

Date: Month: Year:

[] fill in the units in the square brackets

II.

Task: Viscosity Keywords: definition of viscosity, kinematic viscosity, Newtonian and non-Newtonian fluids,

Measured values: Unknown liquid

| Temperature [] | Time 1. [] | Time 2. [] | Time 3. [] | Average time |
|-----------------|-------------|-------------|-------------|--------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Measured values: Distilled water

| Temperature [] | Time 1. [] | Time 2. [] | Time 3. [] | Average time |
|-----------------|-------------|-------------|-------------|--------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Calculated values: Kinematic viscosity of distilled water

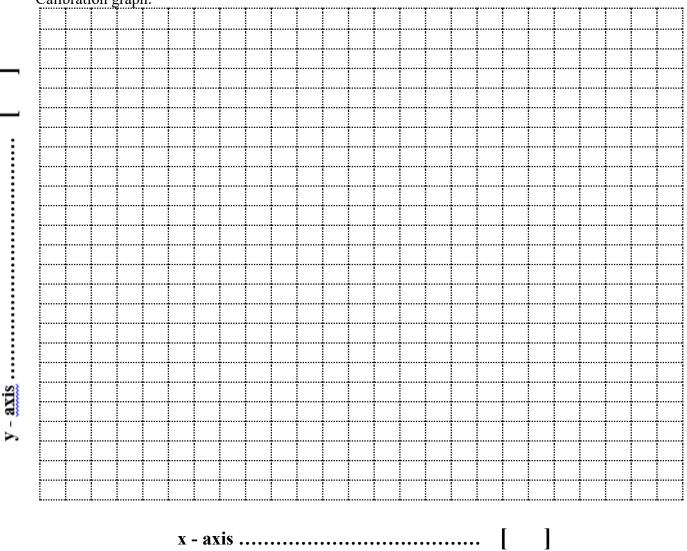
| Temperature [] | Dynamic viscosity [] | Density [] | Kinematic viscosity [] |
|-----------------|--------------------------|-------------|----------------------------|
| | | | |
| | | | |
| | | | |
| | | | |

Calculated values: Kinematic viscosity of unknown liquid

| Temperature [] | Kinematic viscosity [] |
|-----------------|----------------------------|
| | |
| | |
| | |
| | |

Notes/calculations:

Calibration graph:



Discussion:

Importance for the medicine / connection with the health and illness:

Possible errors and accuracy:

Conclusion:

Task: The surface tension of liquids

Keywords: definition of surface tension, causes, surfactants, Liquid in a vertical tube, Measured values: Digital Tensiometer K9

| Liquid Nr. | Surface tension [] |
|-----------------|---------------------|
| Distilled water | |
| X1 | |
| X2 | |
| X3 | |

Measured values: Stalagmometer

| Liquid Nr. | Weight/empty [] | Weight/ with 50 drops [] | Weight 50 drops [] | Surface tension [] |
|-----------------|------------------|---------------------------|------------------------|---------------------|
| Distilled water | | | | |
| X1 | | | | |
| X2 | | | | |
| X2 | | | | |

Notes/calculations:

Discussion:

Importance for the medicine / connection with the health and illness:

Possible errors and accuracy:

Conclusion: