

**substance: V<sub>2</sub>O<sub>3</sub>**

**property: lattice parameters of Cr doped V<sub>2</sub>O<sub>3</sub>**

<i>a</i>	4.9540 Å	α-form with		
<i>c</i>	13.9906 Å	1 at % Cr, RT		74R
<i>c/a</i>	2.828			
<i>a</i>	4.9974 Å	β-form with		
<i>c</i>	13.9260 Å	1 at % Cr, RT		
<i>c/a</i>	2.787			
<i>a</i>	4.998 Å	3 at % Cr, RT	only one crystallographic form	74C
<i>c</i>	13.92 Å		reported	
<i>c/a</i>	2.785			
(1/ <i>a</i> )da/d <i>T</i>	1.0·10 <sup>-5</sup> K <sup>-1</sup>			
(1/ <i>c</i> )dc/d <i>T</i>	0.4·10 <sup>-5</sup> K <sup>-1</sup>			

crystallographic effects of Ti-substitution: Fig. 1.

**References:**

- 70M    McWhan, D. B., Remeika, J. P.: Phys. Rev. B2 (1970) 3734.  
74C    Chandrashekhar, G. V., Sinha, A. P. B.: Mater. Res. Bull. 9 (1974) 787.  
74R    Robinson, W. R.: Mater. Res. Bull. 9 (1974) 1091.

**Fig. 1.**

$V_2O_{3+x}$ . Comparison of the lattice parameters vs. composition  $x$  for  $V_2O_{3+x}$ ,  $(V_{1-x}Ti_x)_2O_3$  and vs. pressure for  $V_2O_3$  [70M].

