## Answer on question #58273, Physics / Other

**Question** Assuming you could warm 50g of gold to its boiling point, how much additional heat would you need to add to vaporize it?

**Solution** Latent heat of evaporation of gold is  $L=1.577\cdot 10^6$  J/kg. So heat you need is

$$Q = mL = 0.05 \cdot 1.577 \cdot 10^6 = 78.85 \cdot 10^3 \, J$$