

# Sum of Oxidized Nitrogen, NO2-N and NO3-N/NOX

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LAST CHANGED: 31 MARCH 2022

## Known issues with the parameter and/or important method changes

Report (in Swedish) about [method comparison while changing to the Gallery instrument.](#)

Report (in Swedish) about [verification of the analysis when changing back from Gallery to Autoanalyser III in in 2018.](#)

## Current method of measurement

### Discrete analysis, photometric

Valid since July 2014 (from September 2018 only used for some projects with high levels)

Method: ISO 15923-1:2013

Instrument: Gallery

### Autoanalyzer

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Method: SS-EN ISO 13 395  
Instruments: Autoanalyzer 3

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### Previous methods (autoanalyzer)

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2000-01 – 2014-05

Method: SS-EN ISO 13 395 modified for Bran & Leubbe Method

G-287-02.

Instruments: Autoanalyzer 3 (upgraded Autoanalyzer II).

1998-07 – 2006-12

Method: SS 02 81 33-2 modified for Traacs. Bran & Leubbe Method No. J-002-88B.

Instrument: Technicon Traacs 800.

NB: Water samples conserved with H<sub>2</sub>SO<sub>4</sub>.

1997-01 – 1998-06

Method: Swedish Standard SS 02 81 33-2 modified for Traacs. Bran & Leubbe Industrial Method 55010279A.

Instrument: Technicon Traacs 800.

NB: Water samples conserved with H<sub>2</sub>SO<sub>4</sub>.

1989-01 – 1996-12

Method: Swedish Standard SIS 02 81 33 modified for Traacs. Bran & Leubbe Industrial Method 55010279A.

Instrument: Technicon Traacs 800.

NB: Water samples conserved with HgCl<sub>2</sub>.

1984-01 – 1988-12

Method: Wood, E. D., Armstrong, F. A. & Richards, F. A., J. Mar.

Biol. Ass. U. K., 1967, 47, 23-31. Modified for autoanalyser:

Henriksen, A. R. & Selmer-Olsen, A. R., Analyst 1970, 95, 514-518.

Koroleff, F., 1969. ICES report C. M. 1969/C:8.

NB: Water samples conserved with HgCl<sub>2</sub>.

1971-01 – 1983-12

Method: Wood, E. D., Armstrong, F. A. & Richards, F. A., J. Mar.

Biol. Ass. U. K., 1967, 47, 23-31. Modified for autoanalyser.

Henriksen, A. R. & Selmer-Olsen, A. R., Analyst 1970, 95, 514-518.  
 Koroleff, F., 1969. ICES report C. M. 1969/C:8.

Instrument: Technicon Autoanalyzer I.

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NB: Water samples conserved with HgCl<sub>2</sub>.

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Method: Mullin, J. B. & Riley, J. P., 1955. Anal. Chim. Acta. 12.

Modified for autoanalyser: Henriksen, A., 1965. The Analyst 90:83.

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Instrument: Technicon Autoanalyzer I.  
NB: Water samples conserved with HgCl<sub>2</sub>.

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## Contact

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## Links

Read about [nitrite on Wikipedia](#).

Read about [nitrate on Wikipedia](#).

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