

- -

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

	$\left(\frac{d\ln C}{dT}\right)_P = \left(\frac{d\ln C}{dT}\right)_V + \alpha \left(\frac{d\ln C}{d\ln r}\right)_T$		
C_{44}	-2.6	-2.1	-0.5
C'	-1.9	-1.2	-0.7
C_{11}	-1.2	-0.6	-0.6
B_S	-1.0	-0.4	-0.6
B_T		-0.7	