

# DATA BULLETIN

## *Analysis of TOC in industrial process water with the vario TOC cube*

During specific industrial processes, the quality of process water has to be monitored. The vario TOC cube is very suited for the routine analyses of industrial process water, since it is designed for fully automatic analyses of total organic carbon (TOC) over a wide concentration range.

The samples were acidified externally with HCl in order to remove the TIC from the samples.

Average TOC concentrations of three different types of industrial process water, together with their absolute and relative standard deviations, are presented below. All samples were analyzed three times.

SAMPLE	TOC [mg/l]	SD [mg/l]	RSD [%]
ipw 1	1.28	0.010	0.80
ipw 2	51.5	0.16	0.30
ipw 3	99.9	0.40	0.40

The TOC content of the different process water samples could be analyzed with a very high precision (relative standard deviation < 1%).

The results show that the vario TOC cube is suitable for the analysis of industrial process over a large range of TOC concentration values.

### INSTRUMENT:

vario TOC cube

### DETAILS:

mode: TOC

sample: 0.2 ml water



**Elementar Analysensysteme GmbH**  
Elementar-Straße 1  
63505 Langenselbold (Germany)  
phone: +49 (0) 6184 9393-0  
info@elementar.de | www.elementar.de

