an derive the quantity

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

FUNCTION OF T/ϕ

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

ntegrating the relationship

$$ \tag{3} $$

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

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

HELIUM AT 0° K

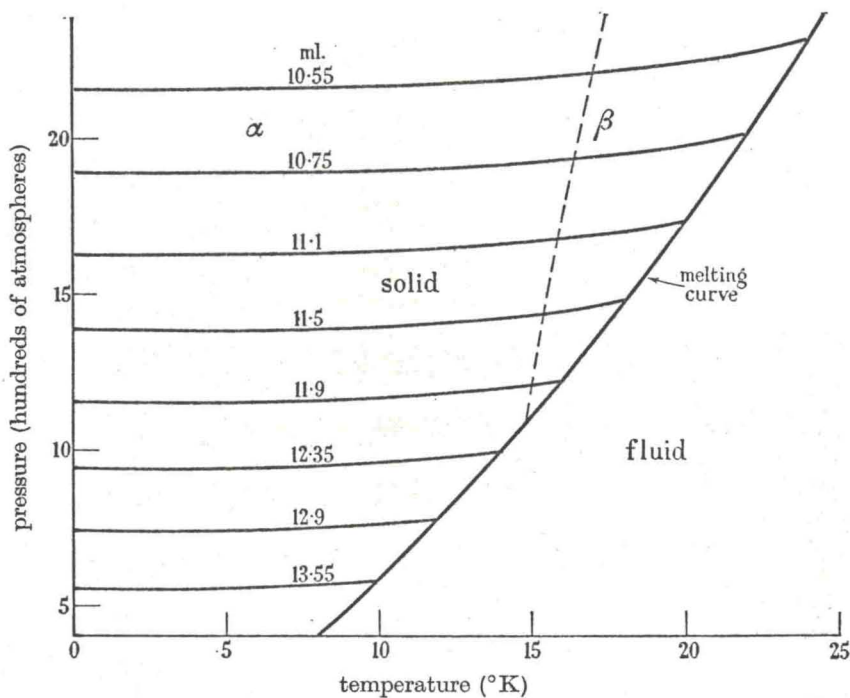| pressure (atm)	$10^5\beta$ (atm^{-1})
295	54
200	76
136	103
88	140
50	190

FIGURE 9. The isochores of solid helium at eight molar volumes.
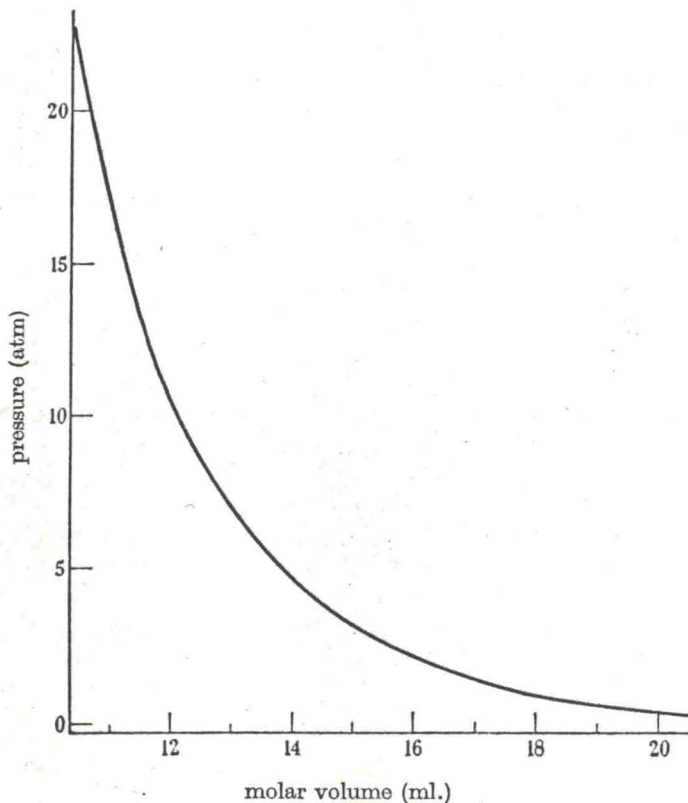– – – –, transition line in the solid.

FIGURE 10. The pressure-volume relation in solid helium at 0° K.