

Method Z650 – Total chlorine Cl₂

Specification

Description:	Test for determining the content of total chlorine in fresh water
Range:	0,1 - 5 mg/l
Resolution:	0,01 mg/l
Wavelength:	470 nm

Reagent set

Product Code	Description	List of components
8650	Set of reagents for method Z650, Total chlorine Cl ₂ fresh water (reagents for approx. 50 tests)	<ul style="list-style-type: none"> ✓ blister with tablets DPD No. 1 – 5 pcs. ✓ blister with tablets DPD No. 3 – 5 pcs. ✓ crusher

Performing the measurement

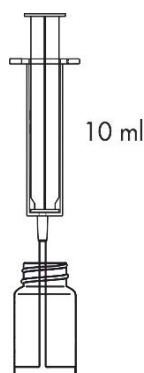
1. Select the **Z650 Total chlorine Cl₂** method (**Methods** → **Select method** → **Z650 Total chlorine Cl₂**).
How to select the method, see [8.1 Choosing method](#).

NOTE:

*It is recommended to use the GUIDE system by pressing the context button **GUIDE** on the photometer. It will provide you with step-by step basic instruction how to perform measurement and a timer with beeper to count down reaction time. To enable this function press the button **GUIDE**.*

2. Rinse the vial and the syringe three times with the tested water.

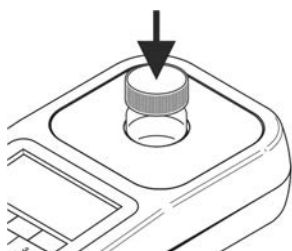
Take exactly 10 ml of the tested water with the syringe and pour into the vial.



NOTE:

Make sure no air bubbles are present in the syringe. Trapped air bubbles can affect accuracy of the measurement.

3. Insert the vial into the round vial holder and press the **ZERO** key. The display will show **"-0.0-"**, which means the device is ready for measurement.



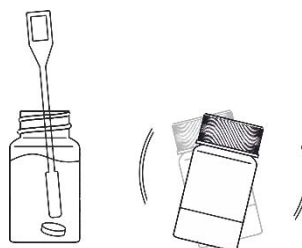
24 09 22		12:35
Cl ₂	Z650 Total chlorine	tag 1
Measuring ...		
ZERO	GUIDE	

24 09 22		12:35
Cl ₂	Z650 Total chlorine	tag 1
-0.0- mg/l		
ZERO	MEAS	GUIDE

3. Add one **DPD No. 1 tablet** into the vial with water.



4. Crush the tablet in the vial with the crusher, recap the vial and shake until the tablet has dissolved.



5. Wait **2 minutes** before adding the second reagent.



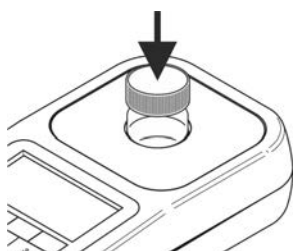
6. Add one **DPD No. 3 tablet** into the vial with the solution.

7. Crush the tablet in the vial with the crusher, recap the vial and shake until the tablet has dissolved.

8. Wait **2 minutes** before measuring.



4. Insert the vial into the round vial holder and press the **MEAS** key to take a measurement. The result - **the concentration of total chlorine** - is displayed in **mg/l (ppm)**.



24 09 22		12:38
Cl ₂	Z650 Total chlorine	tag 1
Measuring ...		
ZERO	MEAS	GUIDE

24 09 22		12:38
Cl ₂	Z650 Total chlorine	tag 1
0.11 mg/l		
ZERO	MEAS	GUIDE REC

Potential interferences

the presence of:

bromine (Br), iodine (I), ozone (O₃),
oxidised form of chromium (Cr) and manganese (Mn)

may interfere with the measurements

alkalinity above 14 °d

may cause falsely low readings