

13 The temperature of a hot liquid in a container of negligible heat capacity falls at a rate of 2 K per minute just before it begins to solidify. The temperature then remains steady for 20 minutes and the liquid has all solidified.

Assume that the rate of heat loss is constant.

What is the ratio of $\frac{\text{specific heat capacity of liquid}}{\text{specific heat of fusion}}$?

A $\frac{1}{40}$

B $\frac{1}{10}$

C 10

D 40