

## Density of liquids

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### Principle

The density of water and glycerol is determined as a function of temperature using the Mohr balance.

### Benefits

- Mohr density balance enables high-precision measurements
- Interdisciplinary use also in applied sciences or physical chemistry

### Tasks

The density of water and glycerol is measured in 1 to 2 °C steps over a temperature range from 0 to 20 °C, then in larger steps up to 50 °C.

### Learning objectives

- Hydrogen bond
- Water anomaly
- Volume expansion
- Melting
- Evaporation
- Mohr balance

## Scope of delivery

Westphal/ Mohr density balance	45016-02	1
Immersion thermostat Alpha A, 230 V	08493-93	1
External circulation set for thermostat Alpha A	08493-02	1
Cooling coil for thermostat Alpha A	08493-01	1
Bath for thermostat, makrolon	08487-02	1
Glycerol, 250 ml	30084-25	2
Water, distilled 5 l	31246-81	1
Sodium chloride, 500 g	30155-50	1
Tubing connector, ID 6-10mm	47516-01	2
Beaker, boro, low-form	46054-00	1