

**substance: PdPS**

**property: crystal structure and related properties**

**lattice parameters, density**

(RT values) (space group  $D_{2h}^{14}$  – Pbcn)

$a$ [Å]	$b$ [Å]	$c$ [Å]	$d_x$ [g cm <sup>-3</sup> ]	Ref
13.305	5.678	5.693		71B
13.305	5.6777	5.6932	5.23	74J

**interatomic distances**

(from [74J])

Pd – 2P	2.289 Å,	2.292 Å
2S	2.356 Å,	2.364 Å
1Pd	3.198 Å	
P – 2Pd	2.289 Å, 2.292 Å	
1P	2.206 Å	
1S	2.111 Å	
S – 2Pd	2.356 Å, 2.364 Å	
1P	2.111 Å	

For structure, chemical bond and comparative tables on crystallographic and physical properties of transition metal-V-VI compounds, see documents , , , .

**References:**

- 71B Bither, T. A., Donohue, P. C., Young, S.: J. Solid State Chem. 3 (1971) 300.  
74J Jeitschko, W.: Acta Crystallogr. B30 (1974) 2565.