

**substance:**  $\text{V}_2\text{O}_3$

**property:** crystal structure, lattice parameters of pure material, low-temperature phase

At 170 K $\uparrow$  [80U, 70N], 155 K $\downarrow$  [70D, 80U, 70N] a transition from or to a low-temperature phase occurs.

**crystal structure:** monoclinic, space group  $\text{C}_{2h}^6 - \text{I}2/a$ ,  $Z = 4$  [81W].

**lattice parameters**

$a$	7.255 Å	$T = 148 \text{ K}$	Fig. 1	81W
$b$	5.002 Å			
$c$	5.548 Å			
$\beta$	96.75°			

## References:

- 70D     Dernier, P. D., Marezio, M.: Phys. Rev. B2 (1970) 3771.
- 70M     McWhan, D. B., Remeika, J. P.: Phys. Rev. B2 (1970) 3734.
- 70N     Nakatani, M., Horuichi, S., Ooshima, H.: J. Appl. Phys. 41 (1970) 836.
- 80U     Ueda, Y., Kosuge, K., Kachi, S.: J. Solid State Chem. 31 (1980) 171.
- 81W     Word, R. E., Werner, S. A., Yelon, W. B., Honig, J. M., Shivashenkar, S.: Phys. Rev. B23 (1981) 3533.

**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].

