Special instructions

MHa, V2, 14.02.2023

Determination of total hardness in presence of Cu(II) ions

Instructions	
Parameter	Total Hardness
Product group	*VISOCOLOR® alpha*, *VISOCOLOR® ECO*, *VISOCOLOR® HE*
Suitable tests	*VISOCOLOR® alpha* Total hardness REF 935042 *VISOCOLOR® ECO* Total hardness REF 931029 *VISOCOLOR® HE* Total hardness H 2 REF 915002 *VISOCOLOR® HE* Total hardness H 20 F REF 915005
Required reagents	*VISOCOLOR®* ECO Additive reagent to eliminate copper ions during determination of total hardness (REF 931929)
Sample preparation	Not necessary
Procedure	1. Fill sampling flask with **5 mL** water sample 2. Add **2 drops** additional reagent Z-1 and mix 3. Follow the standard test procedure as indicated in the instruction leaflet
Interpretation	See instruction leaflet

General information

The total hardness of water is based on its content of alkaline earth ions (calcium and magnesium ions). This content depends on the geological conditions the water encounters during its course and may vary widely. Knowledge of the total hardness is important for the use of water in industrial as well as municipal applications, e.g. in the household as wash water or as boiler feed water in industry.

Copper(II) ions can delay or (in higher concentrations) even block the color change of the indicator. The use of the *VISOCOLOR®* ECO Additive reagent Z-1 (REF 931929), which is added to the sample just before the test, can overcome this difficulty.

Contact

If you have further questions, please do not hesitate to contact us:

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