

HP6

Property	Li	Na	K	Rb	Cs
$R - \frac{\text{volt-cm}}{\text{amp. -gauss}} \times 10^{13}$	-17 ^[3]	-21 ^[1]	-42 ^[1]	-59.2 ^[2]	-78 ^[1]
n^* - computed from R	.79	1.17	1.11	.94	.98
θ_D - Debye Temp. ^[4] in °K	430	160	99	59	43
Melting Temp. °C ^[5]	180	97.7	63.6	39.0	28.5
Elastic Constants					
$C_{11} \times 10^{-11}$ in dynes/cm ²		.615 ^[6]	.416 ^[6]		
$C_{12} \times 10^{-11}$ "		.469	.333		
$C_{44} \times 10^{-11}$ "		.592	.263		
Anisotropy $\frac{2C_{44}}{C_{11} - C_{12}}$		8.11	6.34		
Linear contraction ₂ in 15,000 kg/cm ²	3.5% ^[7]	5.5% ^[7]	8.7% ^[7]	10.3% ^[8]	12.5% ^[8]
$A \times 10^2$ (from García-Moliner) ^[9]	12.7	1.7	8.8	8??	9??
$ r \times 10^2$ (from expression (I-5))	5.3	.6	1.3	2.5?	1?

Table 1-1

Properties of the Alkali Metals