

substance: Nb₂O₅

property: parameters of H-T and B-T transition

H-T transition

ΔV_m	$-5.1 \text{ cm}^3 \text{ mol}^{-1}$	$p \approx 1 \text{ bar}$	phase diagram showing stability regimes for T, B, P and H-forms, see [72K, 72T]	72T
p_{tr}	$(0.02 \text{ T}(^{\circ}\text{C})-15) \text{ kbar}$	$T = 800$		
ΔH_{tr}	-3 kcal mol^{-1}	$\dots 1300^{\circ}\text{C}$		
ΔS_{tr}	$-2 \text{ cal K}^{-1} \text{ mol}^{-1}$			

T-B transition

ΔV_m	$-3.1 \text{ cm}^3 \text{ mol}^{-1}$	$p \approx 1 \text{ bar}$		72T
p_{tr}	$(0.18 \text{ T}(^{\circ}\text{C})-120) \text{ kbar}$	$T = 800$		
ΔH_{tr}	$-10 \text{ kcal mol}^{-1}$	$\dots 1000^{\circ}\text{C}$		
ΔS_{tr}	$-10 \text{ cal K}^{-1} \text{ mol}^{-1}$			

References:

- 72K Kodoma, H., Kikuchi, T., Goto, M.: J. Less-Commun. Met. 29 (1972) 415.
72T Tamura, S.: J. Mater. Sci. 7 (1972) 298.