

Topic 04. Thermal Physics

1. 122 kJ (* the answer may slightly vary depending on the values for the specific heat capacitances and heats you consider in the reference tables)
2. 0.26 kg
3. (a) 0.0388 mol; (b) 220°C
4. 25 molecules/cm³
5. (a) 2.00 atm; (b) 333 J; (c) 0.961 atm; (d) 236 J
6. (a) 3.00×10^3 J; (b) -2.97×10^{-2} m³.