|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | MP ºC | BP ºC | Hf (J/g) | Hv (J/g) | Cp(s) (J/gC) | Cp(l) (J/gC) | Cp(g) (J/gC) |
| H2O | 0 | 100 | 334 | 2260 | 2.06 | 4.18 | 2.02 |
| D | -30 | 80 | 200 | 1600 | 1.1 | 1.0 | .8 |

**Heat Quiz**

1. If 30 g of D at 20ºC are mixed with 50 g of H2O at 70ºC, find final temp.
2. How much energy is needed to heat 200 g of D from -50 to 10ºC?
3. How much water at 100ºC can be vaporized with 40 kJ of energy?
4. A golden (looking) ring is heated to 100ºC then dropped into 50 ml of water at 20ºC. The water warms to 22ºC. The ring is weighed and has a mass of 26 g. Find the specific heat of the supposed gold.