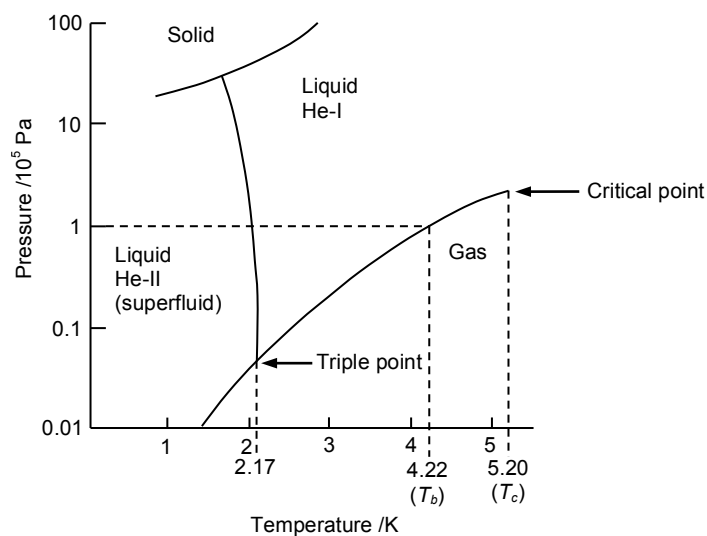


- The diagram below shows a simplified phase diagram of helium.



Describe two unusual properties of helium (other than the “superfluid” He-II phase) that are *not* shared by most substances.

Is it possible to liquefy helium above 5.20 K? Explain your answer.

Why is the liquefaction of He very difficult, even at low temperatures?