

4. A thermometer containing  $1 \times 10^{-4}$  kg of mercury is cooled from  $15.0^{\circ}\text{C}$  to  $8.50^{\circ}\text{C}$ . How much energy is lost by the mercury in this process?

A. 0.21 J

B. 0.09 J

C. 2.7 J

D. 83 J

E. Not close to any of the above

Ans. \_\_\_\_\_

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