

TABLE 2. THE IDEAL RESISTIVITY OF POTASSIUM AT ZERO PRESSURE, ρ_i , AND AT CONSTANT DENSITY, ρ'_i

T ($^{\circ}\text{K}$)	ρ_i/T^* ($10^{-8} \Omega \text{ cm deg K}^{-1}$)	ρ'_i/T^\dagger ($10^{-8} \Omega \text{ cm deg K}^{-1}$)
8	0.080 \pm 0.001	—
10	0.138	—
12	0.204	—
14	0.278	—
16	0.362	—
18	0.450	—
20	0.537	—
25	0.758	—
30	0.950 ₉	0.943 ₈
35	1.110 ₀ \pm 0.0005 \ddagger	1.098 ₉
40	1.240 ₂	1.224 ₄
45	1.348 ₈	1.327 ₈
50	1.437 ₈	1.410 ₉
55	1.511 ₉	1.478 ₉
60	1.573 ₈	1.534 ₃
70	1.667 ₂	1.611 ₈
80	1.736 ₄	1.661 ₀
90	1.790 ₁	1.692 ₄
100	1.835 ₉	1.715 ₅
110	1.876 ₅	1.732 ₆
120	1.911 ₅	1.743 ₅
130	1.943 ₉	1.751 ₈
140	1.974 ₃	1.757 ₇
150	2.003 ₂	1.761 ₈
160	2.031 ₅	1.765 ₄
170	2.058 ₈	1.767 ₃
180	2.086 ₁	1.769 ₂
190	2.113 ₅	1.771 ₁
200	2.140 ₆	1.771 ₆
210	2.168 ₇	1.772 ₅
220	2.197 ₉	1.774 ₁
230	2.227 ₃	1.774 ₉
240	2.257 ₄	1.776 ₈
250	2.288 ₀	1.778 ₀
260	2.319 ₀	1.779 ₄
270	2.350 ₂	1.780 ₅
273.1 ₅	2.360 ₁	1.780 ₇
280	2.383 ₂	1.782 ₆
290	2.418 ₂	1.785 ₁
295.1 ₅	2.436 ₀	1.786 ₃

* There is no significant difference below 30 $^{\circ}\text{K}$ between ρ_i and ρ'_i .

† The random error for these results is the same as for ρ_i/T , but there is in addition a possible systematic error (arising from uncertainties in the P - V - T data) which, at the higher temperatures, may be about twice as big as the random error.

‡ The random error in these values remains at $\sim \pm 0.0005$ above this temperature.