

## Experiment 1. Determination of melting and boiling points of paraffin wax mixtures

### Experiment 1.1.

The paraffin mixture was first boiled and then cooled.

\* 26 grams of solid paraffin wax (melting range: 48-66 degrees Celsius)

\* 13 grams of liquid paraffin wax (melting point: 24 degrees Celsius)

First of all, the boiling point of solid paraffin was investigated. Boiling of solid paraffin: 80-90-105-125 degrees Celsius values.

The boiling point of the mixture was investigated. The mixture starts to boil: 72-75-80-88-104-112 degrees Celsius.

The point at which the mixture started to solidify was investigated.

Solidification of the mixture: It began to solidify at 44 degrees Celsius.

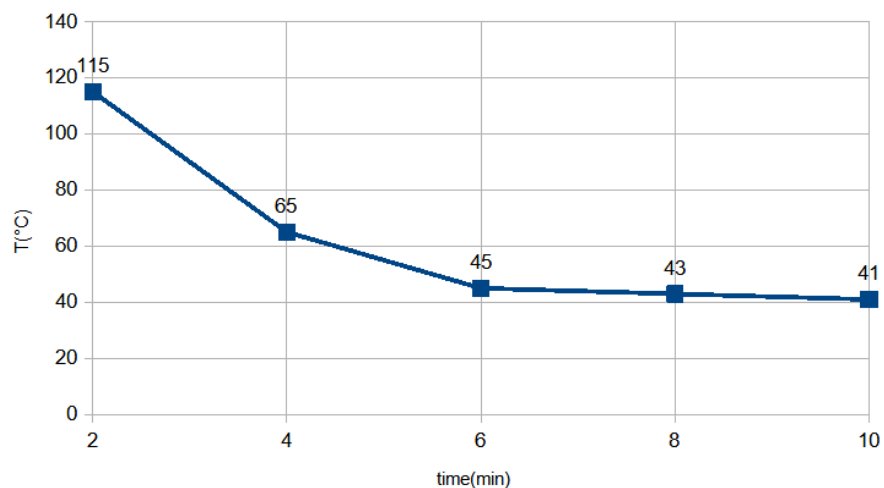


Table 7. Experiment 1.1. data table

## Experiment 1.2.

The paraffin mixture was first boiled and then cooled.

\* 77 grams of solid paraffin wax

\* 100 grams of liquid paraffin wax

The mixture was first brought to the boiling point.

The mixture remained in its current phase (liquid phase) after 17 minutes. Then it started to solidify.

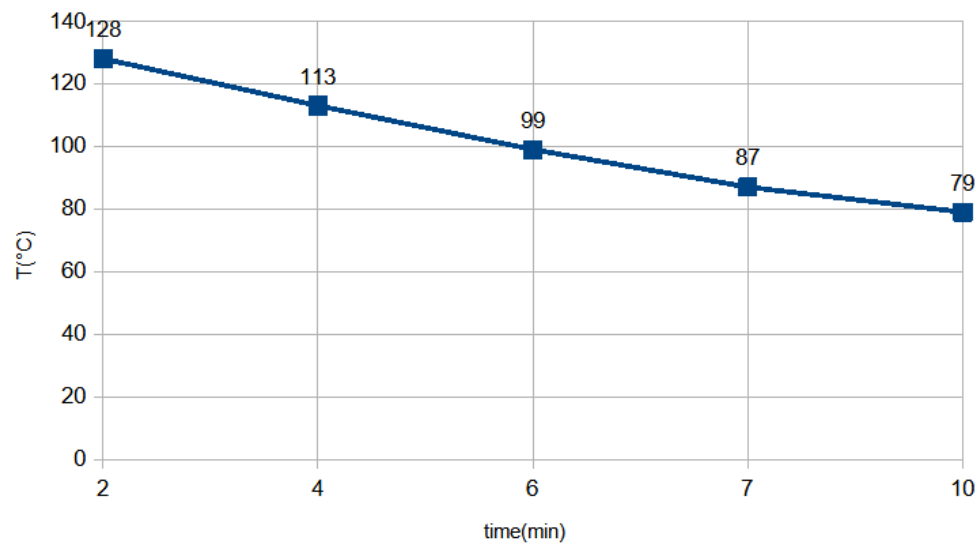


Table 8. Experiment 1.2. data table