

3. Why is the ice/water bath used to calibrate the thermometer at  $0^{\circ}\text{C}$  referred to as an "equilibrium system"?

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4. Why is the temperature of the ice/water bath not dependent on the barometric pressure, as was the temperature of the boiling-water bath?

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5. Usually we fire-polish glass to make sure it does *not* have rough edges that might cut us during use of the glass. Why was it desirable in this experiment that the capillary tube *should* have a rough surface at the end?

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