

- 13** 75 g of potato chips is used as fuel to heat up a calorimeter that contains 2.00×10^3 g of water initially at 297 K. The temperature rises by 12 °C. The heat capacity of the calorimeter is 200 J K^{-1} and the specific heat capacity of water is $4.18 \text{ J g}^{-1} \text{ K}^{-1}$.

How much heat is released per gram of potato chip?

- A** 1.37 kJ g^{-1}
- B** 7.10 kJ g^{-1}
- C** 100 kJ g^{-1}
- D** 103 kJ g^{-1}