

Diatom Flora of the Low Countries

***Gomphonella linearoides* (Z. Levkov in Z. Levkov et D.M. Williams) R. Jahn et N. Abarca in R. Jahn, W-H. Kusber, O. Skibbe, J. Zimmermann, A.T. Van, K. Buczkó et N. Abarca 2019.**

Basionym : *Gomphonema linearoides* Levkov, Phytotaxa 30: 30, figs 199–209, 246–250. 2011 (Levkov & Williams 2011)

Morphology

Valves almost linear, distinctly heteropolar, clavate, largest width in middle, larger valves slightly tumid in the middle and slightly constricted towards the obtusely rounded headpole. Footpole narrowly rounded. Central area large bow-tie shaped to rectangular. No isolated pore at the central area. Raphe slightly lateral with expanded proximal endings, teardrop shaped. Striae strongly radiate in middle, becoming slightly radiate to parallel near the poles..

Morphometrics

Source	Length (µm)	Width (µm)	Striae (in 10 µm)	Areolae (in 10 µm)
Own data (n=14)	18-37	5.1-7.0	9-11	
Levkov et Williams 2011	24-35	5.1-6.5	7-10	

Related species

Gomphonella olivacea (Hornemann) Rabenhorst (broader 5.5-8.7. broadly rounded headpole, central area small transversely elliptical, higher stria density 10-14).

Distribution

Gaverbeek, Kattebeek, Ossebeek, Barbierbeek (B), Dieze bovenstrooms RWZI Den Bosch, Jaarlasloot Wetzemertille, Keizersveer Bergsche Maas, Lobith ponton (NL).

Ecology

Slow running waters, calcareous with medium electrolyte content.

Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
4	2				5	

IPS

(Cemagref 1982)

IPS-S	IPS-V

Rott et al.1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v

TDI

(Kelly & Whitton 1995)

TI-S	TI-V

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Remarks

In the past this species was included by *G. olivacea*.



The Netherlands

References:

- Jahn, R., W. Kusber, O. Skibbe, J. Zimmermann, A. Tu Van, K. Buczko & N. Abarca (2019) *Gomphonella olivacea* (Bacillariophyceae) – a new phylogenetic position for a well-known taxon, its typification, new species and combinations.
- Levkov, Z. et D.M. Williams (2011) Fifteen new diatom (Bacillariophyta) species from Lake Ohrid, Macedonia.
- Levkov, Z., D. Mitić-Kopanja & E. Reichardt (2016) The diatom genus *Gomphonema* from the Republic of Macedonia. *Diatoms of Europe* 8.
- Reichardt, E. (2018) *Die Diatomeen im Gebiet der Stadt Treuchtlingen. Band 1 & 2.*

Citation:

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