



Material:

Item-no.	Qty.	Description
DM481-2C	1	Cylinder, flat bottom
C6501-3A	1	Areometer universal 0.7-2.0 g/cm ³
		Spirit, Booze, Scented petroleum, sugar

Purpose

Get to know different hydrometers (areometers) for determining liquid densities that are smaller or larger than those of water.

Preparation

Fill the cylinder with water

Experiment

The areometer is inserted carefully.

As soon as it has levelled off we read the scale value on the water surface.



Additional experiments

Fill the cylinder with liquids with different density such as spirit, booze or scented petroleum.

If the density of the liquid is lower than that of water, the areometer sinks further. The exact value of the density can be read directly on the scale.

With liquids of higher density (e.g. a sugar solution or water glass), the areometer is immersed less than in water.

The density can be read directly on the scale again.

Note

The name derives from the Greek araios = thin and metron = measure.