

V. Step 1 : Cleaning the equipment



This step must be done :

- Before each new sample

Cleaning must be done with **demineralized** water, this step is essential before sampling. All utensils in contact with the sample as well as the test solution must be sound.

Improper cleaning will lead to a flawed analysis!

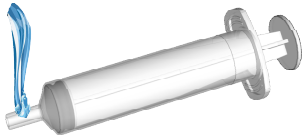
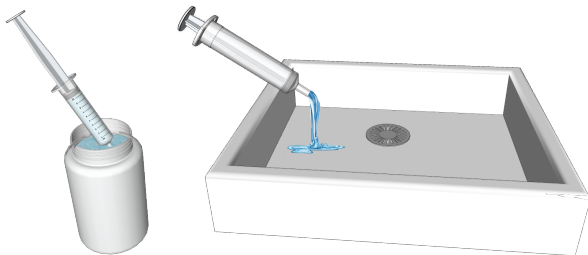
1) Equipment to clean

Id	Designation
3	Cuvette of analysis
4	Filter clamp
5	Syringe 10 mL

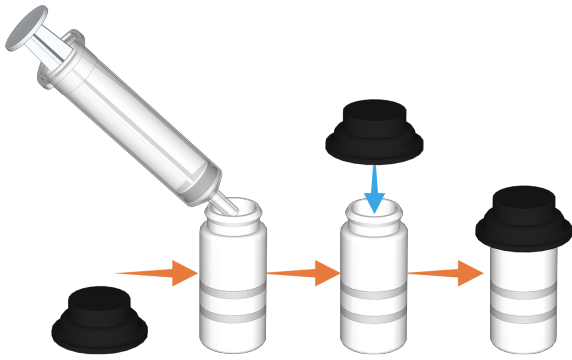
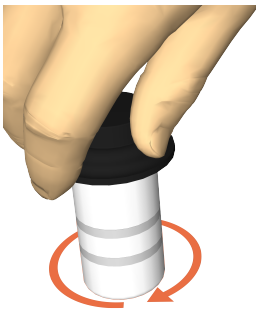
2) Cleaning the filter clamp

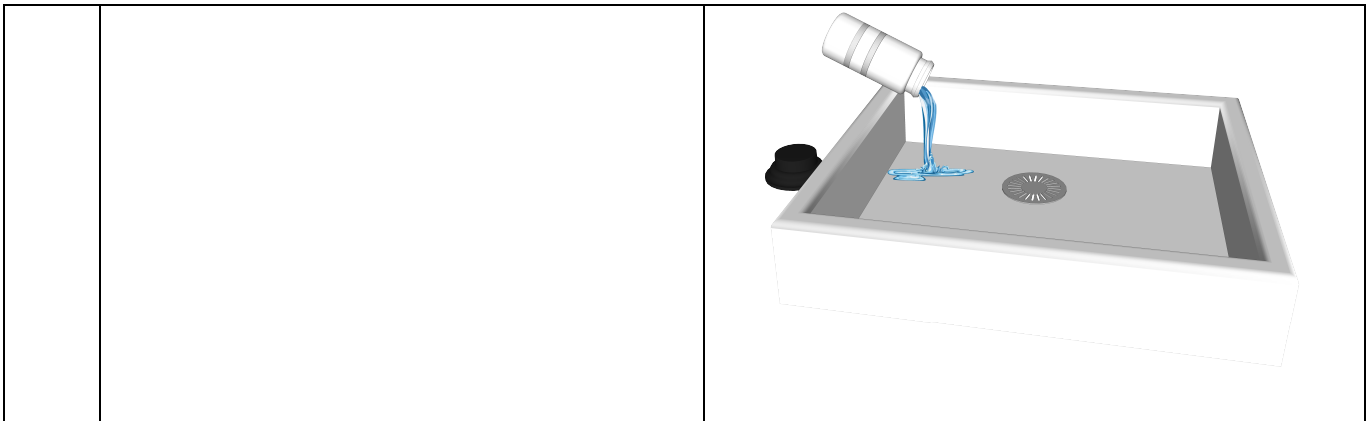
N°	Action	Picture
1	Clean the filter clamp [4] by pouring demineralized water over it.	

3) Cleaning the syringe

N°	Action	Picture
1	Clean the outside of the syringe [5] by pouring demineralized water over it.	
2	Clean the inside of the syringe [5] by filling it and emptying it several times with demineralized water.	

4) Cleaning the cuvette

N°	Action	Picture
1	Fill the syringe with demineralized water.	
2	Inject the demineralized water into the analysis cuvette and close it with the cap.	
3	Stir circularly keeping the analysis vat [3] straight for 10 seconds	
4	Discard the contents of cuvette to the public wastewater system	



vi. Step 2 : Capturing trichloramine in the air

1) Exposure time

The measurement scale will depend on the exposure time.

It takes a minimum exposure time of 1h30.

Scale of measurement according to the exposure time :

- Exposure time <2h: $0.3 \sim 5\text{mg/m}^3$ (**WARNING: on a short exposure time the measurement will be very sensitive to pollution during handling**).
 - o Case 1 : trichloramine < 0.3mg/m^3 : the trikloram will indicate that the value is < 0.3mg/m^3 and will not be able to display the exact value.
 - o Case 2 : $0.3 < \text{trichloramine} < 5\text{mg/m}^3$: trikloram will indicate the value at $\pm 0.1\text{mg/m}^3$
- Exposure time > or = to 2h: $0 \sim 2\text{mg/m}^3$
 - o Case 1 : $0 < \text{trichloramine} < 2\text{mg/m}^3$: trikloramate will indicate the value at $\pm 0.1\text{mg/m}^3$
 - o Case 2 : trichloramine > 2mg/m^3 : trikloramate will indicate that the value is > 2mg/m^3 and will not be able to display the exact value



The determination of the trichloramine concentration may vary due to external pollution during handling (examples: postilion, finger on sampling sample, filter clamps, vat analysis, syringe not or poorly washed before analysis ...)

The influence of external pollution reduces with the increase of the duration of exposure.

2) Necessary equipment

Id	Designation
2	Sampling device
4	Filter clamp
6	Sampling sample

3) Method

N°	Action	Picture
1	Clean the filter clamp [4] by pouring demineralized water over it.	
2	Unclip the hood of the sampler [2] by turning counter-clockwise	