



## 3-b-1 Determine phase

In which phase is water at  $T = 180^\circ C$  and  $h = 2000 \text{ kJ/kg}$ ?

Answer: Saturated mixture

At  $T = 180^\circ C$ , the enthalpy of the saturated liquid is 763 kJ/kg and of the saturated vapor it is 2777 kJ/kg. 2000 kJ/kg is in between, so the water is still in the compressed liquid phase.