EADS
1046L
FINAL

Molar Heat of Fusion of Ice

Object:

Determine the energy needed to melt one mole of ice.

Procedure:

1. Obtain mass of styrofoam cup.
2. Add 150 g of warm water (~ 30°C).
3. Obtain mass of cup plus water.
4. Stir the water with thermometer and determine the temperature to the nearest tenth of a degree.
5. Dry 1 ice cube with a paper towel to remove any water, and place the ice immediately in the cup; do not splash any water from the cup.
6. Stir quickly until all the ice is melted, then record the temperature to the nearest tenth of a degree.
7. Determine the mass of the cup and water.