

**substance: ReSe<sub>2</sub>**

**property: crystal structure, physical properties**

(S: structure (space group), CG: crystal growth (the numbers in parentheses correspond to  $T_1$  and  $T_2$ , the temperatures (in °C) of the hot and cold end of the crystal growth tube, respectively)).

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

**lattice parameters**

$a$	6.727 Å	S: triclinic, $C_1^1 - P\bar{1}$ CG: halogen transport (1080/1000)	65A,
$b$	6.606 Å		71W
$c$	6.72 Å		
$\alpha$	118.93°		
$\beta$	91.82°		
$\gamma$	104.93°		

**density**

$d$	9.219 g cm <sup>-3</sup>	calculated
	9.237 g cm <sup>-3</sup>	experimental

**energy gap**

$E_g$	1.15 eV	synthetic single crystal	optical gap
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**References:**

- 65A     Alcock, N. W., Kjekshus, A.: Acta Chem. Scand. 19 (1965) 79.  
71W     Wildervanck, J. C., Jellinek, F.: J. Less-Common Met 24 (1971) 73.