	5.46 Å	structure: orthorhombic, D _{2h} ¹⁵ – Pbca	56G,
<i>b</i>	5.54 Å		57G,
<i>c</i>	7.53 Å		65H, 83H

density

<i>d</i>	4.7...4.8 g cm ⁻³
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resistivity, Seebeck coefficient, energy gap

<i>ρ</i>	100 Ω cm	n-type, poly-crystalline sample	diamagnetic
<i>S</i>	– 240 μV K ⁻¹		
<i>E_{g,th}</i>	0.7...0.8 eV		

References:

- 56G Gronvold, F., Rost, E.: Acta Chem. Scand. 10 (1956) 1620.
- 57G Gronvold, F., Rost, E.: Acta Crystallogr. 10 (1957) 329.
- 65H Hulliger, F.: J. Phys. Chem. Solids 26 (1965) 639.
- 83H Handbook of Chemistry and Physics, 64th ed. (ed.: R. C. Weast), CRC Press. Inc. 1983.