TABLE III

PROPERTIES[a] OF THE TRANSITION IN SOLID He^3, $\beta \rightarrow \alpha$

P (kg/cm²)	T (°K)	dP/dT (kg/cm²/deg)	ΔV (cm³/mol)	ΔS (cal/deg/mol)
140.44[b]	3.148[b]	34.0	0.116	0.092
130	2.805	27.0	0.118	0.074
120	2.370	19.2	0.100	0.045
112	1.846	11.6	0.072	0.019

[a] Smoothed values.

[b] Triple point for solid α, β, and fluid.

TABLE IV

GAS DENSITIES OF He^3 AND He^4 AT 24.40°C

P kg/cm²	ρ He^4 Amagats	ρ He^3 Amagats
53.44	46.30	46.28
112.45	94.95	94.81
204.55	166.20	165.99

TABLE V

CONSTANTS[a] IN EQ. (1) FOR THE VOLUME CHANGE OF MELTING

Solid	A	B	C	P_m range, kg/cm²	rms dev. cm³/mol
He^4	1.60677	0.33439	−103.25	175 3555	0.0051
He^3 α	1.56464	0.39023	−29.998	51 128	0.0064
He^3 β	1.51053	0.30825	−42.581	146 3555	0.0031

[a] Pressure units in kg/cm² and volume units in cm³/mol.

TABLE VI

CONSTANTS[a] IN EQ. (2) FOR THE VARIOUS TRANSITIONS

Transition	A'	B'	C'	D'	E'	T range, deg K	rms dev., kg/cm²
Solid He^4 → fluid He^4 I	33.280	−44.156	31.799	−4.8159	0.30313	1.8 5.2	0.23
Solid He^3 α → fluid	27.256	−0.64696	16.0205	−1.39505	0	1.2 3.1	0.16
Solid He^3 β → fluid	3.873	30.5539	4.08176	0	0	3.2 4.4	0.10
Solid He^3 α → Solid He^3 β	104.906	0	−0.053454	1.15635	0	1.8 3.1	0.42

[a] Pressure units in kg/cm² and temperature units in deg K.