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In a heating experiment, energy is supplied at a constant rate to a liquid. The temperature of the liquid rises at 4.0 K per minute just before it begins to boil.

After 40 minutes of boiling, all the liquid has boiled away.

For this liquid, what is the ratio $\frac{\text{specific latent heat of vaporisation}}{\text{specific heat capacity}}$?

A

$\frac{1}{160}$ K

B

$\frac{1}{40}$ K

C

40 K

D

160 K