

DATA BULLETIN



TOC analysis of drinking water with the acquray TOC

The total organic carbon (TOC) content is one of the standard parameters which is routinely determined in drinking water. The acquray TOC is designed for this task and operates according to the international standard ISO 8245 on "Water quality – Guidelines for the determination of total organic carbon (TOC) and dissolved organic carbon (DOC)"

Drinking water samples were collected from cities and villages in the neighbourhood of the Elementar Headquarter and were analyzed each six times.

The direct mode (determination of NPOC after removing the TIC by acidification and sparging), which is the standard procedure for drinking water analysis due to the unfavourable TOC:TIC ratio ($TOC \ll TIC$), was used to analyze the TOC concentrations of the samples. Therefore, the samples were acidified externally with phosphoric acid in order to remove the TIC from the samples.

ORIGIN OF THE DRINKING WATER	TOC [mg/l]	SD [mg/l]
Langenselbold	0.442	0.024
Mainz	1.208	0.027
Frankfurt/Main	0.408	0.018
Bad Langensalza	0.297	0.015
Seligenstadt	0.645	0.012
well water	1.756	0.038

The relatively low TOC content of all drinking water samples could be determined with a very high precision.

The acquray TOC cube is a perfect instrument for the analysis of TOC in drinking water and fulfills the requirements of the international standard ISO 8245 on "Water quality – Guidelines for the determination of total organic carbon (TOC) and dissolved organic carbon (DOC)".

INSTRUMENT:

acquray TOC

DETAILS:

carrier gas: nitrogen

sample: 40 ml drinking water



STANDARD:

ISO 8245

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