little, however, D is found in the y over this region, normal state does to five the activated of freedom of the the normal state, liffusion over the tly caused by the ses the SnI4 molesed in the activated ible if we consider moving through It is obvious that

75°C

 $-CCl_4-SnI_4$ .

of closely packed move with less tge, if it is oriented tion.

s sharply, showing ed to move is dewever, shows that his smaller distoressures. The curve se, indicating that the normal state of the activated with increasing and place more and cordingly indicates

some sort of quasi-static arrangement is appearing CC14 which allows the formation of holes larger those existing at lower pressures. The most edv explanation seems to be that rotation in the CCl4 wales surrounding the SnI4 molecules begins to be and ited to some extent at about 1000 atmos at these Tatures. This does not mean that any sharp expection corresponding to the case for the solid at atmosphere takes place. On the contrary, the store of the liquid state is such that a sharp transition would not be expected. The intermolecular distances ma liquid are much less uniform than those in a solid. e, any such inhibition of rotation would be exa ted to be a localized phenomenon whose occurrence creases gradually with increasing density. In addition, tracsent work furnishes no clue as to whether such

an inhibition takes place only around  $SnI_4$  molecules or whether it would take place even in pure  $CCl_4$ . In either event the structure resulting from such an inhibition of the rotation would be expected to be harder to distort, a conclusion supported by the higher values of  $\Delta H_p^{\pm}$ .

The plots of  $\Delta F_p^{\pm} - \Delta F_0^{\pm}$  are shown in Fig. 4. These values are not truly values at 50° and 75°, since they were calculated from the "average" values of  $\Delta H_p^{\pm} - \Delta H_0^{\pm}$ . The curve shows an increasing value of  $\Delta F_p^{\pm} - \Delta F_0^{\pm}$  with P, qualitatively paralleling the decrease in D. This is, of course, to be expected from the manner in which  $\Delta F_p^{\pm} - \Delta F_0^{\pm}$  was obtained.

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