

- 16** 75 g of potato chips are burnt and then put into a calorimeter that contains 2.00×10^3 g of water initially at 297 K. The temperature rises by 12 °C.

How much heat is released per gram of potato chip?

[The heat capacity of the calorimeter is 200 J K^{-1} ;
specific heat capacity of water is $4.18 \text{ J g}^{-1} \text{ K}^{-1}$.]

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- A** 7.10 kJ/g
- B** 100 kJ/g
- C** 103 kJ/g
- D** 1.37 kJ/g