Table 1A. The constitution of the temperature derivatives of the elastic constants of tantalum⁽²⁾ in units of $10^{-4}~\rm deg^{-1}$. $\rm dlnB_T/dT)_V$ was computed by the relationship $\rm dlnB_T/dT)_V=\frac{B_S}{B_T}~(\rm dlnB_S/dT)_V-3\,\gamma$ α where γ is the Gruneisen constant and α is the linear coefficient of thermal expansion. Quantities are evaluated at zero pressure and room temperature.

	$\left(\frac{\text{dlnC}}{\text{dT}}\right)_{P}$ =	$\left(\frac{\text{dlnC}}{\text{dT}}\right)_{V}$ +	$\alpha \left(\frac{\text{dlnC}}{\text{dlnr}}\right)_{T}$
C ₄₄	-2.6	-2.1	-0.5
C'	-1.9	-1.2	-0.7
C _{ll}	-1.2	-0.6	-0.6
^B s	-1.0	-0.4	-0.6
$\mathtt{B}_{\underline{\mathtt{T}}}$		-0.7	