UČO : Group: Date:

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**Name**:

**II.** [ ] fill in the units in the square brackets

**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 |
|  |  |  |  |  |
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Measured values: **Distilled water**

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| --- | --- | --- | --- | --- |
| Temperature [ ] | Time 1. [ ] | Time 2. [ ] | Time 3. [ ] | Average time |
|  |  |  |  |  |
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Calculated values: **Kinematic viscosity of distilled water**

|  |  |  |  |
| --- | --- | --- | --- |
| Temperature [ ] | Dynamic viscosity [ ] | Density [ ] | Kinematic viscosity [ ] |
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Calculated values: **Kinematic viscosity of unknown liquid**

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| --- | --- |
| Temperature [ ] | Kinematic viscosity [ ] |
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Notes/calculations:

Calibration graph:

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**x - axis ………………………………… [ ]**

**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 (physics units, equation), surfactants, capillary action**

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: