

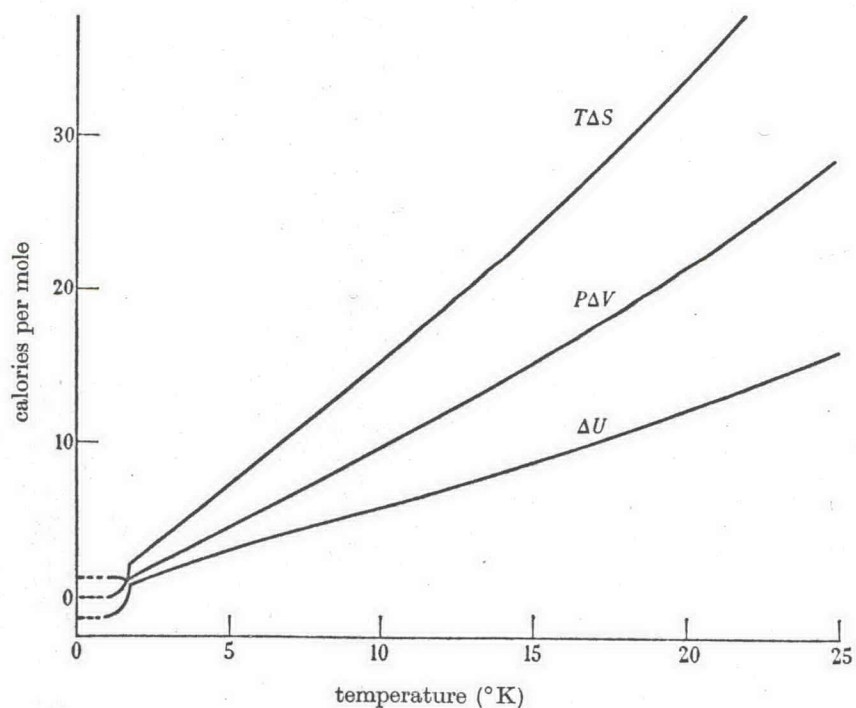
TABLE 1. THE HELIUM MELTING CURVE BETWEEN 4.2 AND 12°K

T (°K)	p (atm)	T (°K)	p (atm)
4.23	141	8.20	423
5.20	202	8.75	469
6.00	255	9.70	550
6.50	285	10.17	590
6.88	314	10.78	652
7.46	358	11.20	695
7.91	400	12.07	779

TABLE 2. SMOOTHED VALUES OF THE ENTROPIES AND VOLUMES ALONG THE MELTING LINE

Entropies in cal/°C per mole, volumes in ml/mole. (The volumes are given to a higher accuracy than is warranted by the experiments in order to give ΔV correctly.)

T (°K)	S_{solid}	S_{fluid}	V_{solid}	V_{fluid}
4	0.18	1.60	17.25	18.25
6	0.29	1.79	15.53	16.42
8	0.39	1.90	14.34	15.10
10	0.48	2.00	13.45	14.13
12	0.56	2.11	12.82	13.45
14	0.63	2.21	12.30	12.88
16	0.70	2.31	11.87	12.42
18	0.78	2.42	11.42	11.95
20	0.86	2.54	11.10	11.61
22	0.94	2.66	10.75	11.24
24	1.01	2.77	10.40	10.88
26	1.08	2.88	10.10	10.57

FIGURE 5. $T\Delta S$, $P\Delta V$ and ΔU for helium on melting.