13   Heat is supplied at a constant rate to a liquid in a beaker. Just before it begins to boil, the temperature of the liquid was rising at 4.0 K per minute. All the liquid are boiled away after 40 minutes. The heat capacity of the beaker may be taken to be negligible.

What is the value of the ratio $\dfrac{\text{specific heat capacity}}{\text{specific latent heat of vaporisation}}$?

A $\dfrac{1}{10}$ K^{-1} B $\dfrac{1}{40}$ K^{-1} C $\dfrac{1}{160}$ K^{-1} D $\dfrac{1}{640}$ K^{-1}