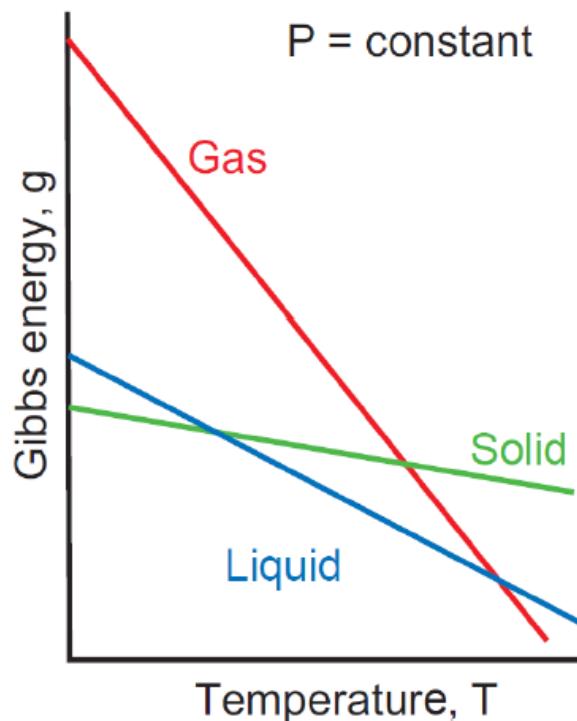


The absolute value of the slope of an isobar in a gT-diagram (T on the horizontal axis) for a gas is larger than for a solid.



The slope of an isobar in a gT-diagram (T on the horizontal axis) is given by:  $(\frac{\partial g}{\partial T})_P$ . From  $dg = -sdT + vdP$  it follows that this is equal to  $-s$ . This means a decreasing line with a value equal to the entropy. For a gas the entropy is larger than for a solid, therefore the slope is larger than for a solid.