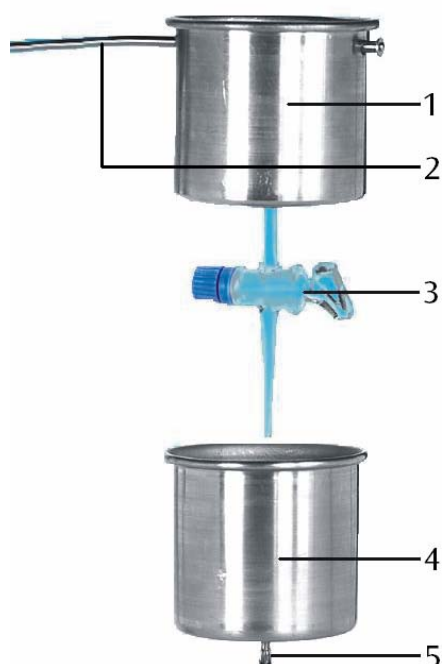


Drip cup with collector 8496410

Instruction sheet

08/06 SP



- 1 Drip cup
- 2 Handle
- 3 Glass stopcock
- 4 Collector
- 5 4-mm plug

1. Description

The drip cup with collector is used in conjunction with an electric field meter to investigate electrostatic charge on liquids.

The apparatus consists of two aluminium vessels, one of which has a hole in the bottom into which it is possible to insert a glass stopcock with a rubber stopper. The second vessel is equipped with a 4-mm plug which can be connected to the electric field meter.

2. Scope of delivery

- 1 Drip cup
- 1 Collector
- 1 Glass stopcock
- 1 Rubber stopper
- 1 Handle

3. Technical data

Drip cup:	
Dimensions:	75 mm x 90 mm Ø
Hole:	17 mm Ø
Weight:	82 g
Collector:	
Dimensions:	72 mm x 84 mm Ø
Weight:	82 g
Rubber stopper:	25 mm x 15/21 mm Ø
Length of glass cock:	180 mm

4. Operation

In order to conduct the experiment, the following apparatus is additionally required:

1 Electric field meter	8533011
1 Escola 10 multimeter	8531160
1 Plastic rod	1501517
1 Retort stand, V-base	8611160
1 Stainless steel stand rod	8611330
1 Cross-bosshead	8613170

- Connect the collector to the electric field meter.
- Insert the rubber stopper connected to the glass stopcock into the hole in the drip cup.
- Set up the drip cup on the stand so that the glass stopcock is approximately 10 cm above the collector.
- Half fill the drip cup with water.
- Switch on the electric field meter.
- Use the plastic rod to induce a charge on the collector.
- Use the voltmeter to measure and record the charge on the collector.
- Open the glass stopcock to allow the water to drip, drop by drop, into the collector below.
- Count the number of drops and observe the voltmeter readings.
- Read the charge recorded by the meter after every drop of water.

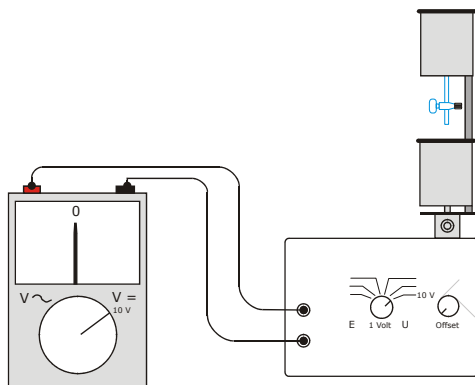


Fig. 1: Experiment set-up for drip cup with collector