



C3.6.1 WATER ANALYTICS

C3.6.1.1
Determination of water contents
with indicator reagents and
immersion photometer

Determination of water contents with indicator reagents and immersion photometer (C3.6.1.1)

Cat. No.	Description	C3.6.1.1
524 069	Immersion photometer S	1
666 2605	Holder for immersion photometer S	1
524 005W	Mobile-CASSY 2 WiFi	1
666 2600	Photometry - reagent set 1 (with storage case and accessories)	1
666 961	Double-ended microspatula, stainless steel, 185 mm	1
664 043	Test tubes, Fiolax, 16 x 160 mm, set of 10	1
667 050	Test tube rack, plastic, for 9 tubes, 18 mm Ø	1
665 997	Graduated pipette 10 ml	1
666 003	Pipetting ball (Peleus ball)	1
667 031	Test tube holder 20 mm Ø	1
656 016	Bunsen burner, universal	1
607 025	Safety gas hose 1.5 m	1
674 7860	Sulfuric acid, 95-98 %, 500 ml	1

The determination of water quality plays a role in many areas today. Not only drinking water and mineral water are analyzed, but, for example, also swimming pools and lakes. Chemical and biological analyses can be carried out. In chemical water analytics, various ingredients are assayed. The concentrations of these substances indicate the quality of the water.

In experiment C3.6.1.1, water samples are tested for several ingredients, e.g. phosphate, ammonium or nitrate. These are photometric assays. The chemical basis for this relies on the fact that the ingredient to be identified forms a coloured compound or turbidity with the reagents added. At an appropriate wavelength, the extinction of the colour or turbidity created in this way is directly proportional to the concentration of the ingredient.