

More Practice with Phase Changes

1. Calculate the energy absorbed when 8.5g of ice is melted at 0.0°C .
2. Calculate the energy released when 2.2g of water vapor condenses on a soda can at 100.0°C.
3. Calculate the energy absorbed when 89.3g of water is boiled at 100.0°C.
4. Calculate the energy released when 20.0g of water forms an ice cube in a freezer at 0.0°C.
5. Calculate the energy needed to evaporate 400.0g water from an ocean to form water vapor.
6. How much energy is required to heat 25g of liquid water from 25°C to 100.0°C and change it to steam at 100.0°C.
7. Calculate the energy released when 14g of liquid water lowers from 14°C to 0.0°C and then freezes at 0.0°C.
8. Calculate the energy absorbed when 12g of liquid water raises from 55°C to 100.0°C and then boils at 100.0°C.

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