

TECHNICAL DATA

Surface tension of liquids

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Principle

The cohesive forces in a liquid generate tension on its surface, the so-called surface tension. A metal ring that is plunged into a liquid is withdrawn from the liquid. At a certain tensile force, the liquid film will be disrupted from the ring. Based on the tensile force and ring diameter, the surface tension of a liquid can be calculated

Benefits

- High sensitivity measurement possible thanks to ring method
- Analogue set-up that can also be used as a demo experiment in the lecture hall
- Interdisciplinary use also in applied sciences or physical chemistry

Task

Examine the surface tension of a liquid.

Learning objectives

- Wetting and non-wetting liquids
- capillarity

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Scope of delivery

Tripod base PHYWE	02002-55	1
Right angle clamp expert with fulcrum screw	02054-00	1
Support rod, stainless steel, different lenghts	02033-00	1
Rod with hook	02051-00	1
Surface tension measuring ring	17547-00	1
Petri dish, d 200 mm, glass	64757-00	1

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Water, distilled 5 l	31246-81	1	
Lab jack, 200 x 200 mm	02074-01	1	
Spring balance, transparent, 0,2N	03065-01	1	

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