

**substance:  $V_nO_{2n-1}$ :  $n \geq 3$**

**property: thermal properties at  $T_{tr}$**

**heat and entropy changes of transition**

(from [73K, 78C, 79N2])

$V_nO_{2n-1}$	$\Delta H_{tr}$ cal/mol [73K]	$T_{tr}$ K [73K]	[79N2]	$\Delta S_{tr}$ cal mol <sup>-1</sup> K <sup>-1</sup> ( $\Delta H_{tr}/T_{tr}$ )
$V_3O_5$	215	430 <sup>a)</sup>	430	0.50
$V_4O_7$	142	250	238	0.57
$V_5O_9$	215	135	135	1.59
$V_6O_{11}$	222	170	170	1.31
$V_7O_{13}$	—	—	—	
$VO_2$	1012	340		3.0
$V_8O_{15}$			68	

<sup>a)</sup> From [78C].

Heat capacity at low temperature: Fig. 1.

**some further data**

$V_3O_5$ :  $\Delta H_{tr} = 650(30)$  cal mol<sup>-1</sup> according to [77K],  $dT_{tr}/dp = -2.1$  K kbar<sup>-1</sup>,  $\Delta V = 0.3\%$  [78C].

$V_4O_7$ :  $\Theta_D = 729$  K,  $dT_{tr}/dp = -0.65$  K kbar<sup>-1</sup> [79T],  $= -0.20$  K kbar<sup>-1</sup> [73M].

$V_5O_9$ :  $dT_{tr}/dp = -0.8$  K kbar<sup>-1</sup> [79T].

$V_6O_{11}$ :  $dT_{tr}/dp = -2.4$  K kbar<sup>-1</sup> [79T].

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**Fig. 1.**

$V_3O_5$ ... $V_8O_{15}$ . Heat capacity vs. temperature [79N1].

