

The **acquray** series, with its modular concept, offers an industry-leading versatility. Starting from the TOC analyzer base module, additional extra modules can be attached at anytime. Completing the package, two unique modules are available that enable the determination of Total Nitrogen in water in compliance with ISO 29441 and Total Phosphorus in water in compliance with ISO 15681. Thus, **acquray** is the world's first UV-digestion TOC analyzer with a Total Nitrogen and/or a Total Phosphorus option.



Total nitrogen determination after UV digestion

Concentration analysis of	TN in liquids in compliance with ISO 29441
Sample types	Ground, drinking, surface, and waste waters
Design	Compact device, power supply connected to the acquray TOC, no additional outlet needed, module of the acquray TOC
Sample introduction	autosampler with 68 positions / 40 ml vials or semi-automated with manual sample feeding, automatic acidification module available
Replicates	Up to triplicate analysis NPOC/TN, 30 ml sample volume required
Detector	Highly sensitive photometer with flow cell, wavelength of 546 nm
Control	Fully digital via external PC
Analysis time*	~15 min for NPOC/TN*
Calibration TN	Multipoint, multirange, matrix-independent calibration

* depending on sample type, analysis mode and configuration

Measurement Range and Technical Specifications

Measurement range:	0.05 – 20 mg/l TN
Detection limit:	0.05 mg/l TN*
Standard deviation:	< 2 % RSD (10 ppm standard solution)*
Dimensions:	22 × 53 × 56.5 cm (W × D × H)
Weight:	approx. 25 kg
Electrical connections:	100/110/200/230 V, 50/60 Hz, 1.8 kW