

substance: VO₂

property: phase transition data

parameters of the phase transition

$\Delta V/V$	0.001(1)	at T_{tr}		70M
	0.00044			79K
$\Delta a_m/a_m$	$9.85 \cdot 10^{-3}$	at T_{tr}	change occurs over a temperature	79K
$\Delta b_m/b_m$	$6.12 \cdot 10^{-3}$	at T_{tr}	range of 0.1 K at 338 K	
$\Delta c_m/c_m$	$2.20 \cdot 10^{-3}$	at T_{tr}	(m: monoclinic)	
$\Delta \beta$	0.5967°	at T_{tr}		
ΔH_{tr}	4.27 kJ mol ⁻¹			69B1
	3.4 kJ mol ⁻¹			64K
	4.68 kJ mol ⁻¹			73C
	4.33 kJ mol ⁻¹			47C

change in transition temperature with pressure and uniaxial stress

dT_{tr}/dX	$-1.2 \cdot 10^{-3}$ K bar ⁻¹	$X \parallel c$		69L
dT_{tr}/dp	$6 \cdot 10^{-5}$ K bar ⁻¹			
dT_{tr}/dp	$0.082 \cdot 10^{-8}$ K Pa ⁻¹		variation of T_{tr} with oxygen content: Fig. 1	69B2

influence of ¹⁸O substitution on T_{tr}

ΔT_{tr}	0.8°C	for 21 at % ¹⁸ O		78T
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References:

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Fig. 1.

$\text{VO}_{2\pm\delta}$. Transition temperature vs. stoichiometry [75B]. Full circles: on heating, open circles: on cooling.

