2 In an experiment to determine the specific latent heat of vaporisation of water L_V, a student used an electrical heater to boil water in a beaker.

The experimental data gave $L_V = 2.20\,\text{MJ kg}^{-1}$. The textbook value of L_V is $2.26\,\text{MJ kg}^{-1}$.

Which of the following could be an explanation for this difference in the values of L_V?

- ☒ **A** Some energy is transferred to the surroundings.
- ☒ **B** The heater power was underestimated.
- ☒ **C** The student did not stir the water.
- ☒ **D** The heater is inefficient.

(Total for Question 2 = 1 mark)