

- The solid-liquid curve in the phase diagram of a particular compound slopes to the left. Can the compound sublime? Explain your answer.

The slope of the solid-liquid curve is irrelevant as sublimation is the phase change from solid to gas.

As long as there is an equilibrium line between these phases then the compound can sublime.

(The sloping of the solid-liquid to the left indicates that the solid is less dense than the liquid and applying pressure has the effect of pushing the substance towards the liquid phase.)