

elementar varioTOC cube TN_b- and TOC-Analyzer

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Principal of measurement

- Conversion of bound carbon to CO₂ (Nitrogen to NO_x) via catalytic oxidation at high temperatures (up to 1200 °C)
- Drying, purification and detection
- Detector: NDIR

Possibilities

Determination of:

- TOC (total organic carbon)
- NPOC (non-purgeable carbon)
- TC (total carbon)
- TIC (total inorganic carbon)
- DOC (dissolved organic carbon)
- POC (particulate organic carbon)
- TN_b (total bound nitrogen)

Accessories

- Automatic sample transmitter in case of fluids
- Volume range of injection: 50 – 2000 µl
- Feed gas: synthetic air with a purity of 99,996%
- Desktop PC for device control and measuring data processing

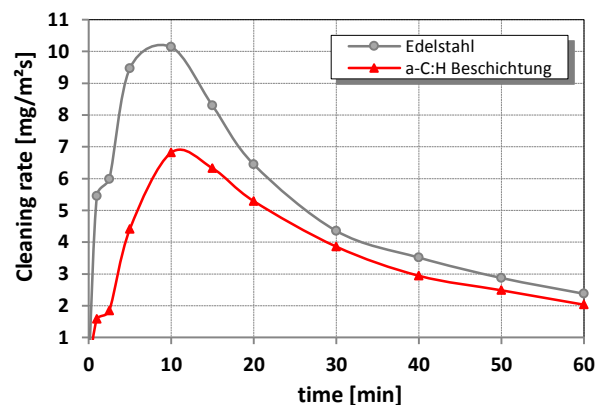
Measuring range

In case of fluids:

- Carbon: 0 – 60.000 ppm
- Nitrogen: 0 – 50.000 ppm
- Precision: 1 % at > 5 mg/L TOC/NPOC/TC/TIC

Duration of experiment

- 3 to 15 minutes (depending on the operating mode, on the determining parameter and on the sample volume and concentration)



Cleaning curve of whey protein fouling on stainless steel and DLC surfaces



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