an derive the quantity

is approximately constant and
h slowly, but this may be within

FUNCTION OF T/ϕ

	$(U-U_0)/T$
3	0·010
3	0·017
3	0·043
	0·091
	0·158
	0·248
	0·359
	0·491
	0·645

ntegrating the relationship

(3)

depends only on volume. The
P, V, T values on the melting
in figure 9, together with the
ns.

be extrapolated to 0°K with
ationship at absolute zero can
om this in turn the compressi-
und and is shown in table 5.
res may also be obtained.

HELIUM AT 0°K

pressure (atm)	$10^5\beta$ (atm^{-1})
295	54
200	76
136	103
88	140
50	190
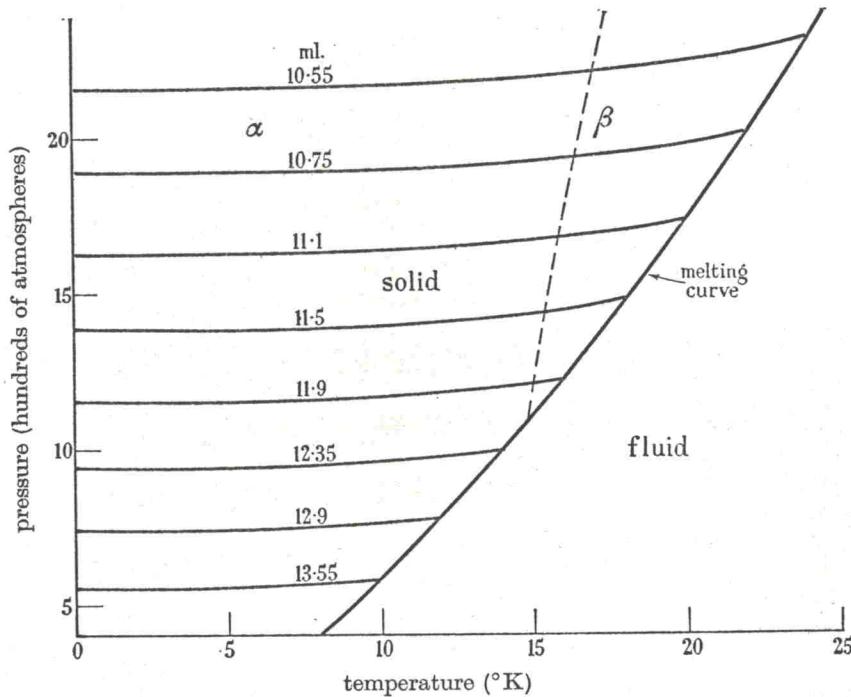
FIGURE 9. The isochores of solid helium at eight molar volumes.
------, transition line in the solid.
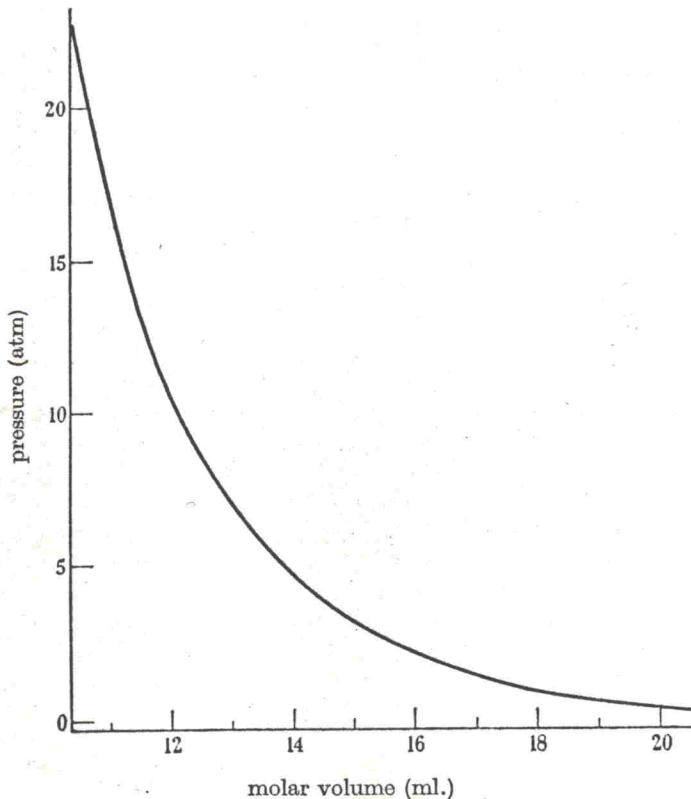
FIGURE 10. The pressure-volume relation in solid helium at 0°K.