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The SI unit of specific heat capacity is $\text{J kg}^{-1} \text{ K}^{-1}$.

What is the unit of specific heat capacity expressed in SI base units?

A $\text{m s}^{-2} \text{ K}^{-1}$

B $\text{m}^2 \text{ s}^{-2} \text{ K}^{-1}$

C $\text{kg m s}^{-1} \text{ K}^{-1}$

D $\text{kg m}^2 \text{ s}^{-1} \text{ K}^{-1}$