

These melting pressures are only slightly higher than the present experimental range and represent pressures at which maxima occur in ΔS_m . At higher pressures ΔS_m decreases with P_m and finally extrapolates to zero at $P_m = 79,500$ kg/cm² ($T_m = 235^\circ\text{K}$) for He³ and $P_m = 63,900$ kg/cm² ($T_m = 197^\circ\text{K}$) for He⁴. Therefore, a critical point in the melting curve is not precluded by the available data. There is some indication that the melting thermal properties of the heliums become "normal" at sufficiently high pressures.

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