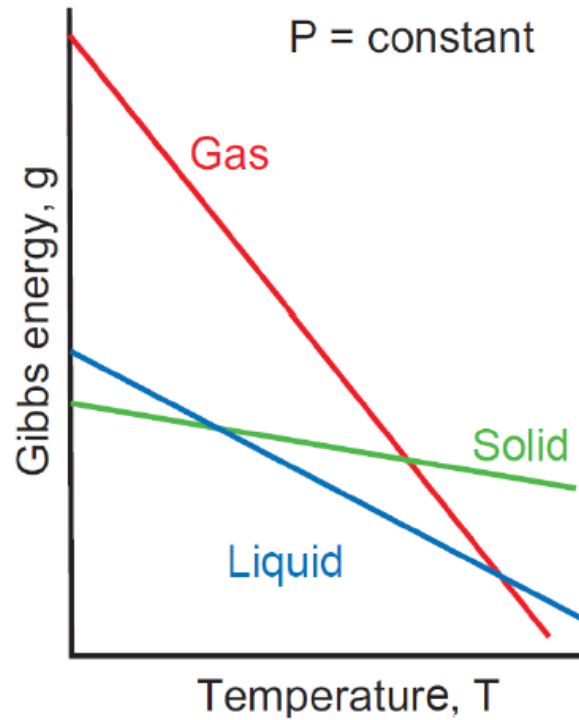




The absolute value of the slope of an isobar in a gT-diagram (T on the horizontal axis) for a gas is larger than for a solid.



The slope of an isobar in a gT-diagram (T on the horizontal axis) is given by: $\left(\frac{\partial g}{\partial T}\right)_P$. 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.