

HEAT CALCULATIONS PRACTICE HC

- 1) How much heat is required to completely melt 75.0 g of ice at 273 K?
- 2) How much heat is required to completely vaporize a 65.4 g sample of liquid water is initially at 86.6°C to steam at 100.°C?
- 3) An unknown substance has a heat of vaporization of 3500 J/g. If a sample of that substance requires 85670 J to vaporize, what is the mass of the sample?
- 4) How much heat is released when 9.54 g of water cools from 78.9°C to 34.8°C?
- 5) How much heat is required to completely melt 12.5g of ice at 0.0°C to liquid water at 18.5°C?