

Answer on Question #45067 – Chemistry - Other

Question

When water heated to a temperature 'x' it gets converted into steam at temperature 'x' by process called 'r'. And when steam at temperature 'x' is cooled, it gets reconverted into water at the same temperature 'x' by process called 's'. What is the process 'r' and 's' known as? How much is the value of 'x' in Kelvin? What is the name of the energy absorbed during the process 'r'?

Answer

The process 'r' is known as **vaporization**, and the process 's' is known as **condensation**.

The value of 'x' is equal to **373.15 K** (at atmospheric pressure).

The name of the energy absorbed during the process 'r' is **enthalpy of vaporization** (or **vaporization heat**).

So, the whole text is:

When water heated to a temperature 373.15 K it gets converted into steam at temperature 373.15 K by process called vaporization. And when steam at temperature 373.15 K is cooled, it gets reconverted into water at the same temperature 373.15 K by process called condensation.