Chlorine Dioxide 56I700230

0.16 - 600 mg/L ClO_2

Material

Reagents	Packaging Unit	Part Number
Chlorine Dioxide Buffer CDO1	65 mL	56L033965
Chlorine Dioxide Titrant CDO2	65 mL	56L150265
Chlorine Dioxide Titrant CDO2A	65 mL	56L150165
Chlorine Dioxide Titrant CDO3	65 mL	56L150065

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 pc.	56A006501
Titration jar with cap, plastic, 250 mL	1 pc.	56A010501

Application List

- Cooling Water

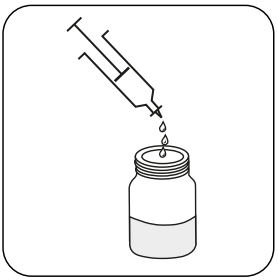
Notes

1. Colours may vary depending on sample and test conditions.
2. Acidic samples must be neutralised prior to testing.

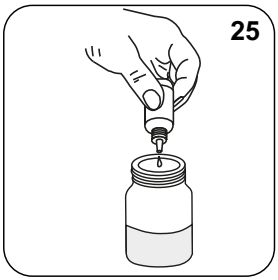
Sampling

Select the sample volume from the table according to the expected measuring range and read off the factor to calculate the result.

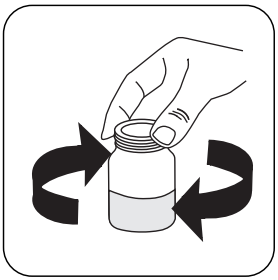
Expected Range	Titrant used	Sample Size	Factor
0.16-0.48 mg/L	Chlorine Dioxide Titrant CDO2A	250 mL	0.02
0.2-0.6 mg/L	Chlorine Dioxide Titrant CDO2A	200 mL	0.025
0.4-1.2 mg/L	Chlorine Dioxide Titrant CDO2A	100 mL	0.05
0.8-2.4 mg/L	Chlorine Dioxide Titrant CDO2A	50 mL	0.1
1.0-3.0 mg/L	Chlorine Dioxide Titrant CDO2A	40 mL	0.125
2.0-6.0 mg/L	Chlorine Dioxide Titrant CDO2A	20 mL	0.25
4.0-12 mg/L	Chlorine Dioxide Titrant CDO2A	10 mL	0.5
0.3-1.5 mg/L	Chlorine Dioxide Titrant CDO2	250 mL	0.04
0.4-1.2 mg/L	Chlorine Dioxide Titrant CDO2	200 mL	0.05
0.8-2.4 mg/L	Chlorine Dioxide Titrant CDO2	100 mL	0.1
2.0-6.0 mg/L	Chlorine Dioxide Titrant CDO2	40 mL	0.25
4.0-12.0 mg/l	Chlorine Dioxide Titrant CDO2	20 mL	0.5
8.0-24.0 mg/L	Chlorine Dioxide Titrant CDO2	10 mL	1
20-60 mg/L	Chlorine Dioxide Titrant CDO3	50 mL	2
50-150 mg/L	Chlorine Dioxide Titrant CDO3	20 mL	5
100-300 mg/L	Chlorine Dioxide Titrant CDO3	10 mL	10
200-600 mg/L	Chlorine Dioxide Titrant CDO3	5 mL	20



Attention! Select the appropriate sample volume according to the instructions in the chapter Sampling.

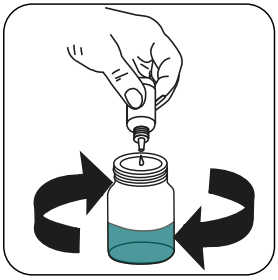


Add **25 drops Chlorine Dioxide Buffer CDO1**.



Swirl to mix.

Attention! Record the number of drops that will be added.
Note: Make sure to swirl the jar after adding each drop!



Add **Chlorine Dioxide Titrant CDO2A or Chlorine Dioxide Titrant CDO2 or Chlorine Dioxide Titrant CDO3** drop by drop to the sample until colouration turns from **colourless/pale yellow** to **blue/green** .

Calculate test result: Chlorine Dioxide (as ClO_2) mg/L = Number of drops x factor (see table)